

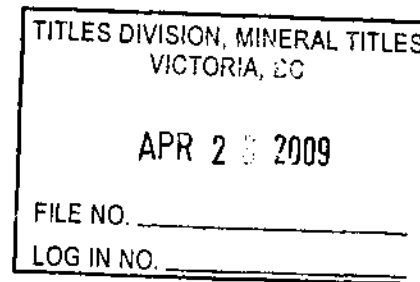
Pages 25-243 of this report remain confidential under the terms of the Coal Act Regulation, Section 2(1), and have been removed from the public version.

[http://www.bclaws.ca/EPLibraries/bclaws\\_new/document/ID/freeside/10\\_251\\_2004](http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/10_251_2004)



April 17, 2009

Mineral Titles  
Ministry of Energy, Mines & Petroleum Resources  
6<sup>th</sup> Floor, 1810 Blanshard Street  
PO Box 9326 Stn Prov Govt  
Victoria, BC  
V8W 9N3



**ATTN: Ms. Kim Stone, Coal Administrator**

Dear Ms. Stone:

Please find enclosed one copy of the report entitled "Fording River Operations, Summary Report - 2008 Exploration Program."

I trust this submission will fulfill the requirements under the Coal Act and Coal Act Regulations.

Yours truly,



**Barry F Musil P. Geo.**

**Senior Geologist, Supervisor**

**Fording River Operations | Teck Coal Limited**

Phone: 250.865.5169 | cell: 250.425.5615 | fax: 250.865.5165

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**Fording River Operations**

**Summary Report**

**2008 Exploration Program**

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## **Statements of Author's Academic and Professional Qualifications**

### **CERTIFICATE OF QUALIFIED PERSON**

**Name: Barry Musil, P.Geo.**

**Company: Teck Coal Limited**

**Address: Fording River Operations**

**P.O. Box 100**

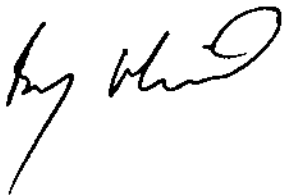
**Elkford, BC**

**VOB IHO**

**Phone: (250)865-5169**

I, Barry Musil, P.Geo, am employed as a Senior Geologist, Supervisor at Fording River Operations. This certificate applies to the report titled "Fording River Operations, Summary Report, 2008 Exploration Program". I graduated from the University of British Columbia with a Bachelor of Science Degree in Geology, 1984. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (# 19361). Since 1986 I have been involved with coal mining projects at Fording River Operations. As a result of my experience and qualifications, I am a Qualified Person as defined in National Instrument 43-101 Standards of Disclosure for Mineral Projects (NI 43-101).

**Barry F. Musil, P.Geo.**



## SCHEDULE C

PROVINCE OF  
BRITISH COLUMBIA

MINISTRY OF  
ENERGY, MINES AND  
PETROLEUM RESOURCES

TITLE PAGE OF  
ASSESSMENT REPORT

GENERAL NATURE OF WORK

TOTAL COST

Exploration

\$3,414,539.00

Author of Landsman \_\_\_\_\_ Signature (s) \_\_\_\_\_

B. Musil (P. Geo.)

Date Report Filed \_\_\_\_\_ Year of Work 2008

Property Name Fording River Operations

Coal Type (if applicable) Medium to High Volatile Bituminous

Mining Division Fort Steele Longitude 114° 52'  
Latitude 50° 12'

Coal License Numbers; Coal Leases; Freehold

BC Coal Lease #16

Lot #4588

Coal License, #327991

Owner (s)

(1) Teck Coal Limited

PO Box 100, Elkford, BC, V0b 1H0

Operator (s)

(a) Same

References to Previous Work

Annual Assessment Reports Since 1970



**Fording River Operations**  
**Summary Report**  
**2008 Exploration Program**

**I. Introduction**

**1. General Geography and History**

The Fording River Coal property is located in the Fording River and Upper Elk Valleys, approximately 25 kilometers north of Elkford, BC. Access is by paved road north from Elkford along the Fording River Valley, or north along the Elk River Valley via the Forestry Service gravel road or the Kan-Elk Powerline road.

The Fording River minesite is situated within the front range of the southern Canadian Rocky Mountains. At least ten major coal seams, generally greater than four meters thick, are contained in the Mist Mountain Formation of the Kootenay Group.

The Elk River portion of the property was actively explored by the Canadian Pacific Railway Company in the period 1902-1908. Until 1947, the property was comprised of 10,276 hectares in 40 Crown Granted Lots. In that year, the holdings were reduced to 2,979 hectares in 15 Crown Granted Lots. In 1967 and 1968, Canadian Pacific Oil and Gas reacquired part of the coal lands which had been abandoned in 1947. An additional nine Coal Licenses located at the south end of the property were acquired in 2001. At the present time, the Fording River Property consists of 22,635 hectares, held on seven Coal Leases, 9 Coal Licenses, and 15 Crown Granted Lots.

Mining operations, which commenced in 1971, have produced more than 205 million tonnes of clean metallurgical and thermal coal for markets in North and South America, Africa, Europe, and Asia.

**Reference:**

- i) Illustration No. 1A: Index Map - Coal Properties

## 2. Geology

### i) Stratigraphy

The general stratigraphic succession on the Fording River Property is summarized in the following table:

**Table 1 - Fording River Stratigraphy**

Period	Litho-Stratigraphic Units		Principal Rock Types
Recent			Colluvium
Quaternary			Clay, silt, sand, gravel, cobbles
Lower Cretaceous	Blairmore Group		Massive bedded sandstones and conglomerates
Lower Cretaceous to Upper Jurassic	K O O T E N A Y G R O U P	Elk Formation	Sandstone, siltstone, shale, mudstones, chert pebble conglomerate, minor coal
		Mist Mountain Formation	Sandstone, siltstone, shale, mudstones, thick coal seams
		Moose Mountain Member	Medium to coarse-grained quartz-chert sandstone
		Weary Ridge Member	Fine to coarse-grained, slight ferruginous quartz-chert sandstone
Jurassic	Fernie Formation		Shale, siltstone, fine-grained sandstone
Triassic	Spray River Formation		Sandy shale, shale quartzite
	Rocky Mountain Formation		Quartzite
Mississippian	Rundle Group		Limestone

The oldest rocks present on the Fording River property are the Rundle Group limestone, located on the west bank of the Fording River, near the southern property boundary. They are in faulted contact with the Kootenay Group to the west, and unconformable contact with Rocky Mountain Formation quartzites to the north. The latter are best exposed on the eastern slope of the Brownie Creek valley.

The Fernie Formation shales occur throughout the area, generally along the sides of the valleys on the lower flanks of the mountains. The shales are recessive and, generally poorly exposed. However there are some good exposures of Fernie Formation strata on the lower western slopes of Eagle Mountain in some creek drainages. The Fernie Formation is in conformable contact with the Morrissey through the "Passage Beds," which are a transitional zone from marine to non-marine sedimentation.

The Morrissey Formation, which is the "basal sandstone" of the Kootenay Group, is a prominent cliff-forming marker horizon in many locations. On the Fording River property, the top of the Moose Mountain member (Morrissey Formation) is in sharp contact with 010 seam, the lowermost bed of the Mist Mountain Formation.

The Mist Mountain Formation contains all of the economic coal seams, and is the most widely occurring formation on the Fording River property. This economically important formation is an interbedded sequence of sandstones, siltstones, silty shales, mudstones, and medium to high volatile bituminous coal seams. The volatile content of the coal increases up section, with decreasing rank. Lenticular sandstones comprise about 1/3 of the Mist Mountain sediments at Fording River, but very few laterally extensive sandstone beds exist.

The sandstone above and below seam 040 and above 090, are the most persistent units, and are often cliff-forming marker horizons.

The Mist Mountain Formation is generally overlain conformably by strata of the Elk Formation. On the Fording property, this formation is commonly a succession of sandstones, siltstones, shales, mudstones, chert pebble conglomerates, and sporadic, thin, high volatile bituminous coal seams. The coal seams are characterized by high alginate content and referred to as "Needle" coal. The Elk Formation is observed near the tops of the mountains, mainly on the east side of the Elk Valley on the Greenhills Range, and northward to the Mount Tuxford areas.

The top of the Elk Formation marks the upper boundary of the Kootenay Group, which is unconformably overlain by the basal member of the Blairmore Group. This thick

bedded, cliff-forming sandstone and conglomerate unit is observed on the upper slopes of Mount Tuxford.

## **ii) Structure**

Subsequent to deposition, the sediments were involved in the mountain building movements of the late Cretaceous to early Tertiary Laramide orogeny. The major structural features of the Fording River property are the north-south trending synclines with near horizontal to steep westerly dipping thrust faults, and a few high angle normal faults. Some of the thrust faults were probably folded late in the tectonic cycle.

The formation of the major fold structures began early in the tectonic cycle. In the current mining area, two asymmetric synclines are evident: the Greenhills Syncline to the west, and the Alexander Creek Syncline to the east of the Fording River.

The thrust faulting (ie: the Ewin Pass and Brownie Ridge Thrusts), was probably contemporaneous with the later stages of folding. The intervening anticline was subsequently faulted (Erickson Fault), then eroded.

The Alexander Creek Syncline can be traced from the southern property boundary on Castle Mountain to the northern end of the property on Weary Ridge. The strata of the west limb, on the west face of Eagle Mountain, dip easterly at 20 to 25<sup>o</sup>, decreasing gradually to zero as the axis is approached. The east limb, however, attains a 20<sup>o</sup> westerly dip within a much shorter (500m) distance of the axis. This asymmetry is possibly due, at least in part, to the influence of the Ewin Pass Thrust which subcrops 600 to 800 meters east of the synclinal axis.

Further to the east, on Brownie Ridge, the strata dip westerly at a mean dip of 42<sup>o</sup>. The Brownie Ridge Thrust, which subcrops near the crest of the ridge, probably contributes to this steepening.

Within the mining area, the axis of the Alexander Creek Syncline plunges to the north at an average of 4<sup>o</sup>. Turnbull Mountain exhibits a localized series of en echelon fold structure, plunging both to the north and to the south. These subsidiary folds may be

related to thrust faulting. From the south end of Mount Tuxford, the synclinal axis continues north-northwest along the base of Mount Veits and into the Elk River Valley near Aldridge Creek.

On Mount Tuxford, the beds exposed are those of the Elk Formation and the overlying (non-coal bearing) Cadomin Formation. The area has not been extensively explored. The stratigraphic sequence of the east limb, in the more extensively explored Mist Mountain strata near Aldridge Creek (Elco property), closely resembles the east limb strata found on Henretta Ridge, ten kilometers to the south.

On the northwest corner of Eagle Mountain, the lower Kootenay-upper Fernie section is the locus for a zone of near horizontal thrust faulting. The effect is to cause a double repetition of the lower coal seams and basal sandstone on the west synclinal limb. This fault zone is synclinal in form and continuous with the Ewin Pass Thrust zone found in the east limb.

The Greenhills Syncline in the mining area is essentially a "mirror-image" of the Alexander Creek structure. The east limb of the asymmetric syncline dips westerly at 15 to 25°, except in areas near the Erickson Fault, where 45 to 55° dips are common. The west limb exhibits much steeper dips, commonly in the 35 to 45° range. The Greenhills Syncline plunges northward (340 to 350°), at less than 5°, and then appears to die out to the north in the area of the Osborne Creek Depression.

The Erickson Fault, which locally runs along the base of the Greenhills Range, west of the Fording River, is one of the major regional faults. From south to north, this westerly dipping (40 to 70°) normal fault, brings Mist Mountain strata progressively into contact with Rundle, Rock Mountain, Spray River, Fernie, and Morrissey strata. The downthrown block is to the west.

Near the south end of Lake Mountain, the Erickson Faults begins to "splay" into two zones. The main fault runs along the eastern margin of Lake Mountain, and the subsidiary fault runs to the west and appears to "die out" northward. The steep northward dip exhibited in the Lake Mountain strata could be due to influence from

these flanking “splays” of the fault. The flat lying region to the north of Lake Mountain (Osborne Creek Depression area) is completely void of outcrop, and the Erickson Fault has not been traced either through or to the north of this area.

**Reference:**

- i) Illustration No. 1B: General Geology Map

**3. Summary of Work Done in 2008**

A total of 44 reverse circulation drill holes were completed for 13,854 metres. Rotary drilling was done by Boart Longyear, SDS Division (Calgary, AB) using two Ingersol Rand TH100 truck mounted rigs. All holes were geophysically logged through the rods using the gamma-neutron method. Holes that remained open after the rods were pulled were logged for down hole deviation, and for gamma-density. Geophysical logging was done by Century Wireline (Penhold, AB).

Coal seams encountered by rotary drilling were sampled in 0.5m intervals. Representative composite samples for each coal seam encountered in the hole were prepared at Fording River Operation’s process plant laboratory. Each seam composite was tested for proximate analysis, % Sulphur, and Free Swelling Index. Samples from selected seam composites were sent to David E. Pearson and Associates (Victoria, B.C.) for petrographic analysis.

Bulk sampling was also undertaken using the Large Diameter Reverse Flood (LDRF) method. The bulk sampling was done by Northwest Sequoia Drilling Ltd. (Crossfield AB). Seven sites (approximately 21 holes) were sampled. In all 15 bulk samples were taken for a total of approximately 55 tonnes. The individual seam bulk samples were taken to Teck Coal’s Coal Mountain Operation and processed in the pilot plant to obtain a clean coal sample. Raw proximate analysis was done prior to processing the coal. The clean sample was sent to Canmet Laboratories (Ottawa, ON) for analysis. At Canmet

carbonization was achieved using a Carbolite Pilot Coke Oven. Full coke analysis was carried out on the product. Prior to carbonization a representative clean coal sample was split off and the following tests were conducted: proximate analysis, rheological / thermoplastic properties, mineral ash analysis, petrography (Pearson), and sizing. Preliminary results are encouraging, final results are still pending at this time.

Fording environmental staff laid out the access roads and drillsite locations. Pre-logging was carried out by Trucut Logging (Sparwood BC). Road and drillsite construction was done by Barrie MacKay Contracting Ltd (Cranbrook BC). Fording staff surveyors provided the required survey control and drillhole pickups.

The following table shows the drillhole locations with respect to Coal Lease and License boundaries:

**Table 2 - Drillhole Locations**

<u>Lease/License</u>	<u>Drillholes</u>
L4588 (freehold)	RH # 2956, 2953, 2967, 2948, 2946, BK-0005
BC Coal Lease #16	RH # 2961, 2958, 2954, 2950, 2951, 2945, 2944, 2942, 2941, 2939, 2938, 2937, 2935, 2931, 2930, 2929, 2928, 2927, 2926, 2925, 2924, 2922, 2918, 2917, 2916, 2920, 2921, BK-0001, 0002, 0003, 0004, 0006
Coal License #327991	RH # 2986, 2984, 2981, 2985, 2983, 2982, 2980, 2978, 2971, 2970, 2964, 2969, BK-0007

Geological field mapping was conducted but not completed due to inclement fall weather by Fording staff geologists on Castle Mountain. This work is to be completed in the summer of 2009.

**Reference:**

## **II. Individual Area Programs**

### **1. Castle Mountain**

#### **i) Objective**

A recent economic evaluation of the mining potential on the southwest flank of Castle Mountain indicated a good potential for large scale mining in this area. Prior to 2007, approximately 50% of the project area had been drilled to a density sufficient for inclusion in reserves.

The objective of the 2008 drilling, bulk sampling, and field mapping program was to provide additional seam location, thickness, and quality data above what was achieved with the 2007 drilling and mapping program. The primary goal was to achieve data point information at a density sufficient to upgrade this area to reserves status. This can be accomplished in two to four years, depending on the size of subsequent programs.

#### **ii) Summary of Work Done**

As above 44 reverse circulation rotary drillholes were completed in 2008 for a total of 13,854 metres. Some seam exposures on new access roads were mapped. However, the majority of mapping and seam exposure sampling was not completed due to a shortage of Fording River staff, and early inclement fall weather. Exposed seams will be sampled and analyzed for Ro max. Mapping will be completed in the summer 2009.

All holes were geophysically logged through drill rods using the gamma-neutron method. Holes that remained open after the drill rods were pulled, were open hole logged for gamma-density and hole deviation.

As above bulk sampling was also undertaken using the LDRF method. Seven sites (approximately 21 holes) were sampled. In all 15 bulk samples were taken for a total of approximately 55 tonnes. These samples subsequently underwent full coke analysis,



proximate analysis, mineral ash analysis, rheological / thermoplastic properties, and petrography.

### **iii) Results and Conclusions**

The 2008 drilling program concentrated on the north, central and southern portions of Castle Mountain biased to the west.

The northern project area (145900N - 147600N) included thirteen reverse circulation drill holes and intersected the entire section from 160 seam down to 010 seam and basal sandstone. There were also two LDRF bulk sample sites in North Castle. BK-0001 which sampled 070, 072, 051, and 040 seams, and BK-0002 which sampled 091/090, 071, and 070 seams. The central/southern portion of the program included 31 reverse circulation drillholes and was a continuation of the 2007 drill program intersecting primarily seams 140 to 054. As in previous holes seams, 140, 130, 110, 071, 070, 051, 050, and 054 are the only seams that maintain a thickness exceeding 5 metres with reasonable continuity. Seam 070 is exceptionally thick and continuous in the north central area. A drillhole density of 200m has now been achieved in some of the reserve area. The primary goal in subsequent programs on Castle will be to achieve better than 200m density throughout the entire reserve area. There were also five LDRF bulk sample sites included in the central/southern area. BK-0003 sampled 050 seam, BK-0004 sampled 146, 130, 111, and 110 seams, BK-0005 sampled 110 seam, BK-0006 sampled 160, and 150 seams, and BK-0007 sampled 140 seam.

The project area is structurally dominated by the Alexander Creek syncline; primarily the west limb. Several minor thrust faults affect the area resulting in localized repetitions of many of the coal seams. The regional Ewin Pass thrust fault forms the eastern boundary of the project area.

Results from the 2008 drilling program have been incorporated into the Castle Mountain 3D Block Model. The 2007 and 2008 programs necessitated significant structural revisions to the 2006 geological model. Economic evaluation is currently

underway and will be complete by the summer of 2009. It is expected to differ notably from previous evaluations.

## **2. Bare Mountain**

### **i) Objective**

A regional study conducted in 2000 combined with data from 32 reverse circulation rotary drillholes completed since 2001 indicated some potential for large scale open pit mining exists on Bare Mountain.

The objective of the 2007 exploration program was to provide additional seam location, thickness, and quality information required to update a 3D block model for the northern portion of Bare Mountain. The three most southerly holes drilled in 2006 did not show a southward extension of any mining potential.

### **ii) Summary of Work Done**

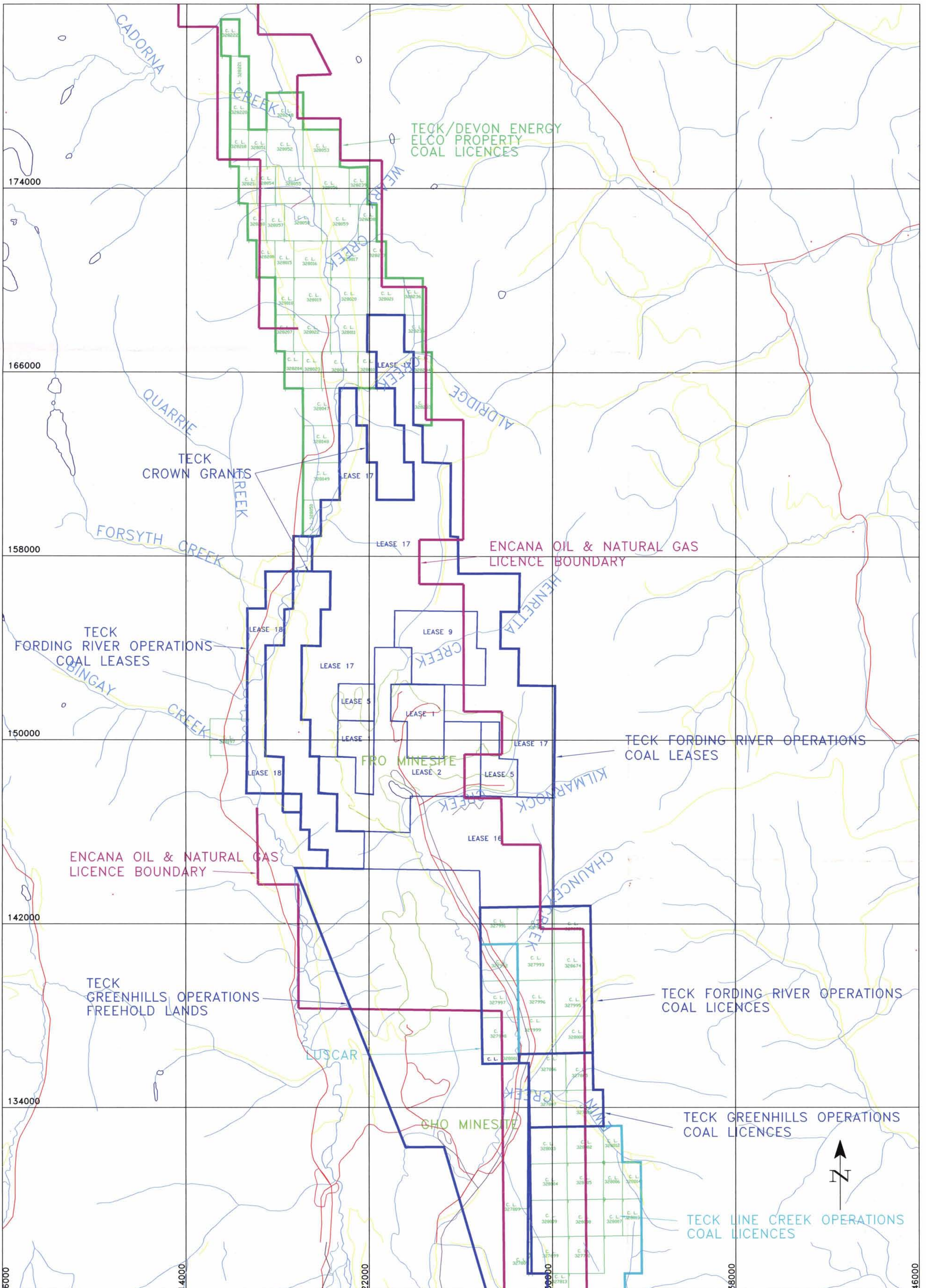
No field work was done on Bare Mountain in 2008. Bare Mountain is included in this report as the analysis was not complete at the time the 2007 Report was submitted.

### **iii) Results and Conclusions**

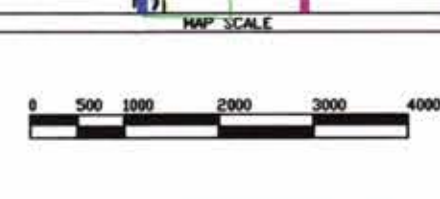
The 2007 drilling and field mapping program concentrated on the north and northwest portions of Bare Mountain. The area is characterized by very steep westerly dipping bedding (45 to 75 degrees) on the east limb of the Alexander Creek syncline; beneath the Ewin Pass thrust fault. Several minor thrust faults also affect the area; the eastern most of which is likely the southern extension of the Brownie Ridge thrust seen on Eagle Mountain.

The entire sequence of Mist Mountain Formation was intersected in several of the deeper holes, with Elk Formation 200m thick in RH #2849 (drilled 2006). The Mist Mountain Formation on Bare Mountain contains three dominant coal seams (050, 070, and 110) which are consistently greater than ten meters in thickness, and often significantly thicker. The remaining seams are inconsistent but often thinner than five metres.

An economic analysis to show economic feasibility for open pit mining using 2007 costs and revenue has shown North Bare Mountain to be feasible when mined in conjunction with South Castle.



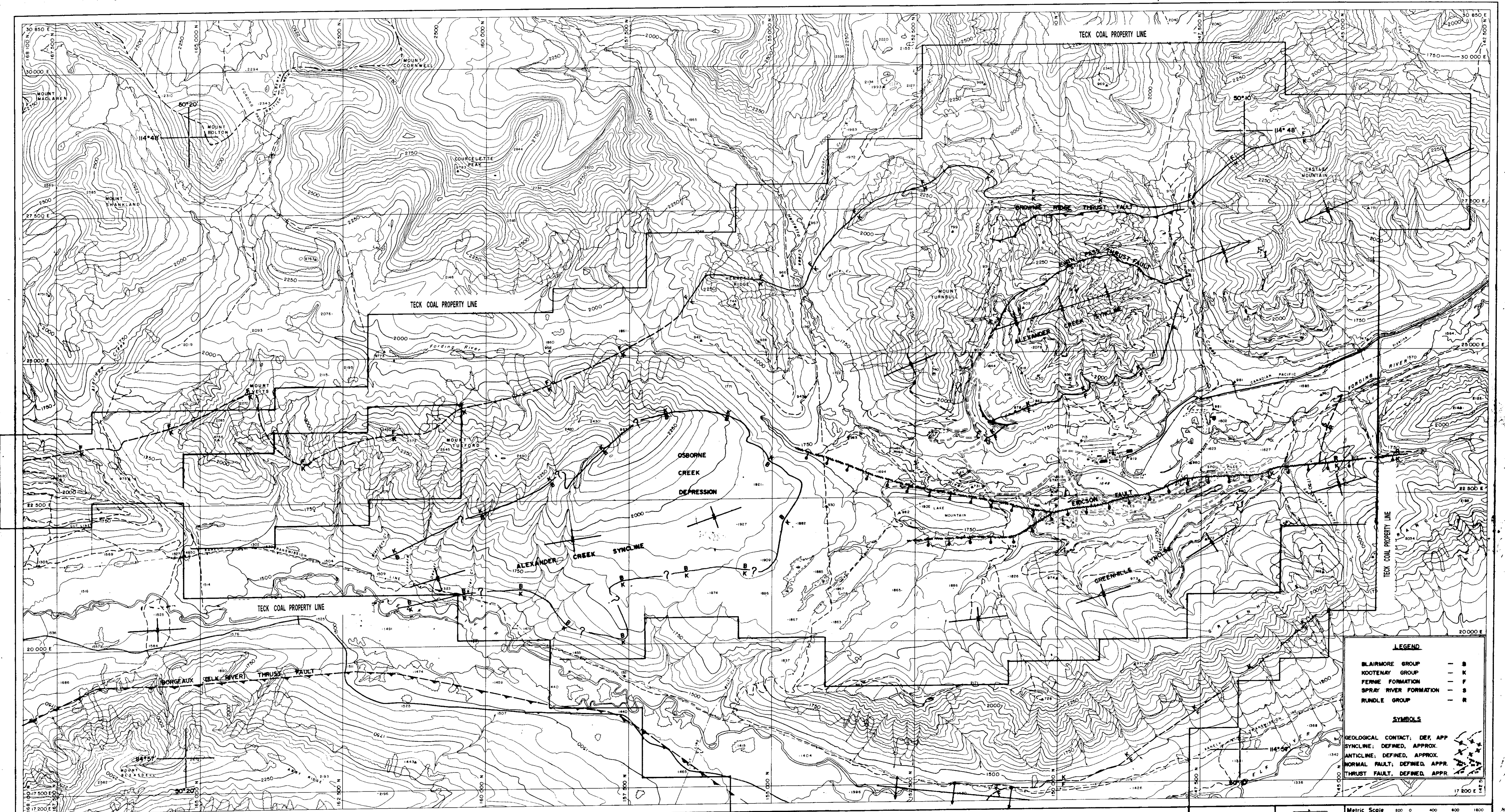
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DATE	MADE BY	DESCRIPTION
03-10-06		

**ILLUSTRATION 1A. TECK COAL UPPER ELK VALLEY COAL TENURE**

DATE	DRAWN BY	CHECKED	APPROVED	HWP INDEX NUMBER	SCALE	DRAWING NUMBER
03-10-06					1:60000	



**LEGEND**

BLAIRMORE GROUP — S  
 HOOTENAY GROUP — K  
 FERNE FORMATION — F  
 SPRAY RIVER FORMATION — S  
 RUNDLE GROUP — R

**SYMBOLS**

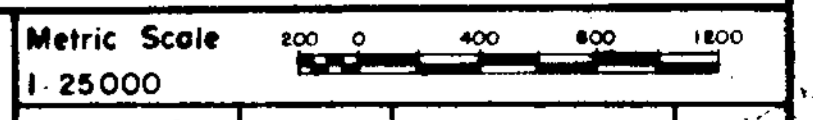
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Job No. 06333-7 Date Flown: August 1977  
 McILHANNY SURVEYING & ENGINEERING LTD.

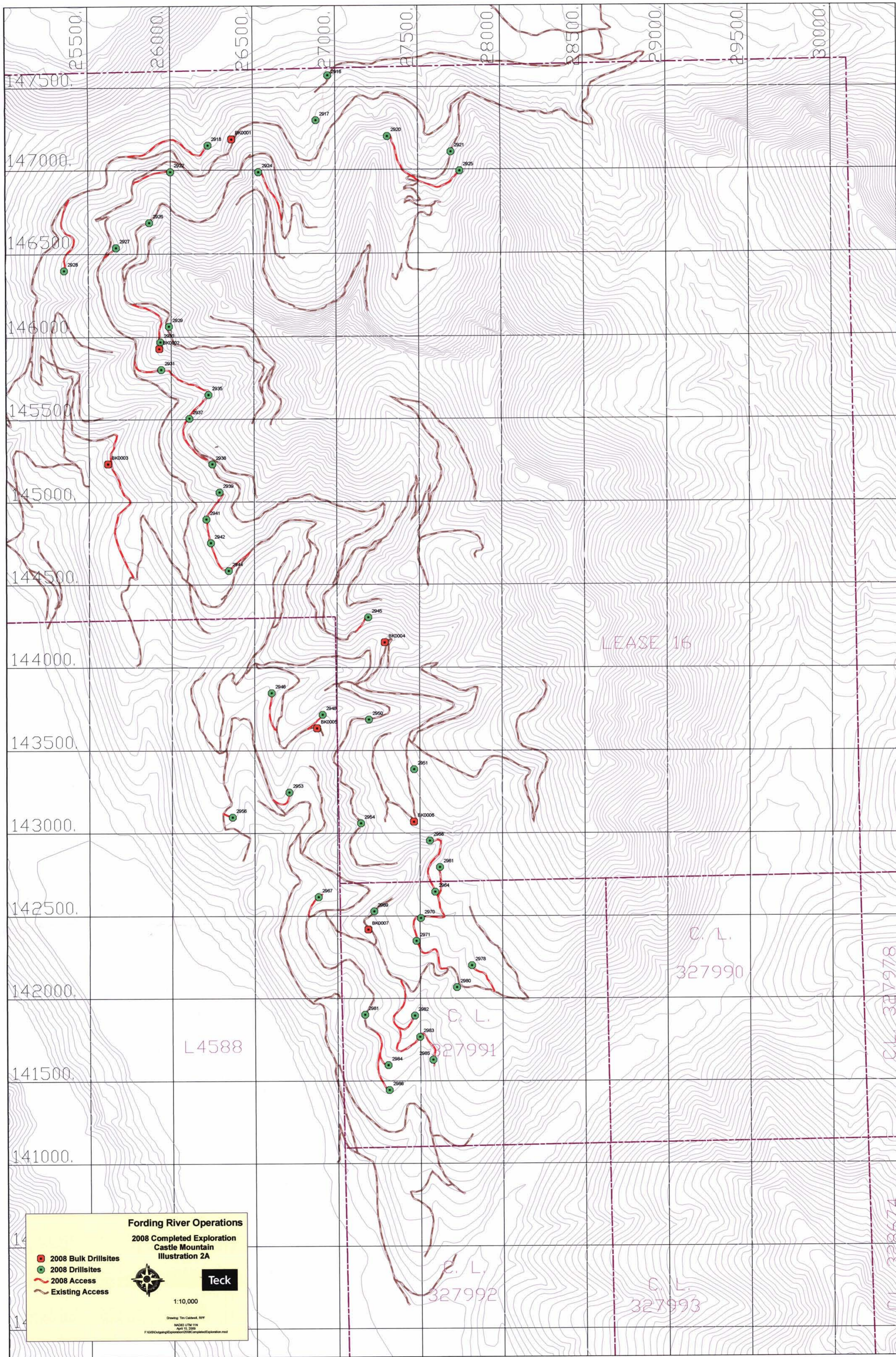
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Section:		Design Eng:	
Job:		Proj Eng:	
Approved:			

**GEOLOGY MAP** — TECK COAL PROPERTY LINE

ILLUSTRATION 18  
**ENGINEERING**



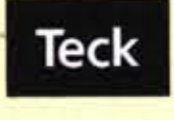
Go-ordinates and Elevations on this Map are in Metric



**Fording River Operations**

**2008 Completed Exploration  
Castle Mountain  
Illustration 2A**

- 2008 Bulk Drillsites
- 2008 Drillsites
- ~ 2008 Access
- ~ Existing Access



1:10,000

Drawing: Tim Caldwell, RPP  
NAD83 UTM 11N  
April 15, 2009  
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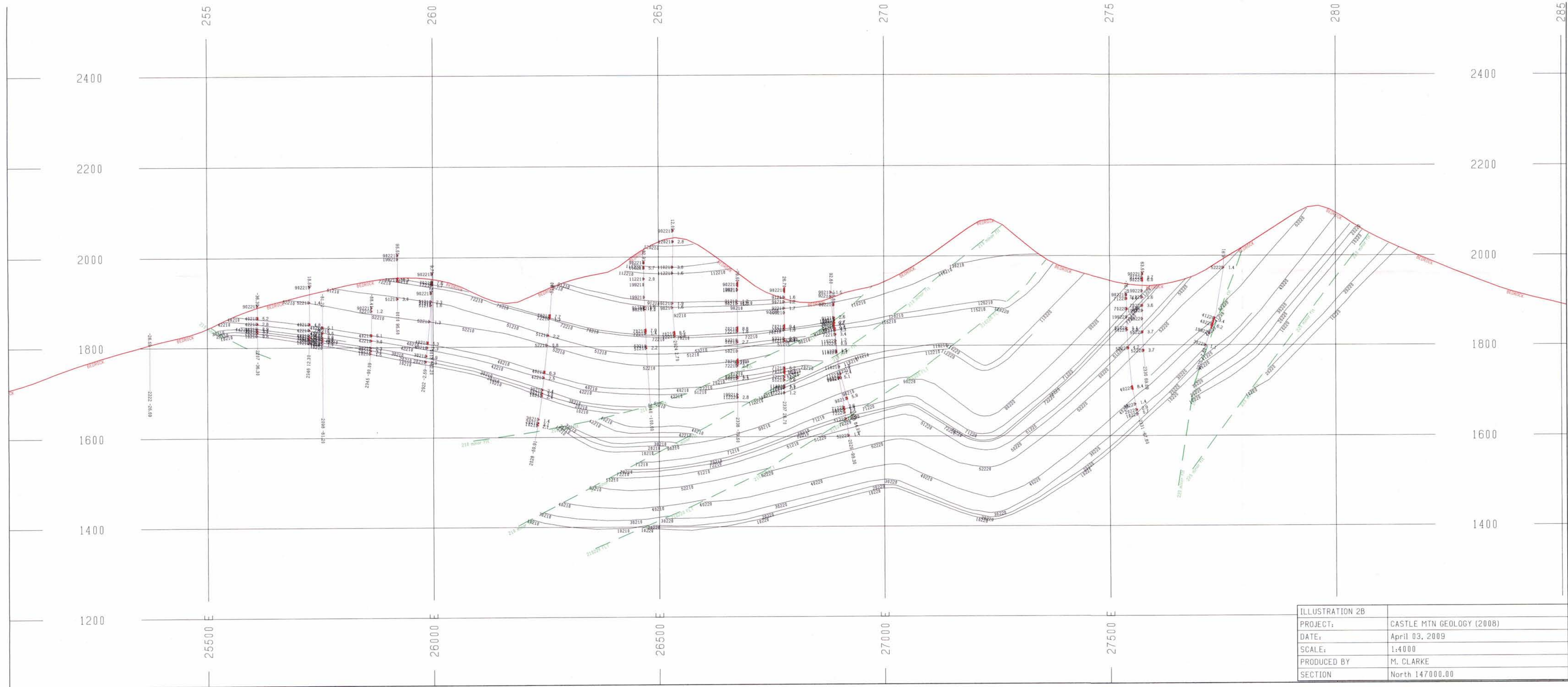


ILLUSTRATION 2B	
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DATE:	April 03, 2009
SCALE:	1:4000
PRODUCED BY	M. CLARKE
SECTION	North 147000.00

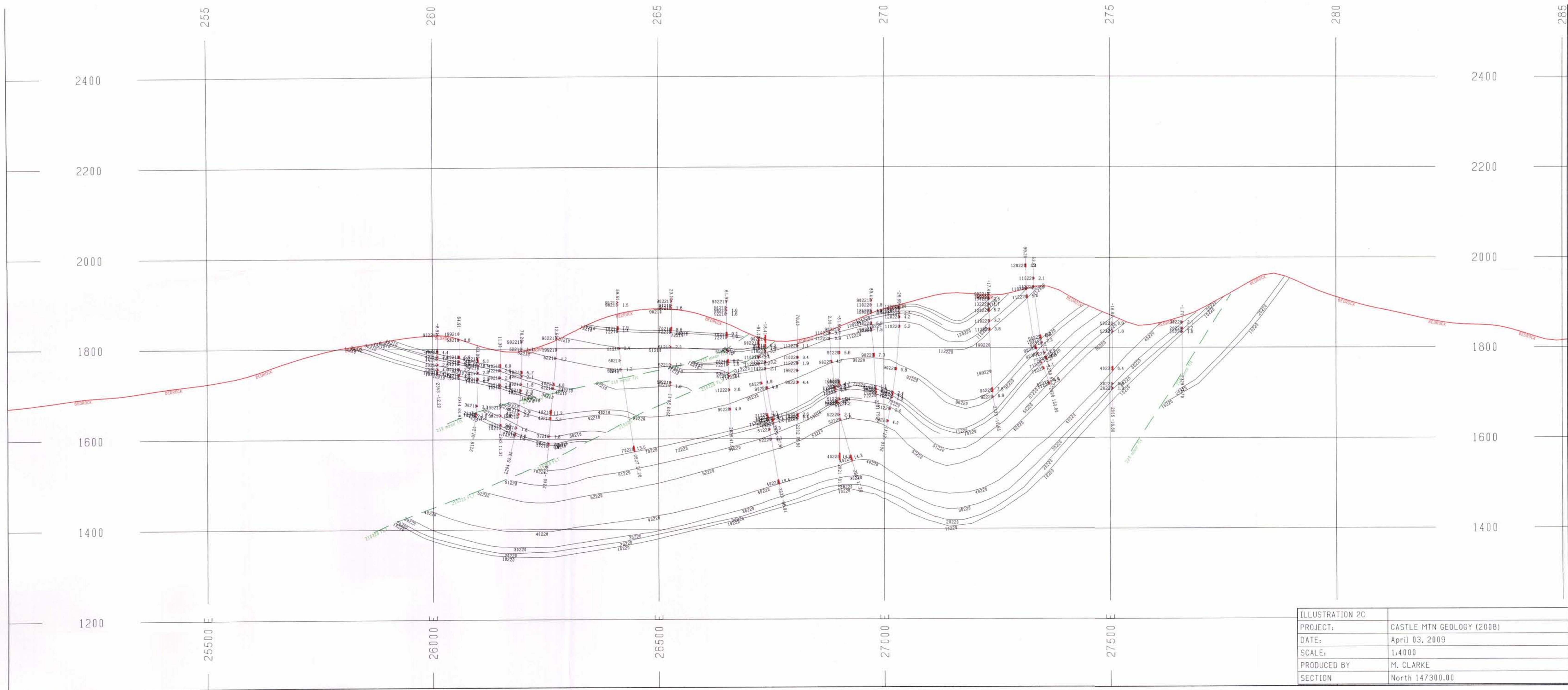


ILLUSTRATION 2C	
PROJECT:	CASTLE MTN GEOLOGY (2008)
DATE:	April 03, 2009
SCALE:	1:4000
PRODUCED BY	M. CLARKE
SECTION	North 147300.00



# i) Hole collar survey

DH	2938	26244.798	145229.510	2023.394	0.207	0.165	1.400
DH	2941	26208.822	144895.129	1965.655	0.020	0.027	1.400
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DH	2916	26954.680	147571.382	1794.251	0.020	0.020	1.400
DH	2917	26880.767	147298.001	1852.031	0.030	0.036	1.400
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DH	2920	27314.524	147201.198	1998.032	0.018	0.018	1.400
DH	2921	27698.683	147108.003	1935.862	0.024	0.050	1.400
DH	2922	25998.854	146990.297	1964.179	0.019	0.014	1.450
DH	2924	26532.196	146987.930	2058.994	0.021	0.013	1.400
DH	2925	27751.808	146993.015	1995.456	0.024	0.047	1.400
DH	2926	25868.887	146687.246	2077.253	0.034	0.039	1.400
DH	2927	25666.662	146537.482	2015.875	0.020	0.015	1.400
DH	2927	25666.895	146537.351	2015.993	0.023	0.023	1.450
DH	2928	25352.712	146400.157	1916.870	0.029	0.036	1.450
DH	2929	25985.536	146063.727	2145.041	0.023	0.019	1.400
DH	2930	25933.354	145969.867	2095.449	0.058	0.103	1.400
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DH	2935	26224.983	145648.666	2027.730	0.020	0.015	1.400
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DH	2937	26107.631	145505.473	2018.441	0.456	0.260	2.050
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DH	2944	26343.281	144585.593	1936.321	0.020	0.023	1.400
DH	2945	27188.005	144303.339	2017.010	0.053	0.043	1.400
DH	2946	26602.277	143849.091	1823.567	0.028	0.056	1.400
DH	2948	26910.858	143716.742	1835.611	0.022	0.032	1.400
DH	2950	27191.839	143686.276	1891.482	1.751	0.872	1.400
DH	2950	27191.755	143686.901	1891.241	0.035	0.024	2.050
DH	2951	27464.678	143387.190	1995.983	0.027	0.026	1.400
DH	2951	27464.349	143387.092	1996.070	0.022	0.019	2.050
DH	2954	27141.439	143059.974	1861.455	0.409	0.976	1.400
DH	2956	26368.500	143097.885	1746.277	0.024	0.027	1.400
DH	2958	27558.510	142955.796	1905.971	0.018	0.016	1.400
DH	2961	27619.500	142795.940	1939.354	0.028	0.057	1.400
DH	2964	27590.588	142647.174	1922.054	0.024	0.015	1.400
DH	2967	26884.532	142616.082	1746.894	0.277	0.271	1.400
DH	2953	26708.295	143248.467	1782.686	0.054	0.067	1.400
DH	2969	27221.060	142529.388	1841.713	0.022	0.021	1.400
DH	2970	27503.750	142487.757	1893.244	0.025	0.022	1.400
DH	2971	27477.174	142343.016	1874.898	0.027	0.018	1.400
DH	2978	27812.703	142200.187	1896.687	0.050	0.036	1.400
DH	2980	27721.067	142067.852	1870.671	0.021	0.016	1.400
DH	2981	27163.356	141903.126	1754.186	0.031	0.025	1.400
ELEV		27439.045	141997.909	1817.735	0.032	0.029	1.400
DH	2982	27460.711	141891.942	1800.883	0.044	0.070	1.400
DH	2983	27496.227	141767.418	1768.874	0.030	0.047	1.400
DH	2984	27303.657	141596.203	1757.725	0.020	0.020	1.400
DH	2983	27496.255	141767.536	1768.939	0.031	0.048	1.400
DH	2985	27575.491	141628.725	1773.796	0.034	0.028	1.400
DH	2984	27303.598	141596.298	1757.697	0.027	0.019	1.400
DH	2986	27309.567	141445.788	1729.095	0.017	0.014	1.400
DH	BK0001	26369.697	147185.896	1908.268	0.041	0.059	1.400
DH	BK0002	25927.253	145922.819	2095.989	0.022	0.025	1.400
DH	BK0002	25927.086	145925.521	2095.813	0.034	0.061	1.400
DH	BK0002	25926.645	145928.510	2095.715	0.034	0.061	1.400
DH	bk0004	27287.910	144152.299	1961.264	0.028	0.028	1.400
DH	bk0006	27464.700	143067.602	1955.768	0.367	0.366	1.400
DH	bk0006	27463.047	143069.767	1955.828	0.353	0.355	1.400
DH	bk0003	25610.817	145236.237	1820.265	0.034	0.060	1.400
DH	bk0003	25612.082	145233.419	1820.396	0.034	0.060	1.400
DH	bk0007	27192.964	142412.437	1826.181	0.022	0.021	1.400
DH	bk0007	27189.263	142415.675	1826.251	0.023	0.022	1.400
DH	bk0007	27185.984	142418.553	1826.291	0.023	0.022	1.400
DH	bk0005	26876.720	143635.057	1814.581	0.022	0.047	1.400
DH	2922	25998.828	146990.603	1964.109	0.017	0.012	1.400

Pages 25-243 of this report remain confidential under the terms of the Coal Act Regulation, Section 2(1), and have been removed from the public version.

[http://www.bclaws.ca/EPLibraries/bclaws\\_new/document/ID/freeside/10\\_251\\_2004](http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/10_251_2004)

**Gamma-Caliper**  
COMPENSATED DENSITY  
2916

ELWALLEY COAL  
2916  
CASTLE NORTH  
CANADA  
BRITISH COLUMBIA  
CASTLE NORTH  
210954, 680  
14, 755-F, 1, 382  
1949, 251

OTHER SERVICES  
0007  
0005

TOOL JOY  
SERIAL NO. 4443

DATE: Sep 30, 2008

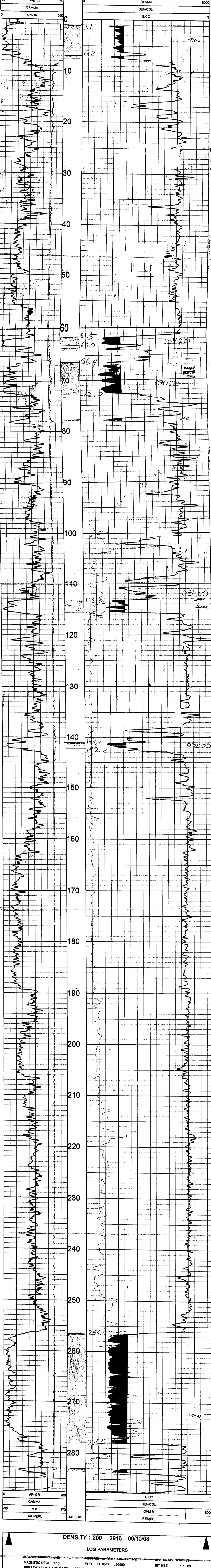
G. Hand

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

DENSITY 1:200 2916 09/10/08

LOG PARAMETERS

MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.0      ELECT CUTOFF: 99999      BIT SIZE: 13.00  
 PRESENTATION NAME/DATE: 9239C1DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK



DENSITY 1:200 2916 09/10/08

LOG PARAMETERS

MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.0      ELECT CUTOFF: 99999      BIT SIZE: 13.00  
 PRESENTATION NAME/DATE: 9239C1DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK

TOOL CALIBRATION 2916 09/10/08 13:23  
 TOOL: 9239C1      TM VERSION 2019  
 SERIAL NUMBER 4443

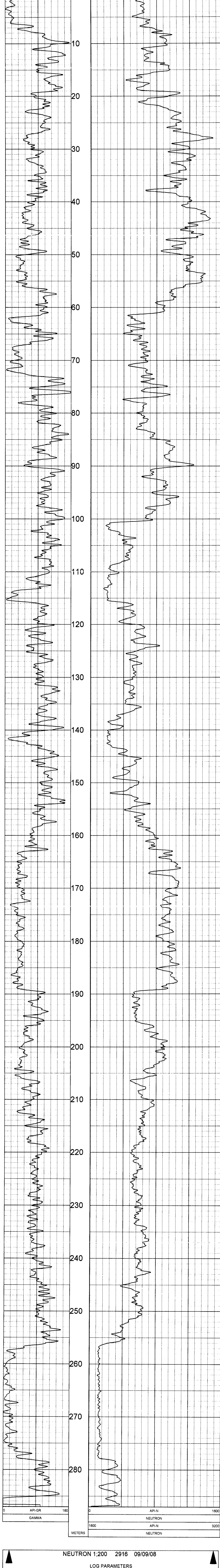
DATE	TIME	SENSOR	STANDARD	RESPONSE	[CPS]
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	300.00	[CPS]
	Aug22,07 12:48:04	VOLTAGE	320.000 [API-GR]	7335.30	[CPS]
2	May13,08 11:07:48	VOLTAGE	32.000 [MV]	36082.80	[CPS]
3	May13,08 11:07:48	CALIPER	159.000 [INCH]	283948.00	[CPS]
4	Aug10,08 14:01:28	CALIPER	343.000 [INCH]	420450.00	[CPS]
5	Aug10,08 14:01:28	DEN(LS)	1.000 [G/CC]	39714.70	[CPS]
6	May13,08 15:57:42	DEN(LS)	2.323 [G/CC]	3858.70	[CPS]
7	May13,08 15:57:42	DEN(SS)	1.000 [G/CC]	73088.50	[CPS]
8	May13,08 15:57:55	DEN(SS)	2.323 [G/CC]	25243.90	[CPS]
9	Aug24,08 13:04:07	CALIPERL	100.000 [INCH]	118545.10	[CPS]
10	Aug24,08 13:04:07	CALIPERL	157.500 [INCH]	177468.50	[CPS]
11	May13,08 11:09:11	CURRENT	32.000 [UA]	7762.80	[CPS]
12	May13,08 11:09:11	CURRENT	252.400 [UA]	28347.60	[CPS]
13	Aug20,07 18:08:28	F	Default [CPS]		
14	Aug20,07 18:08:28	X	Default [CPS]		

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9065 9039
WELL	2916		
FIELD	CASTLE NORTH		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT COUNTRY	GL	ELEVATIONS N/A	
LOG MEASURED FROM GL		ELEVATION DR N/A	
DRL MEASURED FROM GL		ELEVATION GL N/A	
DATE	09/09/08		
DEPTH DRILLER	298.00		
BIT SIZE	13.00		
LOG TOP	-2.83		
LOG BOTTOM	287.00		
CASING LOGGER	N/A		
CASING DRILLER	9.0		
CASING TYPE	N/A		
BOREHOLE FLUID	WATER		
RAM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

NEUTRON 1:200 2916 09/09/08

LOG PARAMETERS

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2916 09/09/08

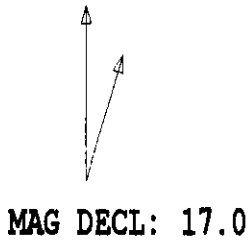
LOG PARAMETERS

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

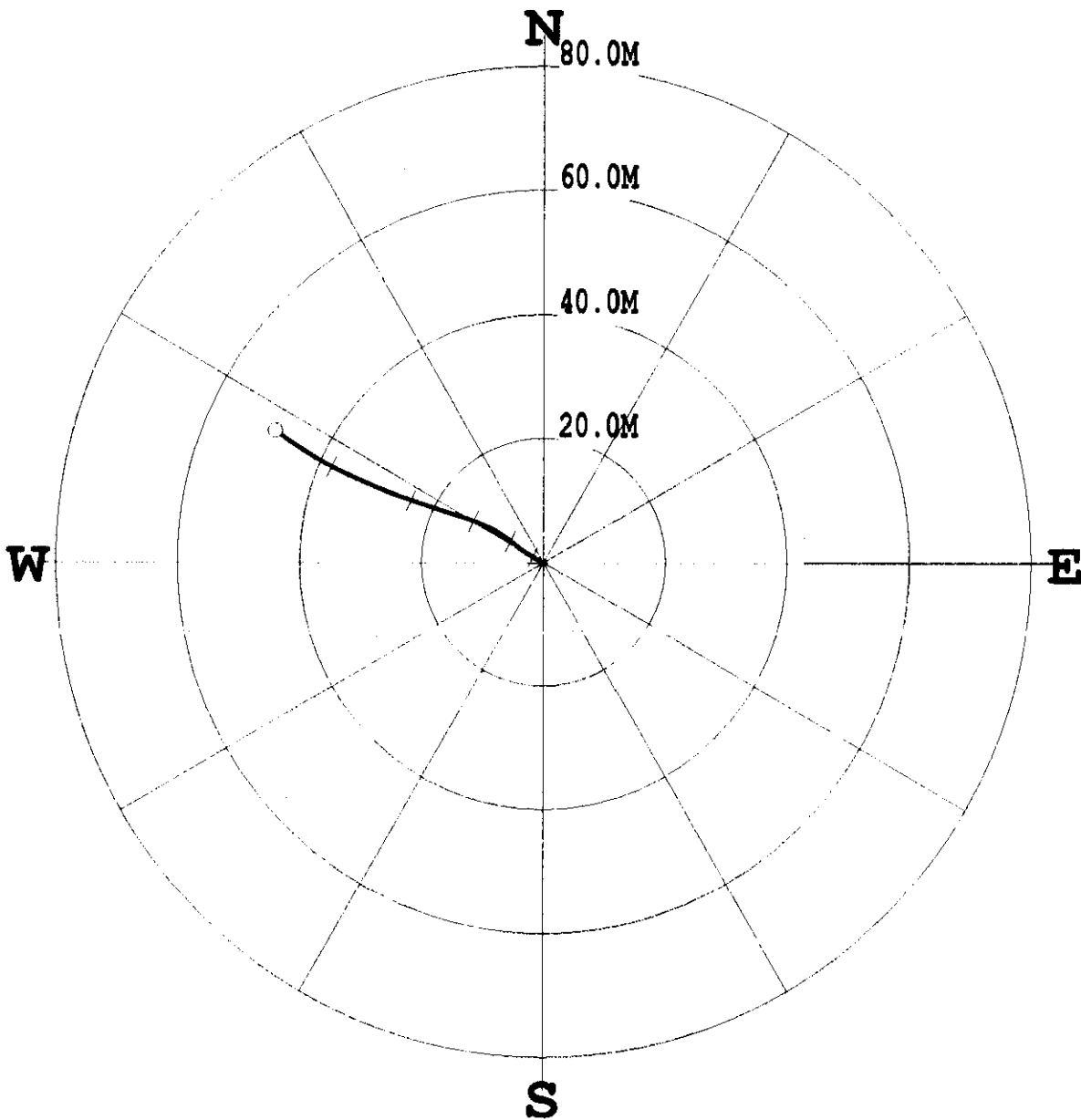
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
	Jul20.07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
2	Sep03.06 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2916  
 DATE OF LOG: 09/10/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 281.85 M  
 AZIMUTH: 295.8  
 DISTANCE: 48.7 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2916  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 09/10/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2916\_09-10-08\_12-32\_9055A\_02\_14.00\_287.52\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
14.02	14.02	0.00	-0.00	0.0	298.8	1.4	298.8
24.00	23.99	0.20	-0.35	0.4	299.4	2.6	301.4
34.00	33.98	0.46	-0.81	0.9	299.8	3.1	298.5
44.00	43.96	0.77	-1.35	1.6	299.7	3.7	299.1
54.00	53.93	1.12	-1.98	2.3	299.6	4.4	301.0
64.00	63.90	1.53	-2.67	3.1	299.8	4.9	302.3
74.00	73.86	1.99	-3.39	3.9	300.4	5.0	307.7
84.00	83.82	2.53	-4.11	4.8	301.6	5.4	308.5
94.00	93.78	3.14	-4.84	5.8	303.0	5.4	310.0
104.00	103.72	3.77	-5.66	6.8	303.6	6.1	306.9
114.00	113.66	4.41	-6.56	7.9	303.9	6.6	302.5
124.00	123.59	5.05	-7.59	9.1	303.6	7.4	301.0
134.00	133.49	5.67	-8.84	10.5	302.7	8.7	295.8
144.00	143.36	6.31	-10.33	12.1	301.4	9.7	292.1
154.00	153.20	6.93	-11.98	13.8	300.1	10.5	285.2
164.00	163.00	7.54	-13.86	15.8	298.5	11.5	287.1
174.00	172.80	8.14	-15.78	17.8	297.3	11.8	287.6
184.00	182.57	8.77	-17.79	19.8	296.2	12.2	288.0
194.00	192.33	9.47	-19.88	22.0	295.5	13.4	288.9
204.00	202.04	10.22	-22.14	24.4	294.8	14.0	288.8
214.00	211.74	11.01	-24.44	26.8	294.2	14.4	290.1
224.00	221.42	11.90	-26.80	29.3	293.9	15.0	292.7
234.00	231.04	12.96	-29.31	32.1	293.8	16.5	292.5
244.00	240.60	14.14	-32.00	35.0	293.8	17.4	293.5
254.00	250.13	15.44	-34.73	38.0	294.0	18.0	297.1
264.00	259.62	16.95	-37.47	41.1	294.3	18.5	301.4
274.00	269.10	18.63	-40.19	44.3	294.9	18.6	301.7
284.00	278.54	20.49	-42.90	47.5	295.5	20.0	305.5
287.82	281.81	21.17	-43.87	48.7	295.8	19.9	306.0

COMPANY	ESTALLET COAL	OTHER SERVICES
WELL	2917	9906
FIELD	CASTLE NORTH	
COUNTRY	CANADA	
PROVINCE	BARTEN COLUMBIA	
SECTION	N/A	26550 76.7
TOWNSHIP	N/A	14 723 E. D01
RANGE	N/A	1852.0 31
LICENSE NO.	N/A	
UNIQUE WELL ID		
PERMANENT DATUM	GL	ELEVATION IN N/A
LOG MEASURED FROM	GL	ELEVATION OF N/A
DATE	08/23/08	
DEPTH OHLLER	330.00	
BIT SIZE	13.00	
LOG TOP	2.77	
LOG BOTTOM	28.77	
CASING LOGGER	N/A	
CASING DRILLER	N/A	
CASING TYPE	N/A	
BORING FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	12	
API GR	203	
M LEBDA		

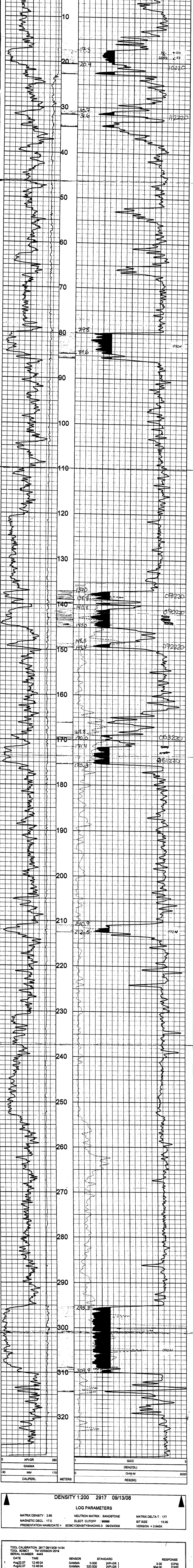
B. White  
Sept. 30, 2008

RESULTS PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

**DENSITY 1:200 2917 09/13/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK



**DENSITY 1:200 2917 09/13/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK

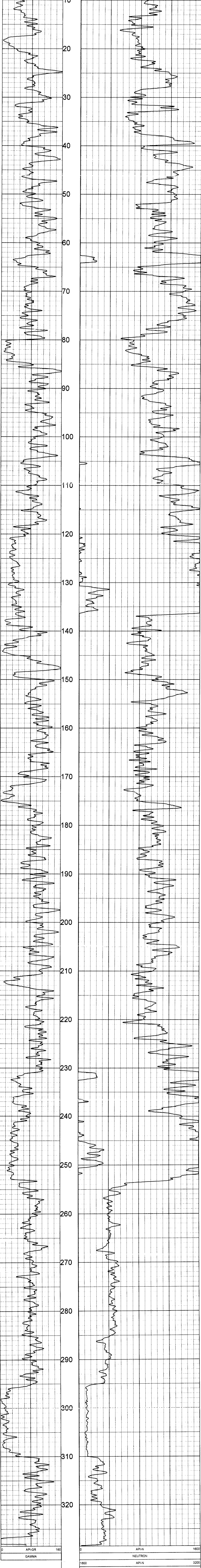
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22.07 12:48:04	GAMMA	0 000 [API-GR]	3.00 [CPS]
1	Aug22.07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
2	May13.06 11:07:48	VOLTAGE	32.000 [MV]	7336.30 [CPS]
2	May13.06 11:07:48	VOLTAGE	252.400 [MV]	36082.80 [CPS]
3	Aug10.08 14:01:28	CALIPER	159.000 [INCH]	283946.00 [CPS]
3	Aug10.08 14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
4	May13.06 15:57:42	DEN(LS)	1.000 [G/CC]	36714.70 [CPS]
4	May13.06 15:57:42	DEN(LS)	2.323 [G/CC]	3658.70 [CPS]
5	May13.06 15:57:55	DEN(SS)	1.000 [G/CC]	73088.50 [CPS]
5	May13.06 15:57:55	DEN(SS)	2.323 [G/CC]	25243.90 [CPS]
6	Aug24.08 13:04:07	CALIPER	100.000 [INCH]	118545.10 [CPS]
6	Aug24.08 13:04:07	CALIPER	157.500 [INCH]	177468.50 [CPS]
7	May13.06 11:08:11	CURRENT	32.000 [UA]	7782.80 [CPS]
7	May13.06 11:08:11	CURRENT	252.400 [UA]	26347.60 [CPS]
8	Aug20.07 16:08:28	F	Default [CPS]	
9	Aug20.07 16:08:28	X	Default [CPS]	

COMPANY	ELK VALLEY COAL	OTHER SERVICES:	
WELL	2917	9065	
FIELD	CASTLE NORTH	9239	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATUM	SL	ELEVATION AB N/A	
LOG MEASURED FROM	GL	ELEVATION OF N/A	
LOG MEASURED FROM	GL	ELEVATION CL N/A	
DATE	09/13/08		
DEPTH DRILLER	330.00		
BIT SIZE	13.00		
LOG TOP	-2.49		
LOG BOTTOM	328.47		
CASING LOGGER	N/A		
CASING DRILLER	24.00		
CASING TYPE	N/A		
BORINGHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WRITTEN BY	SJS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

NEUTRON 1:200 2917 09/13/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9067A.0 08/24/2008		VERSION = 3.64EK



NEUTRON 1:200 2917 09/13/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9067A.0 08/24/2008		VERSION = 3.64EK

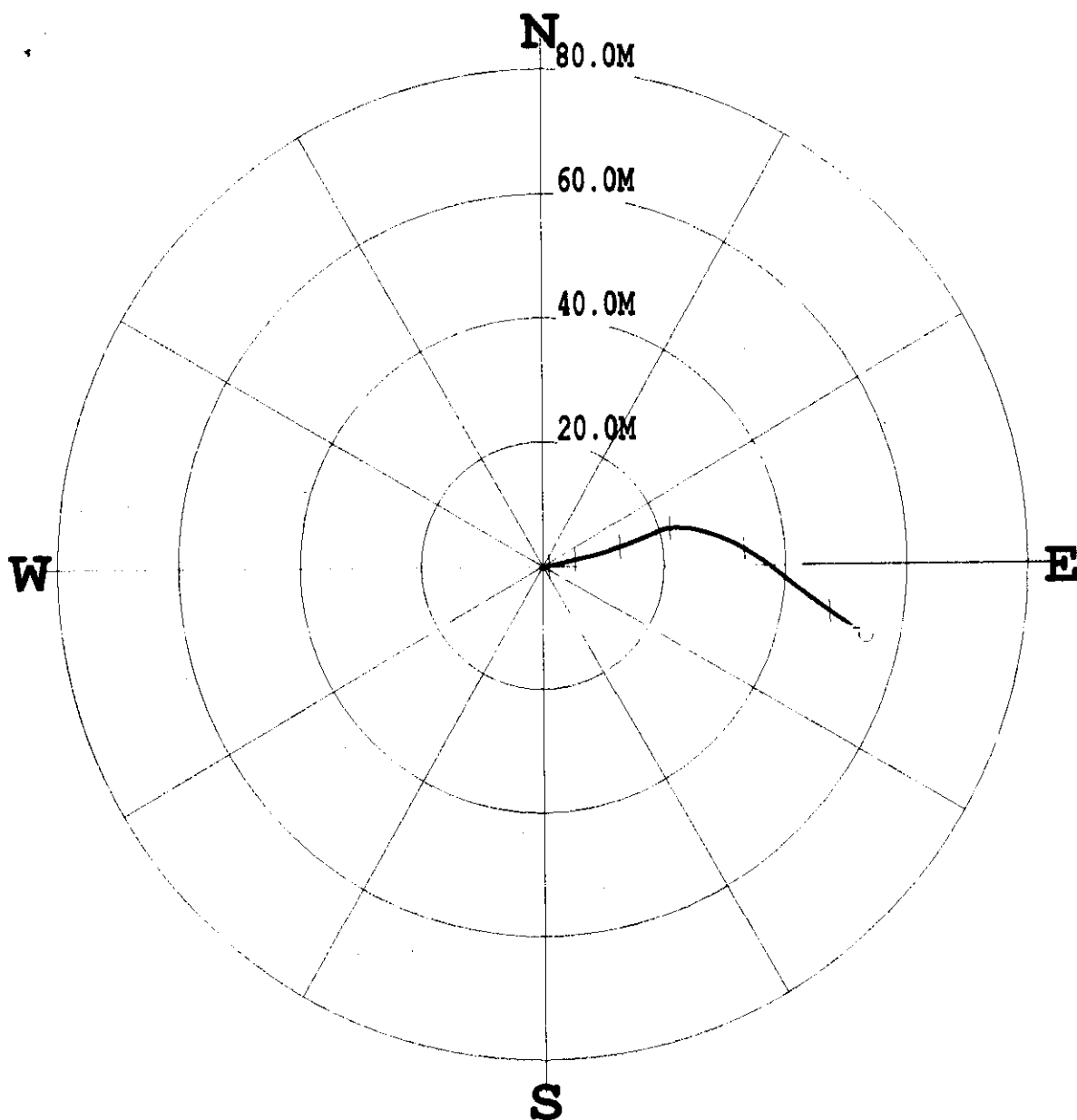
TOOL CALIBRATION 2917 09/13/08 10:06				
TOOL 9067A TM VERSION 1				
SERIAL NUMBER 530				
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20,07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
	Jul20,07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
2	Sep03,08 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03,08 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2917  
 DATE OF LOG: 09/13/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 321.29 M  
 AZIMUTH: 102.2  
 DISTANCE: 54.4 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2917  
 FIELD OFFICE : CENTURY GEO                      DATE OF LOG : 09/13/08  
 DATA FROM : N/A                                      PROBE : 9055A ,                      72  
 MAG. DECL. : 17.000                                      DEPTH UNITS : METERS  
 LOG: 2917\_09-13-08\_13-59\_9055A\_.02\_28.00\_328.81\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
30.00	30.00	0.00	0.02	0.0	85.8	1.4	87.4
40.00	39.99	0.02	0.46	0.5	87.9	2.8	77.1
50.00	49.97	0.10	0.99	1.0	84.0	3.5	89.6
60.00	59.95	0.22	1.65	1.7	82.5	4.0	76.4
70.00	69.93	0.38	2.36	2.4	80.9	4.2	74.4
80.00	79.89	0.56	3.21	3.3	80.2	5.5	77.3
90.00	89.84	0.80	4.17	4.2	79.1	6.2	72.5
100.00	99.77	1.10	5.32	5.4	78.4	7.8	75.0
110.00	109.66	1.38	6.67	6.8	78.3	8.0	76.6
120.00	119.55	1.71	8.09	8.3	78.1	8.5	75.8
130.00	129.44	2.07	9.53	9.8	77.8	8.4	74.4
140.00	139.33	2.50	10.97	11.2	77.2	8.7	71.0
150.00	149.21	3.01	12.44	12.8	76.4	9.3	70.3
160.00	159.07	3.56	13.98	14.4	75.7	9.0	70.2
170.00	168.93	4.14	15.54	16.1	75.1	9.9	69.2
180.00	178.77	4.79	17.21	17.9	74.4	10.6	67.6
190.00	188.62	5.45	18.80	19.6	73.8	10.1	64.5
200.00	198.46	5.92	20.49	21.3	73.9	11.1	80.5
210.00	208.26	5.99	22.47	23.3	75.1	16.0	139.5
220.00	217.99	5.80	24.67	25.3	76.8	14.4	97.8
230.00	227.68	5.21	27.02	27.5	79.1	15.3	108.9
240.00	237.31	4.41	29.40	29.7	81.5	17.1	133.3
250.00	246.84	3.17	32.13	32.3	84.4	18.3	117.2
260.00	256.30	1.54	34.93	35.0	87.5	19.0	122.7
270.00	265.73	-0.24	37.53	37.5	90.4	19.6	127.4
280.00	275.16	-2.31	40.15	40.2	93.3	19.5	128.5
290.00	284.58	-4.36	42.80	43.0	95.8	19.5	123.9
300.00	294.01	-6.34	45.47	45.9	97.9	19.1	125.6
310.00	303.47	-8.22	48.12	48.8	99.7	18.9	124.7
320.00	312.94	-10.01	50.79	51.8	101.1	18.5	122.4
328.82	321.26	-11.51	53.16	54.4	102.2	18.8	119.9

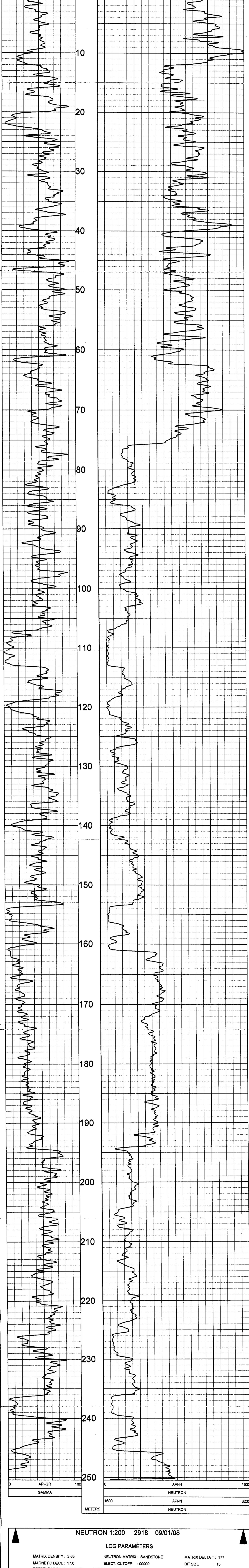


COMPANY	EAT VALLEY COAL	OTHER SERVICES	
WELL	2918	9055	
FIELD	CASTLE NORTH	9238	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	GL	ELEVATION KB N/A	
LOG MEASURED FROM	GL	ELEVATION OF N/A	
DR. MEASURED FROM	GL	ELEVATION GL N/A	
DATE	08/07/08		
DEPTH DRILLER	253.00		
BIT SIZE	13		
LOG TOP	-1.23		
LOG BOTTOM	250.38		
CASING LOGGER	15.75		
CASING DRILLER	3.00		
CASING TYPE	N/A		
BORHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SDS		
RECORDED BY	M. LEBEDA		
REMARKS 1	SRIDGES @ 25.54M ON OPEN HOLE RUN		
REMARKS 2			

NEUTRON 1:200 2918 09/01/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2918 09/01/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

TOOL CALIBRATION 2918 09/01/08 23:48

DATE	TIME	SENSOR	STANDARD	RESPONSE
Jul20,07	01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
Jul20,07	01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
Sep03,06	10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
Sep03,06	10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

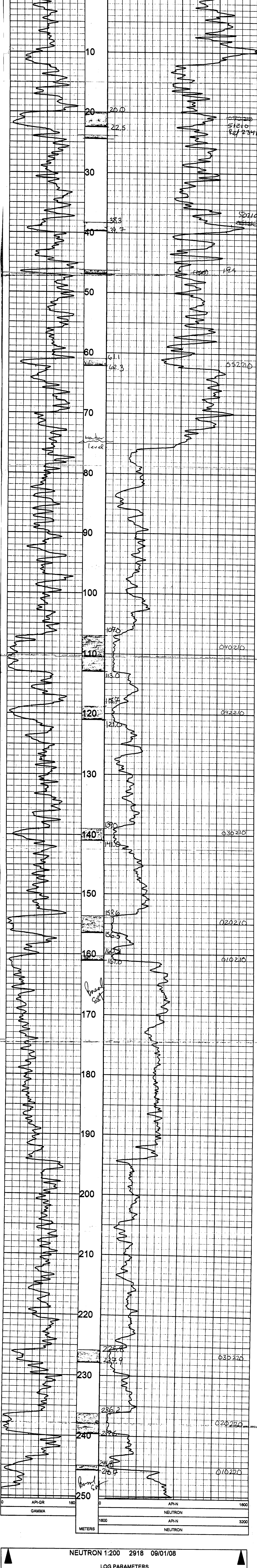
COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	2918	9055	
FIELD	CASTLE NORTH	9228	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH	2.6225, 0.91	
TOWNSHIP	N/A	14 34' 9", 149	
RANGE	N/A	18 55', 256	
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	GL		
LOG MEASURED FROM	GL		
DRL MEASURED FROM	GL		
DATE	09/01/08	ELEVATION DE N/A	
DEPTH DRILLER	253.00	ELEVATION QI N/A	
BIT SIZE	13		
LOG TOP	1.23		
LOG BOTTOM	250.36		
CASING LOGGER	15.75		
CASING DRILLER	3.00		
CASING TYPE	N/A		
BORINGHOLE FLUID	WATER		
RAM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SDS		
RECORDED BY	M. LEBEDA		
REMARKS 1	SRIDGED @ 21.54M ON OPEN HOLE RUN		
REMARKS 2			

*B. L. H. L.*  
*Sept. 30, 2008*

NEUTRON 1:200 2918 09/01/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2918 09/01/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

TOOL CALIBRATION 2918 09/01/08 23:48			
TOOL 9067A TM VERSION 1			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul20,07	GAMMA	1.000 [API-GR]
	Jul20,07	GAMMA	250.000 [API-GR]
2	Sep03,08	NEUTRON	1.000 [API-N]
	Sep03,08	NEUTRON	500.000 [API-N]
			RESPONSE
			1.00 [CPS]
			52.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

**Century**  
WIRELINER SERVICES

**GAMMA - CALIPER**  
COMPENSATED DENSITY  
2920

COMPANY	ESTALLEN COAL
FIELD	COLETT NORTH
COUNTRY	CANADA
PROVINCE	BRITISH COLUMBIA
SECTION	N/A
FORMATION	N/A
WELL NAME	N/A
LICENSE NO.	N/A
UNIQUE WELL ID.	N/A
PERMANENT DATA ID.	ELAYTON 10 N/A
LOG MESSAGE FROM LOG.	ELAYTON 10 N/A
DATE	483.00
DEPTH (METER)	13.00
LOG TOP	13.00
LOG BOTTOM	483.00
LOG LOGGERS	N/A
CHARGE DRYER	N/A
CHARGE TYPE	3.00
SPINDLE TUD	N/A
WIRELINE TUD	N/A
WIRELINE DATE	N/A
WIRELINE WEIGHT	1.0
WIRELINE TYPE	3.0
RECORDED BY	M. BERDA
REMARKS 1	
REMARKS 2	

OTHER SERVICES	
9006	
9007	

Rep: 30, 2008

B. M. S. J.

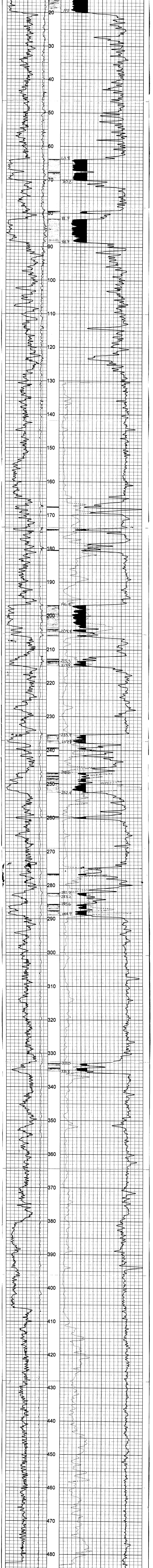
**DENSITY 1:200 2920 09/14/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.65
MAGNETIC DECL: 17.0
PRESENTATION NAME/DATE: # 9239C1DENSITYSHADING.0 08/23/2008

NEUTRON MATRIX: SANDSTONE
ELECT. CUTOFF: 99999

MATRIX DELTA T: 177
BIT SIZE: 13.00
VERSION: # 3.64EK



**DENSITY 1:200 2920 09/14/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.65
MAGNETIC DECL: 17.0
PRESENTATION NAME/DATE: # 9239C1DENSITYSHADING.0 08/23/2008

NEUTRON MATRIX: SANDSTONE
ELECT. CUTOFF: 99999

MATRIX DELTA T: 177
BIT SIZE: 13.00
VERSION: # 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
1	Aug22,07 12:48:04	GAMMA	320.000	7335.30 [CPS]
2	May13,08 11:07:48	VOLTAGE	252.400 [MV]	35062.80 [CPS]
2	May13,08 11:07:48	CALIPER	159.000 [INCH]	263461.00 [CPS]
3	Aug10,08 14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
4	May13,08 15:57:42	DEN(LS)	1.000 [GICC]	39714.70 [CPS]
4	May13,08 15:57:42	DEN(SS)	2.323 [GICC]	3866.70 [CPS]
4	May13,08 15:57:55	DEN(SS)	1.000 [GICC]	73088.60 [CPS]
5	May13,08 15:57:55	DEN(SS)	2.323 [GICC]	25243.90 [CPS]
6	Aug24,08 13:04:07	CALIPER	100.000 [INCH]	118545.10 [CPS]
6	Aug24,08 13:04:07	CALIPER	157.500 [INCH]	177468.50 [CPS]
7	May13,08 11:09:11	CURRENT	32.000 [UA]	7762.80 [CPS]
7	May13,08 11:09:11	CURRENT	252.400 [UA]	26347.60 [CPS]
8	Aug20,07 16:08:26	F	Default	
8	Aug20,07 16:08:26	X	Default	

COMPANY: ELO WALTERSON  
 FIELD: 2920  
 COUNTY: CASTLE NORTH  
 PROVINCE: BRITISH COLUMBIA  
 OTHER SERVICES: 9900  
 9900

SECTION: N/A  
 TOWNSHIP: N/A  
 RANGE: N/A  
 LICENSE NO.: N/A

UNIQUE WELL ID.: N/A  
 PERMANENT DATA: SL  
 LOG MEASURED FROM TO: ELEVATION OF N/A  
 LOG MEASURED FROM TO: ELEVATION OF N/A  
 DATE: 08/10/08  
 DEPTH DRIENER: 483.0

LOG TOP: 13.00  
 LOG BOTTOM: 484.94

CASING DRIENER: 484.94  
 CASING TYPE: N/A  
 CASING ID: N/A  
 CASING WALL THICKNESS: N/A  
 CASING WEIGHT: N/A  
 CASING GRADE: N/A  
 CASING DATE: N/A

WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A  
 WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A

WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A  
 WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A

WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A  
 WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A

WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A  
 WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A

WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A  
 WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
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 WIRELINE TIME: N/A

WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
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 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A

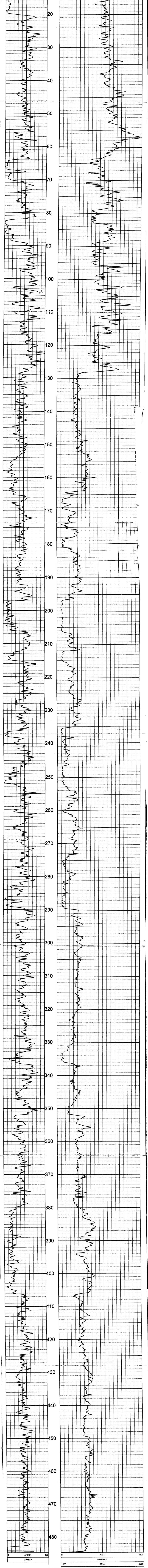
WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A  
 WIRELINE OPERATOR: N/A  
 WIRELINE COMPANY: N/A  
 WIRELINE DATE: N/A  
 WIRELINE TIME: N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

**NEUTRON 1:200 2920 09/10/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.85      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.0      ELECT CUTOFF: 99999      BIT SIZE: 13.00  
 PRESENTATION NAME/DATE: 9087A 0 08/24/2008      VERSION: 3.64EK



**NEUTRON 1:200 2920 09/10/08**

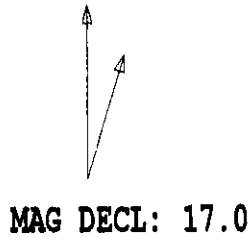
**LOG PARAMETERS**

MATRIX DENSITY: 2.85      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.0      ELECT CUTOFF: 99999      BIT SIZE: 13.00  
 PRESENTATION NAME/DATE: 9087A 0 08/24/2008      VERSION: 3.64EK

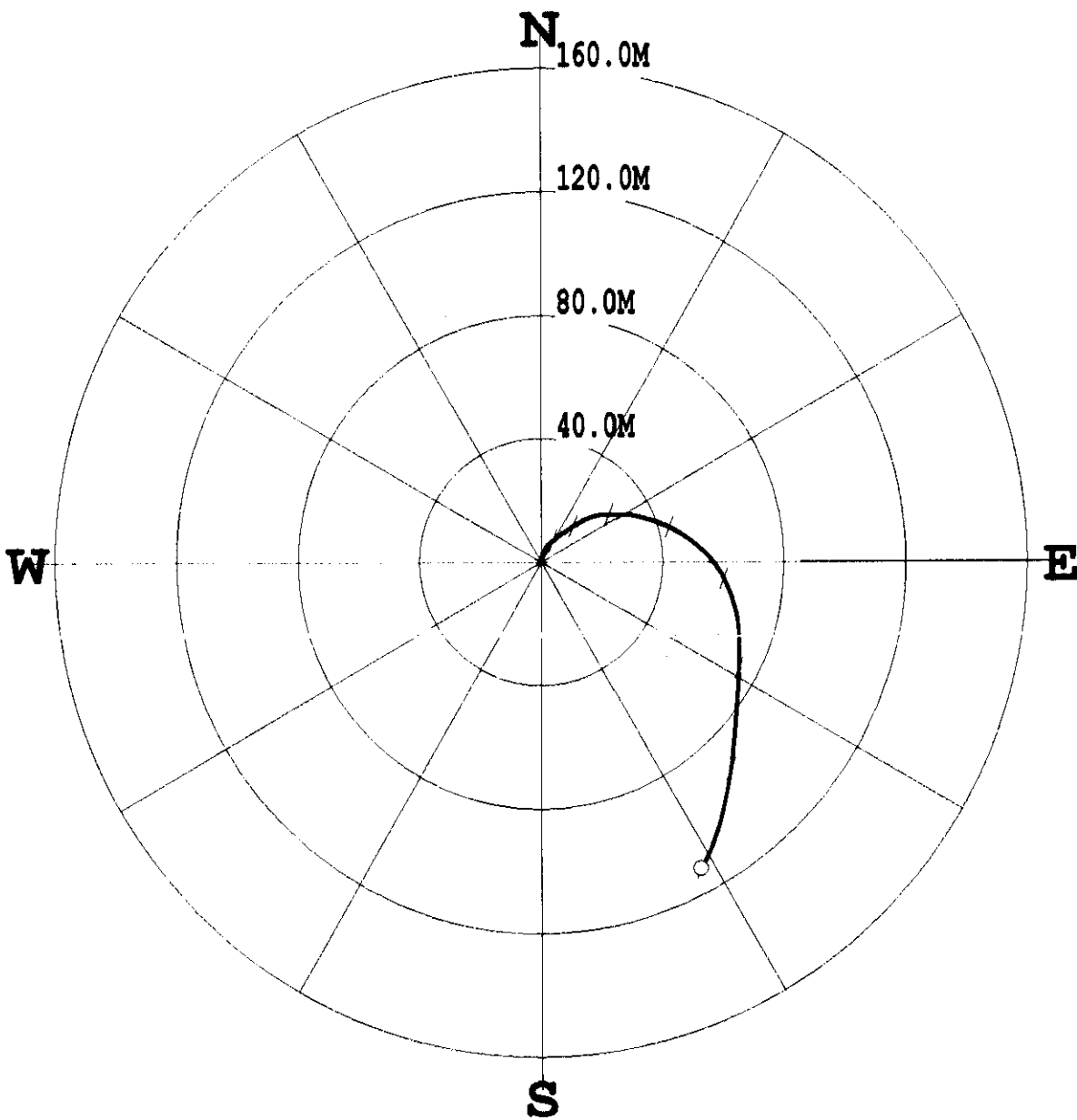
TOOL CALIBRATION 2920 09/10/08 09:12		TOOL 9087A		TM VERSION 1		SERIAL NUMBER 530	
DATE	TIME	SENSOR	STANDARD	API-GR 1	API-GR 1	API-N 1	API-N 1
1	Jul20 07 01:44:30	GAMMA	1.000	[API-GR 1]	1.00	[API-N 1]	1.00
2	Jul20 07 01:44:30	GAMMA	250.000	[API-GR 1]	52.00	[API-N 1]	52.00
2	Sep03 08 10:47:15	NEUTRON	1.000	[API-N 1]	1.00	[API-N 1]	1.00
2	Sep03 08 10:47:15	NEUTRON	500.000	[API-N 1]	500.00	[API-N 1]	500.00

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2920  
 DATE OF LOG: 09/14/08  
 PROBE: 9055A 72



SCALE: 20 M/CM  
 TRUE DEPTH: 442.70 M  
 AZIMUTH: 152.2  
 DISTANCE: 111.9 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2920  
 FIELD OFFICE : CENTURY GEO                      DATE OF LOG : 09/14/08  
 DATA FROM : N/A                                      PROBE : 9055A ,                      72  
 MAG. DECL. : 17.000                                      DEPTH UNITS : METERS  
 LOG: 2920\_09-14-08\_08-58\_9055A\_.02\_7.44\_485.26\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.03	-0.01	0.0	339.9	1.4	341.0
20.00	20.00	0.31	-0.05	0.3	351.2	2.6	13.3
30.00	29.98	0.78	-0.03	0.8	358.0	5.5	10.6
40.00	39.95	1.56	0.04	1.6	1.3	5.0	8.7
50.00	49.91	2.47	0.26	2.5	6.1	6.0	19.6
60.00	59.85	3.46	0.68	3.5	11.2	6.5	26.4
70.00	69.78	4.40	1.24	4.6	15.8	6.5	36.6
80.00	79.72	5.30	1.99	5.7	20.6	6.7	42.9
90.00	89.64	6.13	2.84	6.8	24.8	7.1	47.3
100.00	99.57	6.96	3.77	7.9	28.5	7.6	49.6
110.00	109.47	7.83	4.79	9.2	31.5	8.7	54.1
120.00	119.36	8.69	5.98	10.5	34.5	8.6	54.3
130.00	129.23	9.58	7.28	12.0	37.3	9.3	56.3
140.00	139.09	10.52	8.66	13.6	39.5	9.9	56.5
150.00	148.92	11.50	10.21	15.4	41.6	10.8	57.4
160.00	158.73	12.50	11.87	17.2	43.5	11.4	59.2
170.00	168.49	13.52	13.70	19.2	45.4	7.8	347.7
180.00	178.19	14.55	15.81	21.5	47.4	18.6	64.3
190.00	187.80	15.27	18.38	23.9	50.3	16.7	82.3
200.00	197.34	15.48	21.36	26.4	54.1	18.8	86.9
210.00	206.79	15.58	24.63	29.1	57.7	19.7	88.7
220.00	216.18	15.51	28.06	32.1	61.1	20.4	94.2
230.00	225.51	14.96	31.63	35.0	64.7	22.2	102.7
240.00	234.70	13.90	35.41	38.0	68.6	23.5	107.9
250.00	243.85	12.54	39.21	41.2	72.3	24.0	114.2
260.00	252.95	10.81	42.97	44.3	75.9	24.8	117.7
270.00	261.99	8.66	46.66	47.5	79.5	25.7	122.8
280.00	270.96	6.07	50.25	50.6	83.1	26.4	130.7
290.00	279.92	3.12	53.57	53.7	86.7	26.2	134.4
300.00	288.85	-0.20	56.58	56.6	90.2	27.2	141.7
310.00	297.69	-4.08	59.17	59.3	93.9	28.4	150.8
320.00	306.42	-8.49	61.25	61.8	97.9	30.0	156.8
330.00	315.06	-13.20	63.01	64.4	101.8	30.6	164.0
340.00	323.68	-18.12	64.25	66.8	105.7	30.4	170.8
350.00	332.26	-23.21	64.80	68.8	109.7	31.1	175.2
360.00	340.82	-28.38	64.90	70.8	113.6	31.4	181.6
370.00	349.30	-33.67	64.83	73.0	117.4	32.3	183.4
380.00	357.74	-39.02	64.56	75.4	121.2	32.5	183.4
390.00	366.17	-44.39	64.19	78.0	124.7	32.2	183.2
400.00	374.59	-49.77	63.81	80.9	128.0	32.7	184.7
410.00	382.98	-55.18	63.38	84.0	131.0	33.7	187.2
420.00	391.29	-60.71	62.87	87.4	134.0	34.2	185.4
430.00	399.52	-66.35	62.17	90.9	136.9	35.3	189.2
440.00	407.66	-72.05	61.15	94.5	139.7	35.9	190.2
450.00	415.71	-77.86	60.00	98.3	142.4	37.4	194.0
460.00	423.56	-83.88	58.60	102.3	145.1	38.6	200.0
470.00	431.31	-89.84	56.53	106.1	147.8	40.1	202.1
480.00	438.84	-95.81	54.00	110.0	150.6	42.5	208.5
485.26	442.67	-98.89	52.27	111.9	152.1	43.2	192.1

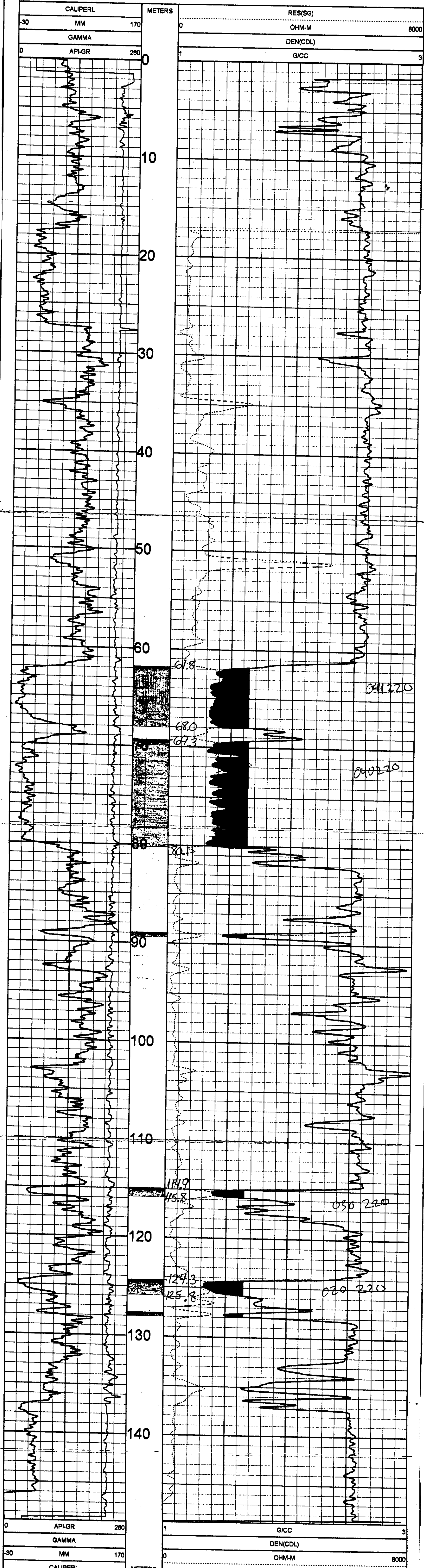
COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	2921	9067	
FIELD	CASTLE NORTH	9055	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH		27698.633
TOWNSHIP	N/A		147108.003
RANGE	N/A		1935.862
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	SEL	ELEVATION NB N/A	
LOG MEASURED FROM GL		ELEVATION DF N/A	
DRL MEASURED FROM GL		ELEVATION GJ N/A	
DATE	28/04/08		
DEPTH DRILLER	150.00		
BIT SIZE	13.00		
LOG TOP	-0.83		
LOG BOTTOM	-148.75		
CASING LOGGER	N/A		
CASING DRILLER	3.00		
CASING TYPE	N/A		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	M. LEMERA		
REMARKS 1			
REMARKS 2			

*B. Smith*  
 Sept 30, 2008

DENSITY 1:200 2921 09/04/08

### LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK



DENSITY 1:200 2921 09/04/08

### LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK

TOOL CALIBRATION 2921 09/04/08 14:01  
 TOOL 9239C1 TM VERSION 2018  
 SERIAL NUMBER 4443

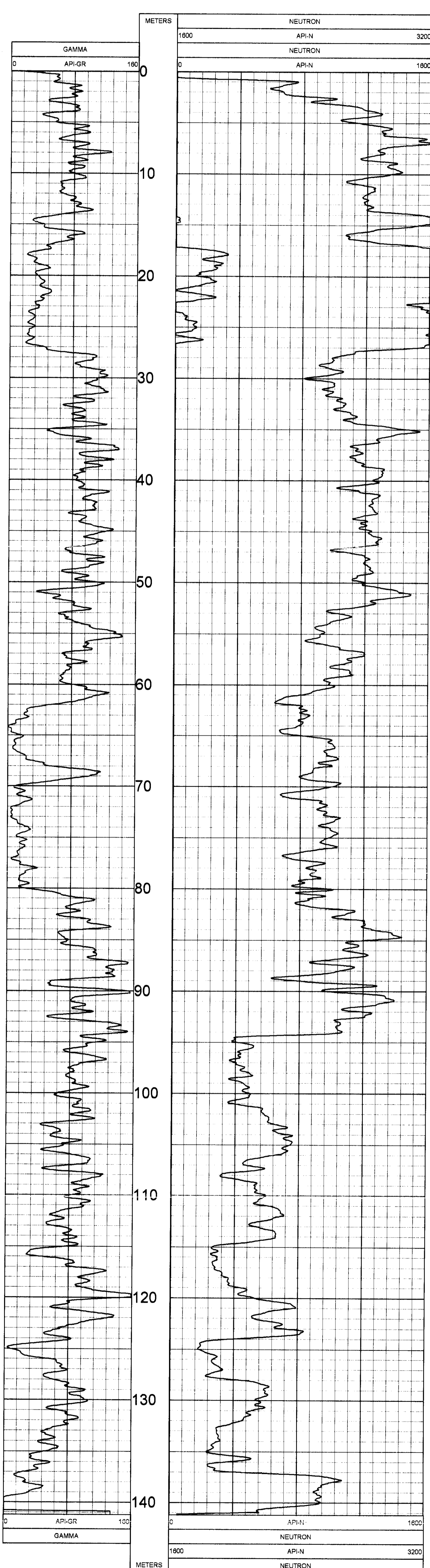
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
1	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
2	May13,08 11:07:46	VOLTAGE	32.000 [MV]	7335.36 [CPS]
3	Aug10,08 14:01:28	CALIPER	252.400 [INCH]	36082.80 [CPS]
3	Aug10,08 14:01:28	CALIPER	159.000 [INCH]	283948.00 [CPS]
4	May13,08 15:57:42	DEN(LS)	343.000 [G/CC]	39714.70 [CPS]
4	May13,08 15:57:42	DEN(LS)	1.000 [G/CC]	420450.00 [CPS]
5	May13,08 15:57:55	DEN(SS)	1.000 [G/CC]	3656.70 [CPS]
5	May13,08 15:57:55	DEN(SS)	2.323 [G/CC]	73088.50 [CPS]
6	Aug24,08 13:04:07	CALIPER	100.000 [INCH]	25243.60 [CPS]
7	Aug24,08 13:04:07	CALIPER	157.500 [INCH]	118545.10 [CPS]
7	May13,08 11:09:11	CURRENT	32.000 [UA]	177488.50 [CPS]
8	May13,08 11:09:11	CURRENT	252.400 [UA]	7762.80 [CPS]
8	Aug20,07 16:08:26	F	252.400 [UA]	26347.60 [CPS]
9	Aug20,07 16:08:26	X	Default [CPS]	

<b>Century</b> WIRELINE SERVICES		SLIM GAMMA-NEUTRON	
2921		2921	
COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	2921	9055	
FIELD	CASTLE NORTH	9239	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATUM	GL	ELEVATION NB	N/A
LOG MEASURED FROM	GL	ELEVATION DF	N/A
ORL MEASURED FROM	GL	ELEVATION GL	N/A
DATE	09/03/08		
DEPTH DRILLER	150.00		
BIT SIZE	13		
LOG TOP	-0.98		
LOG BOTTOM	141.15		
CASING LOGGER	15.75		
CASING DRILLER	3.00		
CASING TYPE	N/A		
BORHOLE FLUID	WATER		
FM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WRITTEN BY	SDS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

NEUTRON 1:200 2921 09/03/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008 VERSION = 3.64EK



NEUTRON 1:200 2921 09/03/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008 VERSION = 3.64EK

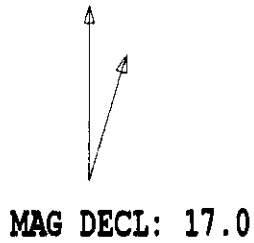
TOOL CALIBRATION 2921 09/03/08 13:20  
TOOL 9067A TM VERSION 1  
SERIAL NUMBER 530

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20,07	01:44:30	GAMMA	1.000 [API-GR]	1.00 [CPS]
	Jul20,07	01:44:30	GAMMA	250.000 [API-GR]	52.00 [CPS]
2	Sep03,08	10:47:15	NEUTRON	1.000 [API-N]	1.00 [CPS]
	Sep03,08	10:47:15	NEUTRON	500.000 [API-N]	500.00 [CPS]

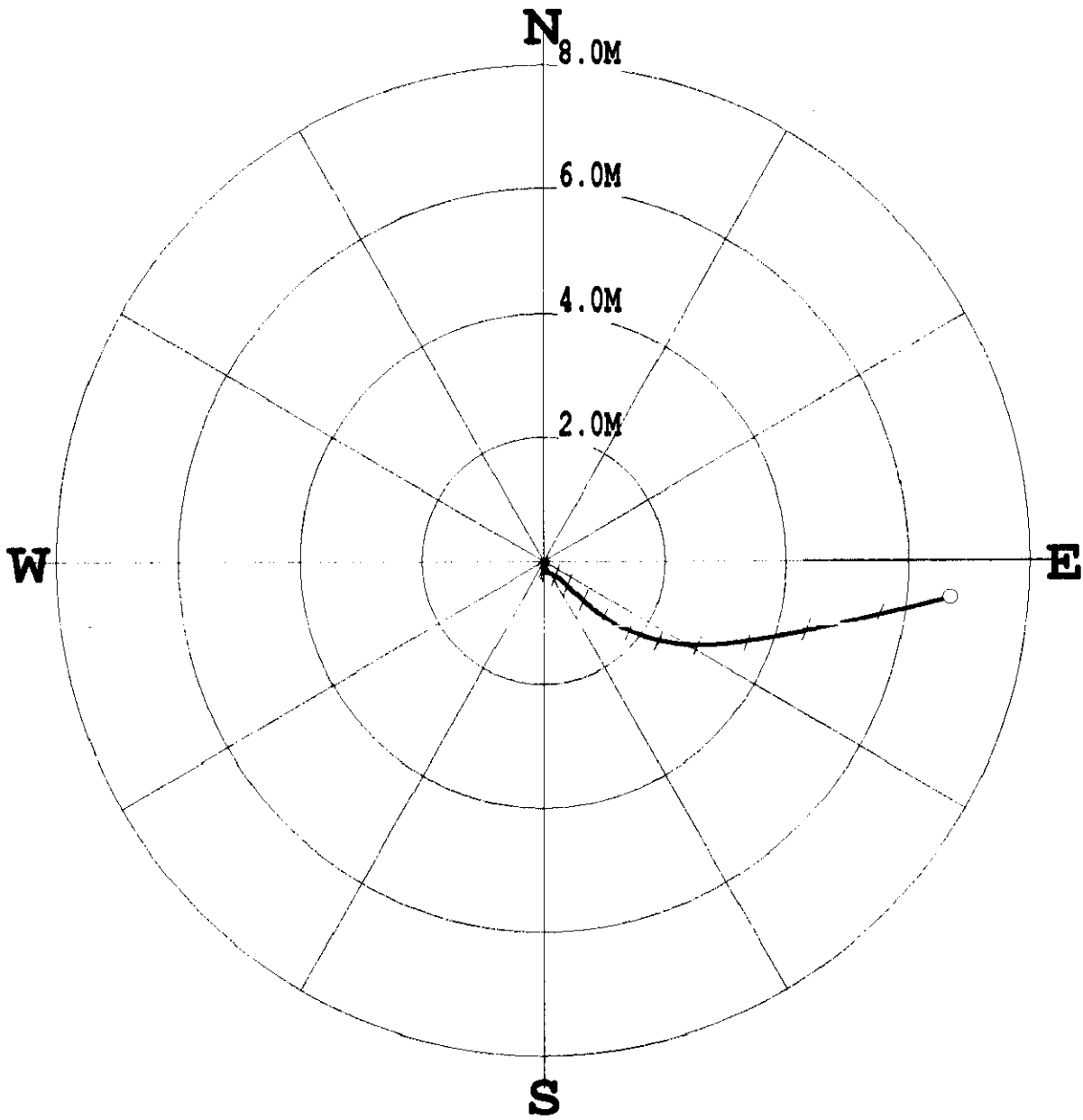
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2921  
 DATE OF LOG: 09/04/08  
 PROBE: 9055A 72



SCALE: 1 M/CM  
 TRUE DEPTH: 148.67 M  
 AZIMUTH: 95.0  
 DISTANCE: 6.7 M  
 + = 10 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2921  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 09/04/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2921\_09-04-08\_13-25\_9055A\_.02\_11.00\_148.97\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
11.02	11.02	-0.00	-0.00	0.0	180.2	0.7	180.2
21.00	21.00	-0.10	-0.01	0.1	183.8	0.2	230.7
31.00	31.00	-0.12	0.01	0.1	173.6	0.2	141.1
41.00	41.00	-0.16	0.04	0.2	165.7	0.6	114.7
51.00	51.00	-0.25	0.21	0.3	139.5	1.3	105.7
61.00	60.99	-0.41	0.42	0.6	134.6	2.2	130.8
71.00	70.99	-0.66	0.67	0.9	134.3	2.1	147.5
81.00	80.98	-0.92	1.02	1.4	132.1	3.0	100.1
91.00	90.96	-1.13	1.45	1.8	128.1	2.7	114.8
101.00	100.95	-1.29	1.94	2.3	123.7	3.4	102.7
111.00	110.93	-1.35	2.60	2.9	117.5	4.5	91.4
121.00	120.89	-1.28	3.42	3.6	110.5	5.0	82.0
131.00	130.84	-1.11	4.40	4.5	104.1	6.3	79.2
141.00	140.77	-0.85	5.61	5.7	98.6	7.3	79.0
148.98	148.63	-0.59	6.67	6.7	95.1	8.6	75.5



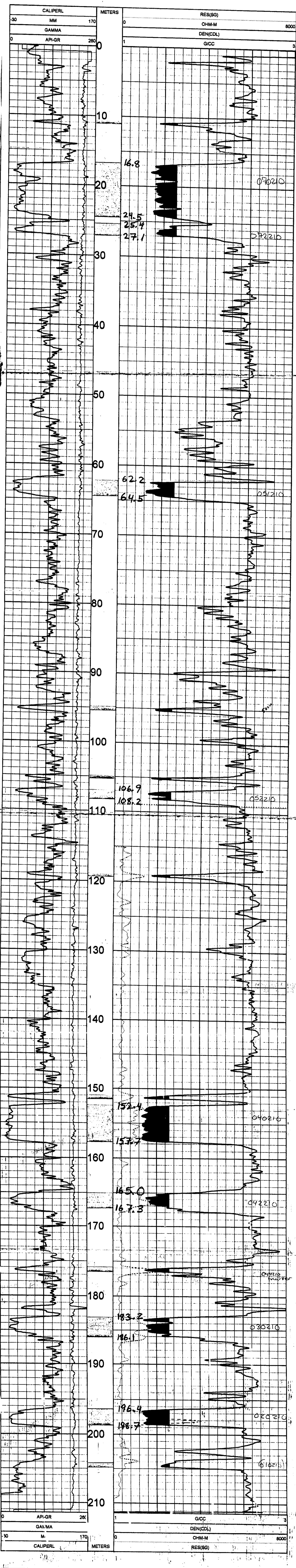
		<b>GAMMA - CALIPER</b> <b>COMPENSATED DENSITY</b> <b>2922</b>	
COMPANY	ELK VALLEY COAL	WELL	2922
FIELD	CASTLE NORTH	COUNTRY	CANADA
PROVINCE	BRITISH COLUMBIA	SECTION	N/A
		RANGE	N/A
		UNIQUE WELL ID.	N/A
		PERMANENT DATUM	GL
		LOG MEASURED FROM GL	ELEVATION 183 N/A
			ELEVATION DR N/A
			ELEVATION GL N/A
DATE	08/31/08	LOG TOP	-1.44
DEPTH DRILLER	213.00	LOG BOTTOM	211.32
BIT SIZE	13.00	CASING LOGGER	15.75
		CASING DRILLER	3.00
		CASING TYPE	N/A
		BOREHOLE FLUID	WATER
		RHT TEMPERATURE	N/A
		MUD RES	N/A
		MUD WEIGHT	1.0
		WITNESSED BY	SOS
		RECORDED BY	M. LEBEDA
REMARKS 1			
REMARKS 2			

*B. M. M. -*  
*Sept. 30, 2008*

DENSITY 1:200 2922 08/31/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2922 08/31/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22,07	12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
Aug22,07	12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
May13,08	11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
May13,08	11:07:48	VOLTAGE	252.400 [MV]	39082.80 [CPS]
Aug10,08	14:01:28	CALIPER	159.000 [INCH]	283948.00 [CPS]
Aug10,08	14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
May13,08	15:57:42	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
May13,08	15:57:42	DEN(LS)	2.323 [G/CC]	3658.70 [CPS]
May13,08	15:57:55	DEN(SS)	1.000 [G/CC]	73085.50 [CPS]
May13,08	15:57:55	DEN(SS)	2.323 [G/CC]	25243.90 [CPS]
Aug24,08	13:04:07	CALIPERL	100.000 [INCH]	118545.10 [CPS]
May13,08	11:09:11	CURRENT	157.500 [UA]	177482.80 [CPS]
May13,08	11:09:11	CURRENT	32.000 [UA]	7782.80 [CPS]
Aug20,07	16:08:28	F	252.400 [CPS]	26347.60 [CPS]
Aug20,07	16:08:28	X	Default [CPS]	

COMPANY: ELK VALLEY COAL  
WELL: 2922  
FIELD: CASTLE NORTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA

SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
LICENCE NO.: N/A

PERMANENT TATUM: SL  
LOG MEASURED FROM: GL  
DATE: 08/20/08

DEPTH DRILLER: 213.00  
BIT SIZE: 13  
LOG TOP: -0.72  
LOG BOTTOM: 2096.92

CASING LOGGER: 15.75  
CASING DRILLER: 3.00

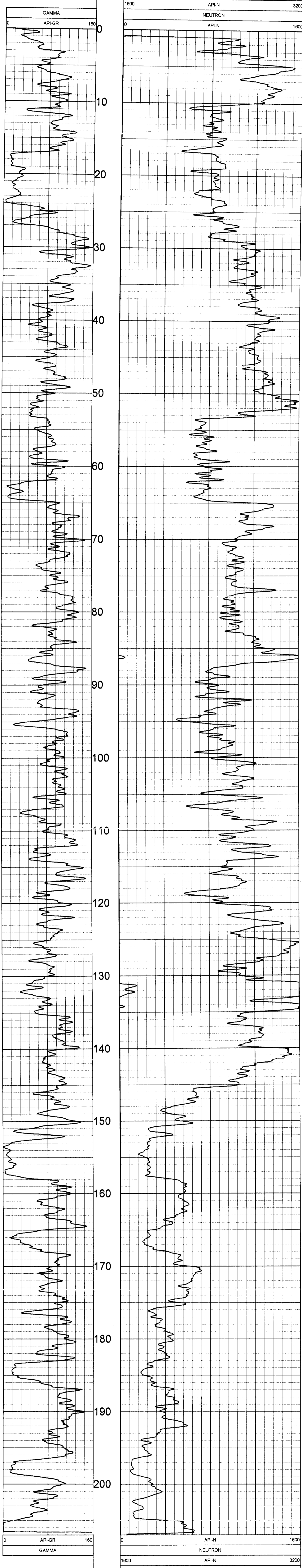
BORHOLE FLUID: WATER  
BHEM TEMP: N/A  
MUD RES: N/A  
MUD WEIGHT: 1.0  
WITNESSED BY: SGS  
RECORDED BY: M. LEBEDA

REMARKS 1:  
REMARKS 2:  
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

NEUTRON 1:200 2922 08/30/08

LOG PARAMETERS

MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0      ELECT. CUTOFF: 99999      BIT SIZE: 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2922 08/30/08

LOG PARAMETERS

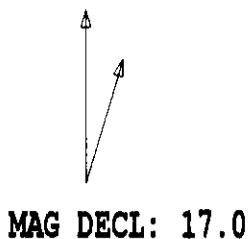
MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0      ELECT. CUTOFF: 99999      BIT SIZE: 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

TOOL CALIBRATION 2922 08/30/08 16:34  
TOOL 9067A TM VERSION 1  
SERIAL NUMBER 530

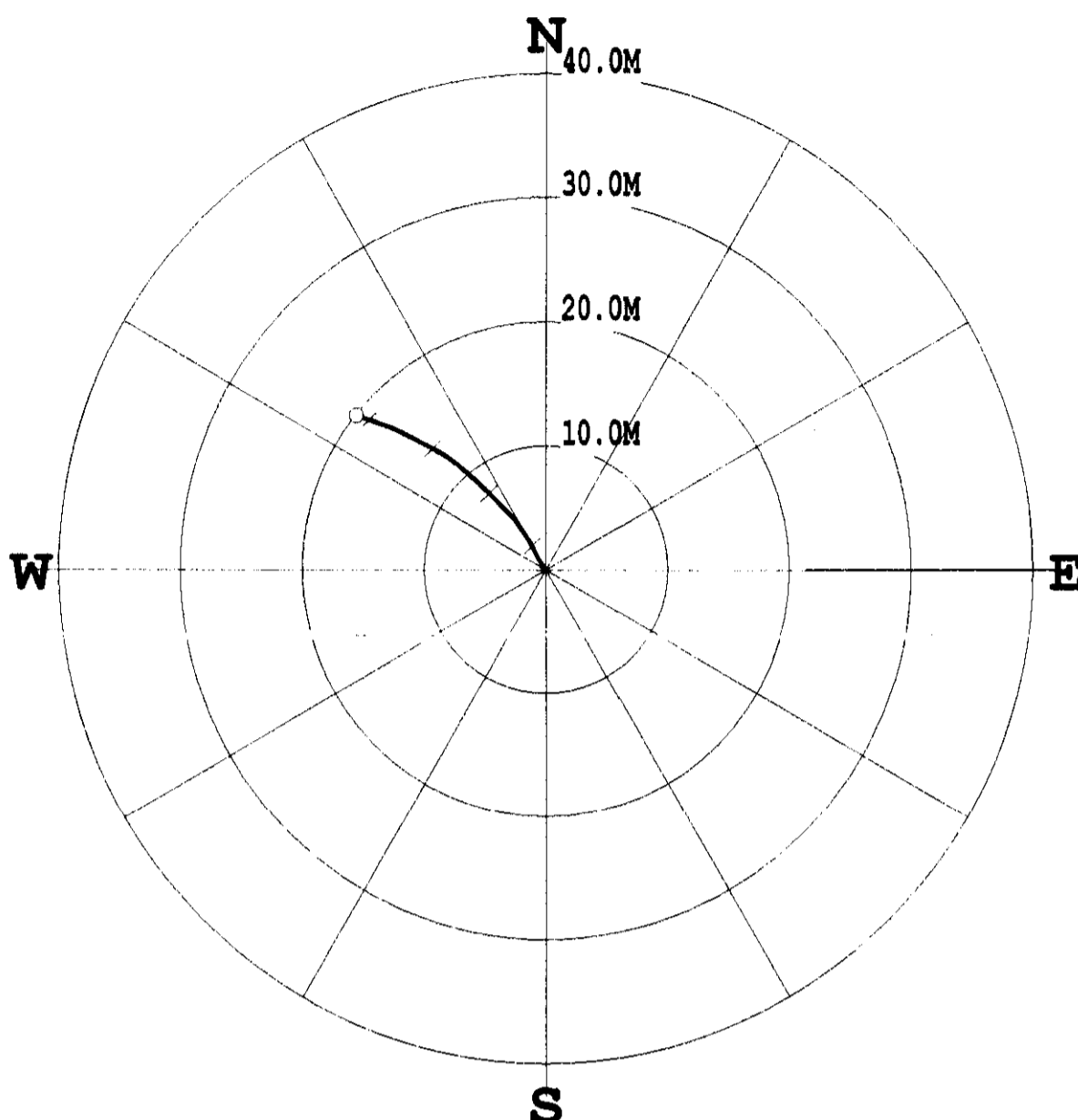
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
2	Jul20.07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2922  
 DATE OF LOG: 08/31/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 210.18 M  
 AZIMUTH: 308.6  
 DISTANCE: 19.9 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL                    HOLE ID. : 2922  
 FIELD OFFICE : CENTURY GEO                DATE OF LOG : 08/31/08  
 DATA FROM : N/A                            PROBE : 9055A ,                    72  
 MAG. DECL. : 17.000                        DEPTH UNITS : METERS  
 LOG: 2922\_08-31-08\_16-39\_9055A\_02\_7.04\_211.30\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.03	-0.01	0.0	332.9	1.3	334.2
20.00	19.99	0.33	-0.20	0.4	329.1	2.1	324.4
30.00	29.98	0.69	-0.45	0.8	327.0	2.8	325.3
40.00	39.97	1.16	-0.74	1.4	327.7	3.4	332.4
50.00	49.93	1.92	-1.12	2.2	329.7	5.9	326.8
60.00	59.87	2.84	-1.70	3.3	329.1	6.5	326.2
70.00	69.81	3.77	-2.34	4.4	328.2	6.9	326.4
80.00	79.75	4.58	-3.03	5.5	326.6	6.2	312.8
90.00	89.69	5.36	-3.80	6.6	324.7	6.5	314.2
100.00	99.62	6.15	-4.61	7.7	323.1	6.4	313.6
110.00	109.55	6.98	-5.48	8.9	321.8	7.1	313.9
120.00	119.47	7.83	-6.44	10.1	320.5	7.4	310.4
130.00	129.39	8.61	-7.39	11.3	319.3	7.2	307.5
140.00	139.33	9.22	-8.28	12.4	318.1	6.2	299.7
150.00	149.27	9.75	-9.21	13.4	316.7	6.4	294.9
160.00	159.21	10.25	-10.19	14.5	315.2	6.1	295.9
170.00	169.15	10.77	-11.22	15.6	313.8	6.4	296.0
180.00	179.08	11.26	-12.23	16.6	312.6	6.9	293.4
190.00	189.01	11.69	-13.33	17.7	311.3	7.1	287.2
200.00	198.95	12.06	-14.41	18.8	309.9	6.3	288.7
210.00	208.89	12.38	-15.42	19.8	308.8	6.1	285.2
211.30	210.14	12.42	-15.54	19.9	308.6	5.8	286.9

**Century**  
WIRELINE SERVICES

**GAMMA - CALIPER  
COMPENSATED DENSITY**  
2924

COMPANY: ELK VALLEY COAL  
WELL: 2924  
FIELD: CASTLE NORTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA  
CASTLE NORTH

OTHER SERVICES:  
8085  
9087  
9087

SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
LICENCE NO.: N/A  
LUNGE WELI ID: N/A

PERMANENT DATUM: SL  
LOG MEASURED FROM: SL  
ELEVATION: N/A  
ELEVATION OF N/A  
ELEVATION TO: N/A

DATE: 09/08/08  
DEPTH DRILLER: 248.00  
LOG TOP: 13.00  
LOG BOTTOM: 248.81  
CASING LOGGER: N/A  
CASING DRILLER: 3.0  
CASING TYPE: N/A  
BORING/LE FLUID: WATER  
RAM TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: 1.0  
WITNESSED BY: SSS  
RECORDED BY: M. TEBEDA  
REMARKS 1:  
REMARKS 2:

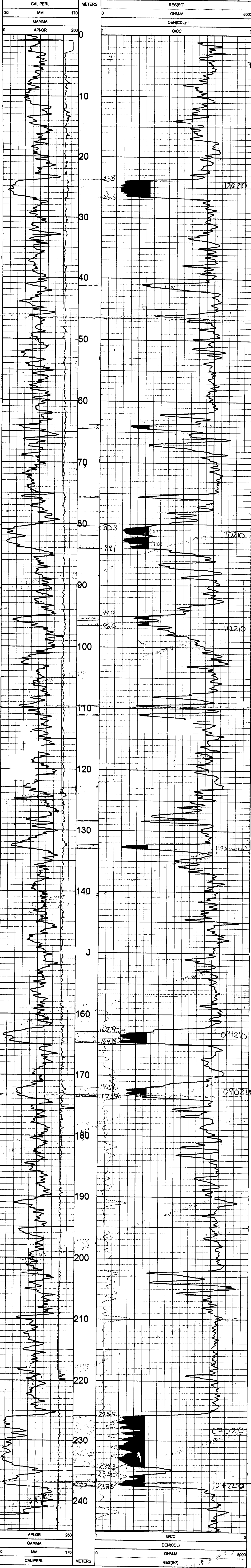
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

*B. White*  
*Sept-30, 2008*

DENSITY 1:200 2924 09/08/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2924 09/08/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

TOOL CALIBRATION 2924 09/08/08 17:41  
TOOL 9239C1 TM VERSION 2019  
SERIAL NUMBER 4443

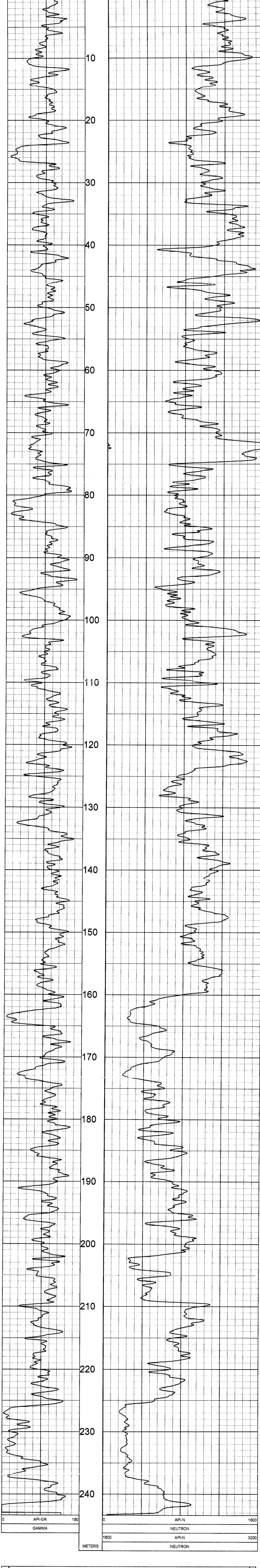
DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	Aug22.07	12:48:04	GAMMA	0.000 [API-GR]	304.00 [CPS]
2	Aug22.07	12:48:04	GAMMA	320.000 [API-GR]	7336.90 [CPS]
3	May13.08	11:07:48	VOLTAGE	32.000 [MV]	386.70 [CPS]
3	May13.08	11:07:48	VOLTAGE	252.400 [MV]	28082.80 [CPS]
3	Aug10.08	14:01:28	CALIPER	159.000 [INCH]	283948.00 [CPS]
4	Aug10.08	14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
5	May13.08	15:57:42	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
5	May13.08	15:57:42	DEN(LS)	2.323 [G/CC]	386.70 [CPS]
5	May13.08	15:57:55	DEN(SS)	1.000 [G/CC]	73088.50 [CPS]
5	May13.08	15:57:55	DEN(SS)	2.323 [G/CC]	25243.90 [CPS]
6	Aug24.08	13:04:07	CALIPERL	100.000 [INCH]	117545.10 [CPS]
7	May13.08	11:09:11	CALIPERL	157.500 [INCH]	177488.50 [CPS]
7	May13.08	11:09:11	CURRENT	32.000 [UA]	7782.80 [CPS]
8	Aug20.07	18:08:28	F	Default [CPS]	28347.80 [CPS]
9	Aug20.07	18:08:28	X	Default [CPS]	

<b>Century</b> WIRELINE SERVICES		SLIM GAMMA-NEUTRON	
COMPANY	EAK VALLEY COAL	WELL	2924
FIELD	CASTLE NORTH	COUNTRY	CANADA
PROVINCE	BRITISH COLUMBIA	OTHER SERVICES:	9289 9855
SECTION	CASTLE NORTH	TOWNSHIP	N/A
RANGE	N/A	LICENCE NO.	N/A
UNIQUE WELL ID.		PERMANENT DATUM	GL
LOG MEASURED FROM GL		ELEVATION OF N/A	
DRIL MEASURED FROM GL		ELEVATION OF N/A	
DATE	09/07/08	DEPTH DRILLER	249 00
BIT SIZE	13.00	LOG TOP	-2.80
LOG BOTTOM	243.32	CASING LOGGER	3.0
CASING DRILLER	N/A	BORING TYPE	N/A
BORING TYPE	N/A	BORING FLUID	WATER
BM TEMPERATURE	N/A	MUD WGT	1.0
MUD WEIGHT	1.0	WITNESSED BY	M. LEBEDA
RECORDED BY		REMARKS 1	
REMARKS 2			

NEUTRON 1:200 2924 09/07/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT CUTOFF : 99999      BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2924 09/07/08

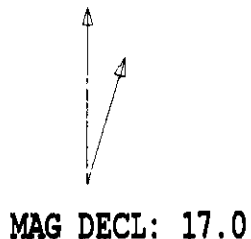
LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT CUTOFF : 99999      BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK

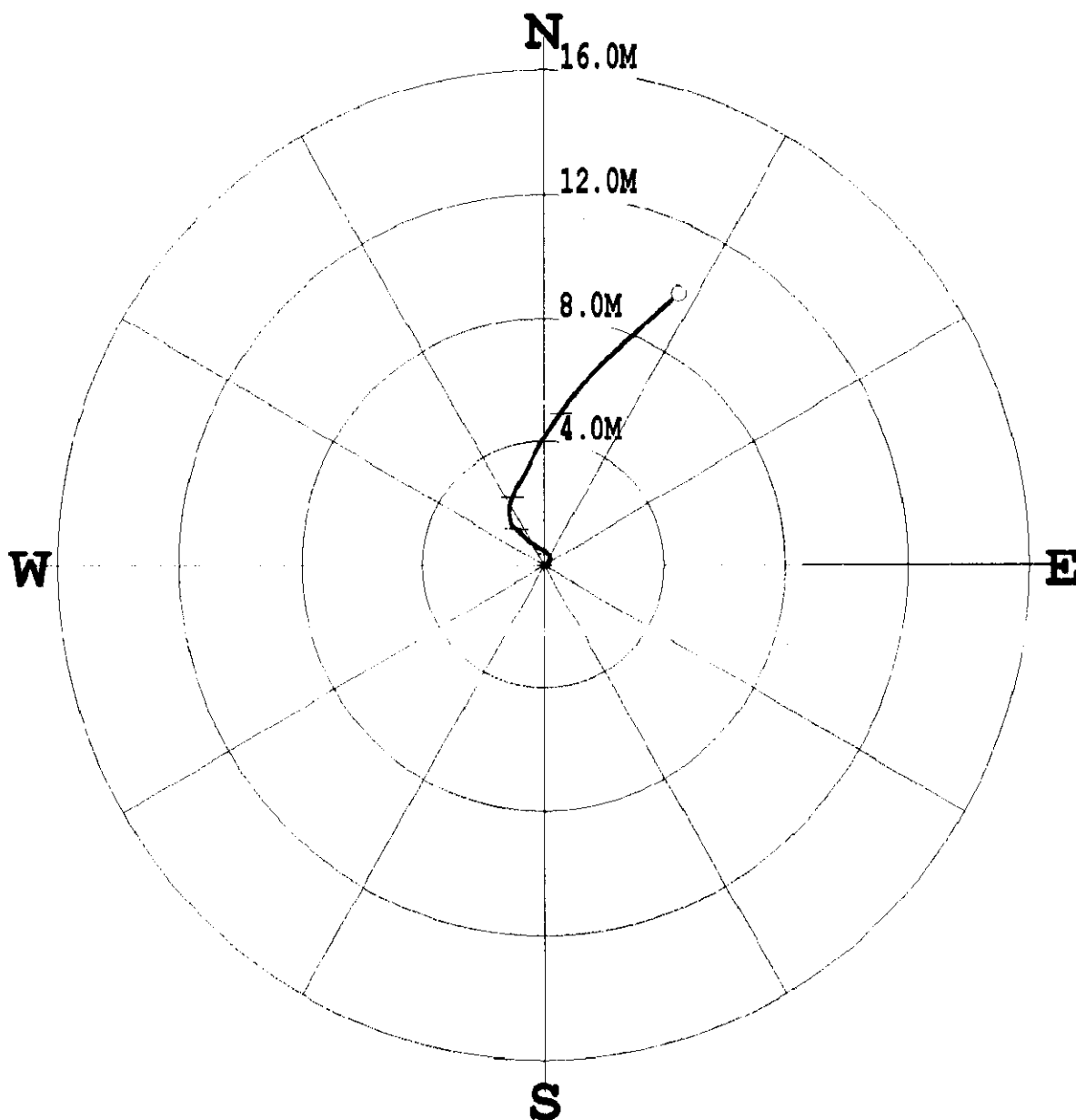
TOOL CALIBRATION 2924 09/07/08 00:01			
TOOL 9087A TM VERSION 1			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul20,07 01:44:30	GAMMA	1.000 [API-GR ]
	Jul20,07 01:44:30	GAMMA	250.000 [API-GR ]
2	Sep03,06 10:47:15	NEUTRON	1.000 [API-N ]
	Sep03,06 10:47:15	NEUTRON	500.000 [API-N ]
			RESPONSE
			1.00 [CPS]
			52.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2924  
 DATE OF LOG: 09/08/08  
 PROBE: 9055A 72



SCALE: 2 M/CM  
 TRUE DEPTH: 244.37 M  
 AZIMUTH: 26.9  
 DISTANCE: 9.9 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2924  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 09/08/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2924\_09-08-08\_16-54\_9055A\_.02\_7.73\_244.89\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	9.99	-0.00	0.00	0.0	163.7	0.2	149.5
20.00	19.99	0.01	0.06	0.1	76.0	1.1	59.8
30.00	29.99	0.08	0.16	0.2	62.5	0.9	39.7
40.00	39.99	0.19	0.20	0.3	46.8	1.2	329.4
50.00	49.99	0.36	0.15	0.4	23.0	1.3	322.3
60.00	59.98	0.53	-0.07	0.5	352.4	2.1	292.8
70.00	69.97	0.71	-0.38	0.8	331.7	1.9	298.2
80.00	79.97	0.88	-0.64	1.1	324.2	1.6	312.7
90.00	89.97	1.08	-0.81	1.3	323.2	1.1	340.4
100.00	99.96	1.18	-0.91	1.5	322.4	0.5	293.1
110.00	109.96	1.27	-1.02	1.6	321.2	0.8	321.8
120.00	119.96	1.40	-1.09	1.8	322.2	1.3	345.5
130.00	129.96	1.61	-1.13	2.0	324.9	1.2	357.1
140.00	139.96	1.87	-1.14	2.2	328.6	1.6	4.7
150.00	149.95	2.19	-1.04	2.4	334.5	1.9	10.4
160.00	159.94	2.59	-0.87	2.7	341.5	2.9	24.4
170.00	169.92	3.06	-0.61	3.1	348.8	3.5	26.1
180.00	179.90	3.64	-0.29	3.7	355.4	4.0	29.3
190.00	189.87	4.27	0.09	4.3	1.2	4.5	33.4
200.00	199.84	4.92	0.53	4.9	6.2	4.6	35.2
210.00	209.80	5.66	1.10	5.8	11.0	6.0	37.2
220.00	219.74	6.48	1.85	6.7	16.0	6.5	45.5
230.00	229.65	7.36	2.83	7.9	21.1	7.8	49.5
240.00	239.54	8.32	3.92	9.2	25.2	8.4	49.0
244.88	244.33	8.79	4.46	9.9	26.9	8.8	47.0



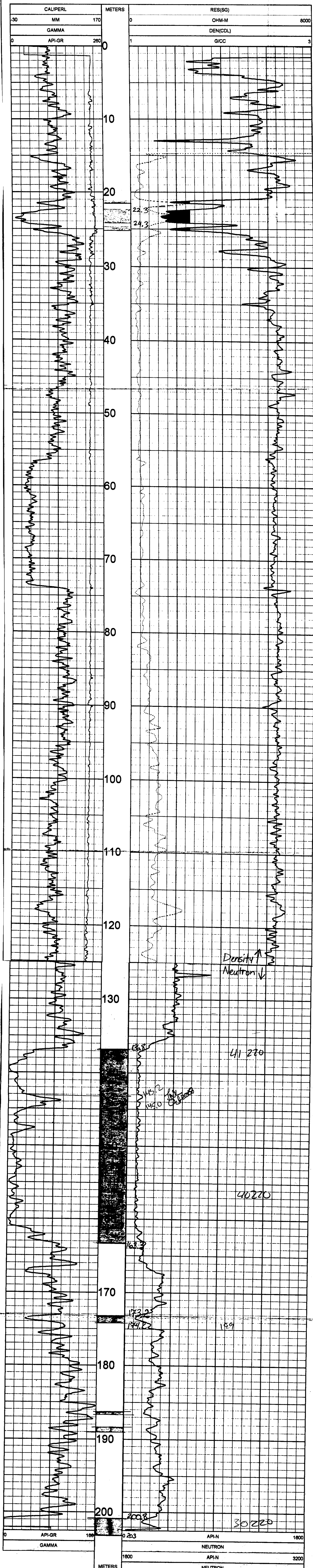
COMPANY	ELK VALLEY COAL	OTHER SERVICES:	
WELL	2925	9065	
FIELD	CASTLE NORTH	9067	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH	27751.828	
TOWNSHIP	N/A	14693.015	
RANGE	N/A	1995.456	
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	GL	ELEVATION NG N/A	
LOG MEASURED FROM	GL	ELEVATION OF N/A	
DRL MEASURED FROM	GL	ELEVATION GL N/A	
DATE	200809		
DEPTH DRILLER	209.00		
BIT SIZE	13.00		
LOG TOP	-0.95		
LOG BOTTOM	130.09		
CASINO LOGGER	N/A		
CASINO DRILLER	8.0		
CASING TYPE	N/A		
BORHOLE FLUID	WATER		
RAM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WINDSSED BY	SOS		
RECORDED BY	M. LEBEDA		
REMARKS 1	BRIDGED @ 130.30M		
REMARKS 2			

*6.7m*  
*Sept 30, 2008*

### DENSITY 1:200 2925 09/06/08

#### LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING 0 08/23/2008      VERSION = 3.64EK



### NEUTRON 1:200 2925 09/05/08

#### LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9087A 0 08/24/2008      VERSION = 3.64EK

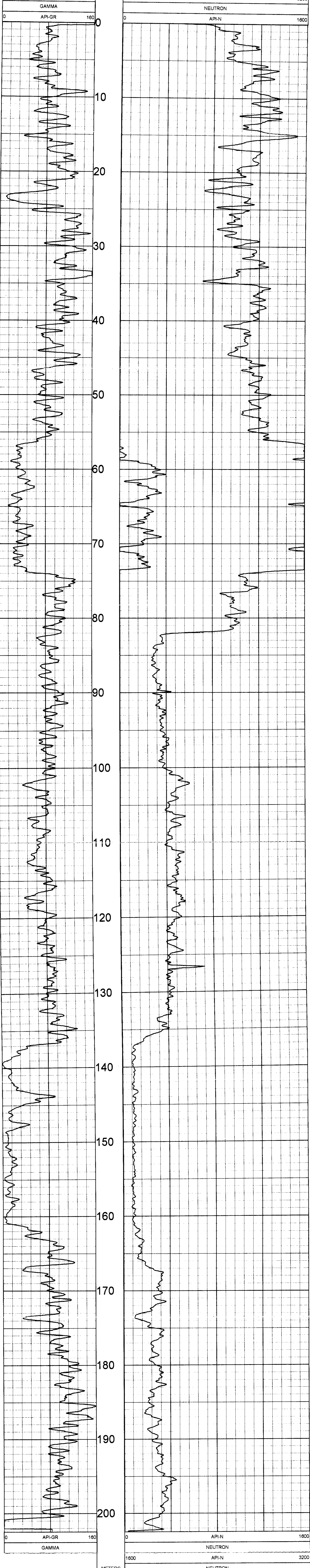
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20,07 01:44:30	GAMMA	1.000 [API-GR]	1.00 [CPS]
1	Jul20,07 01:44:30	GAMMA	250.000 [API-GR]	52.00 [CPS]
2	Sep03,06 10:47:15	NEUTRON	1.000 [API-N]	1.00 [CPS]
2	Sep03,06 10:47:15	NEUTRON	500.000 [API-N]	500.00 [CPS]

<b>Century</b> WIRELINE SERVICES		<b>SLIM GAMMA-NEUTRON</b>	
WELL: 2925		2925	
FIELD: CASTLE NORTH	OTHER SERVICES: 9239		
COUNTRY: CANADA	9955		
PROVINCE: BRITISH COLUMBIA			
SECTION: CASTLE NORTH			
TOWNSHIP: N/A			
RANGE: N/A			
LICENCE NO: N/A			
UNIQUE WELL ID: N/A			
PERMANENT DATUM: GL	ELEVATION NB N/A		
LOG MEASURED FROM: GL	ELEVATION DP N/A		
DATE: 08/24/2008	DRILL MEASURED FROM: GL		
DEPTH DRILLER: 209.00			
BIT SIZE: 13.00			
LOG TOP: -2.21			
LOG BOTTOM: 202.42			
CASING LOGGER: N/A			
CASING DRILLER: 6.0			
CASING TYPE: N/A			
BOREHOLE FLUID: WATER			
FM TEMPERATURE: N/A			
MUD RES: N/A			
MUD WEIGHT: 1.0			
WITNESSED BY: SDS			
RECORDED BY: M. LEBEDA			
REMARKS 1:			
REMARKS 2:			

NEUTRON 1:200 2925 09/05/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL. : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2925 09/05/08

LOG PARAMETERS

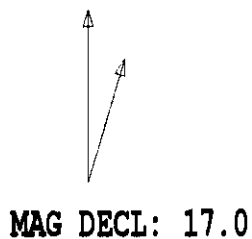
MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL. : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

TOOL CALIBRATION 2925 09/05/08 16:44				
TOOL 9067A TM VERSION 1				
SERIAL NUMBER 530				
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20,07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
	Jul20,07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
2	Sep03,06 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03,06 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

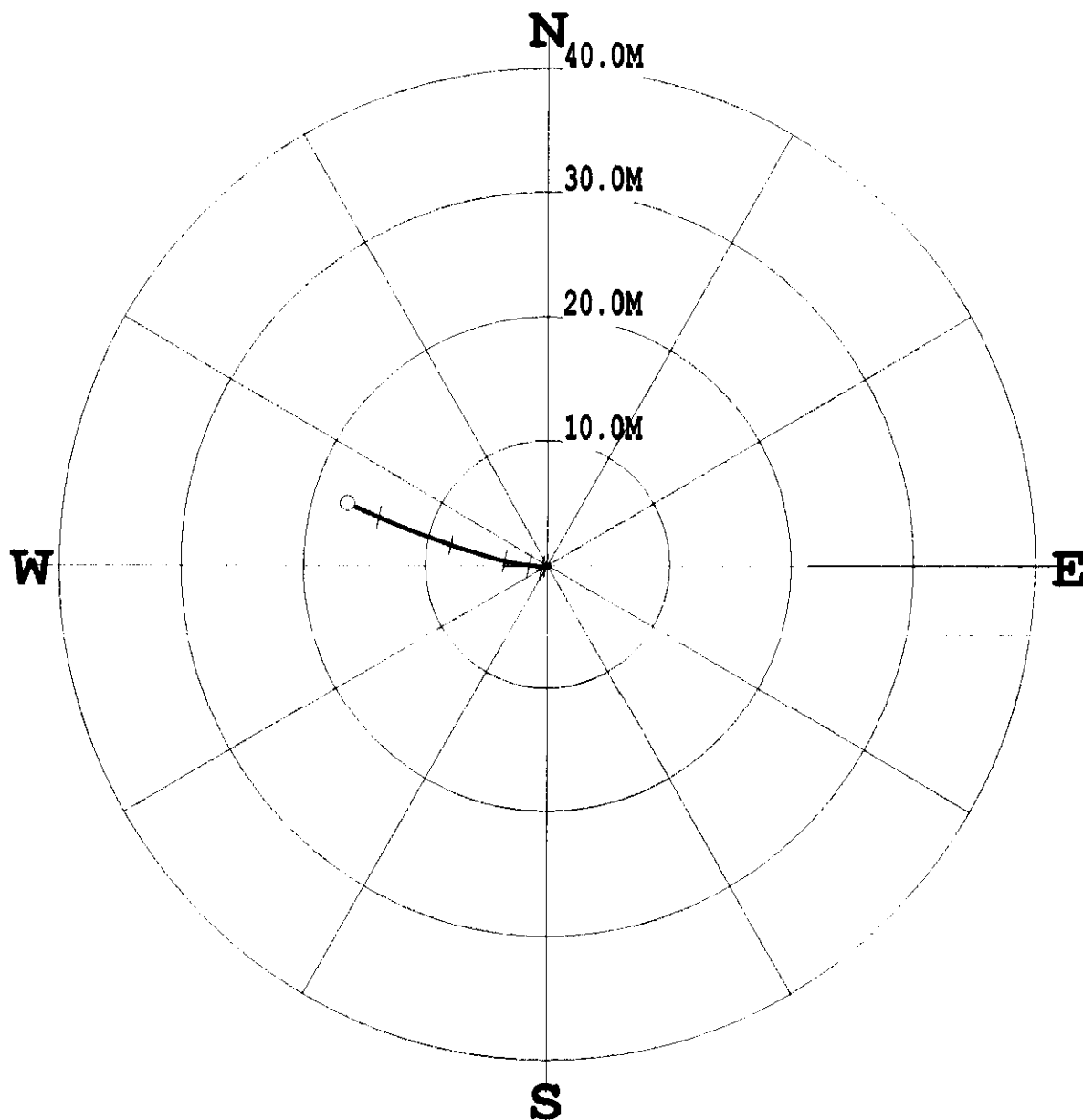


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2925  
 DATE OF LOG: 09/06/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 128.17 M  
 AZIMUTH: 286.8  
 DISTANCE: 17.1 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL HOLE ID. : 2925  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 09/06/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2925\_09-06-08\_16-20\_9055A\_.02\_10.00\_130.29\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	-0.00	-0.00	0.0	253.6	0.3	253.6
20.00	20.00	-0.05	-0.12	0.1	245.7	0.9	244.3
30.00	30.00	-0.10	-0.22	0.2	244.8	1.3	252.0
40.00	40.00	-0.10	-0.42	0.4	256.2	1.5	273.2
50.00	49.99	-0.05	-0.86	0.9	266.6	2.7	270.4
60.00	59.96	0.02	-1.50	1.5	270.9	4.2	275.4
70.00	69.93	0.15	-2.35	2.4	273.5	5.4	279.9
80.00	79.86	0.36	-3.47	3.5	275.9	8.3	277.7
90.00	89.67	0.85	-5.29	5.4	279.2	13.2	287.0
100.00	99.34	1.60	-7.72	7.9	281.7	16.7	290.1
110.00	108.90	2.58	-10.49	10.8	283.8	17.1	287.7
120.00	118.42	3.69	-13.34	13.8	285.4	18.2	291.7
130.00	127.90	4.91	-16.28	17.0	286.8	19.0	291.9
130.28	128.13	4.94	-16.35	17.1	286.8	18.7	291.8

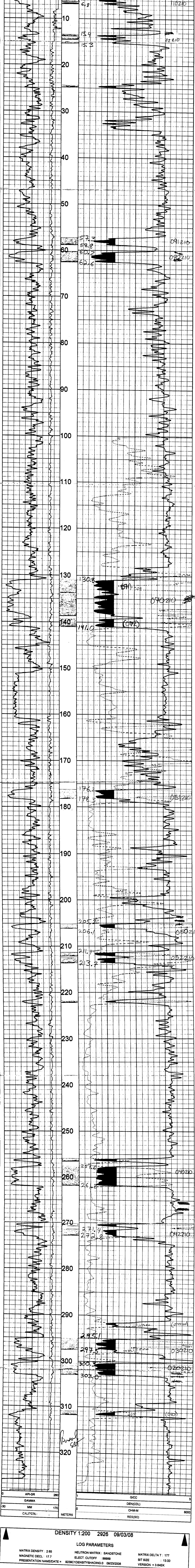
COMPANY	ELK VALLEY COAL	OTHER SERVICES
WELL	2926	8056
FIELD	CASTLE NORTH	8087
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
SECTION	CASTLE NORTH	2 5 S 6 S 8 S 7
TOWNSHIP	N/A	14 6 W 5 T 246
RANGE	N/A	20 9 R 25 3
LICENSE NO.	N/A	
LIQUOR BELLID	N/A	
PERMANENT TATUM	SL	
LOG WEASURED FROM SL		ELEVATION OF VAN
DRL WEASURED FROM SL		ELEVATION OF VAN
DATE	08/23/2008	
DEPTH DRILLER	329.00	
BIT SIZE	13.00	
LOG TOP	0.07	
LOG BOTTOM	283.85	
CASING LOGGER	9	
CASING TYPE	N/A	
CASING TYPER	N/A	
BORING/FLUID	WATER	
FLUID TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WISSESS BY	2926	
RECORDED BY	XI STEEL	
REMARKS 1		
REMARKS 2		

*Richard*  
*Sept 30, 2008*

**DENSITY 1:200 2926 09/03/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.7 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



**DENSITY 1:200 2926 09/03/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.7 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug21.08	18:29:48	GAMMA	Default [CPS]	Default [CPS]
Aug21.08	18:29:48	GAMMA	283.000 [API-GR]	292.00 [CPS]
May21.08	14:25:47	VOLTAGE	28.200 [MV]	6595.00 [CPS]
May21.08	14:25:47	CALIPER	Default [CPS]	34035.00 [CPS]
May21.08	14:15:18	CALIPER	Default [CPS]	Default [CPS]
May21.08	14:15:18	DEN(LS)	1.000 [G/CC]	Default [CPS]
May21.08	14:15:18	DEN(LS)	2.323 [G/CC]	29584.00 [CPS]
May21.08	14:15:18	DEN(SS)	1.000 [G/CC]	2498.00 [CPS]
May21.08	14:28:39	DEN(SS)	2.323 [G/CC]	80534.00 [CPS]
May21.08	14:28:39	CALIPERL	100.000 [MM]	111445.00 [CPS]
May21.08	14:28:39	CALIPERL	200.000 [MM]	217080.00 [CPS]
May21.08	14:28:05	CURRENT	234.400 [UA]	8483.00 [CPS]
May21.08	14:15:18	F	Default [CPS]	23682.00 [CPS]
May21.08	14:15:18	X	Default [CPS]	

COMPANY: ELK VALLEY COAL  
WELL: 2926  
FIELD: CASTLE NORTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA

SECTION: CASTLE NORTH  
TOWNSHIP: N/A  
RANGE: N/A  
LICENSE NO.: N/A  
UNIQUE WELL ID: N/A

PERMANENT CATALOG ID: SL  
LOG MEASURED FROM: SL  
DATE: 08/24/2008

DEPTH DRILLER: 239.00  
BIT SIZE: 13

LOGS TOP: -1.40  
LOGS BOTTOM: 238.86  
CASINO LOGGER: 15.75  
CASINO DRILLER: 9.00

CASINO TYPE: N/A  
ROBTHOLE FLUID: WATER  
ROBTEMPERATURE: N/A

RAID WEIGHT: 1.0  
MAGNETIC DECL.: 17.0  
RECORDED BY: M. LEBEDA

REMARKS 1:  
REMARKS 2:

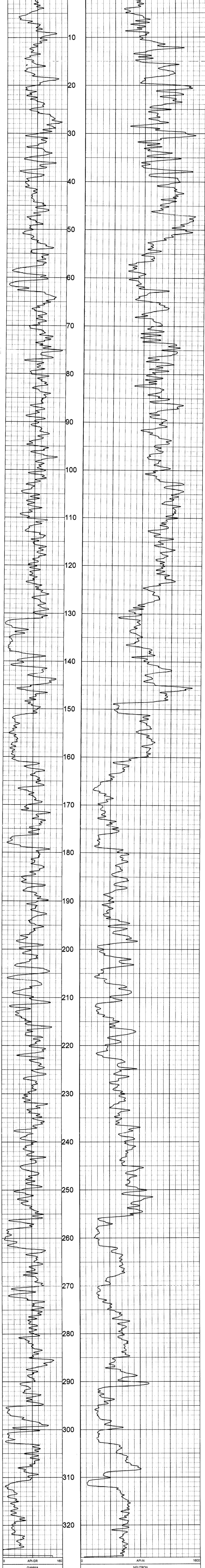
OTHER SERVICES: 9055  
9239

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

NEUTRON 1:200 2926 09/02/08

LOG PARAMETERS

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2926 09/02/08

LOG PARAMETERS

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK

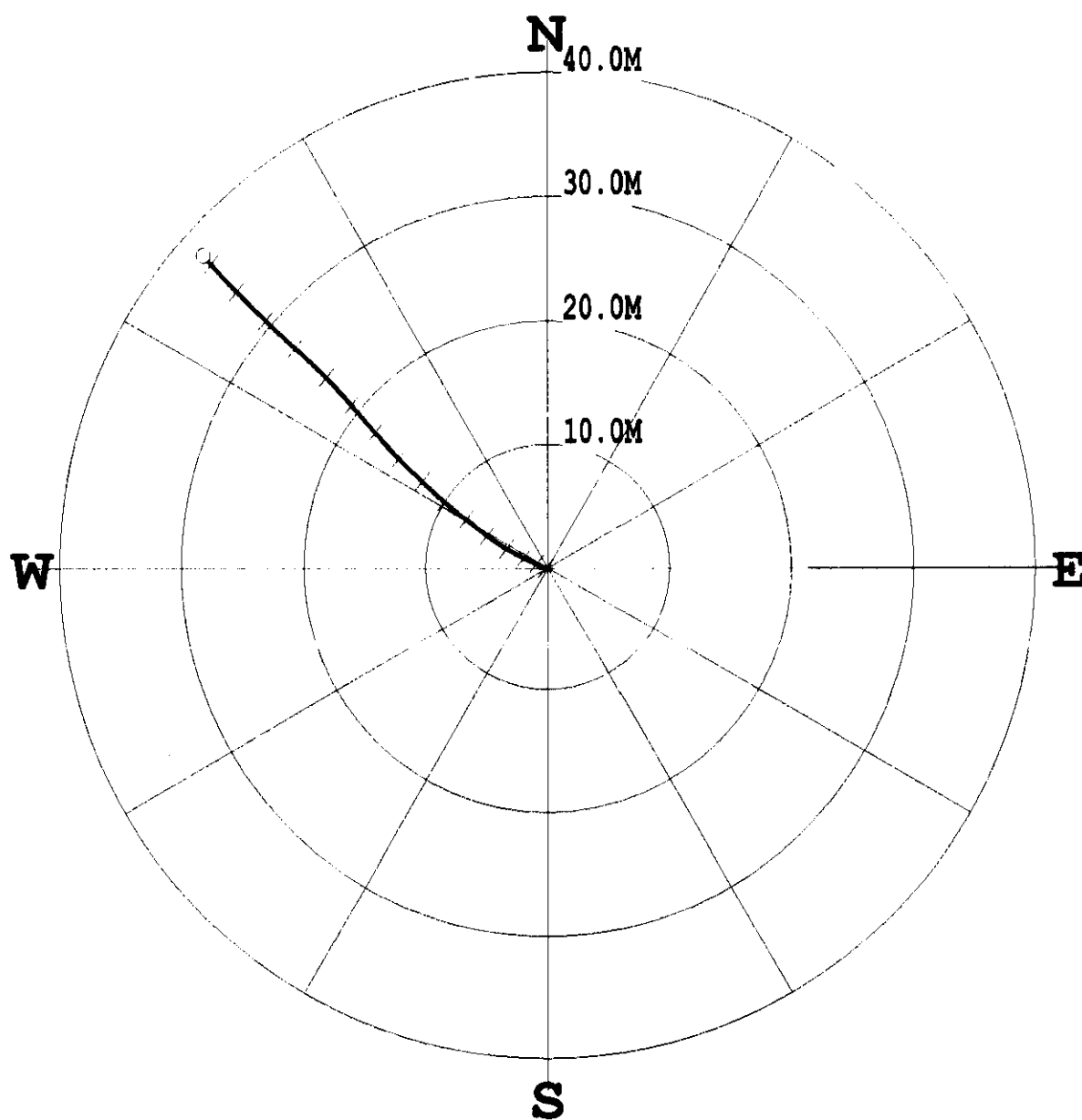
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20.07 01:44:30	GAMMA	1,000 [API-GR ]	1.00 [CPS]
2	Jul20.07 01:44:30	GAMMA	250,000 [API-GR ]	52.00 [CPS]
	Sep03.08 10:47:15	NEUTRON	1,000 [API-N ]	1.00 [CPS]
	Sep03.08 10:47:15	NEUTRON	500,000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: FORDING RIVER  
 HOLE ID: 2926  
 DATE OF LOG: 09/03/08  
 PROBE: 9055A 59



SCALE: 5 M/CM  
 TRUE DEPTH: 326.03 M  
 AZIMUTH: 311.8  
 DISTANCE: 37.8 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2926  
 FIELD OFFICE : PENHOLD DATE OF LOG : 09/03/08  
 DATA FROM : N/A PROBE : 9055A 59  
 MAG. DECL. : 17.700 DEPTH UNITS : METERS  
 LOG: 2926\_09-03-08\_15-54\_9055A\_02\_13.00\_328.59\_DEVI.log

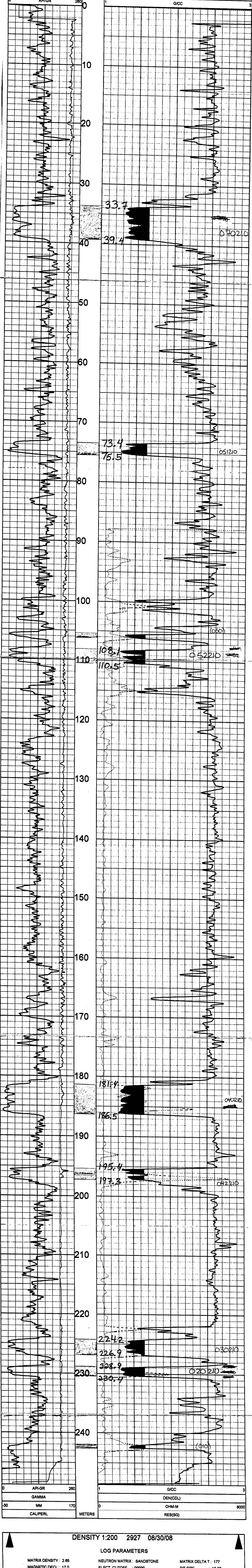
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
13.02	13.02	-0.00	-0.00	0.0	254.9	0.8	254.9
23.00	23.00	0.02	-0.25	0.3	275.4	2.2	290.2
33.00	32.99	0.18	-0.61	0.6	286.4	2.2	303.4
43.00	42.98	0.40	-1.05	1.1	290.7	2.9	295.0
53.00	52.96	0.62	-1.53	1.7	292.2	3.3	296.2
63.00	62.94	0.91	-2.14	2.3	293.0	4.2	296.4
73.00	72.91	1.28	-2.83	3.1	294.3	4.7	298.3
83.00	82.87	1.70	-3.57	4.0	295.5	5.2	301.2
93.00	92.83	2.21	-4.37	4.9	296.8	5.6	303.4
103.00	102.78	2.60	-5.18	5.9	298.4	5.8	307.4
113.00	112.72	3.44	-6.01	6.9	299.8	6.3	308.0
123.00	122.66	4.11	-6.89	8.0	300.8	6.7	305.6
133.00	132.59	4.83	-7.81	9.2	301.8	6.7	311.2
143.00	142.52	5.59	-8.69	10.3	302.7	6.8	311.1
153.00	152.45	6.38	-9.59	11.5	303.7	7.1	313.1
163.00	162.37	7.23	-10.48	12.7	304.6	7.3	312.2
173.00	172.29	8.13	-11.43	14.0	305.4	8.1	311.2
183.00	182.20	9.08	-12.40	15.4	306.2	7.6	315.6
193.00	192.10	10.10	-13.35	16.7	307.1	7.9	316.1
203.00	201.99	11.17	-14.32	18.2	308.0	8.4	317.1
213.00	211.89	12.27	-15.29	19.6	308.8	8.3	318.9
223.00	221.78	13.34	-16.24	21.0	309.4	8.2	318.1
233.00	231.67	14.43	-17.22	22.5	310.0	9.0	317.8
243.00	241.55	15.58	-18.30	24.0	310.4	9.6	316.9
253.00	251.40	16.77	-19.56	25.8	310.6	10.2	313.7
263.00	261.25	17.94	-20.84	27.5	310.7	9.8	312.2
273.00	271.11	19.05	-22.06	29.1	310.8	9.3	313.3
283.00	280.98	20.14	-23.19	30.7	311.0	9.2	313.8
293.00	290.85	21.29	-24.39	32.4	311.1	9.5	313.6
303.00	300.71	22.43	-25.54	34.0	311.3	8.9	315.6
313.00	310.60	23.51	-26.60	35.5	311.5	8.7	315.0
323.00	320.49	24.59	-27.61	37.0	311.7	8.4	316.4
328.60	325.99	25.20	-28.16	37.8	311.8	8.5	317.5

<b>Century</b> WIRELINE SERVICES		GAMMA - CALIPER COMPENSATED DENSITY 2927	
COMPANY	ELK VALLEY COAL	OTHER SERVICES:	
WELL	2927	9005	
FIELD	CASTLE NORTH	9007	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	N/A	2546-462	
TOWNSHIP	N/A	14 65 37-142	
RANGE	N/A	2015, 875	
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	GL	ELEVATION RT N/A	
LOG MEASURED FROM GL		ELEVATION DR N/A	
DATE	08/30/08	DRL MEASURED FROM GL	ELEVATION GL N/A
DEPTH DRILLER	230.00		
BIT SIZE	13.00		
LOG TOP	0.00		
LOG BOTTOM	246.00		
CASING LOGGER	15.75		
CASING DRILLER	3.00		
CASING TYPE	N/A		
BOREHOLE FLUID	WATER		
RAM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SSS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

*Bit Size*  
*Sgt 30, 2008*

DENSITY 1:200 2927 08/30/08

LOG PARAMETERS  
 MATRIX DENSITY : 2.85 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT CUTOFF : 99999 BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2927 08/30/08

LOG PARAMETERS  
 MATRIX DENSITY : 2.85 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT CUTOFF : 99999 BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

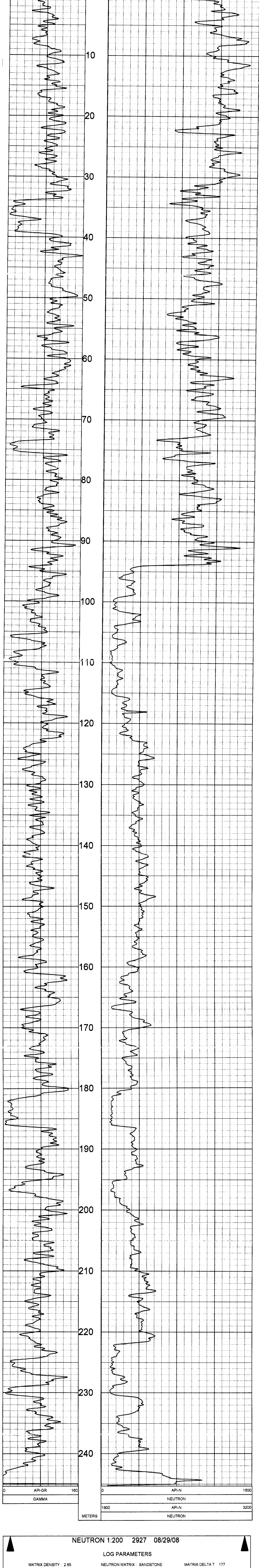
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07	GAMMA	0.000 [API-GR]	3.00 [CPS]
2	Aug22,07	GAMMA	320.000 [API-GR]	304.00 [CPS]
3	May13,08	VOLTAGE	32.000 [MV]	7335.30 [CPS]
4	May13,08	VOLTAGE	252.400 [MV]	36082.80 [CPS]
5	Aug10,08	CALIPER	159.000 [INCH]	283948.00 [CPS]
6	Aug10,08	CALIPER	343.000 [INCH]	420450.00 [CPS]
7	May13,08	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
8	May13,08	DEN(SS)	2.323 [G/CC]	3658.70 [CPS]
9	May13,08	DEN(SS)	1.000 [G/CC]	73088.50 [CPS]
10	May13,08	DEN(SS)	2.323 [G/CC]	25243.90 [CPS]
11	Aug24,08	CALIPERL	100.000 [INCH]	118545.10 [CPS]
12	Aug24,08	CALIPERL	157.500 [INCH]	177468.50 [CPS]
13	May13,08	CURRENT	252.400 [UA]	7782.80 [CPS]
14	Aug20,07	F	Default [CPS]	26347.80 [CPS]
15	Aug20,07	X	Default [CPS]	

<b>Century</b> WIRELINE SERVICES		SLIM GAMMA-NEUTRON	
2927		2927	
COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	2927	9055	
FIELD	CASTLE NORTH	9289	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATUM	GL	ELEVATION FB N/A	
LOG MEASURED FROM	GL	ELEVATION OF N/A	
DRIL MEASURED FROM	GL	ELEVATION GL N/A	
DATE	08/29/08		
DEPTH DRILLER	250.00		
BIT SIZE	13		
LOG TOP	-1.09		
LOG BOTTOM	245.27		
CASING LOGGER	15.75		
CASING DRILLER	3.00		
CASING TYPE	N/A		
BORING FLUID	WATER		
BM TEMPERATURE	N/A		
MUD RES	1.10		
WITNESSED BY	SOS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

NEUTRON 1:200 2927 08/29/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT CUTOFF : 99999 BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008 VERSION = 3.64EK



NEUTRON 1:200 2927 08/29/08

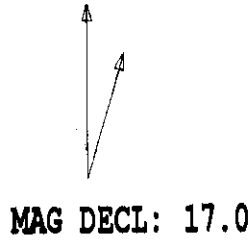
LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT CUTOFF : 99999 BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008 VERSION = 3.64EK

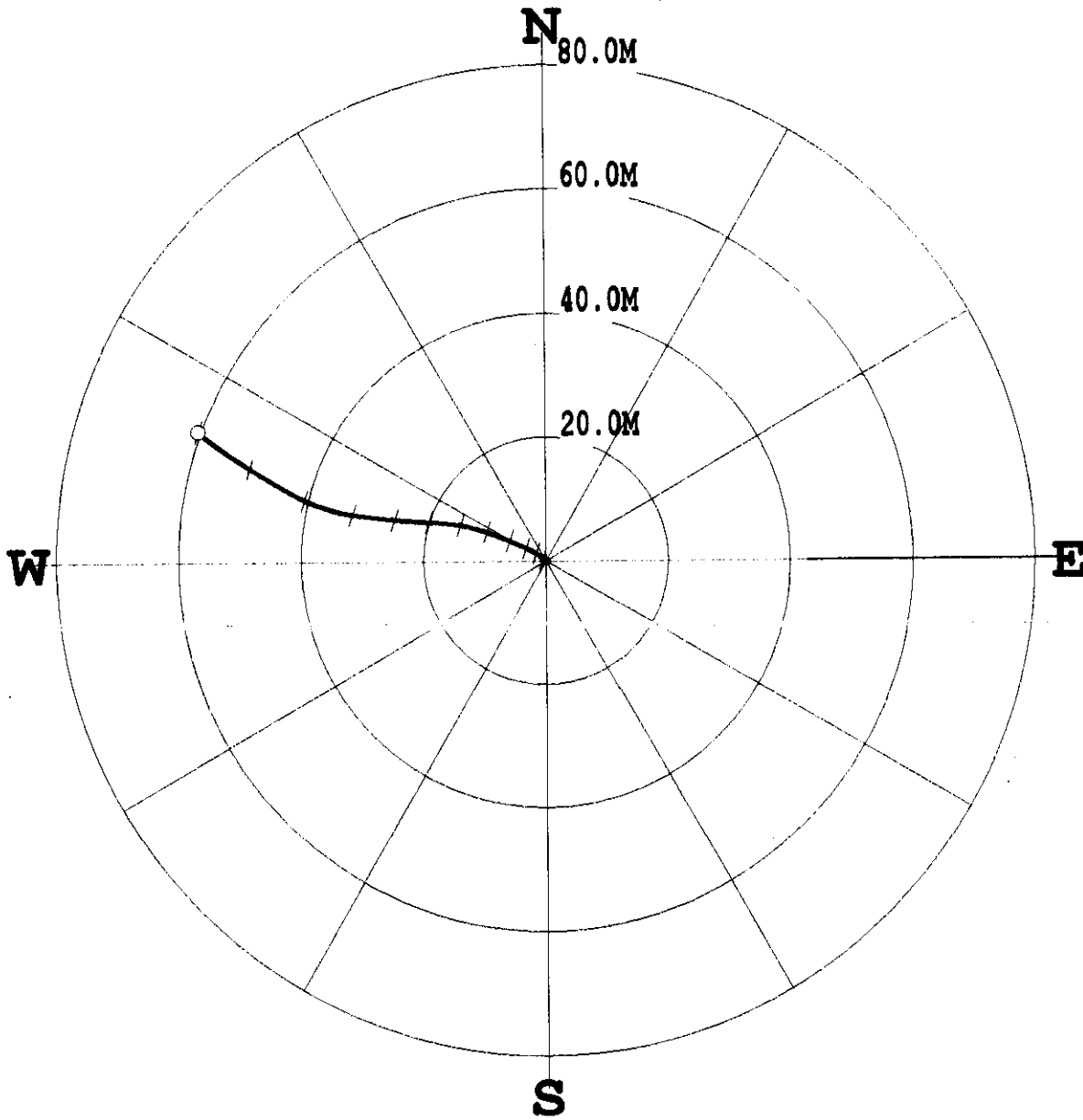
TOOL CALIBRATION 2927 08/29/08 15:39					
TOOL 9067A TM VERSION 1					
SERIAL NUMBER 530					
DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	Jul20.07	GAMMA	1.000	[API-GR ]	1.00 [LFS]
	Jul20.07	GAMMA	250.000	[API-GR ]	52.00 [CPS]
2	Sep03.06	NEUTRON	1.000	[API-N ]	1.00 [CPS]
	Sep03.06	NEUTRON	500.000	[API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2927  
 DATE OF LOG: 08/30/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 237.88 M  
 AZIMUTH: 290.4  
 DISTANCE: 60.4 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL HOLE ID. : 2927  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/30/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2927\_08-30-08\_13-30\_9055A\_.02\_4.09\_248.69\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	9.99	0.07	-0.10	0.1	305.6	2.0	307.2
20.00	19.98	0.36	-0.47	0.6	307.3	3.2	309.1
30.00	29.95	0.77	-0.99	1.3	307.9	4.6	311.8
40.00	39.93	1.22	-1.57	2.0	307.8	4.3	302.7
50.00	49.89	1.68	-2.31	2.9	306.0	6.0	294.7
60.00	59.84	2.11	-3.19	3.8	303.5	5.9	295.1
70.00	69.75	2.59	-4.34	5.1	300.9	8.7	294.1
80.00	79.62	3.24	-5.82	6.7	299.1	10.1	292.1
90.00	89.43	3.97	-7.56	8.5	297.7	11.3	294.1
100.00	99.21	4.66	-9.44	10.5	296.3	12.2	291.6
110.00	108.97	5.30	-11.49	12.7	294.8	12.8	288.6
120.00	118.72	5.82	-13.69	14.9	293.0	13.8	281.8
130.00	128.42	6.11	-15.89	17.0	291.0	14.3	278.6
140.00	138.07	6.34	-18.51	19.6	288.9	15.7	272.5
150.00	147.71	6.50	-21.16	22.1	287.1	15.7	275.2
160.00	157.31	6.72	-23.79	24.7	285.8	17.3	277.0
170.00	166.80	7.06	-26.92	27.8	284.7	19.0	276.6
180.00	176.24	7.46	-30.19	31.1	283.9	19.7	278.4
190.00	185.61	8.07	-33.64	34.6	283.5	21.5	284.7
200.00	194.85	9.21	-37.29	38.4	283.9	23.3	291.7
210.00	203.95	10.93	-41.06	42.5	284.9	25.9	298.5
220.00	212.85	13.21	-45.01	46.9	286.4	28.0	300.3
230.00	221.65	15.67	-49.05	51.5	287.7	28.6	301.2
240.00	230.37	18.37	-53.13	56.2	289.1	29.7	306.0
248.70	237.85	21.00	-56.62	60.4	290.3	31.0	308.2

**Century**  
WIRELINE SERVICES

**GAMMA - CALIPER  
COMPENSATED DENSITY  
2928**

COMPANY	ELK VALLEY COAL	OTHER SERVICES:
WELL	2928	9087 9055
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
SECTION	CASTLE NORTH	
TOWNSHIP	253527A2	
RANGE	14640D157	
LICENCE NO.	1916.570	
UNIQUE WELL ID		
PERMANENT TATUM	SL	ELEVATION IS N/A
LOG MEASURED FROM SL		ELEVATION OF N/A
DRILL MEASURED FROM SL		ELEVATION QI N/A
DATE	08/23/08	
DEPTH DRILLER	138.00	
BIT SIZE	13.00	
LOG TOP	1.00	
LOG BOTTOM	-137.75	
CASING LOGGER	13.75	
CASING DRILLER	9.00	
CASING TYPE	N/A	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	SOS	
RECORDED BY	M. LEMEDA	
REMARKS 1		
REMARKS 2		

*B. Lema*

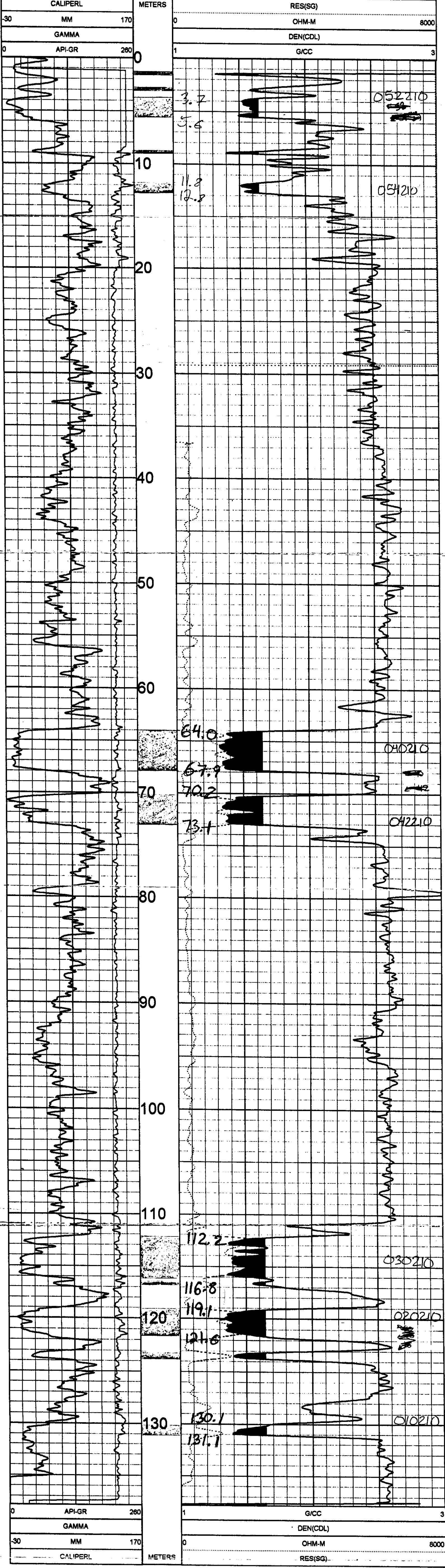
Sept. 30, 2008

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

DENSITY 1:200 2928 09/03/08

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008		VERSION = 3.64EK



DENSITY 1:200 2928 09/03/08

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008		VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
1	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
2	May13,08 11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
2	Aug10,08 14:01:28	VOLTAGE	252.400 [MV]	38082.80 [CPS]
3	Aug10,08 14:01:28	CALIPER	159.000 [INCH]	283946.00 [CPS]
3	May13,08 15:57:42	CALIPER	343.000 [INCH]	39714.70 [CPS]
4	May13,08 15:57:42	DEN(LS)	1.000 [G/CC]	3656.70 [CPS]
4	May13,08 15:57:55	DEN(LS)	2.323 [G/CC]	73088.50 [CPS]
5	May13,08 15:57:55	DEN(SS)	1.000 [G/CC]	25243.90 [CPS]
5	May13,08 15:57:55	DEN(SS)	2.323 [G/CC]	177468.50 [CPS]
6	Aug24,08 13:04:07	CALIPER	100.000 [INCH]	118545.10 [CPS]
6	Aug24,08 13:04:07	CALIPER	157.500 [INCH]	177468.50 [CPS]
7	May13,08 11:08:11	CURRENT	32.000 [UA]	7762.80 [CPS]
7	May13,08 11:08:11	CURRENT	252.400 [UA]	28347.60 [CPS]
8	Aug20,07 16:08:26	F	Default [CPS]	
9	Aug20,07 16:08:26	X	Default [CPS]	

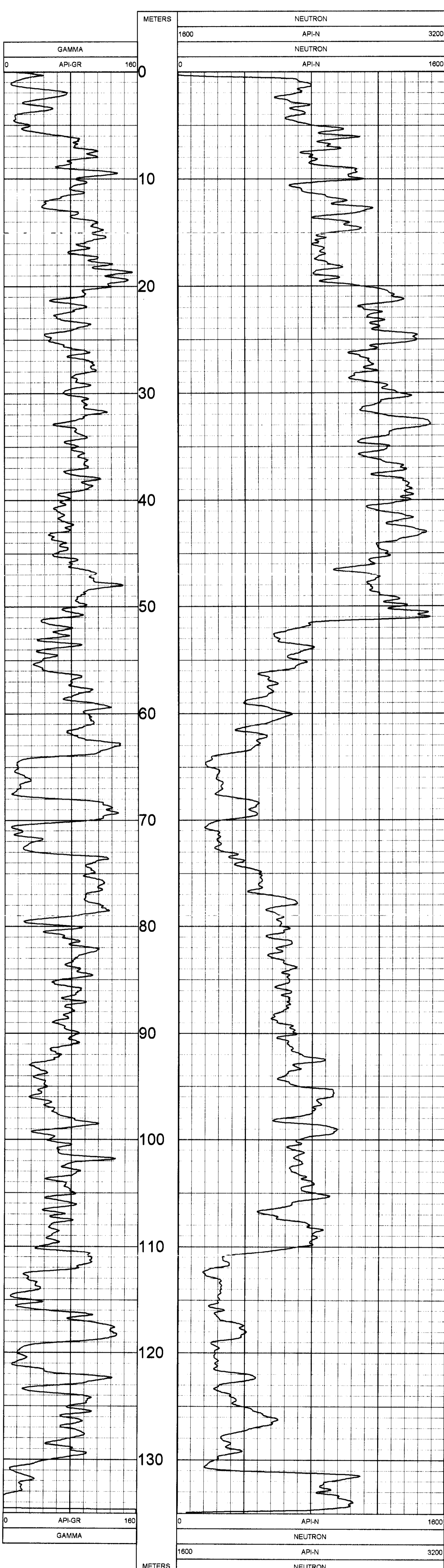


<b>Century</b> WIRELINE SERVICES		<b>SLIM GAMMA-NEUTRON</b> 2928	
COMPANY	ELK VALLEY COAL	OTHER SERVICES:	
WELL	2928	9055	
FIELD	CASTLE NORTH	9239	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	GL	ELEVATION KB	N/A
LOG MEASURED FROM	GL	ELEVATION DR	N/A
DRL MEASURED FROM	GL	ELEVATION QL	N/A
DATE	09/02/08		
DEPTH DRILLER	139.00		
BIT SIZE	13		
LOG TOP	-1.25		
LOG BOTTOM	134.84		
CASING LOGGER	15.75		
CASING DRILLER	9.00		
CASING TYPE	N/A		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SBS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

NEUTRON 1:200 2928 09/02/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2928 09/02/08

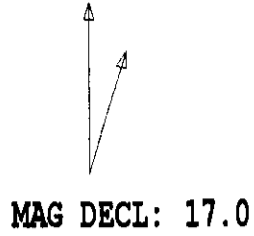
LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

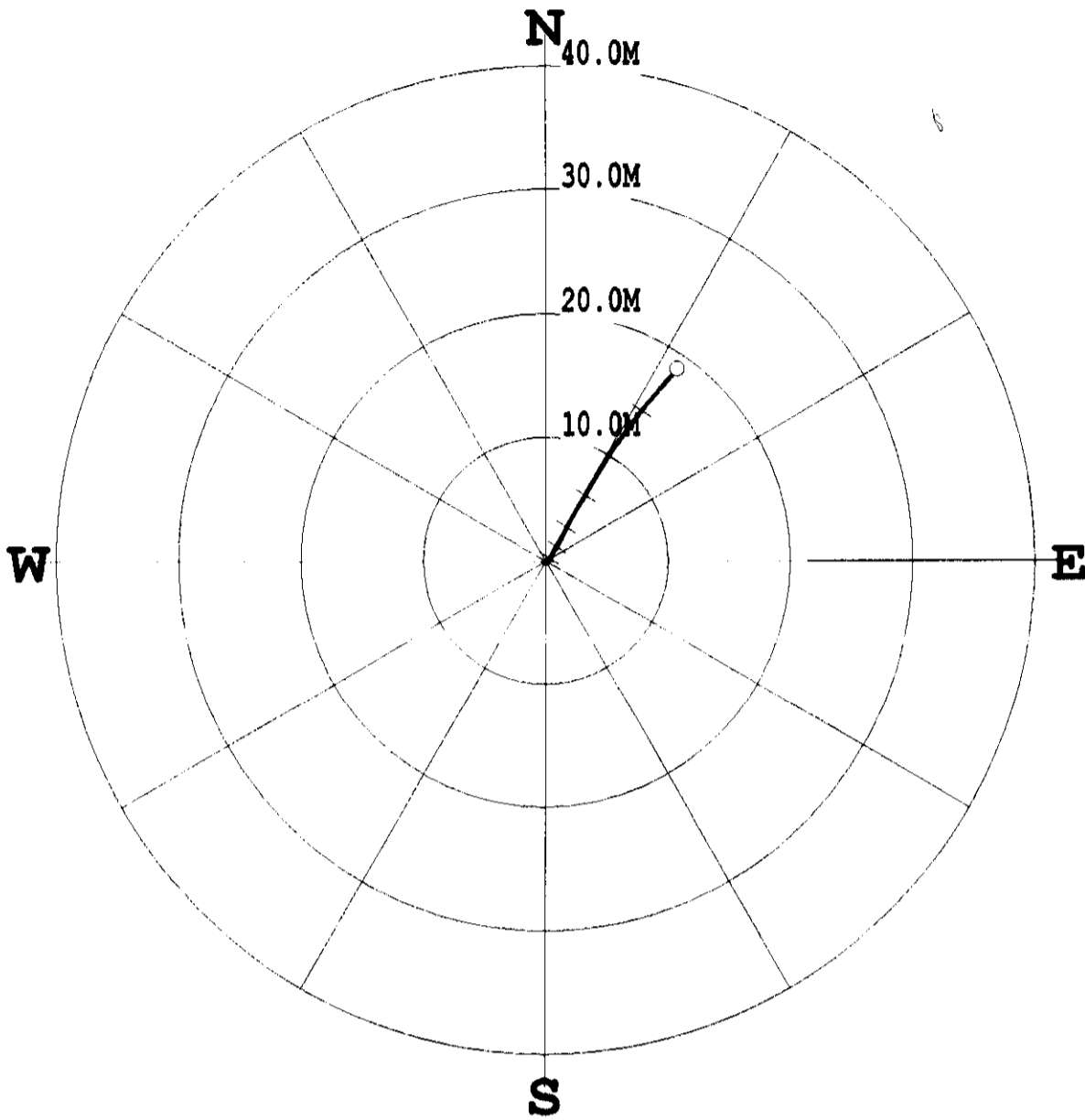
TOOL CALIBRATION 2928 09/02/08 19:42					
TOOL 9067A TM VERSION 1					
SERIAL NUMBER 530					
	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20,07	01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
	Jul20,07	01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
2	Sep03,06	10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03,06	10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2928  
 DATE OF LOG: 09/03/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 135.86 M  
 AZIMUTH: 34.6  
 DISTANCE: 18.8 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2928  
 FIELD OFFICE : CENTURY GEO                    DATE OF LOG : 09/03/08  
 DATA FROM : N/A                                PROBE : 9055A                      72  
 MAG. DECL. : 17.000                            DEPTH UNITS : METERS  
 LOG: 2928\_09-03-08\_16-50\_9055A\_02\_12.00\_137.67\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
12.00	12.00	0.00	0.00	0.0	45.9	2.6	45.9
22.00	21.99	0.34	0.32	0.5	43.0	2.6	43.1
32.00	31.97	0.76	0.63	1.0	39.7	3.3	36.4
42.00	41.96	1.27	0.97	1.6	37.4	3.8	30.4
52.00	51.92	1.95	1.35	2.4	34.7	5.7	27.9
62.00	61.86	2.94	1.83	3.5	31.8	7.4	24.4
72.00	71.77	4.14	2.51	4.8	31.3	8.8	30.2
82.00	81.63	5.54	3.38	6.5	31.4	9.6	29.5
92.00	91.47	7.10	4.29	8.3	31.2	10.7	32.2
102.00	101.28	8.72	5.29	10.2	31.2	12.2	31.6
112.00	111.06	10.47	6.47	12.3	31.7	12.8	35.8
122.00	120.78	12.30	7.89	14.6	32.7	13.9	40.2
132.00	130.42	14.30	9.63	17.2	34.0	16.1	41.6
137.66	135.82	15.48	10.69	18.8	34.6	16.4	41.6

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9005 9007
WELL	2929	CASTLE NORTH	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
LICENSE NO.	N/A		
UNIQUE WELL ID	N/A		
PERMIT/DATA ST.		ELEVATION TO N/A	
LOG MEASURED FROM		ELEVATION TO N/A	
DATE	08/06/08		
DEPTH DRILLER	318.00		
BIT SIZE	13.00		
LOG TOP	0.17		
LOG BOTTOM	318.24		
CASING LOGGER	N/A		
CASING TYPE	N/A		
CASING ID	9.0		
BORING FLUID	WATER		
FM TEMPERATURE	N/A		
FM RES	N/A		
FM WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

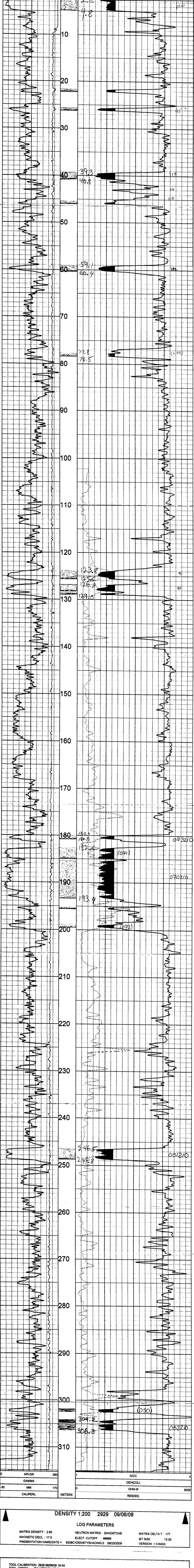
*Handwritten:* 2598554  
1460637  
2145.041

*Handwritten:* 8/30, 2008

DENSITY 1:200 2929 09/06/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2929 09/06/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

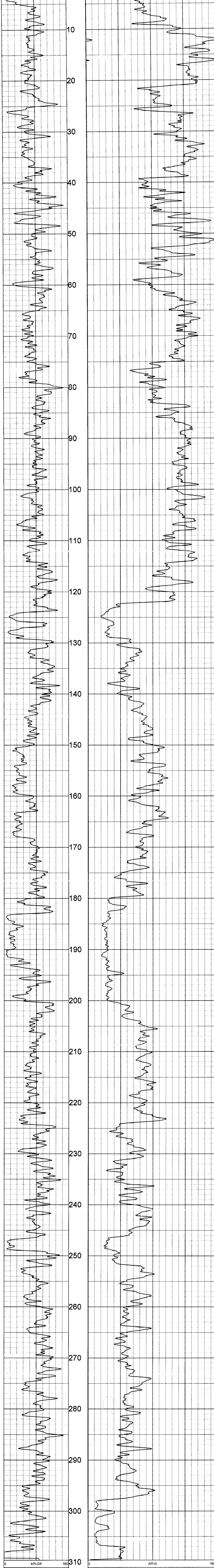
DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22.07	12:48:04	GAMMA	0.000 [API-GR ]	3.00 [CPS]
Aug22.07	12:48:04	GAMMA	320.000 [API-GR ]	304.00 [CPS]
May13.08	11:07:48	VOLTAGE	252.400 [MV ]	7335.30 [CPS]
May13.08	11:07:48	VOLTAGE	159.000 [MV ]	36082.80 [CPS]
Aug10.08	14:01:28	CALIPER	159.000 [INCH ]	285646.00 [CPS]
Aug10.08	14:01:28	CALIPER	343.000 [INCH ]	420450.00 [CPS]
May13.08	15:57:42	DEN(LS)	1.000 [G/CC ]	39714.70 [CPS]
May13.08	15:57:42	DEN(LS)	2.323 [G/CC ]	3656.70 [CPS]
May13.08	15:57:55	DEN(SS)	1.000 [G/CC ]	73088.50 [CPS]
May13.08	11:09:11	CALIPER	100.000 [INCH ]	25243.90 [CPS]
Aug24.08	13:04:07	CALIPER	157.500 [INCH ]	119545.10 [CPS]
May13.08	11:09:11	CURRENT	32.000 [UA ]	177488.50 [CPS]
Aug20.07	16:08:26	F	252.400 [UA ]	7762.80 [CPS]
Aug20.07	16:08:26	X	Default [CPS]	28347.60 [CPS]

<b>Century</b> WIRELINE SERVICES		<b>SLIM GAMMA-NEUTRON</b>  2929	
COMPANY	ELK VALLEY COAL	WELL	2929
FIELD	CASTLE NORTH	OTHER SERVICES	9228 9695
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID		PERMANENT DATUM	SL
		LOG MEASURED FROM	SL
		ELEVATION OF N/A	
		ELEVATION OF N/A	
		LOG MEASURED FROM	SL
		ELEVATION OF N/A	
DATE	09/05/08		
DEPTH DRILLER	315.00		
BIT SIZE	13.00		
LOG TOP	1.98		
LOG BOTTOM	309.58		
CASING LOGGER	N/A		
CASING DRILLER	5.00		
CASING TYPE	N/A		
BORING/LE FLUID	WATER		
RTM TEMPERATURE	N/A		
MUD RES	1.0		
MUD WEIGHT	SSS		
RECORDED BY	M LEBEDA		
REMARKS 1			
REMARKS 2			

**NEUTRON 1:200 2929 09/05/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9067A.0 08/24/2008		VERSION = 3.64EK



**NEUTRON 1:200 2929 09/05/08**

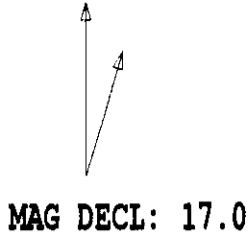
**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9067A.0 08/24/2008		VERSION = 3.64EK

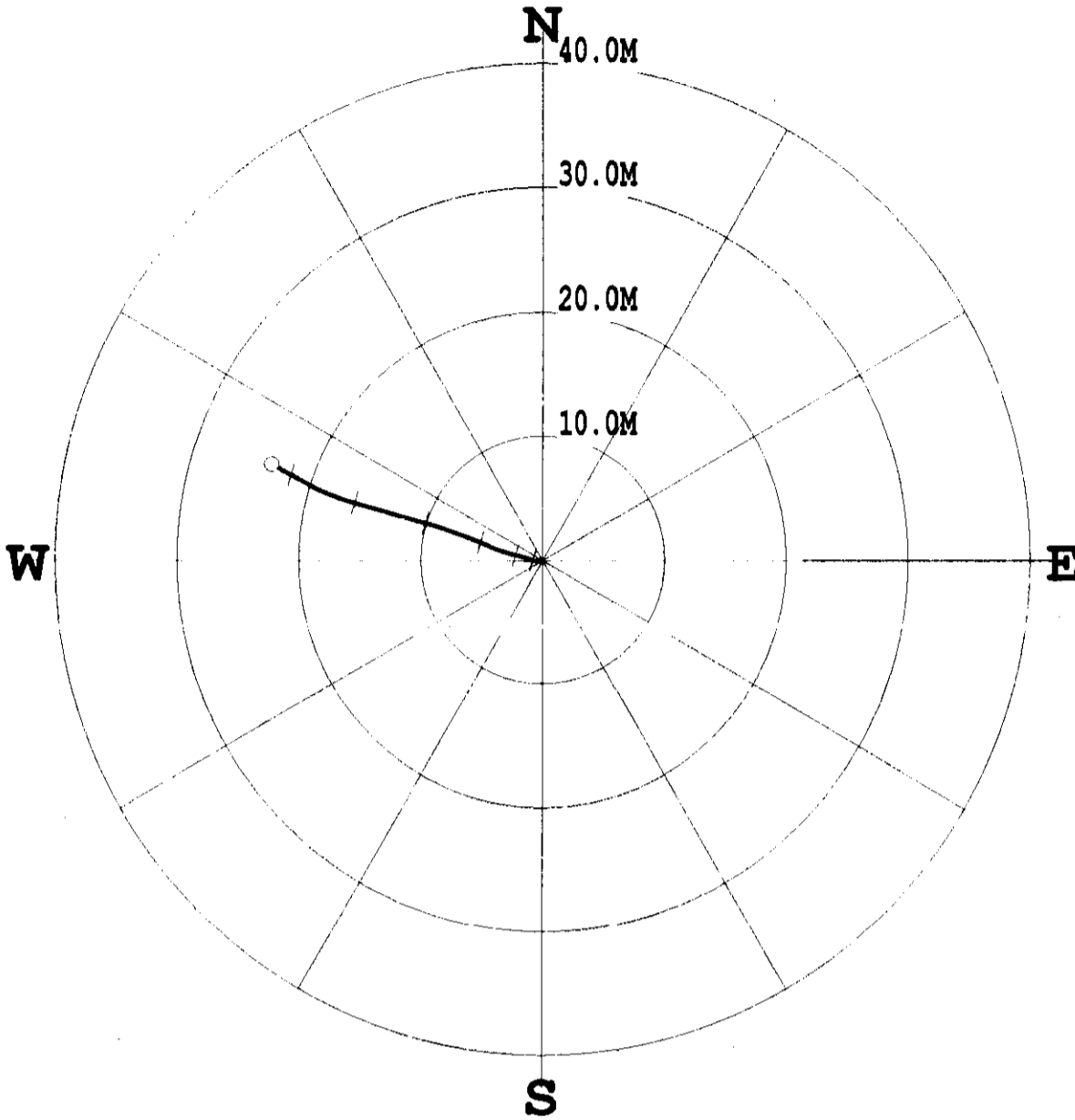
TOOL CALIBRATION 2929 09/05/08 09 23		TOOL 9067A TM VERSION 1	
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR ]
	Jul20.07 01:44:30	GAMMA	250.000 [API-GR ]
2	Sep03.06 10:47:15	NEUTRON	1.000 [API-N ]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N ]
			1.00 [CPS]
			52.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2929  
 DATE OF LOG: 09/06/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 314.52 M  
 AZIMUTH: 289.2  
 DISTANCE: 23.5 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2929  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 09/06/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2929\_09-06-08\_20-39\_9055A\_02\_13.00\_315.68\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
13.02	13.02	0.00	-0.00	0.0	280.9	0.6	280.9
23.00	23.00	-0.00	-0.17	0.2	268.6	1.8	274.9
33.00	32.99	-0.00	-0.42	0.4	269.8	1.1	282.2
43.00	42.99	0.02	-0.66	0.7	272.1	1.4	274.7
53.00	52.99	0.05	-0.85	0.8	273.3	1.1	249.0
63.00	62.99	0.12	-1.03	1.0	276.9	1.2	282.5
73.00	72.98	0.19	-1.24	1.3	278.7	1.4	288.9
83.00	82.98	0.27	-1.53	1.6	280.1	2.0	284.5
93.00	92.97	0.38	-1.91	1.9	281.2	2.4	285.6
103.00	102.96	0.50	-2.37	2.4	281.8	3.1	284.9
113.00	112.95	0.64	-2.89	3.0	282.4	3.1	293.7
123.00	122.93	0.80	-3.42	3.5	283.2	3.3	289.3
133.00	132.91	0.99	-3.97	4.1	284.0	4.1	296.7
143.00	142.89	1.27	-4.60	4.8	285.4	4.6	292.9
153.00	152.86	1.56	-5.30	5.5	286.4	4.6	289.8
163.00	162.82	1.85	-6.07	6.3	287.0	4.8	290.5
173.00	172.78	2.16	-6.94	7.3	287.3	5.7	292.4
183.00	182.73	2.51	-7.92	8.3	287.6	5.9	288.6
193.00	192.68	2.83	-8.89	9.3	287.7	5.7	290.4
203.00	202.62	3.10	-9.91	10.4	287.4	6.3	286.3
213.00	212.56	3.41	-10.97	11.5	287.2	6.5	286.4
223.00	222.49	3.72	-12.12	12.7	287.1	7.3	288.0
233.00	232.41	4.05	-13.28	13.9	287.0	7.2	287.1
243.00	242.33	4.39	-14.48	15.1	286.9	7.2	284.5
253.00	252.26	4.72	-15.67	16.4	286.8	6.8	287.8
263.00	262.19	5.07	-16.79	17.5	286.8	6.8	292.2
273.00	272.12	5.49	-17.86	18.7	287.1	6.6	292.9
283.00	282.06	5.94	-18.83	19.7	287.5	6.0	297.6
293.00	292.00	6.45	-19.82	20.8	288.0	6.3	297.8
303.00	301.93	7.01	-20.85	22.0	288.6	6.9	296.4
313.00	311.86	7.56	-21.90	23.2	289.0	7.0	296.6
315.68	314.48	7.70	-22.18	23.5	289.2	7.0	297.8



**GAMMA - CALIPER  
COMPENSATED DENSITY  
2930**

COMPANY: ELIX WALLEY COAL  
WELL: 2930  
FIELD: CASTLE NORTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA  
COUNTY: CASTLE NORTH

SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
LICENCE NO.: N/A  
UNIQUE WELL ID: N/A

25933364  
14 59 69.867  
2615449  
2072727

PERMANENT DUTY: SL  
LOG MEASURED FROM: SL  
ORI MEASURED FROM: SL

ELEVATION 18 N/A  
ELEVATION DE N/A  
ELEVATION GL N/A

DATE: 20080408  
DEPTH DRILLER: 290.50  
BIT SIZE: 13.00  
LOG TOP: 9.10  
LOG BOTTOM: 290.36

CASING LOGGER: 3.00  
CASING TYPE: N/A  
CASING ID: N/A  
BOTHOLE FLUID: WATER

RAI TEMPERATURE: N/A  
MAD RES: N/A  
MAD WEIGHT: 1.0  
WITNESSED BY: SDS  
RECORDED BY: S. SNEEL

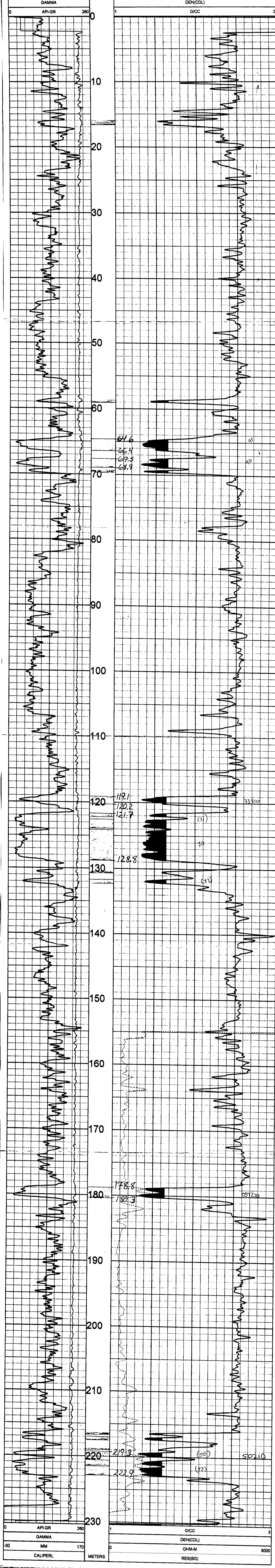
REMARKS 1:  
REMARKS 2:  
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

*B. M. M. D.*  
*Log 30, 2058*

DENSITY 1:200 2930 09/04/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.7 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2930 09/04/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.7 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

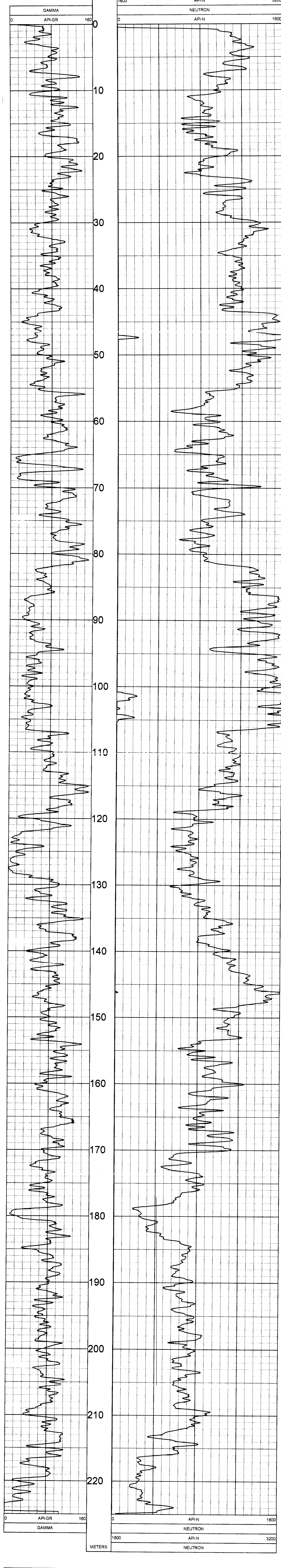
DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22,07	12:48:04	GAMMA	320.000	3.00 [CPS]
Aug22,07	12:48:04	GAMMA	320.000	7335.30 [CPS]
May13,08	11:07:48	VOLTAGE	32.000	36082.80 [CPS]
Aug10,08	14:01:28	CALIPER	159.000	420450.00 [CPS]
May13,08	15:57:42	CALIPER	343.000	283946.00 [CPS]
May13,08	15:57:42	DEN(LS)	1.000	39714.70 [CPS]
May13,08	15:57:55	DEN(LS)	2.323	3858.70 [CPS]
May13,08	15:57:55	DEN(SS)	1.000	73088.50 [CPS]
Aug24,08	13:04:07	CALIPERL	100.000	25243.90 [CPS]
Aug24,08	13:04:07	CALIPERL	157.500	118545.10 [CPS]
May13,08	11:06:11	CURRENT	32.000	177488.50 [CPS]
May13,08	11:06:11	CURRENT	252.400	7782.80 [CPS]
Aug20,07	16:08:28	F	Default	26347.90 [CPS]
Aug20,07	16:08:28	X	Default	

COMPANY	ELK VALLEY COAL	OTHER SERVICES
WELL	2930	9695
FIELD	CASTLE NORTH	9239
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
SECTION	CASTLE NORTH	
TOWNSHIP	N/A	
RANGE	N/A	
LICENCE NO.	N/A	
UNIQUE WELL ID		
PERMANENT DATUM	SL	ELEVATION NS N/A
LOG MEASURED FROM GL		ELEVATION OF N/A
DRL MEASURED FROM GL		ELEVATION GL N/A
DATE	09/03/08	
DEPTH DRILLER	290.50	
BIT SIZE	13	
LOG TOP	-1.06	
LOG BOTTOM	224.93	
CASING LOGGER	15.75	
CASING DRILLER	3.00	
CASING TYPE	N/A	
BOREROLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	SDS	
RECORDED BY	M. LEBEDA	
REMARKS 1		
REMARKS 2		

NEUTRON 1:200 2930 09/03/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2930 09/03/08

LOG PARAMETERS

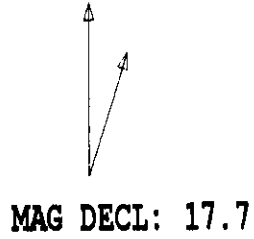
MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

TOOL CALIBRATION 2930 09/03/08 15:28  
 TOOL 9067A TM VERSION 1  
 SERIAL NUMBER 530

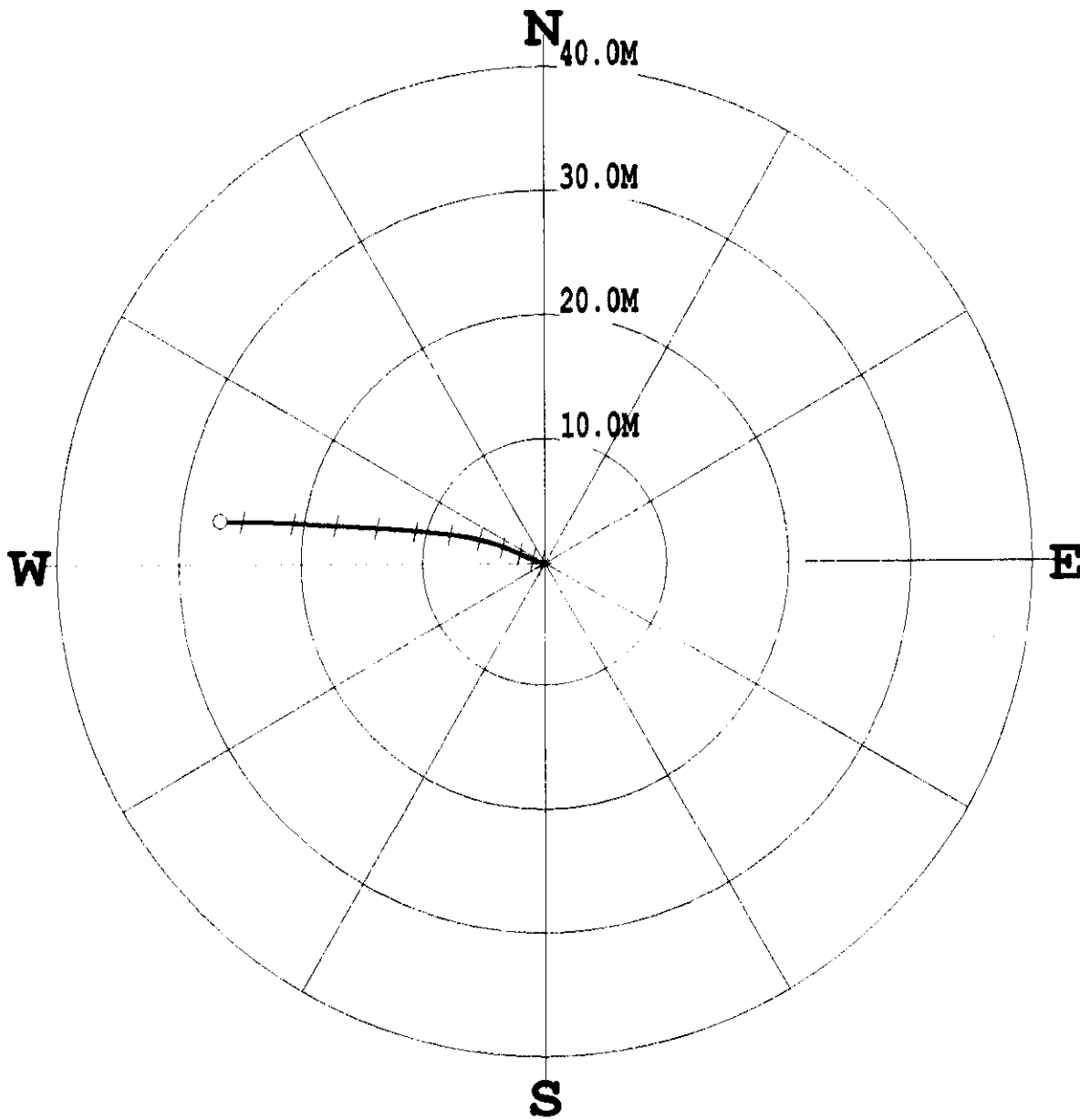
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
	Jul20.07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
2	Sep03.06 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2930  
 DATE OF LOG: 09/04/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 228.11 M  
 AZIMUTH: 277.5  
 DISTANCE: 26.8 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2930  
 FIELD OFFICE : PENHOLD                        DATE OF LOG : 09/04/08  
 DATA FROM : N/A                                PROBE : 9055A ,                      72  
 MAG. DECL. : 17.700                            DEPTH UNITS : METERS  
 LOG: 2930\_09-04-08\_10-51\_9055A\_.02\_10.00\_230.14\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.02	10.02	0.00	-0.00	0.0	310.5	0.7	310.5
20.00	20.00	0.06	-0.22	0.2	286.2	2.8	264.9
30.00	29.99	0.17	-0.59	0.6	285.8	2.0	292.3
40.00	39.98	0.30	-0.96	1.0	287.4	2.2	322.7
50.00	49.96	0.51	-1.48	1.6	288.9	3.4	295.4
60.00	59.95	0.77	-2.03	2.2	290.8	3.6	298.0
70.00	69.92	1.06	-2.67	2.9	291.7	4.2	293.8
80.00	79.89	1.37	-3.45	3.7	291.7	5.2	288.4
90.00	89.84	1.66	-4.32	4.6	291.1	5.6	288.1
100.00	99.79	1.93	-5.30	5.6	290.0	6.3	285.0
110.00	109.72	2.18	-6.42	6.8	288.8	6.9	279.4
120.00	119.64	2.39	-7.68	8.0	287.3	7.7	278.0
130.00	129.55	2.54	-9.04	9.4	285.7	8.0	276.9
140.00	139.44	2.68	-10.48	10.8	284.3	8.5	274.6
150.00	149.33	2.80	-11.97	12.3	283.2	9.3	278.3
160.00	159.20	2.91	-13.59	13.9	282.1	9.5	273.7
170.00	169.06	3.00	-15.24	15.5	281.1	9.9	275.1
180.00	178.92	3.10	-16.92	17.2	280.4	9.6	272.9
190.00	188.77	3.21	-18.61	18.9	279.8	9.8	274.3
200.00	198.62	3.33	-20.35	20.6	279.3	10.3	273.5
210.00	208.43	3.42	-22.27	22.5	278.7	11.3	273.3
220.00	218.21	3.47	-24.37	24.6	278.1	12.3	269.0
230.00	227.97	3.49	-26.55	26.8	277.5	13.1	269.8
230.14	228.07	3.49	-26.57	26.8	277.5	13.1	270.4



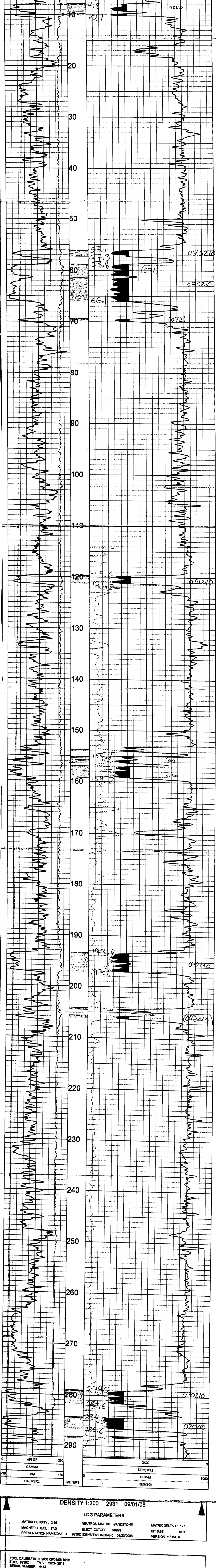
COMPANY	ELK VALLEY COAL	OTHER SERVICES:	
WELL	2631	9865	
FIELD	CASTLE NORTH	9867	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	N/A	25937.993	
TOWNSHIP	N/A	14 S 820 777	
RANGE	N/A	20-34 663	
UNIQUE WELL ID	N/A		
PERMANENT DATA	SI	ELEVATION IB N/A	
LOG MEASURED FROM	SI	ELEVATION OF N/A	
DRI MEASURED FROM	SI	ELEVATION GI N/A	
DATE	28/07/08		
LOG BOTTOM	292.31		
LOG TOP	13.00		
LOG LOG TOP	13.00		
LOG LOG BOTTOM	292.31		
CASING LOGGER	1575		
CASING DRILLER	3.00		
CASING TYPE	N/A		
BORHOLE FLUID	WATER		
BM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WGT	1.0		
WGT	1.0		
RECORDED BY	M. LEBERA		
RECORDED BY	M. LEBERA		
RECORDED BY	M. LEBERA		
REMARKS 1			
REMARKS 2			

*Appt 30, 2008*  
*W. LEBERA*

DENSITY 1:200 2931 09/01/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2931 09/01/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22,07	12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
Aug22,07	12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
May13,08	11:07:48	VOLTAGE	32.000 [MV]	7336.30 [CPS]
May13,08	11:07:48	VOLTAGE	252.400 [MV]	38082.80 [CPS]
Aug10,08	14:01:28	CALIPER	158.000 [INCH]	39714.70 [CPS]
Aug10,08	14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
May13,08	15:57:42	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
May13,08	15:57:42	DEN(SS)	1.000 [G/CC]	3856.70 [CPS]
May13,08	15:57:55	DEN(SS)	2.323 [G/CC]	73088.50 [CPS]
Aug24,08	13:04:07	CALIPER	100.000 [INCH]	23243.90 [CPS]
Aug24,08	13:04:07	CALIPER	157.500 [INCH]	118545.10 [CPS]
May13,08	11:09:11	CURRENT	32.000 [UA]	17788.50 [CPS]
Aug20,07	16:08:26	F	252.400 [Default]	7782.80 [CPS]
Aug20,07	16:08:26	X	Default [CPS]	26347.80 [CPS]

COMPANY	ELK VALLEY COAL	OTHER SERVICES
WELL	2931	9239
FIELD	CASTLE NORTH	9095
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
SECTION	CASTLE NORTH	
TOWNSHIP	N/A	
RANGE	N/A	
LICENCE NO.	N/A	
UNIQUE WELL ID		
PERMANENT DATUM	GL	ELEVATION NB N/A
LOG MEASURED FROM	GL	ELEVATION DF N/A
DBL MEASURED FROM	GL	ELEVATION SL N/A
DATE	08/31/08	
DEPTH DRILLER	293.00	
BIT SIZE	13	
LOG TOP	-2.94	
LOG BOTTOM	291.04	
CASING LOGGER	15.75	
CASING DRILLER	3.00	
BOREHOLE FLUID	N/A	WATER
BOREHOLE TEMPERATURE	N/A	
MUD RES	1.0	
WINDSPEED BY	SOS	
RECORDED BY	M LEBEDA	
REMARKS 1		
REMARKS 2		

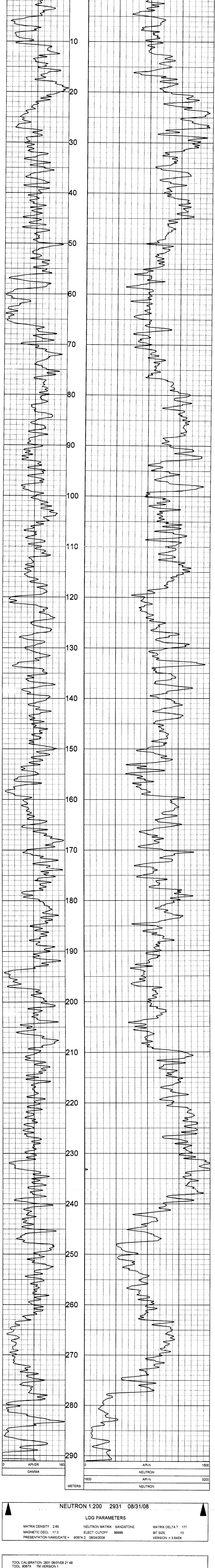
NEUTRON 1:200 2931 08/31/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177

MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13

PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2931 08/31/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177

MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13

PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

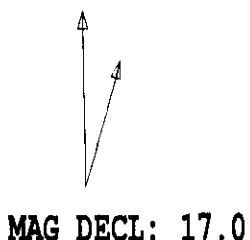
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
2	Jul20.07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

TOOL CALIBRATION 2931 08/31/08 21:48  
 TOOL 9067A TM VERSION 1  
 SERIAL NUMBER 630

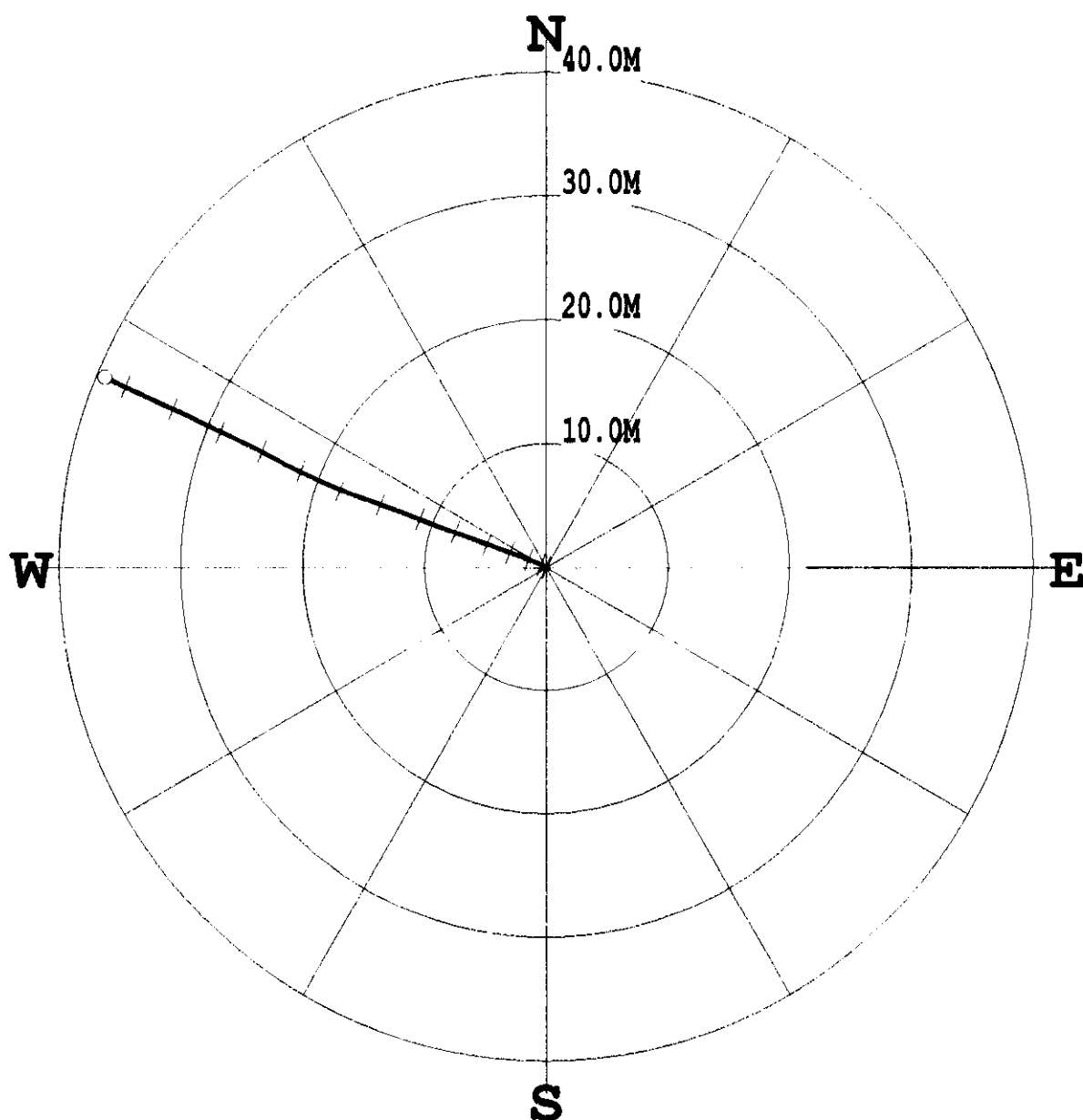
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2931  
 DATE OF LOG: 09/01/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 289.05 M  
 AZIMUTH: 292.9  
 DISTANCE: 39.3 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2931  
 FIELD OFFICE : CENTURY GEO                      DATE OF LOG : 09/01/08  
 DATA FROM : N/A                                      PROBE : 9055A                      72  
 MAG. DECL. : 17.000                                      DEPTH UNITS : METERS  
 LOG: 2931\_09-01-08\_17-37\_9055A\_02\_6.23\_292.37\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
10.00	9.99	0.01	0.00	0.0	42.0	0.2	51.4
20.00	19.99	0.02	0.02	0.0	42.8	0.4	41.9
30.00	29.99	0.11	-0.08	0.1	323.3	2.3	297.6
40.00	39.98	0.27	-0.41	0.5	303.6	2.4	282.0
50.00	49.97	0.43	-0.85	1.0	296.6	3.4	290.7
60.00	59.95	0.66	-1.45	1.6	294.4	4.0	290.8
70.00	69.92	0.94	-2.15	2.3	293.6	6.0	348.6
80.00	79.88	1.23	-2.95	3.2	292.7	5.0	291.9
90.00	89.84	1.54	-3.82	4.1	292.0	5.8	286.2
100.00	99.78	1.91	-4.84	5.2	291.6	6.9	289.8
110.00	109.70	2.35	-6.04	6.5	291.2	7.9	289.1
120.00	119.59	2.82	-7.40	7.9	290.9	8.6	290.4
130.00	129.48	3.33	-8.82	9.4	290.7	8.8	290.1
140.00	139.36	3.88	-10.27	11.0	290.7	9.2	293.4
150.00	149.22	4.49	-11.83	12.7	290.8	9.8	291.1
160.00	159.07	5.07	-13.46	14.4	290.6	9.9	290.1
170.00	168.91	5.64	-15.10	16.1	290.5	9.8	290.0
180.00	178.76	6.23	-16.72	17.8	290.4	10.4	291.3
190.00	188.61	6.91	-18.34	19.6	290.6	10.1	293.9
200.00	198.46	7.62	-19.91	21.3	290.9	9.9	296.3
210.00	208.31	8.37	-21.46	23.0	291.3	9.8	296.2
220.00	218.15	9.17	-23.02	24.8	291.7	10.6	297.6
230.00	227.99	9.97	-24.63	26.6	292.0	10.5	294.3
240.00	237.81	10.77	-26.33	28.4	292.2	11.7	295.6
250.00	247.60	11.64	-28.18	30.5	292.4	12.2	296.7
260.00	257.38	12.53	-30.10	32.6	292.6	12.1	293.3
270.00	267.15	13.39	-32.03	34.7	292.7	12.3	293.4
280.00	276.92	14.26	-33.95	36.8	292.8	12.0	295.3
290.00	286.72	15.11	-35.78	38.8	292.9	11.4	295.9
292.38	289.02	15.30	-36.19	39.3	292.9	11.0	294.6

**gamma**  
LINE SERVICES

**GAMMA - CALIPER  
COMPENSATED DENSITY  
2935**

2935 CASTLE NORTH CANADA BRITISH COLUMBIA CASTLE NORTH 262241983 1156418686 2023-730	OTHER SERVICES 9007 9005
---	--------------------------------

*B. [Signature]*  
*Aug 30, 2008*

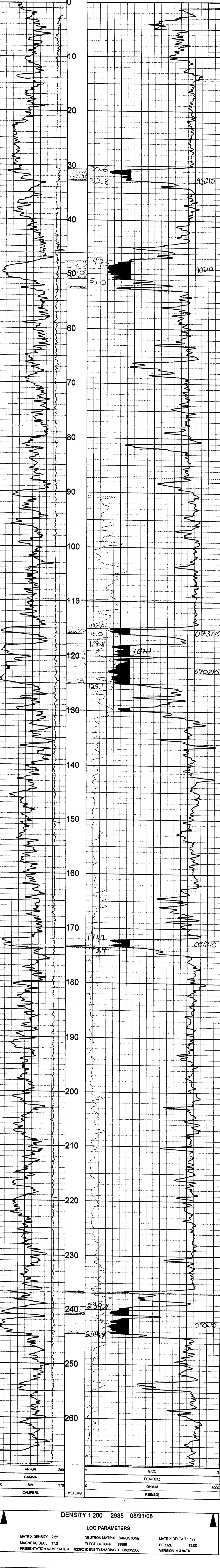
1-DRILLER : 290.00  
 2-DATE : 08/31/08  
 3-LOGGERS : 15.75  
 4-G TYPE : N/A  
 5-TOOL TYPE : N/A  
 6-TOOL FLUID : WATER  
 7-TEMPERATURE : N/A  
 8-WEIGHT : N/A  
 9-LOGGERS : 15.75  
 10-LOGGERS : 15.75  
 11-LOGGERS : 15.75  
 12-LOGGERS : 15.75  
 13-LOGGERS : 15.75  
 14-LOGGERS : 15.75  
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 22-LOGGERS : 15.75  
 23-LOGGERS : 15.75  
 24-LOGGERS : 15.75  
 25-LOGGERS : 15.75  
 26-LOGGERS : 15.75  
 27-LOGGERS : 15.75  
 28-LOGGERS : 15.75  
 29-LOGGERS : 15.75  
 30-LOGGERS : 15.75

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

**DENSITY 1:200 2935 08/31/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.85	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008		VERSION = 3.64EK



**DENSITY 1:200 2935 08/31/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.85	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008		VERSION = 3.64EK

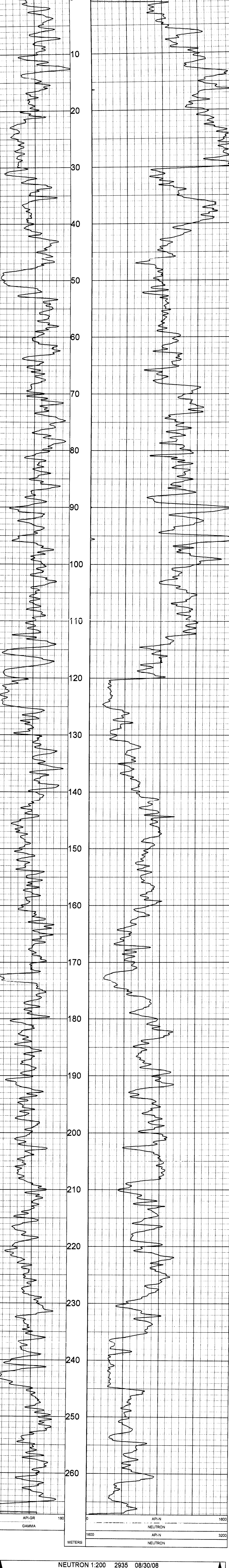
DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22.07	12:48:04	GAMMA	0.000 [API-GR ]	3.00 [CPS]
Aug22.07	12:48:04	GAMMA	320.000 [API-GR ]	304.00 [CPS]
May13.08	11:07:48	VOLTAGE	32.000 [MV ]	7335.30 [CPS]
May13.08	11:07:48	VOLTAGE	252.400 [MV ]	36082.80 [CPS]
Aug10.08	14:01:28	CALIPER	156.000 [INCH ]	283948.00 [CPS]
Aug10.08	14:01:28	CALIPER	343.000 [INCH ]	420450.00 [CPS]
May13.08	15:57:42	DEN(LS)	1.000 [G/CC ]	39714.70 [CPS]
May13.08	15:57:42	DEN(LS)	2.323 [G/CC ]	3858.50 [CPS]
May13.08	15:57:56	DEN(SS)	1.000 [G/CC ]	73088.50 [CPS]
May13.08	15:57:56	DEN(SS)	2.323 [G/CC ]	25243.90 [CPS]
Aug24.08	13:04:07	CALIPERL	100.000 [INCH ]	118545.10 [CPS]
Aug24.08	13:04:07	CALIPERL	197.500 [INCH ]	177485.30 [CPS]
May13.08	11:09:11	CURRENT	32.000 [UA ]	7782.80 [CPS]
May13.08	11:09:11	CURRENT	252.400 [UA ]	26347.80 [CPS]
Aug20.07	16:08:28	F	Default [CPS]	
Aug20.07	16:08:28	X	Default [CPS]	

<b>Century</b> WIRELINE SERVICES		<b>SLIM GAMMA-NEUTRON</b>	
WELL: ELK VALLEY COAL		OTHER SERVICES: 2935	
FIELD: CASTLE NORTH		9298	
COUNTRY: CANADA		9055	
PROVINCE: BRITISH COLUMBIA			
SECTION: CASTLE NORTH			
TOWNSHIP: N/A			
RANGE: N/A			
LICENCE NO.: N/A			
UNIQUE WELL ID:		ELEVATION 93 N/A	
PERMANENT DATUM: GL		ELEVATION OF N/A	
LOG MEASURED FROM: GL		ELEVATION GL: N/A	
DRL MEASURED FROM: GL			
DATE: 08/30/08			
DEPTH DRILLER: 2989 00			
BIT SIZE: 13			
LOG TOP: -0.79			
LOG BOTTOM: 287.20			
CASING LOGGER: 15.75			
CASING DRILLER: 3.00			
BOREHOLE FLUID: WATER			
MUD TEMPERATURE: N/A			
MUD RES: N/A			
MUD WEIGHT: 1.0			
WITNESSED BY: SDS			
RECORDED BY: M. LEBEDA			
REMARKS 1:			
REMARKS 2:			

**NEUTRON 1:200 2935 08/30/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13
PRESENTATION NAME/DATE = 9067A.0 08/24/2008		VERSION = 3.64EK



**NEUTRON 1:200 2935 08/30/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13
PRESENTATION NAME/DATE = 9067A.0 08/24/2008		VERSION = 3.64EK

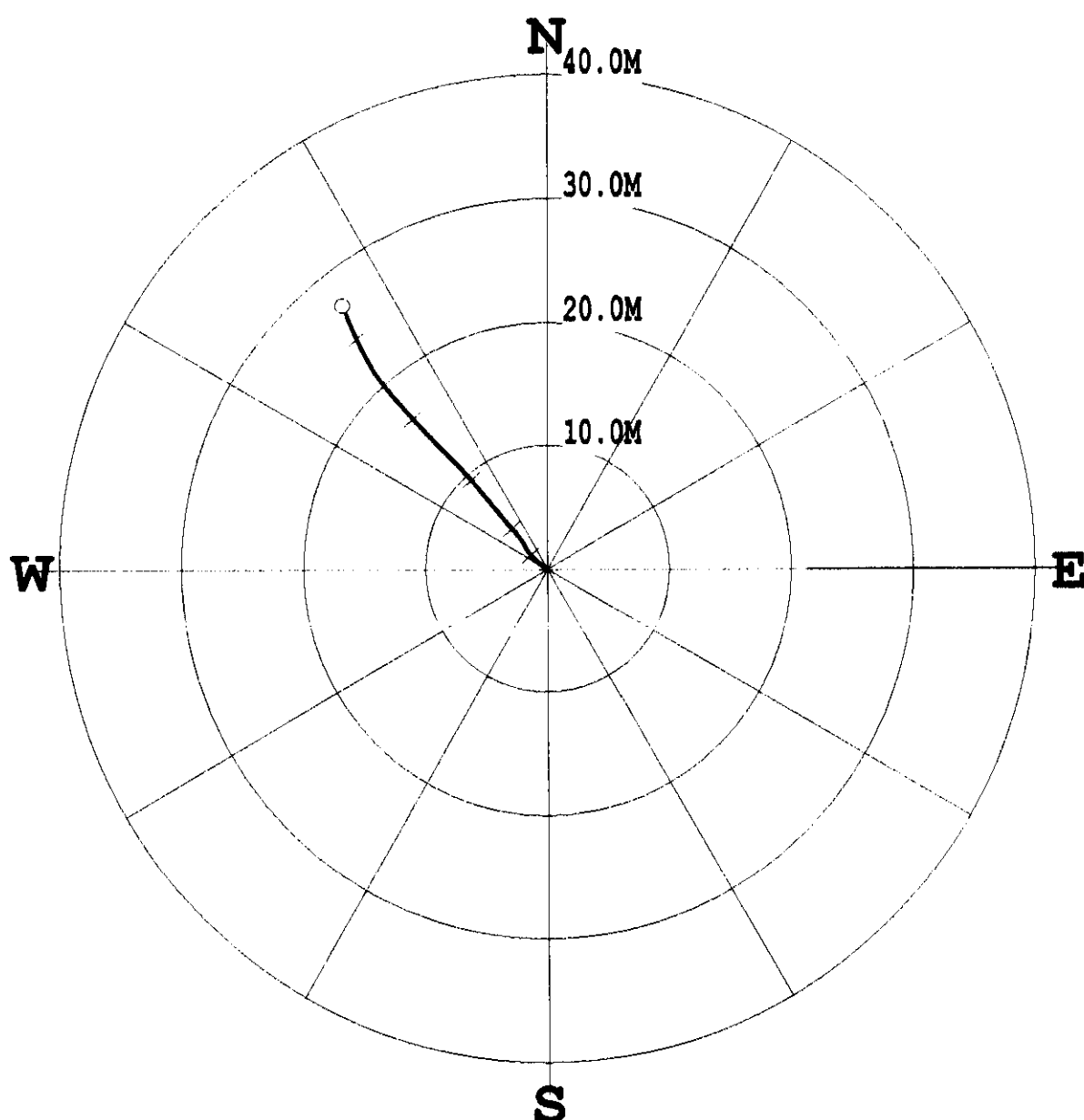
TOOL CALIBRATION 2935 08/30/08 01:47				
TOOL 9067A TM VERSION 1				
SERIAL NUMBER 530				
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
	Jul20.07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
2	Sep03.08 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03.08 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2935  
 DATE OF LOG: 08/31/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 267.26 M  
 AZIMUTH: 321.7  
 DISTANCE: 27.1 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL HOLE ID. : 2935  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/31/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2935\_08-31-08\_12-37\_9055A\_.02\_7.12\_268.99\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.03	-0.02	0.0	321.4	1.2	283.2
20.00	19.99	0.28	-0.34	0.4	309.0	3.0	306.5
30.00	29.98	0.55	-0.74	0.9	306.7	2.6	307.2
40.00	39.97	0.85	-1.06	1.4	308.5	3.2	314.6
50.00	49.96	1.15	-1.35	1.8	310.5	2.3	326.4
60.00	59.95	1.47	-1.63	2.2	312.2	2.4	290.9
70.00	69.94	1.84	-1.82	2.6	315.3	2.6	335.6
80.00	79.93	2.26	-2.07	3.1	317.5	3.0	323.5
90.00	89.91	2.73	-2.43	3.7	318.3	3.6	323.9
100.00	99.89	3.24	-2.88	4.3	318.4	4.3	316.7
110.00	109.85	3.89	-3.47	5.2	318.3	5.3	323.1
120.00	119.80	4.65	-4.08	6.2	318.7	5.7	320.7
130.00	129.75	5.44	-4.73	7.2	319.0	5.9	320.0
140.00	139.69	6.27	-5.42	8.3	319.2	6.2	319.5
150.00	149.62	7.16	-6.19	9.5	319.2	6.8	318.4
160.00	159.54	8.07	-7.03	10.7	318.9	7.4	316.6
170.00	169.45	9.05	-7.97	12.1	318.6	7.6	315.9
180.00	179.36	10.01	-8.92	13.4	318.3	7.8	313.9
190.00	189.26	11.00	-9.91	14.8	318.0	8.1	315.7
200.00	199.15	12.06	-10.92	16.3	317.8	8.6	317.1
210.00	209.04	13.18	-11.93	17.8	317.9	9.2	317.6
220.00	218.91	14.38	-12.98	19.4	317.9	9.0	321.2
230.00	228.78	15.63	-13.95	20.9	318.3	9.2	325.9
240.00	238.65	17.01	-14.79	22.5	319.0	9.2	330.5
250.00	248.52	18.46	-15.52	24.1	319.9	9.4	336.1
260.00	258.38	19.94	-16.20	25.7	320.9	9.5	336.8
269.00	267.22	21.29	-16.79	27.1	321.7	9.9	336.5

<b>Century</b> WIRELINE SERVICES		<b>GAMMA - CALIPER</b> COMPENSATED DENSITY 2937	
COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	2937	9867	9865
FIELD	CASTLE NORTH		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE NORTH		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID.	26107-631		
REMAINING DATUM	EL ELEVATION 88 N/A		
LOG MEASURED FROM GL	EL ELEVATION 87 N/A		
ORL MEASURED FROM GL	EL ELEVATION 81 N/A		
DATE	08/29/08		
DEPTH DRILLER	293.00		
BIT SIZE	13.00		
LOG TOP	0.13		
LOG BOTTOM	282.86		
CASING LOGGER	15.75		
CASING DRILLER	2.00		
CASING TYPE	N/A		
BORING HOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	MS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

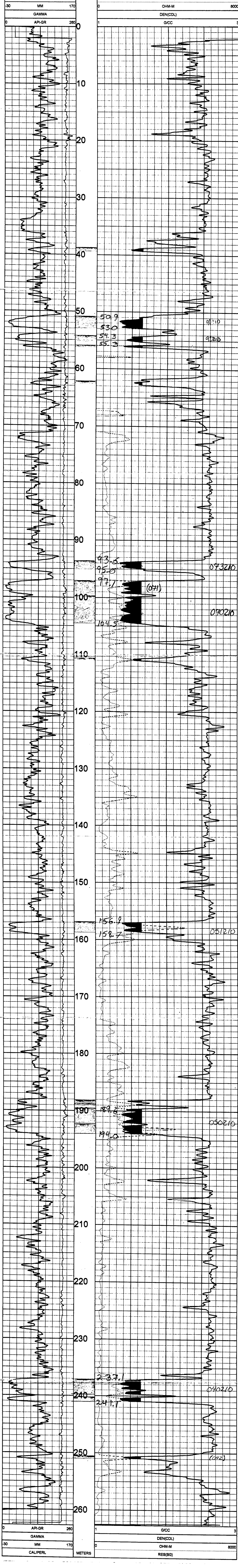
B. N. N. D.  
Aug. 30, 2008

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

DENSITY 1,200 2937 08/29/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK



DENSITY 1,200 2937 08/29/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK

TOOL CALIBRATION 2937 08/29/08 18:00  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4443

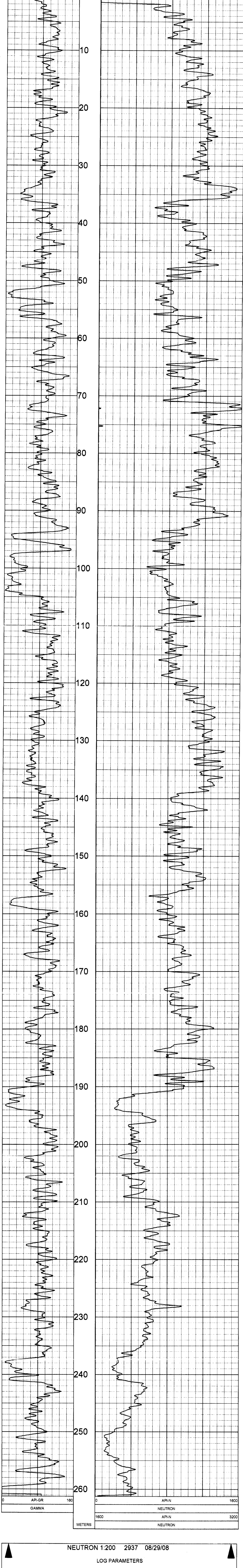
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22.07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
1	Aug22.07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
2	May13.08 11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
2	May13.08 11:07:48	VOLTAGE	252.400 [MV]	36082.80 [CPS]
3	Aug10.08 14:01:28	CALIPER	159.000 [INCH]	39714.70 [CPS]
3	Aug10.08 14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
4	May13.08 15:57:42	DEN(S)	1.000 [G/CC]	39714.70 [CPS]
4	May13.08 15:57:42	DEN(S)	2.323 [G/CC]	73088.50 [CPS]
5	May13.08 15:57:55	DEN(SS)	2.323 [G/CC]	3656.70 [CPS]
5	May13.08 15:57:55	DEN(SS)	2.323 [G/CC]	73088.50 [CPS]
6	Aug24.08 13:04:07	CALIPERL	100.000 [INCH]	25243.90 [CPS]
6	Aug24.08 13:04:07	CALIPERL	157.500 [INCH]	118545.10 [CPS]
7	May13.08 11:09:11	CURRENT	32.000 [UA]	177468.50 [CPS]
7	May13.08 11:09:11	CURRENT	252.400 [UA]	7762.80 [CPS]
8	Aug20.07 16:08:26	F	Default [CPS]	26347.60 [CPS]
9	Aug20.07 16:08:26	X	Default [CPS]	

<b>Century</b> WIRELINE SERVICES		<b>SLIM GAMMA-NEUTRON</b>	
WELL: 2937		OTHER SERVICES: 9055 9239	
FIELD: CASTLE NORTH	COUNTRY: CANADA	PROVINCE: BRITISH COLUMBIA	
SECTION: N/A		TOWNSHIP: N/A	
RANGE: N/A		LICENCE NO.: N/A	
UNIQUE WELL ID:		PERMANENT DATUM: GL	
LOG MEASURED FROM: GL		ELEVATION MD: N/A	
DATE: 08/29/08		ELEVATION DT: N/A	
DEPTH DRILLER: 2935 00	BIT SIZE: 13	LOG MEASURED FROM: GL	
LOG TOP: 0.00	LOG BOTTOM: 261.17	CASING LOGGER: 15.75	
CASING DRILLER: 3.00		CASING TYPE: N/A	
BOREHOLE FLUID: WATER		RM TEMPERATURE: N/A	
MUD RES: N/A		MUD WEIGHT: 1.0	
RECORDED BY: M. TEREDA		REMARKS 1:	
REMARKS 2:		REMARKS 3:	

NEUTRON 1:200 2937 08/29/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2937 08/29/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK

TOOL CALIBRATION 2937 08/29/08 01:35							
TOOL: 9087A TM VERSION 1							
SERIAL NUMBER 530							
DATE	TIME	SENSOR	STANDARD	RESPONSE			
1	Ju/20/07	01:44:30	GAMMA	1.000	[API-GR ]	1.00	[CPS]
	Ju/20/07	01:44:30	GAMMA	250.000	[API-GR ]	52.00	[CPS]
2	Sep03/08	10:47:15	NEUTRON	1.000	[API-N ]	1.00	[CPS]
	Sep03/08	10:47:15	NEUTRON	500.000	[API-N ]	500.00	[CPS]

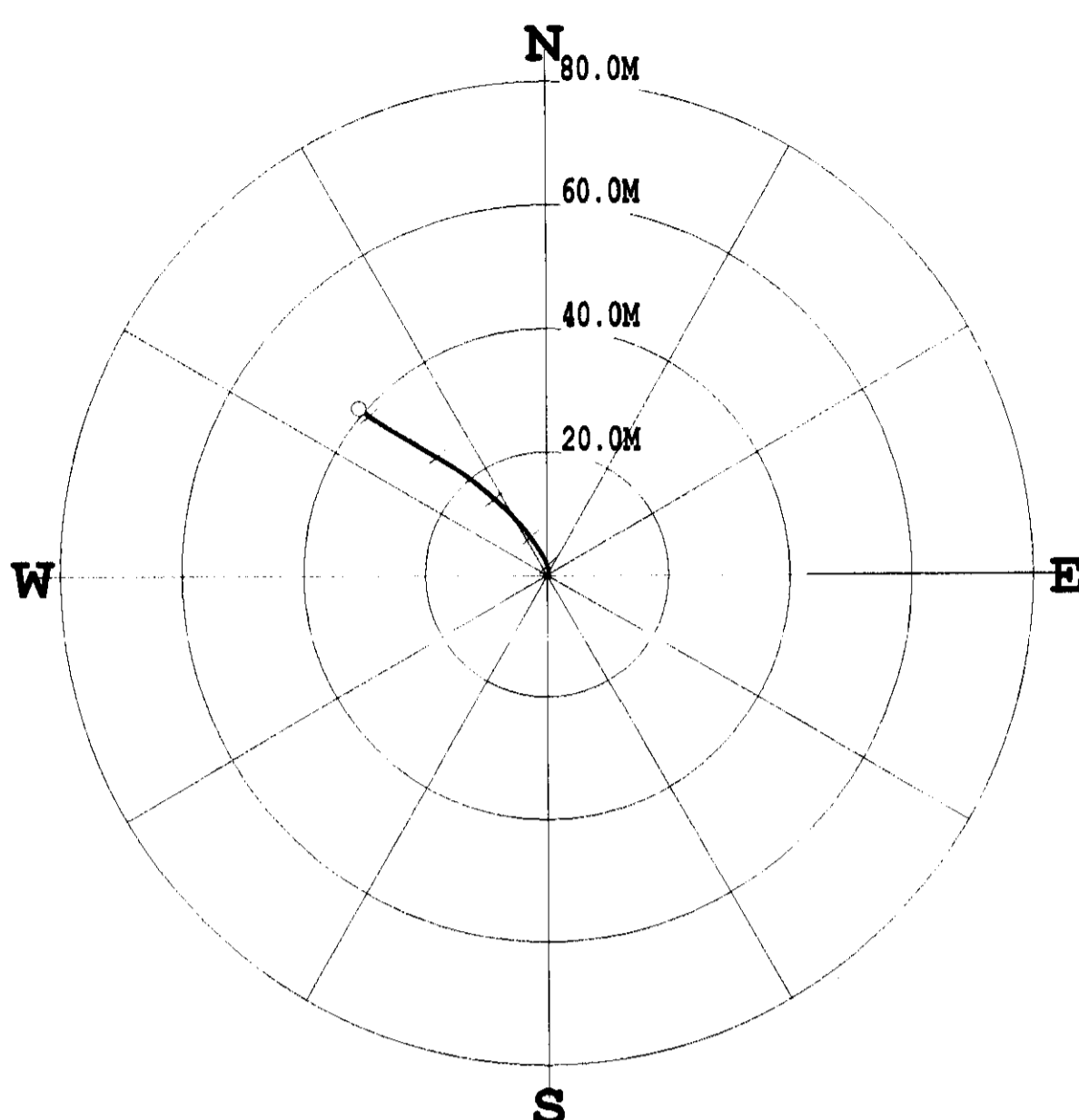


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2937  
 DATE OF LOG: 08/29/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 258.57 M  
 AZIMUTH: 311.3  
 DISTANCE: 41.0 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2937  
 FIELD OFFICE : CENTURY GEO                      DATE OF LOG : 08/29/08  
 DATA FROM : N/A                                      PROBE : 9055A ,                      72  
 MAG. DECL. : 17.000                                      DEPTH UNITS : METERS  
 LOG: 2937\_08-29-08\_16-56\_9055A\_02\_6.55\_262.94\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
10.00	9.99	-0.00	0.03	0.0	91.3	0.7	51.3
20.00	19.99	0.17	0.16	0.2	44.3	1.7	25.2
30.00	29.98	0.56	0.24	0.6	23.4	2.5	4.1
40.00	39.97	0.99	0.22	1.0	12.5	2.5	356.6
50.00	49.95	1.56	0.09	1.6	3.3	3.5	350.8
60.00	59.93	2.21	-0.17	2.2	355.7	5.1	337.2
70.00	69.88	3.07	-0.58	3.1	349.3	6.1	327.1
80.00	79.82	4.02	-1.17	4.2	343.8	6.4	327.3
90.00	89.74	5.04	-1.83	5.4	340.0	7.7	326.1
100.00	99.65	6.14	-2.62	6.7	336.9	7.9	323.9
110.00	109.55	7.26	-3.47	8.0	334.4	8.5	322.1
120.00	119.43	8.41	-4.44	9.5	332.2	9.4	321.9
130.00	129.28	9.65	-5.57	11.1	330.0	10.5	314.1
140.00	139.10	10.97	-6.93	13.0	327.7	11.2	315.0
150.00	148.90	12.31	-8.39	14.9	325.7	11.9	312.8
160.00	158.68	13.67	-9.96	16.9	323.9	12.4	310.9
170.00	168.44	15.05	-11.65	19.0	322.2	13.1	309.6
180.00	178.18	16.36	-13.46	21.2	320.6	13.0	303.6
190.00	187.91	17.65	-15.39	23.4	318.9	13.5	302.0
200.00	197.61	18.90	-17.47	25.7	317.3	14.8	300.6
210.00	207.27	20.21	-19.71	28.2	315.7	15.1	301.5
220.00	216.93	21.54	-21.93	30.7	314.5	15.0	301.0
230.00	226.59	22.85	-24.15	33.2	313.4	15.1	300.2
240.00	236.26	24.14	-26.34	35.7	312.5	14.2	300.3
250.00	245.98	25.39	-28.36	38.1	311.8	13.3	303.0
260.00	255.71	26.71	-30.20	40.3	311.5	13.2	302.7
262.94	258.53	27.05	-30.74	41.0	311.3	12.6	301.6

**Century**  
WIRELINE SERVICES

**GAMMA - CALIPER**  
COMPENSATED DENSITY  
2938

COMPANY: ELK VALLEY COAL  
WELL: 2938  
FIELD: EASTLE NORTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA

SECTION: N/A  
FORMATION: N/A  
FOURCE: N/A  
LICENSE NO: N/A  
UNIQUE WELL ID: N/A  
PERMITS/DATA: 26274, 798  
ELEVATION TO NAV: 145 229.510  
ELEVATION TO ILM: 2023.394

DATE: 08/29/08  
DEPTH DILLER: 343.00  
BIT SIZE: 13.00  
LOG TOP: 93.35  
LOG BOTTOM: 333.44  
CANNED LOGGER: 3300  
CANNED DILLER: N/A  
ROBBERHOOD FLUID: WATER  
RAI TEMPERATURE: N/A  
RAI RES: N/A  
MWD WEIGHT: 1.0  
MWD WGT BY: 505  
RECORDED BY: M. LEBUDA  
REMARKS 1:  
REMARKS 2:

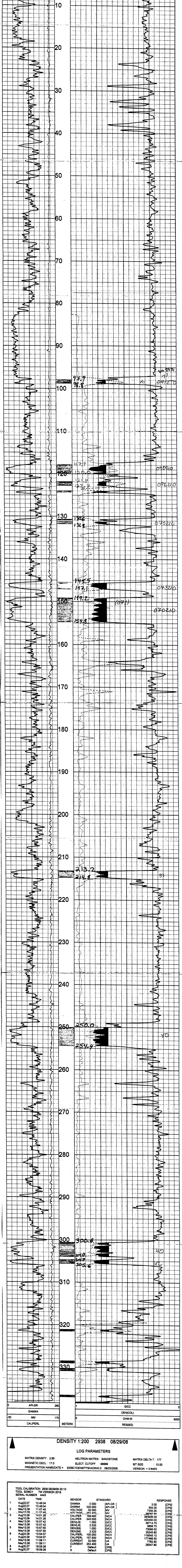
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

*B. Plunk*  
*Sept. 30, 2008*

DENSITY 1:200 2938 08/29/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2938 08/29/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

TOOL CALIBRATION 2938 08/28/08 20:10  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4443

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22.07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
2	Aug22.07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
3	May13.08 11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
4	May19.08 11:07:48	VOLTAGE	292.400 [MV]	36393.90 [CPS]
3	Aug10.08 14:01:28	CALIPER	159.000 [INCH]	283948.00 [CPS]
4	May13.08 15:57:42	CALIPER	343.000 [INCH]	420450.00 [CPS]
5	May13.08 15:57:42	DEN(LS)	1.000 [G/C]	38714.70 [CPS]
6	May13.08 15:57:55	DEN(SS)	2.323 [G/C]	3658.70 [CPS]
7	May13.08 11:09:11	DEN(SS)	1.000 [G/C]	73088.50 [CPS]
8	Aug24.08 13:04:07	CALIPER	100.000 [INCH]	25243.90 [CPS]
9	Aug24.08 13:04:07	CALIPER	157.500 [INCH]	118545.10 [CPS]
7	May13.08 11:09:11	CURRENT	32.000 [UA]	177488.50 [CPS]
8	Aug20.07 18:08:28	CURRENT	252.400 [UA]	7762.80 [CPS]
9	Aug20.07 18:08:28	F	Default [CPS]	28347.90 [CPS]
		X	Default [CPS]	

COMPANY: ELK VALLEY COAL  
WELL: 2938  
FIELD: CASTLE HILL-TH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA

SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
LICENSE NO: N/A  
UNCLERED LIB: N/A

PERMANENT DATUM: GL  
LOG MEASURED FROM: GL  
DATE: 08/28/08  
DEPTH DRIILLER: 343.90  
BIT SIZE: 13

ELEVATION NG: N/A  
ELEVATION DA: N/A  
ELEVATION GL: N/A

LOG TOP: 333.21  
LOG BOTTOM: 15.75  
CASING LOGGER: 3.00  
CASING DRILLER: N/A

ROBUSTOLE FLUID: N/A  
ROBUSTOLE TYPE: WATER  
RM TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: 1.0  
WINDISSSED BY: SSS  
RECORDED BY: M. LEBERKA  
REMARKS 1:  
REMARKS 2:

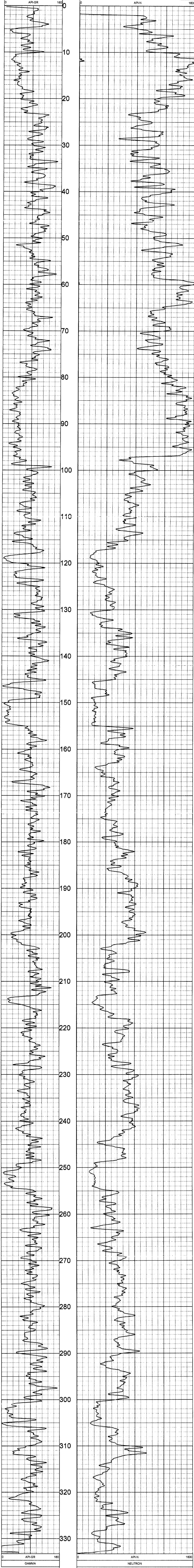
OTHER SERVICES:  
9239  
9065

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

NEUTRON 1,200 2938 08/28/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1,200 2938 08/28/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

TOOL CALIBRATION 2938 08/28/08 00:59  
TOOL 9067A TM VERSION 1  
SERIAL NUMBER 530

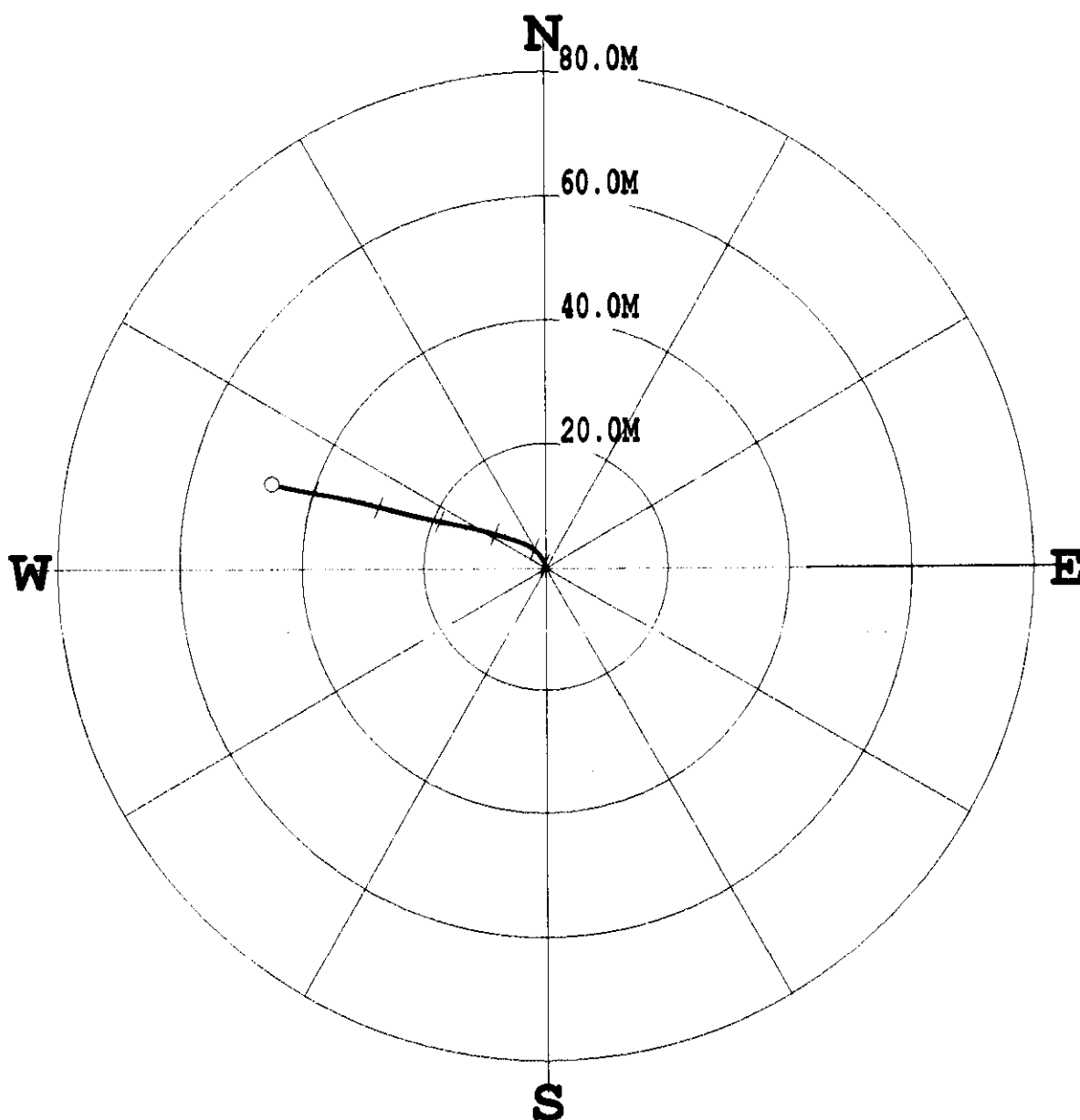
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jui20,07 01:44:30	GAMMA	1 000 [API-GR ]	1.00 [CPS]
	Jui20,07 01:44:30	GAMMA	250 000 [API-GR ]	52.00 [CPS]
2	Sep03,08 10:47:15	NEUTRON	1 000 [API-N ]	1.00 [CPS]
	Sep03,08 10:47:15	NEUTRON	500 000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE NORTH  
 HOLE ID: 2938  
 DATE OF LOG: 08/29/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 333.95 M  
 AZIMUTH: 286.8  
 DISTANCE: 46.8 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2938  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/29/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2938\_08-29-08\_19-15\_9055A\_.02\_7.27\_338.36\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.01	-0.00	-0.00	0.0	188.9	0.5	169.8
20.00	20.01	0.03	0.03	0.0	39.4	0.9	30.9
30.00	30.01	0.16	0.01	0.2	1.8	1.3	358.0
40.00	40.01	0.35	-0.07	0.4	348.9	1.6	325.2
50.00	50.00	0.68	-0.12	0.7	349.6	2.6	327.0
60.00	59.99	1.12	-0.32	1.2	344.0	2.7	327.1
70.00	69.97	1.59	-0.61	1.7	339.1	3.4	319.0
80.00	79.96	2.04	-0.96	2.3	334.7	4.1	279.9
90.00	89.93	2.54	-1.39	2.9	331.2	3.8	316.4
100.00	99.91	3.02	-1.91	3.6	327.7	4.6	315.7
110.00	109.86	3.51	-2.69	4.4	322.5	6.0	270.2
120.00	119.79	4.03	-3.77	5.5	316.9	7.3	291.7
130.00	129.69	4.49	-5.00	6.7	311.9	8.9	288.9
140.00	139.57	4.96	-6.53	8.2	307.2	9.6	286.2
150.00	149.41	5.47	-8.22	9.9	303.6	10.3	286.2
160.00	159.25	5.92	-9.86	11.5	301.0	10.1	280.5
170.00	169.09	6.35	-11.52	13.2	298.9	10.7	283.1
180.00	178.91	6.74	-13.36	15.0	296.8	11.0	280.4
190.00	188.73	7.12	-15.21	16.8	295.1	11.0	289.7
200.00	198.54	7.49	-17.10	18.7	293.7	11.4	279.9
210.00	208.34	7.90	-19.04	20.6	292.5	11.3	281.5
220.00	218.15	8.32	-20.94	22.5	291.7	11.1	283.7
230.00	227.96	8.77	-22.84	24.5	291.0	11.3	284.1
240.00	237.75	9.28	-24.80	26.5	290.5	11.7	285.6
250.00	247.53	9.81	-26.83	28.6	290.1	12.1	284.2
260.00	257.31	10.32	-28.85	30.6	289.7	11.6	283.9
270.00	267.10	10.79	-30.83	32.7	289.3	12.0	284.3
280.00	276.88	11.24	-32.88	34.7	288.9	12.2	281.2
290.00	286.64	11.66	-34.99	36.9	288.4	12.9	281.9
300.00	296.39	12.04	-37.19	39.1	287.9	12.8	280.1
310.00	306.15	12.41	-39.33	41.2	287.5	12.2	280.4
320.00	315.94	12.81	-41.34	43.3	287.2	11.8	283.5
330.00	325.74	13.23	-43.27	45.2	287.0	11.1	283.3
338.36	333.91	13.57	-44.82	46.8	286.8	11.0	282.4

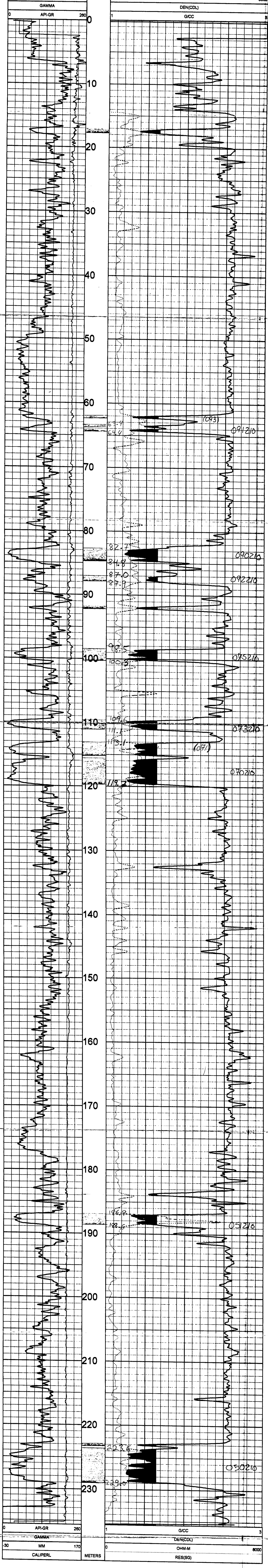
COMPANY	ELI VALLEY COAL	OTHER SERVICES:	
WELL	2939	8055	8057
FIELD	CASTLE SOUTH		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE SOUTH		
TOWNSHIP	N/A	2-C, 2-35-1-39	1-4-30-55, 7-34
RANGE	N/A		19 80-49 2
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	SL	ELEVATION IN M	N/A
LOG MEASURED FROM GL		ELEVATION OF N/A	
DRI. MEASURED FROM GL		ELEVATION GL N/A	
DATE	08/28/08		
DEPTH DRILLER	227.00		
BIT SIZE	13.00		
LOG TOP	5.21		
LOG BOTTOM	225.54		
CASING LOGGER	15.75		
CASING DRILLER	3.00		
CASING TYPE	N/A		
BORERHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

*B. M. J.*  
*Aug. 30, 2008*

**DENSITY 1:200 2939 08/28/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1:DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK



**DENSITY 1:200 2939 08/28/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1:DENSITYSHADING.0 08/23/2008      VERSION = 3.64EK

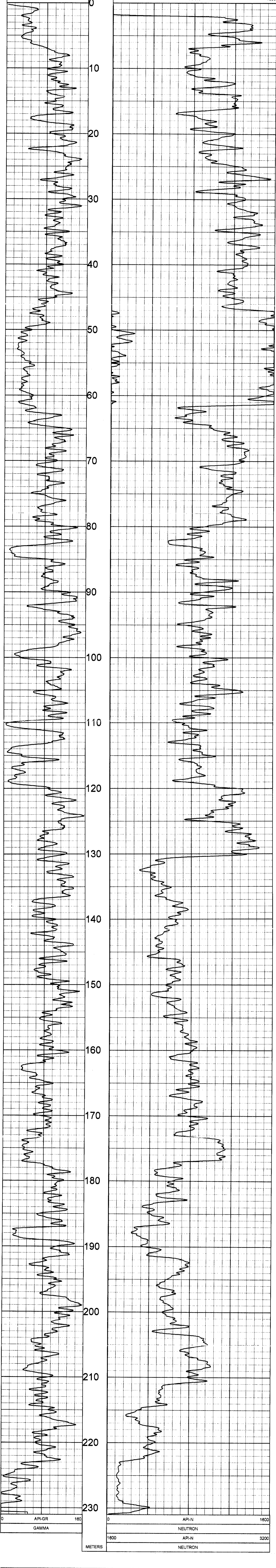
DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22,07	12:48:04	GAMMA	0.000	[API-GR] 3.00
Aug22,07	12:48:04	GAMMA	320.000	[API-GR] 7335.30
May13,08	11:07:48	VOLTAGE	32.000	[MV] 36082.90
Aug10,08	14:01:28	VOLTAGE	259.400	[MV] 283946.00
Aug10,08	14:01:28	CALIPER	158.000	[INCH] 420450.00
Aug10,08	14:01:28	CALIPER	343.000	[INCH] 39714.70
May13,08	15:57:42	DEN(LS)	1.000	[G/CC] 3856.70
May13,08	15:57:42	DEN(LS)	2.323	[G/CC] 73088.50
May13,08	15:57:55	DEN(SS)	1.000	[G/CC] 25243.80
May13,08	15:57:55	DEN(SS)	2.323	[G/CC] 118545.10
Aug24,08	13:04:07	CALIPER	100.000	[INCH] 177488.50
Aug24,08	13:04:07	CALIPER	157.500	[INCH] 7762.80
May13,08	11:09:11	CURRENT	32.000	[UA] 26347.80
May13,08	11:09:11	CURRENT	252.400	[UA] 26347.80
Aug20,07	18:08:28	F	Default	[C+S]
Aug20,07	18:08:28	X	Default	[CPS]

<b>Century</b> WIRELINE SERVICES		SLIM GAMMA-NEUTRON	
COMPANY	ELK VALLEY COAL	WELL	2939
FIELD	CASTLE SOUTH	COUNTRY	CANADA
PROVINCE	BRITISH COLUMBIA	OTHER SERVICES:	9239 9055
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	GL	ELEVATION KB N/A	
LOG MEASURED FROM	GL	ELEVATION OF N/A	
DRL MEASURED FROM	GL	ELEVATION GL N/A	
DATE	08/27/08		
DEPTH DRILLER	237.00		
BIT SIZE	13		
LOG TOP	0.29		
LOG BOTTOM	230.96		
CASING LOGGER	15.75		
CASING DRILLER	3.00		
CASING TYPE	N/A		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

NEUTRON 1:200 2939 08/27/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2939 08/27/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK

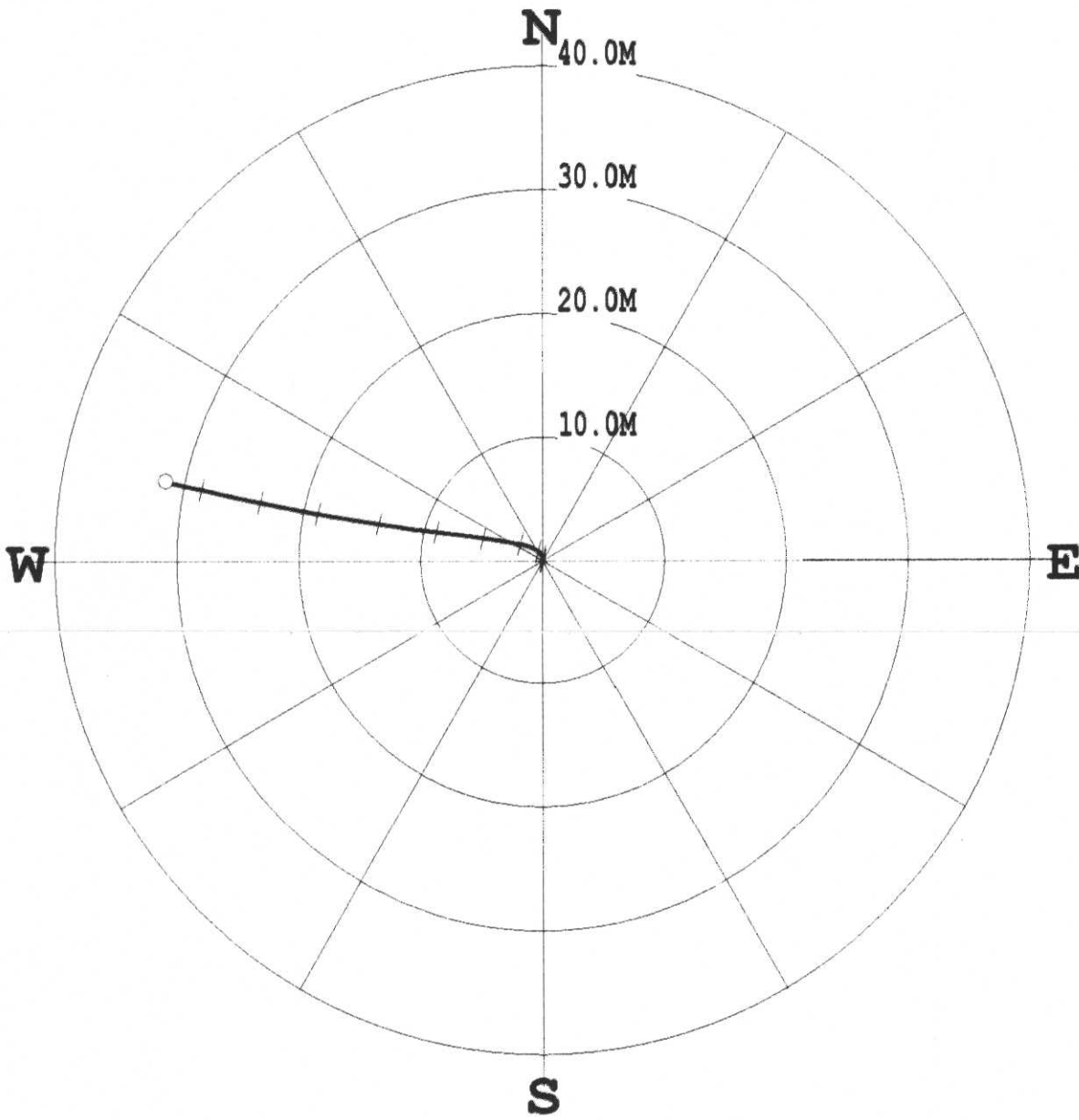
TOOL CALIBRATION 2939 08/27/08 10:39				
TOOL 9087A TM VERSION 1				
SERIAL NUMBER 530				
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
	Jul20.07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
2	Sep03.06 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2939  
 DATE OF LOG: 08/28/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 232.26 M  
 AZIMUTH: 281.8  
 DISTANCE: 31.6 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL HOLE ID. : 2939  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/28/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2939\_08-28-08\_11-51\_9055A\_.02\_5.67\_235.72\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	9.99	-0.00	0.01	0.0	109.5	0.2	103.7
20.00	19.99	0.01	0.04	0.0	73.7	0.2	340.2
30.00	29.99	0.06	0.04	0.1	31.1	0.3	343.7
40.00	39.99	0.10	0.03	0.1	16.1	0.4	11.6
50.00	49.99	0.17	0.06	0.2	20.9	0.7	23.0
60.00	59.99	0.33	0.05	0.3	9.3	1.3	339.9
70.00	69.98	0.55	-0.09	0.6	350.7	2.1	306.2
80.00	79.98	0.80	-0.36	0.9	335.6	2.8	303.7
90.00	89.96	1.07	-0.86	1.4	321.4	4.2	289.9
100.00	99.91	1.36	-1.81	2.3	306.9	6.8	281.0
110.00	109.81	1.61	-3.21	3.6	296.7	8.8	279.9
120.00	119.67	1.86	-4.82	5.2	291.1	9.5	277.6
130.00	129.51	2.11	-6.58	6.9	287.7	11.1	276.3
140.00	139.31	2.34	-8.56	8.9	285.3	12.0	277.0
150.00	149.06	2.60	-10.76	11.1	283.6	13.2	275.9
160.00	158.78	2.96	-13.11	13.4	282.7	14.1	279.0
170.00	168.47	3.35	-15.55	15.9	282.2	14.4	279.8
180.00	178.16	3.76	-17.97	18.4	281.8	14.1	279.9
190.00	187.87	4.18	-20.28	20.7	281.6	14.6	313.8
200.00	197.58	4.64	-22.56	23.0	281.6	13.7	280.4
210.00	207.28	5.12	-24.92	25.4	281.6	13.7	281.6
220.00	216.99	5.63	-27.25	27.8	281.7	13.4	282.2
230.00	226.71	6.14	-29.55	30.2	281.7	13.7	282.1
235.72	232.23	6.44	-30.88	31.5	281.8	14.3	284.9

**Century**  
WIRELINE SERVICES

**GAMMA - CALIPER**  
COMPENSATED DENSITY  
2941

COMPANY: ELK VALLEY COAL  
WELL: 2941  
FIELD: CASTLE SOUTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA  
OTHER SERVICES: 9907 9906

SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
LICENSE NO.: N/A  
UNIQUE WELL ID.: N/A  
DATE: 20080826

LOG MEASURED FROM: SL  
DRI. MEASURED FROM: SL  
ELEVATION TO N/A  
ELEVATION OF N/A

DEPTH DILLER: 251.00  
BIT SIZE: 13.00  
LOG TOP: 0.25  
LOG BOTTOM: 248.05  
CASING DILLER: 4.00  
CASING TYPE: N/A  
CASING LOGGER: 15.75

BOREHOLE FLUID: WATER  
RIM TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: 11.0  
WIMMERED BY: SCS  
RECORDED BY: M. LEBEDA  
REMARKS 1:  
REMARKS 2:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

*Oct 1, 2008*

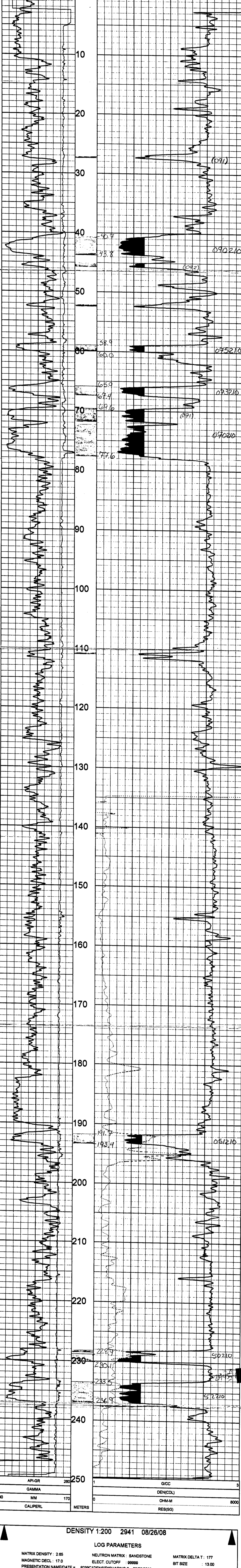
DENSITY 1:200 2941 08/26/08

LOG PARAMETERS

MATRIX DENSITY: 2.65  
MAGNETIC DECL: 17.0  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008

NEUTRON MATRIX: SANDSTONE  
ELECT. CUTOFF: 99999

MATRIX DELTA T: 177  
BIT SIZE: 13.00  
VERSION = 3.64EK



DENSITY 1:200 2941 08/26/08

LOG PARAMETERS

MATRIX DENSITY: 2.65  
MAGNETIC DECL: 17.0  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008

NEUTRON MATRIX: SANDSTONE  
ELECT. CUTOFF: 99999

MATRIX DELTA T: 177  
BIT SIZE: 13.00  
VERSION = 3.64EK

TOOL CALIBRATION 2941 08/26/08 10:18  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4443

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22.07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
	Aug22.07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
	Aug22.07 11:07:46	VOLTAGE	32.000 [MV]	7335.30 [CPS]
	May13.08 11:07:46	VOLTAGE	252.400 [MV]	3682.80 [CPS]
3	Aug10.08 14:01:26	CALIPER	159.000 [INCH]	283946.00 [CPS]
	Aug10.08 14:01:26	CALIPER	343.000 [INCH]	420450.00 [CPS]
4	May13.08 15:57:42	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
	May13.08 15:57:42	DEN(LS)	2.323 [G/CC]	3658.70 [CPS]
	May13.08 15:57:55	DEN(SS)	1.000 [G/CC]	73086.50 [CPS]
	May13.08 15:57:55	DEN(SS)	2.323 [G/CC]	25243.90 [CPS]
6	Aug24.08 13:04:07	CALIPER	100.000 [INCH]	118545.10 [CPS]
	Aug24.08 13:04:07	CALIPER	157.500 [INCH]	177488.50 [CPS]
7	May13.08 11:09:11	CURRENT	32.000 [UA]	7762.80 [CPS]
	May13.08 11:09:11	CURRENT	252.400 [UA]	28347.80 [CPS]
8	Aug20.07 16:08:26	F	Default [CPS]	
	Aug20.07 16:08:26	X	Default [CPS]	

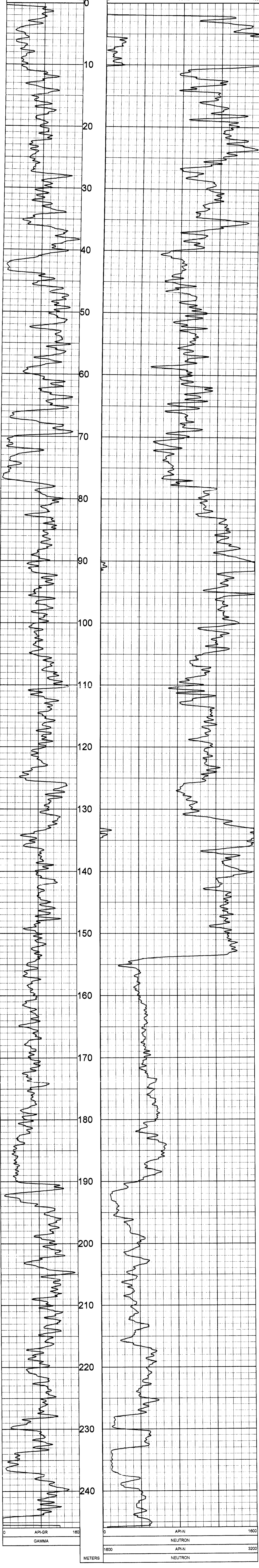


COMPANY	ELK VALLEY COAL	OTHER SERVICES	9065 9239
WELL	2941		
FIELD	CASTLE SOUTH		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE SOUTH		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATUM	GL	ELEVATION NB	N/A
LOG MEASURED FROM	GL	ELEVATION DE	N/A
DBL MEASURED FROM	GL	ELEVATION GL	N/A
DATE	08/25/08		
DEPTH DRILLER	251.00		
BIT SIZE	13		
LOG TOP	0.33		
LOG BOTTOM	248.94		
CASING LOGGER	15.75		
CASING DRILLER	6.00		
CASING TYPE	N/A		
BORHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	M. LEBEDA		
REMARKS 1			
REMARKS 2			

NEUTRON 1:200 2941 08/25/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK



NEUTRON 1:200 2941 08/25/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9087A.0 08/24/2008      VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20 07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
2	Jul20 07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
1	Sep03 06 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
2	Sep03 06 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

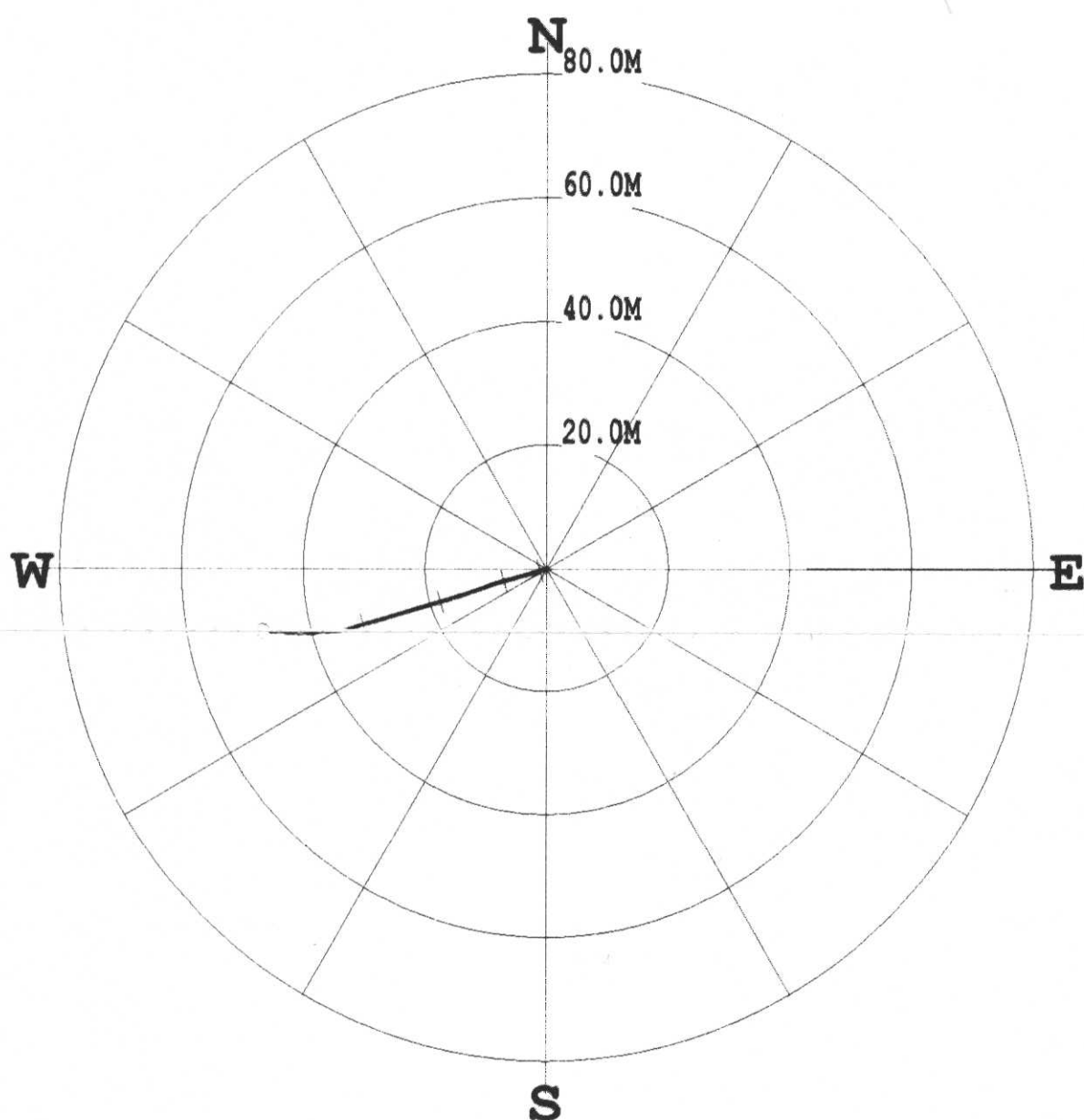
TOOL CALIBRATION 2941 08/25/08 19:50  
 TOOL 9087A TM VERSION 1  
 SERIAL NUMBER 530

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2941  
 DATE OF LOG: 08/26/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 243.30 M  
 AZIMUTH: 257.7  
 DISTANCE: 47.8 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2941  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/26/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2941\_08-26-08\_09-22\_9055A\_02\_7.87\_249.88\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	9.99	-0.00	-0.00	0.0	184.9	0.4	181.0
20.00	19.99	-0.03	0.01	0.0	156.6	0.3	141.6
30.00	29.99	-0.03	-0.05	0.1	239.9	1.0	268.5
40.00	39.98	-0.08	-0.46	0.5	260.7	3.3	251.5
50.00	49.96	-0.25	-1.08	1.1	256.9	4.3	251.1
60.00	59.92	-0.53	-1.95	2.0	254.8	5.2	226.3
70.00	69.84	-0.86	-3.07	3.2	254.4	7.1	253.5
80.00	79.76	-1.17	-4.26	4.4	254.7	7.5	253.0
90.00	89.67	-1.56	-5.55	5.8	254.3	8.1	252.1
100.00	99.56	-1.93	-6.95	7.2	254.4	8.4	254.3
110.00	109.44	-2.37	-8.48	8.8	254.4	10.0	251.5
120.00	119.24	-3.03	-10.31	10.7	253.6	12.0	249.3
130.00	128.98	-3.76	-12.46	13.0	253.2	13.7	252.6
140.00	138.68	-4.50	-14.76	15.4	253.1	13.9	252.2
150.00	148.39	-5.20	-17.07	17.8	253.1	13.8	253.3
160.00	158.10	-5.86	-19.35	20.2	253.2	13.5	253.7
170.00	167.81	-6.54	-21.63	22.6	253.2	14.0	252.6
180.00	177.50	-7.26	-24.01	25.1	253.2	14.7	253.4
190.00	187.15	-8.02	-26.53	27.7	253.2	15.9	252.8
200.00	196.75	-8.80	-29.20	30.5	253.2	16.5	252.9
210.00	206.32	-9.64	-32.00	33.4	253.2	17.6	253.4
220.00	215.80	-10.30	-35.10	36.6	253.6	19.5	262.5
230.00	225.15	-10.53	-38.63	40.0	254.8	21.7	268.8
240.00	234.36	-10.52	-42.52	43.8	256.1	23.8	271.1
249.88	243.27	-10.22	-46.69	47.8	257.6	26.3	276.4

COMPANY: ELK VALLEY COAL  
WELL: 2942  
FIELD: CASTLE SOUTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA  
LOCATION: CASTLE SOUTH  
SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
APRNO: N/A  
LINKOUT WELL ID:

OTHER SERVICES:  
9807  
9095

26 23 5.093  
14 752.130  
191.529

PERMANENT DWTUM: SL  
LOG MEASURED FROM: SL  
DRL MEASURED FROM: SL  
ELEVATION ID: N/A  
ELEVATION OF N/A  
ELEVATION OF: N/A

DATE: 08/23/08  
DEPTH DRILLER: 247.90  
BIT SIZE: 13.00  
LOG TOP: 0.37  
LOG BOTTOM: 246.18  
CASING OD: 15.75  
CASING BOTTOM: 9.00

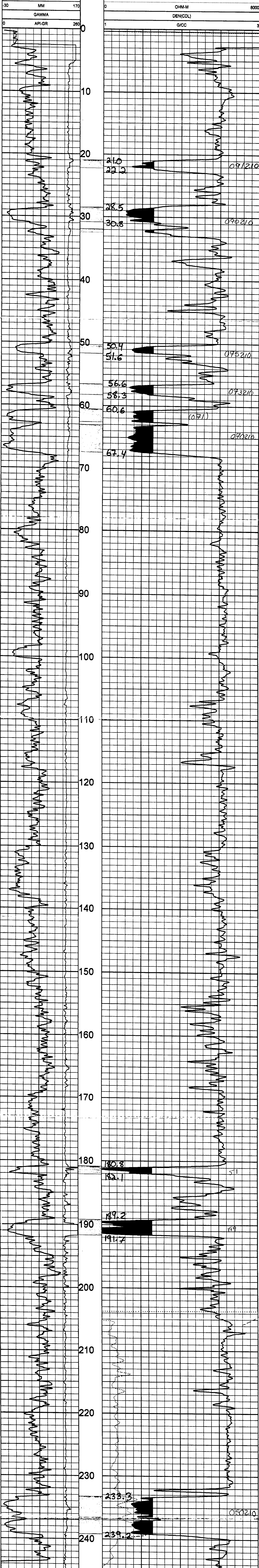
CASING TYPE: N/A  
BORINGHOLE FLUID: WATER  
FM TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: 1.0  
WITNESSED BY: J. GRESCHUK  
RECORDED BY: J. GRESCHUK  
REMARKS 1:  
REMARKS 2:

*B. Whitt*  
Sept. 30, 2008

DENSITY 1:200 2942 08/24/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2942 08/24/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

TOOL CALIBRATION 2942 08/24/08 13:17  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4443

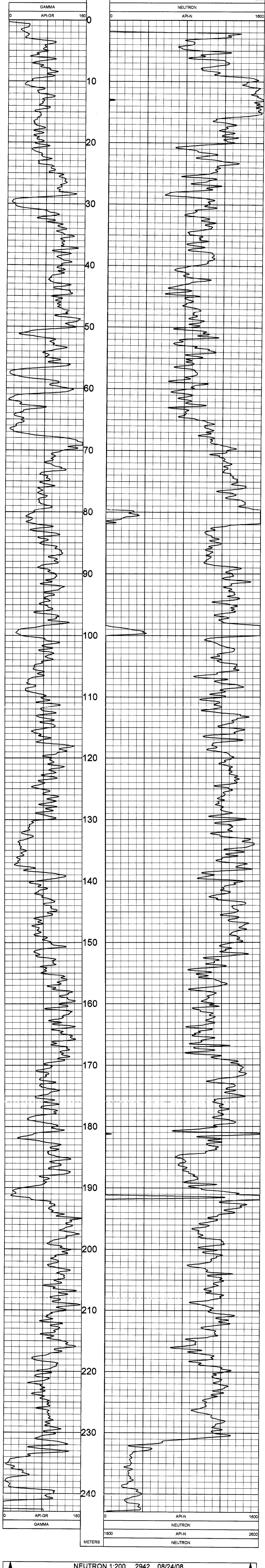
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
1	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	7335.30 [CPS]
2	May13,08 11:07:48	VOLTAGE	252.400 [MV]	36082.80 [CPS]
3	Aug10,08 14:01:28	CALIPER	159.000 [INCH]	283948.00 [CPS]
3	Aug10,08 14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
4	May13,08 15:57:42	DEN(LS)	1.000 [G/CC]	38714.70 [CPS]
4	May13,08 15:57:42	DEN(LS)	2.323 [G/CC]	3656.70 [CPS]
5	May13,08 15:57:55	DEN(SS)	1.000 [G/CC]	73083.50 [CPS]
5	May13,08 15:57:55	DEN(SS)	2.323 [G/CC]	25243.90 [CPS]
6	Aug24,08 13:04:07	CALIPERL	100.000 [INCH]	118545.10 [CPS]
6	Aug24,08 13:04:07	CALIPERL	157.500 [INCH]	177486.50 [CPS]
7	May13,08 11:08:11	CURRENT	32.000 [UA]	7782.80 [CPS]
7	May13,08 11:08:11	CURRENT	252.400 [UA]	26347.60 [CPS]
8	Aug20,07 16:08:26	F	Default [CPS]	
9	Aug20,07 16:08:26	X	Default [CPS]	

COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	2942	9065	9239
FIELD	CASTLE SOUTH		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE SOUTH		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	SL	ELEVATION AB N/A	
LOG MEASURED FROM GL		ELEVATION OF N/A	
DRL MEASURED FROM SL		ELEVATION GL N/A	
DATE	08/24/08		
DEPTH DRILLER	247.5		
BIT SIZE	13		
LOG TOP	0.30		
LOG BOTTOM	242.88		
CASING OD	15.75		
CASING BOTTOM	8		
CASING TYPE	N/A		
BORHOLE FLUID	WATER		
BM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	J. GRESCHUK		
REMARKS 1			
REMARKS 2			

NEUTRON 1:200 2942 08/24/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13
PRESENTATION NAME/DATE = 9067A.0 08/22/2008		VERSION = 3.64EK



NEUTRON 1:200 2942 08/24/08

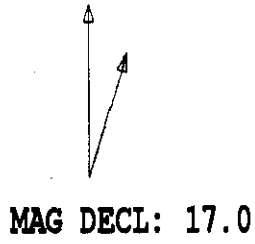
LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13
PRESENTATION NAME/DATE = 9067A.0 08/22/2008		VERSION = 3.64EK

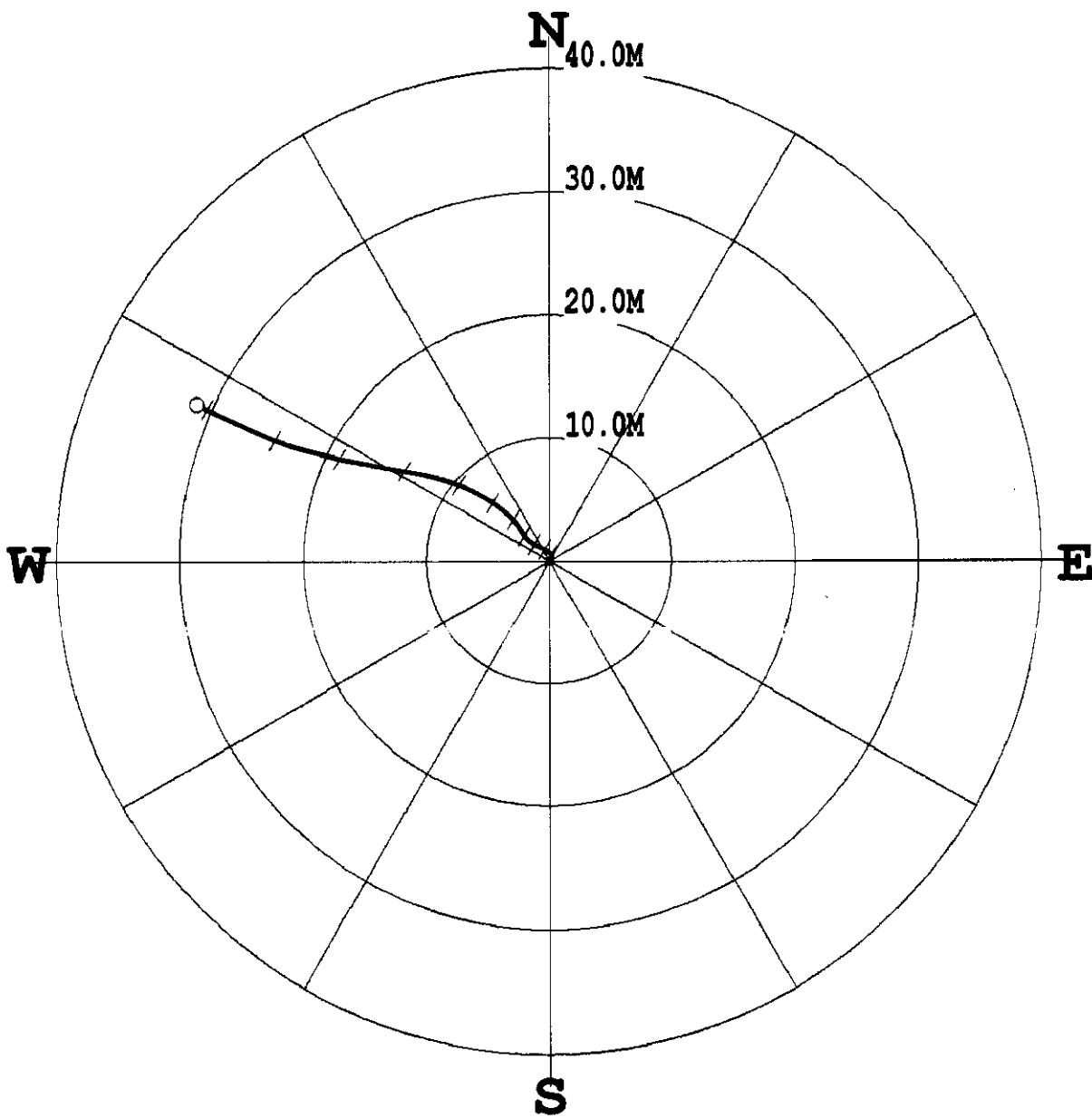
TOOL CALIBRATION 2942 08/24/08 02:15			
TOOL 9067A TM VERSION 1			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul20,07 01:44:30	GAMMA	1.000 [API-GR ]
	Jul20,07 01:44:30	GAMMA	250.000 [API-GR ]
2	Sep03,06 10:47:15	NEUTRON	1.000 [API-N ]
	Sep03,06 10:47:15	NEUTRON	500.000 [API-N ]
			RESPONSE
			1.00 [CPS]
			52.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2942  
 DATE OF LOG: 08/24/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 242.85 M  
 AZIMUTH: 293.9  
 DISTANCE: 31.3 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2942  
 FIELD OFFICE : CENTURY GEO                      DATE OF LOG : 08/24/08  
 DATA FROM : N/A                                      PROBE : 9055A , 72  
 MAG. DECL. : 17.000                                  DEPTH UNITS : METERS  
 LOG: 2942\_08-24-08\_12-23\_9055A\_.02\_8.26\_246.34\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.01	0.00	0.0	29.0	1.0	38.1
20.00	20.00	0.18	0.10	0.2	28.9	1.1	22.6
30.00	30.00	0.34	0.15	0.4	24.5	0.8	12.9
40.00	39.99	0.50	0.14	0.5	16.0	1.3	331.6
50.00	49.99	0.72	-0.06	0.7	355.5	2.2	307.6
60.00	59.98	0.94	-0.39	1.0	337.7	2.4	294.1
70.00	69.97	1.14	-0.79	1.4	325.3	2.6	288.5
80.00	79.96	1.35	-1.24	1.8	317.4	3.0	293.9
90.00	89.95	1.62	-1.66	2.3	314.3	2.8	300.4
100.00	99.93	2.07	-2.05	2.9	315.2	4.1	320.5
110.00	109.90	2.66	-2.46	3.6	317.3	4.3	327.4
120.00	119.87	3.33	-2.93	4.4	318.6	5.1	320.7
130.00	129.82	4.01	-3.64	5.4	317.8	6.4	307.7
140.00	139.75	4.70	-4.56	6.5	315.9	7.3	303.8
150.00	149.65	5.43	-5.76	7.9	313.3	8.8	298.6
160.00	159.51	6.14	-7.26	9.5	310.2	10.3	290.9
170.00	169.31	6.76	-9.16	11.4	306.4	12.7	286.2
180.00	179.02	7.28	-11.51	13.6	302.3	14.8	279.8
190.00	188.67	7.72	-14.06	16.0	298.8	14.6	280.8
200.00	198.35	8.22	-16.55	18.5	296.4	14.8	281.7
210.00	208.00	8.83	-19.09	21.0	294.8	15.0	284.8
220.00	217.64	9.58	-21.62	23.6	293.9	15.6	289.1
230.00	227.25	10.64	-24.20	26.4	293.7	16.7	294.6
240.00	236.80	11.88	-26.88	29.4	293.8	17.1	295.2
246.34	242.81	12.70	-28.59	31.3	294.0	18.1	295.8

COMPANY: **EAT VALLEY COAL**  
WELL: **2944**  
FIELD: **CASTLE SOUTH**  
COUNTRY: **CANADA**  
OTHER SERVICES: **8955 8957**

PROVINCE: **BRITISH COLUMBIA**  
LOCATION: **CASTLE SOUTH**  
SECTION: **N/A**  
TOWNSHIP: **N/A**  
RANGE: **N/A**

APR NO: **N/A**  
UNIQUE WELL ID: **N/A**  
PERMANENT DATUM: **31**  
LOG MEASURED FROM: **GL**  
DRL MEASURED FROM: **GL**

ELEVATION TO NN: **26343.281**  
ELEVATION OF NN: **144585.593**  
ELEVATION OF NN: **1936.321**

DATE: **08/23/08**  
DEPTH DRILLER: **292**  
BIT SIZE: **13.00**  
LOG TOP: **0.22**  
LOG BOTTOM: **251.88**  
CASING OD: **15.75**  
CASING BOTTOM: **8**

CASING TYPE: **N/A**  
BORHOLE FLUID: **WATER**  
MUD RES: **N/A**  
MUD WEIGHT: **1.0**  
WITNESSED BY: **SOS**  
RECORDED BY: **J.GRESCHUK**  
REMARKS 1:  
REMARKS 2:

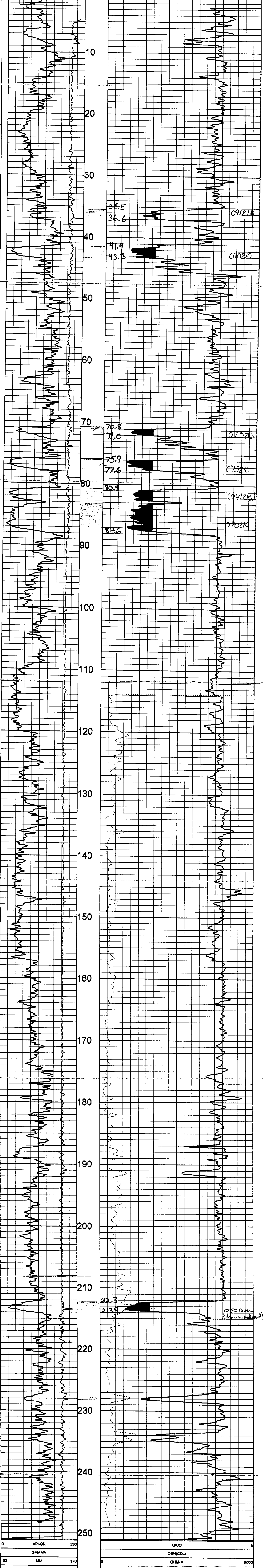
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

*B. G. G. G.*  
*Aug 30, 2008*

**DENSITY 1:200 2944 08/23/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.85 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



**DENSITY 1:200 2944 08/23/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.85 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

TOOL CALIBRATION 2944 08/23/08 13:16  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4443

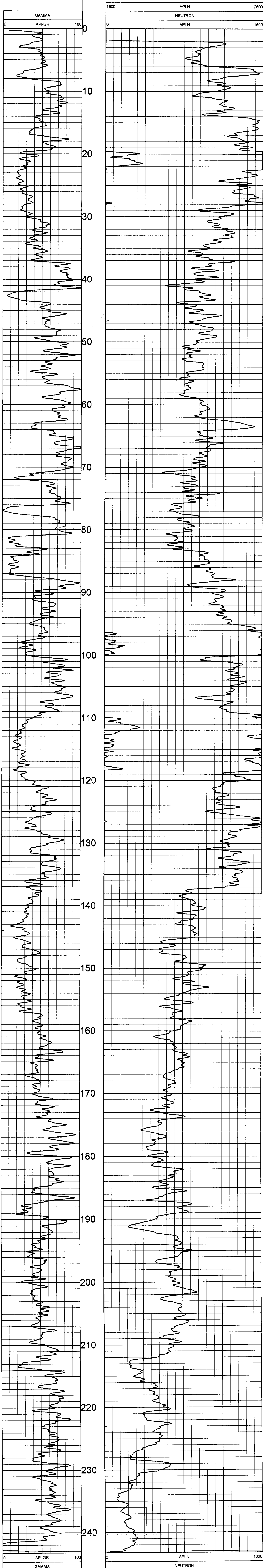
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	3.00 [CPS]
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	304.00 [CPS]
2	May13,08 11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
2	May13,08 11:07:48	VOLTAGE	252.400 [MV]	36082.80 [CPS]
3	Aug10,08 14:01:28	CALIPER	159.000 [INCH]	283948.00 [CPS]
3	Aug10,08 14:01:28	CALIPER	343.000 [INCH]	39714.70 [CPS]
4	Aug10,08 14:01:28	DEN(LS)	1.000 [G/CC]	3656.70 [CPS]
4	Aug10,08 14:01:28	DEN(LS)	2.323 [G/CC]	73068.50 [CPS]
5	May13,08 15:57:42	DEN(SS)	1.000 [G/CC]	25243.80 [CPS]
5	May13,08 15:57:42	DEN(SS)	2.323 [G/CC]	215257.50 [CPS]
6	Aug20,08 13:22:34	CALIPERL	157.500 [INCH]	178257.50 [CPS]
6	Aug20,08 13:22:34	CALIPERL	200.000 [INCH]	215257.50 [CPS]
7	May13,08 11:08:11	CURRENT	32.000 [UA]	7782.80 [CPS]
7	May13,08 11:08:11	CURRENT	252.400 [UA]	26347.80 [CPS]
8	Aug20,07 16:08:28	F	Default [CPS]	
9	Aug20,07 16:08:28	X	Default [CPS]	

<b>Century</b> WIRELINE SERVICES		SLIM GAMMA-NEUTRON	
COMPANY	ELK VALLEY COAL	WELL	2944
FIELD	CASTLE SOUTH	COUNTRY	CANADA
PROVINCE	BRITISH COLUMBIA	OTHER SERVICES:	9955 9239
LOCATION	CASTLE SOUTH	SECTION	N/A
TOWNSHIP	N/A	RANGE	N/A
RANGE	N/A	API NO.	N/A
UNIQUE WELL ID.		ELEVATION KB N/A	
PERMANENT DATALOG	SL	ELEVATION DF N/A	
LOG MEASURED FROM	GL	ELEVATION GL N/A	
DATE	08/22/08		
DEPTH DRILLER	252		
BIT SIZE	13		
LOG TOP	9.39		
LOG BOTTOM	243.20		
CASING OD	15.75		
CASING BOTTOM	8		
CASING TYPE	N/A	WATER	N/A
BORINGHOLE FLUID	N/A	RM TEMPERATURE	N/A
MUD RES	N/A	MUD WEIGHT	1.10
WITNESSED BY	SJS	RECORDED BY	J. GRESCHUK
REMARKS 1		REMARKS 2	

NEUTRON 1:200 2944 08/22/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.0 08/22/2008      VERSION = 3.64EK



NEUTRON 1:200 2944 08/22/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.0 08/22/2008      VERSION = 3.64EK

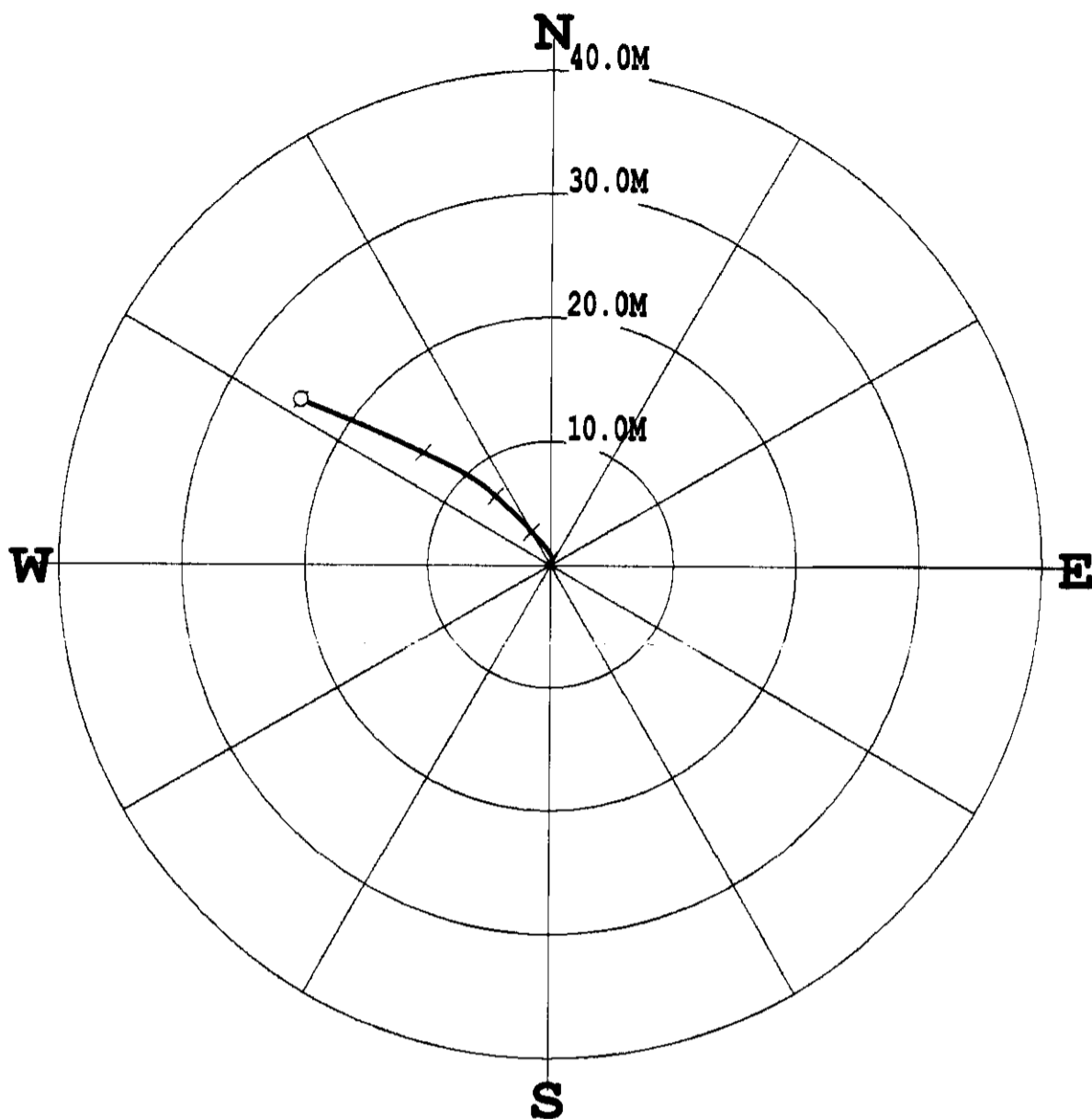
TOOL CALIBRATION 2944 08/22/08 14:20			
TOOL 9087A TM VERSION 1			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	JUL20.07 01:44:30	GAMMA	1.000 [API-GR ]
	JUL20.07 01:44:30	GAMMA	250.000 [API-GR ]
2	Sep03.06 10:47:15	NEUTRON	1.000 [API-N ]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N ]
			RESPONSE
			1.00 [CPS]
			52.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2944  
 DATE OF LOG: 08/23/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 249.02 M  
 AZIMUTH: 303.2  
 DISTANCE: 24.3 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2944  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/23/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2944\_08-23-08\_12-14\_9055A\_02\_8.20\_250.96\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.00	0.00	0.0	38.0	1.0	60.1
20.00	20.00	0.14	0.09	0.2	33.1	0.8	17.7
30.00	30.00	0.29	0.14	0.3	25.7	0.8	24.4
40.00	40.00	0.44	0.16	0.5	20.0	0.8	3.4
50.00	49.99	0.61	0.13	0.6	12.3	1.3	340.7
60.00	59.99	0.88	0.01	0.9	0.6	1.9	331.4
70.00	69.98	1.27	-0.25	1.3	348.7	2.9	315.4
80.00	79.96	1.71	-0.61	1.8	340.4	3.8	321.3
90.00	89.94	2.20	-1.06	2.4	334.3	3.9	316.3
100.00	99.91	2.70	-1.54	3.1	330.3	4.2	315.5
110.00	109.89	3.23	-2.05	3.8	327.6	4.7	317.8
120.00	119.86	3.81	-2.60	4.6	325.7	4.7	317.0
130.00	129.82	4.39	-3.21	5.4	323.9	5.0	313.8
140.00	139.78	4.95	-3.82	6.3	322.3	5.0	312.0
150.00	149.75	5.54	-4.47	7.1	321.1	5.0	311.0
160.00	159.70	6.14	-5.18	8.0	319.9	6.0	307.9
170.00	169.64	6.80	-6.09	9.1	318.1	7.0	302.1
180.00	179.55	7.49	-7.22	10.4	316.1	8.3	300.3
190.00	189.43	8.21	-8.59	11.9	313.7	10.1	299.1
200.00	199.26	9.01	-10.26	13.7	311.3	10.7	295.3
210.00	209.07	9.82	-12.02	15.5	309.2	11.4	295.4
220.00	218.86	10.66	-13.87	17.5	307.5	12.1	292.9
230.00	228.61	11.51	-15.89	19.6	305.9	13.1	292.1
240.00	238.35	12.36	-18.01	21.8	304.5	13.4	290.9
250.00	248.08	13.22	-20.14	24.1	303.3	13.1	294.4
250.96	248.98	13.31	-20.33	24.3	303.2	13.0	293.5



**Centrum** GAMMA - CALPER  
 WIRELINE SERVICES COMPENSATED DENSITY 2945

COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	2945		
FIELD	CASTLE SOUTH		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE SOUTH		
TOWNSHIP	N4		
RANGE	N4		
LICENCE NO.			
UNIQUE WELL ID			
PREPARMENT STATUS	S/L		
LOG MEASURED FROM Q/L			
LOG MEASURED FROM D/L			
DEPTH D/BLETT	0327/98		
BRIG/CR	432/00		
LOG DATE	13/08		
LOG TIME	03:27		
LOG TOOL	431/98		
LOG BOT/TOA	-15/28		
CASING DEPTER	3/30		
CASING DEPTER	N/A		
CASING DEPTER	N/A		
CONCRETE TYPE	N/A		
CONCRETE TYPE	N/A		
CONCRETE TYPE	N/A		
TEMPERATURE	N/A		
TEMPERATURE	N/A		
TEMPERATURE	N/A		
WIND WEIGHT	1/35		
WIND WEIGHT	2/35		
RECORDED BY	M. LEBLANC		
REMARKS 1			
REMARKS 2			

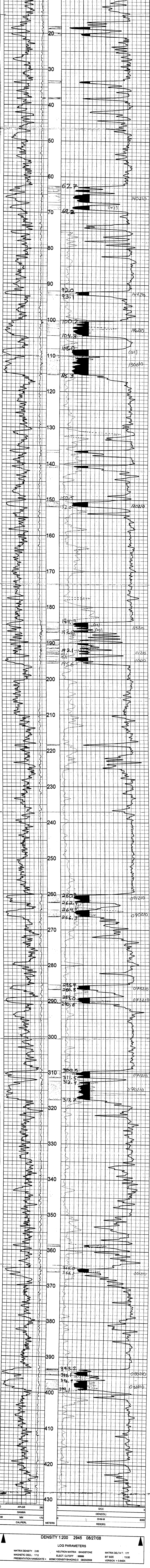
*Sep 30, 2008*  
*f. M...*

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

DENSITY 1:200 2945 08/27/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.0 ELECT CUTOFF: 99999 BIT SIZE: 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING 0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2945 08/27/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.0 ELECT CUTOFF: 99999 BIT SIZE: 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING 0 08/23/2008 VERSION = 3.64EK

TOOL CALIBRATION 2945 08/27/08 13:26				
TOOL #239C1 TM VERSION 2018				
SERIAL NUMBER 4443				
DATE	TIME	SENSOR	STANDARD	
1	Aug22.07	12:48:04	GAMMA 0 0000 [API-GR]	3.00
1	Aug22.07	12:48:04	GAMMA 320 000 [API-GR]	304.00
2	May13.08	11:07:48	VOLTAGE 1	7335.50 [CPS]
2	May13.08	11:07:48	VOLTAGE 252 400 [MV]	283946.00 [CPS]
3	Aug10.08	14:01:28	CALPER 159 000 [INCH]	420450.00 [CPS]
3	Aug10.08	14:01:28	CALPER 343 000 [INCH]	3571.47 [CPS]
4	May13.08	15:57:42	DEN(LS) 1.033 [G/CC]	3656.70 [CPS]
4	May13.08	15:57:42	DEN(LS) 2.323 [G/CC]	73088.50 [CPS]
5	May13.08	15:57:55	DEN(SS) 1.030 [G/CC]	35243.80 [CPS]
5	May13.08	15:57:55	DEN(SS) 2.523 [G/CC]	118545.10 [CPS]
6	Aug24.08	13:04:07	CALPER 100 000 [INCH]	177488.50 [CPS]
7	Aug24.08	13:04:07	CALPER 197 500 [INCH]	118545.10 [CPS]
8	May13.08	11:09:11	CURRENT 32 000 [UA]	7762.80 [CPS]
9	May13.08	11:09:11	CURRENT 252 400 [UA]	28347.60 [CPS]
9	Aug20.07	18:08:26	F Default [CPS]	
9	Aug20.07	18:08:26	X Default [CPS]	

COMPANY: ELK VALLEY COAL  
WELL: 2945  
FIELD: CASTLE SOUTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA  
OTHER SERVICES: 9065 9239

SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
LICENSE NO.: N/A

UNIQUE WELL ID.:  
PERMANENT DATUM: SL  
LOG MEASURED FROM SL:  
DIR. MEASURED FROM SL:  
DATE: 08/24/2008  
DEPTH: 433.00  
DEPTH DILLER: 952958

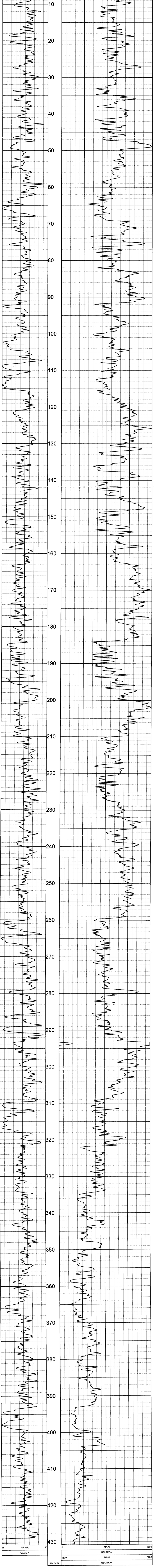
BIT SIZE: 13  
LOG TOP: 43.75  
LOG BOTTOM: 432.75  
CASING LOGGER: 15/2  
CASING DIETER: 3.00  
BONDHOLE FLUID: WATER  
CANNING TYPE: N/A  
FMI TEMPERATURE: N/A  
FMI WEIGHT: N/A  
MULTI WEIGHT: 1.0  
UNWEIGHTED BY: SPS  
RECORDED BY: M. LEBENA  
REMARKS 1:  
REMARKS 2:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

**NEUTRON 1:200 2945 08/26/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.85      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
MAGNETIC DECL.: 17.0      ELECT. CUTOFF: 96999      BIT SIZE: 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK



**NEUTRON 1:200 2945 08/26/08**

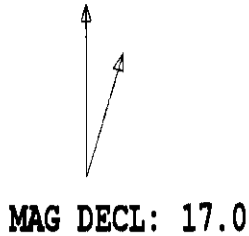
**LOG PARAMETERS**

MATRIX DENSITY: 2.85      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
MAGNETIC DECL.: 17.0      ELECT. CUTOFF: 96999      BIT SIZE: 13  
PRESENTATION NAME/DATE = 9067A.0 08/24/2008      VERSION = 3.64EK

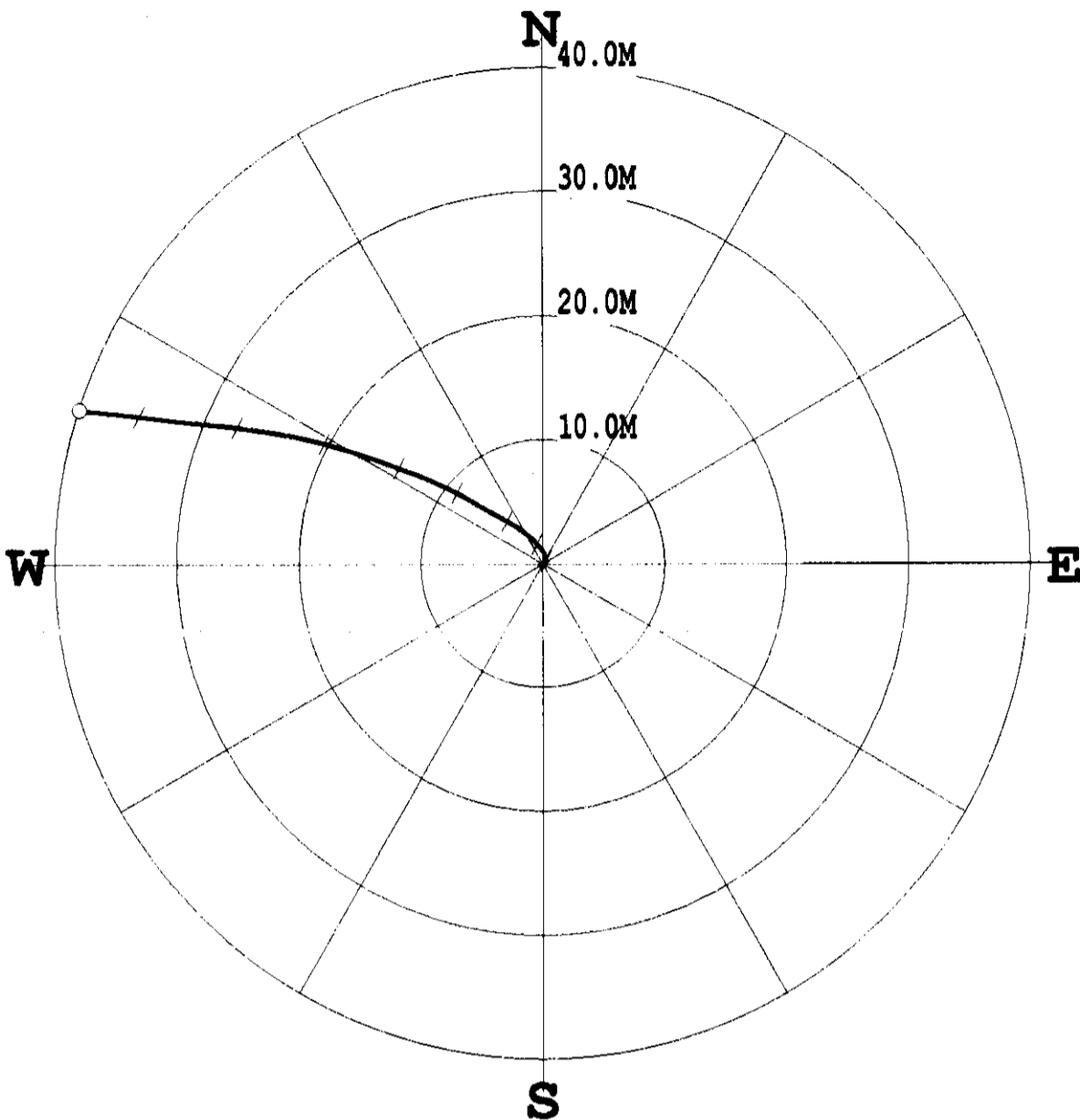
TOOL CALIBRATION 2945 08/26/08 07:31		SENSOR		STANDARD		RESPONSE	
1	DATE	TIME	GAMMA	1000	[API-GR]	1.00	[CPS]
2	JUL20/07	01:44:30	GAMMA	250 000	[API-GR]	52.00	[CPS]
	Sep03/08	10:47:15	NEUTRON	1 000	[API-N 1]	1.00	[CPS]
	Sep03/08	10:47:15	NEUTRON	500 000	[API-N 1]	500.00	[CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2945  
 DATE OF LOG: 08/27/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 429.13 M  
 AZIMUTH: 288.1  
 DISTANCE: 39.9 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2945  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/27/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2945\_08-27-08\_12-08\_9055A\_02\_6.90\_431.75\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
10.00	10.00	-0.00	0.00	0.0	136.7	0.6	71.7
20.00	20.00	-0.00	0.07	0.1	93.3	0.5	55.2
30.00	30.00	0.01	0.16	0.2	86.7	0.7	65.2
40.00	40.00	0.10	0.24	0.3	68.0	1.0	19.0
50.00	50.00	0.26	0.28	0.4	47.3	1.1	6.4
60.00	59.99	0.44	0.27	0.5	31.7	1.2	350.4
70.00	69.99	0.66	0.22	0.7	18.4	2.3	343.3
80.00	79.99	0.94	0.08	0.9	5.0	2.3	328.6
90.00	69.98	1.26	-0.16	1.3	353.0	2.3	321.6
100.00	99.97	1.61	-0.45	1.7	344.4	2.8	317.6
110.00	109.96	1.98	-0.80	2.1	337.9	3.1	312.2
120.00	119.94	2.34	-1.23	2.6	332.3	3.5	311.1
130.00	129.92	2.73	-1.75	3.2	327.3	3.7	305.5
140.00	139.90	3.09	-2.31	3.9	323.2	3.8	302.7
150.00	149.87	3.42	-2.90	4.5	319.8	4.3	294.8
160.00	159.84	3.78	-3.56	5.2	316.7	5.3	302.4
170.00	169.80	4.21	-4.35	6.1	314.1	5.1	298.8
180.00	179.75	4.68	-5.18	7.0	312.1	5.8	297.7
190.00	189.70	5.20	-6.09	8.0	310.5	6.1	300.4
200.00	199.64	5.69	-7.00	9.0	309.1	5.7	298.3
210.00	209.60	6.12	-7.87	10.0	307.9	5.4	293.3
220.00	219.55	6.52	-8.72	10.9	306.8	5.4	295.4
230.00	229.50	6.91	-9.63	11.9	305.6	6.0	288.4
240.00	239.44	7.28	-10.63	12.9	304.4	6.6	293.5
250.00	249.37	7.67	-11.71	14.0	303.3	6.8	290.3
260.00	259.30	8.09	-12.83	15.2	302.2	6.9	290.3
270.00	269.23	8.49	-13.96	16.3	301.3	7.1	289.0
280.00	279.14	8.88	-15.17	17.6	300.4	7.2	287.8
290.00	289.05	9.29	-16.44	18.9	299.5	7.8	288.4
300.00	298.96	9.67	-17.75	20.2	298.6	7.8	286.1
310.00	308.87	9.98	-19.08	21.5	297.6	7.9	283.3
320.00	318.77	10.27	-20.41	22.8	296.7	7.9	280.5
330.00	328.67	10.52	-21.80	24.2	295.8	8.2	280.5
340.00	338.57	10.74	-23.25	25.6	294.8	8.7	279.3
350.00	348.44	10.96	-24.79	27.1	293.9	9.5	278.3
360.00	358.32	11.14	-26.37	28.6	292.9	9.4	276.0
370.00	368.19	11.30	-27.94	30.1	292.0	9.2	276.0
380.00	378.06	11.47	-29.53	31.7	291.2	9.1	275.7
390.00	387.93	11.66	-31.14	33.3	290.5	9.9	277.6
400.00	397.80	11.84	-32.74	34.8	289.9	9.0	276.7
410.00	407.67	12.02	-34.32	36.4	289.3	9.2	275.3
420.00	417.54	12.19	-35.95	38.0	288.7	9.6	276.2
430.00	427.39	12.35	-37.63	39.6	288.2	9.8	276.6
431.76	429.09	12.37	-37.92	39.9	288.1	9.8	274.6



**GAMMA - CALIPER  
COMPENSATED DENSITY**  
2946

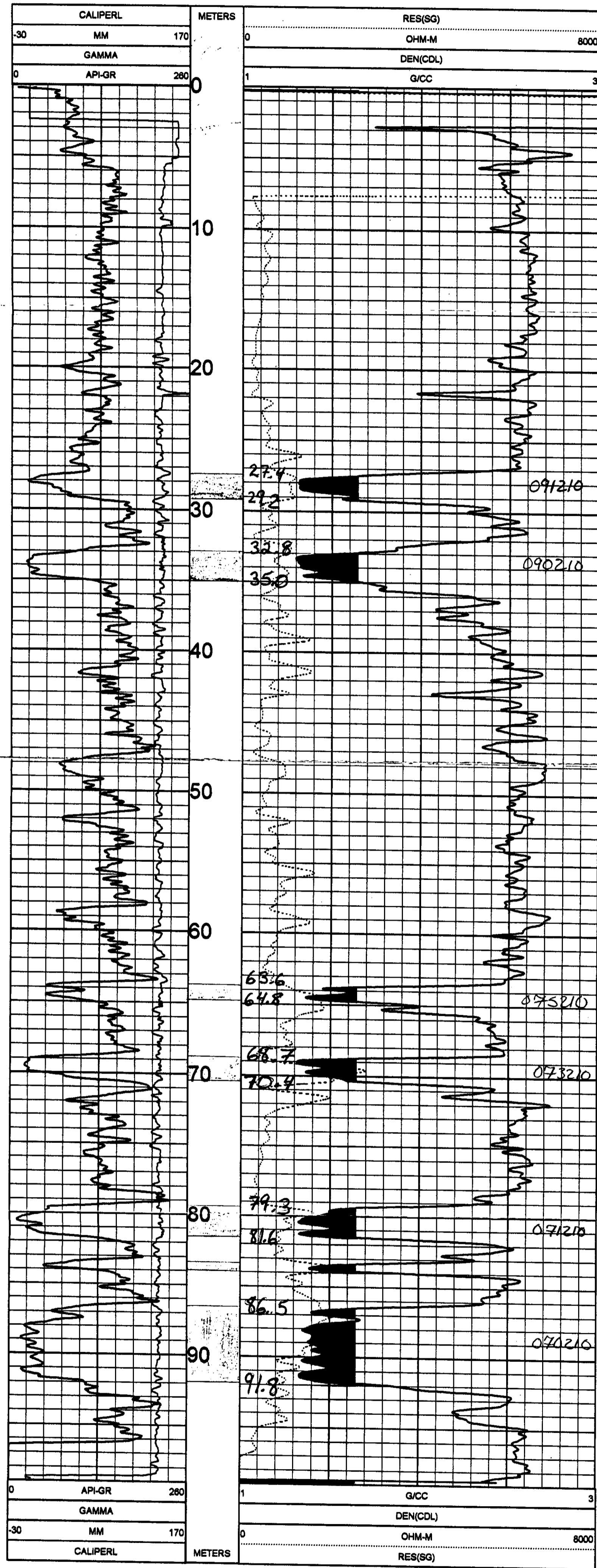
COMPANY	ELK VALLEY COAL	OTHER SERVICES:	
WELL	2946	9087	
FIELD	CASTLE SOUTH	9055	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE SOUTH		
SECTION	N/A		26602277
TOWNSHIP	N/A		143849.091
RANGE	N/A		1823.567
API NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	SL	ELEVATION IN N/A	
LOG MEASURED FROM	SL	ELEVATION OF N/A	
ORL MEASURED FROM	SL	ELEVATION SL N/A	
DATE	08/20/08		
DEPTH DRILLER	100		
BIT SIZE	13.00		
LOG TOP	9.23		
LOG BOTTOM	98.94		
CASING OD	15.75		
CASING BOTTOM	9		
CASING TYPE	N/A		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	J. GRESCHUK		
REMARKS 1			
REMARKS 2			

*B. White*  
*Sept. 20, 2008*

DENSITY 1:200 2946 08/20/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/18/2008		VERSION = 3.64EK



DENSITY 1:200 2946 08/20/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/18/2008		VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
2	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
3	May13,08 11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
3	May13,08 11:07:48	VOLTAGE	252.400 [MV]	38082.80 [CPS]
3	Aug10,08 14:01:28	CALIPER	159.000 [INCH]	283948.00 [CPS]
3	Aug10,08 14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
4	May13,08 15:57:42	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
4	May13,08 15:57:42	DEN(LS)	2.323 [G/CC]	3658.70 [CPS]
5	May13,08 15:57:55	DEN(SS)	1.000 [G/CC]	73088.50 [CPS]
5	May13,08 15:57:55	DEN(SS)	2.323 [G/CC]	25243.90 [CPS]
6	May13,08 10:58:05	CALIPER	100.000 [INCH]	112403.20 [CPS]
6	May13,08 10:58:05	CALIPER	200.000 [INCH]	215587.50 [CPS]
7	May13,08 11:09:11	CURRENT	32.000 [UA]	7762.80 [CPS]
7	May13,08 11:09:11	CURRENT	252.400 [UA]	28347.60 [CPS]
8	Aug20,07 18:08:26	F	Default [CPS]	
9	Aug20,07 18:08:26	X	Default [CPS]	

TOOL CALIBRATION 2946 08/20/08 11:22  
TOOL 9239C1 TM VERSION 2018  
SENSOR NUMBER 4443

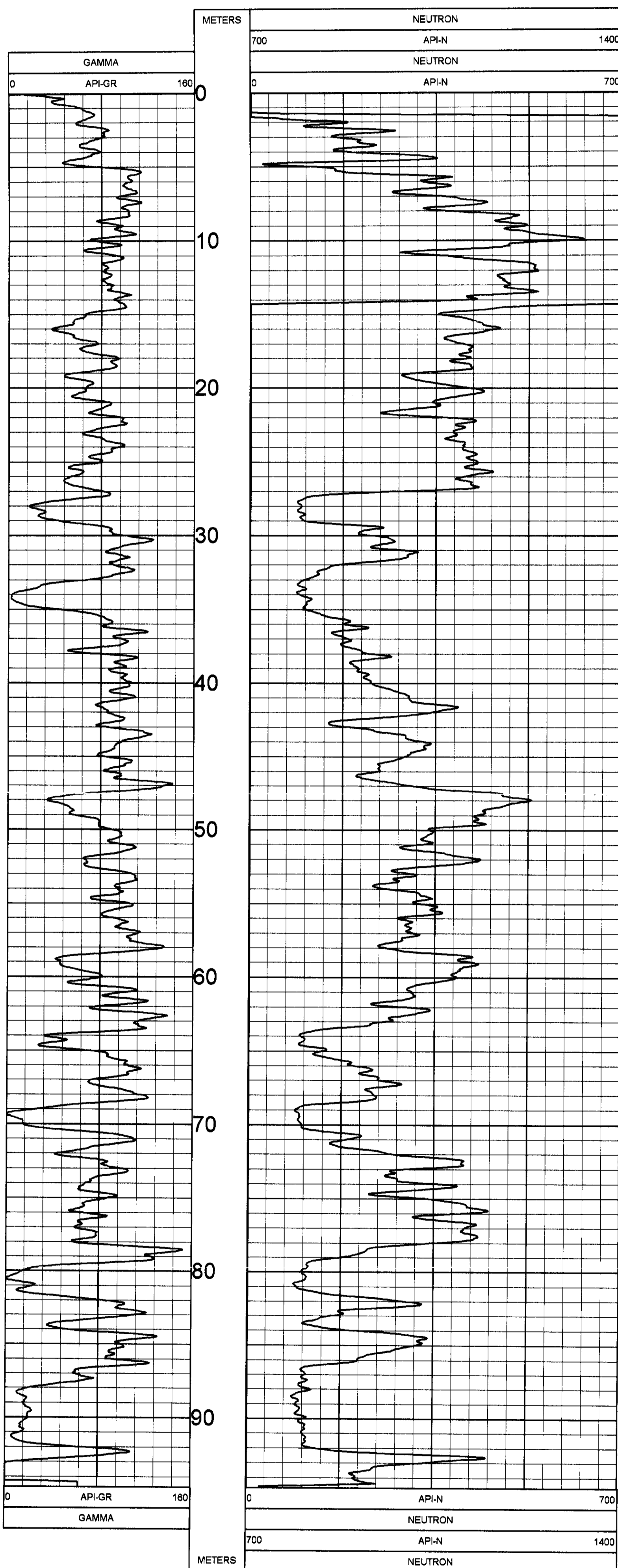
COMPANY	ELK VALLEY COAL	OTHER SERVICES:
WELL	2946	9055
FIELD	CASTLE SOUTH	9239
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
LOCATION	CASTLE SOUTH	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.		
PERMANENT DATUM	GL	ELEVATION RB N/A
LOG MEASURED FROM	GL	ELEVATION DF N/A
DRL MEASURED FROM	GL	ELEVATION QL N/A
DATE	08/20/08	
DEPTH DRILLER	100	
BIT SIZE	13	
LOG TOP	-0.23	
LOG BOTTOM	94.64	
CASING OD	15.75	
CASING BOTTOM	8	
CASING TYPE	N/A	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	SDS	
RECORDED BY	J. GRESCHUK	
REMARKS 1		
REMARKS 2		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

NEUTRON 1:200 2946 08/20/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/20/2008      VERSION = 3.64EK



NEUTRON 1:200 2946 08/20/08

LOG PARAMETERS

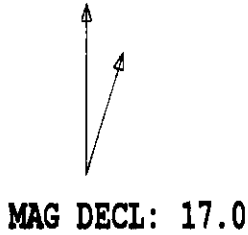
MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/20/2008      VERSION = 3.64EK

TOOL CALIBRATION 2946 08/20/08 01:26  
 TOOL 9067A TM VERSION 1  
 SERIAL NUMBER 530

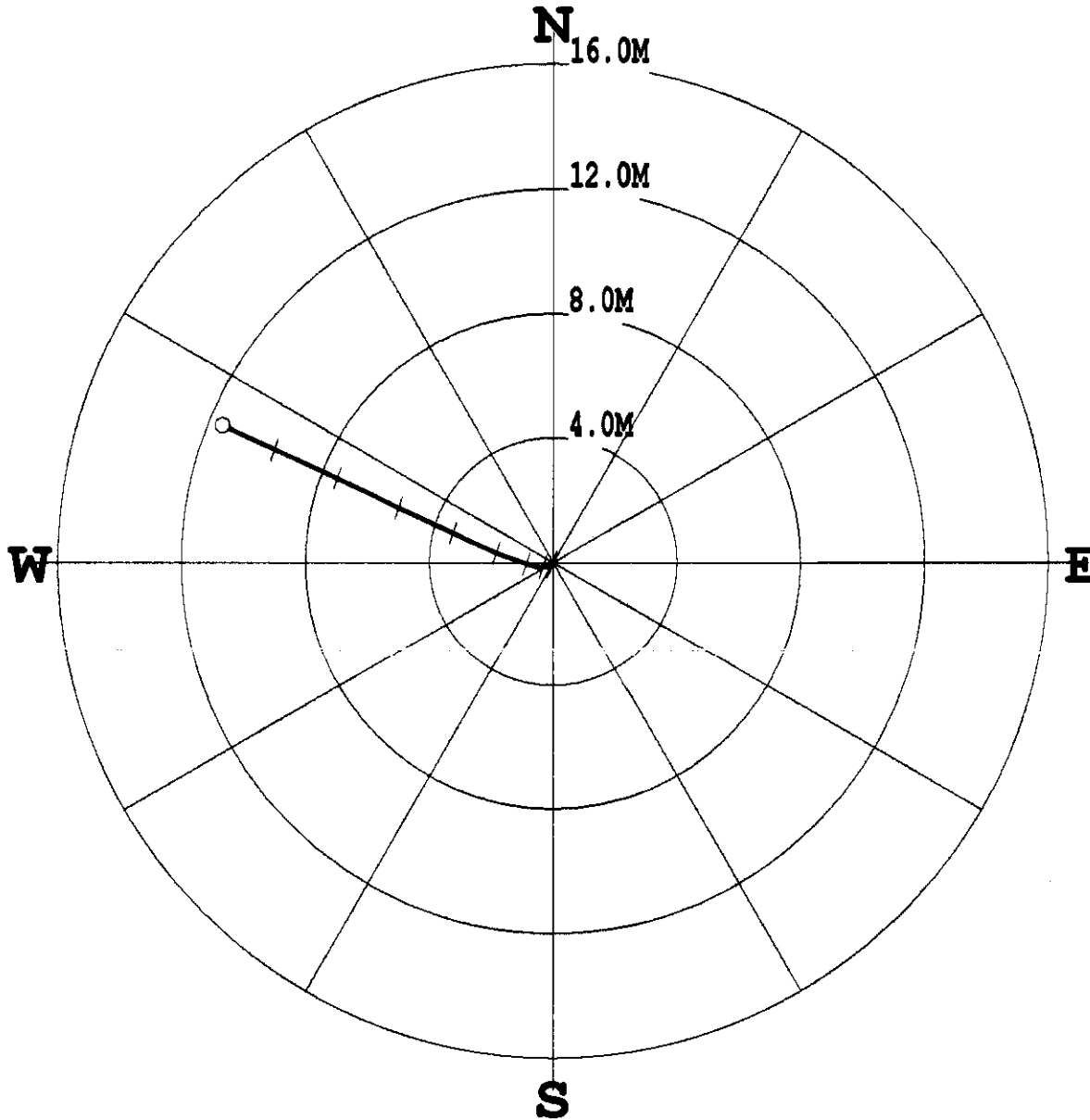
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR]	1.00 [CPS]
	Jul20.07 01:44:30	GAMMA	250.000 [API-GR]	52.00 [CPS]
2	Sep03.06 10:47:15	NEUTRON	1.000 [API-N]	1.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2946  
 DATE OF LOG: 08/20/08  
 PROBE: 9055A 72



SCALE: 2 M/CM  
 TRUE DEPTH: 97.90 M  
 AZIMUTH: 292.3  
 DISTANCE: 11.5 M  
 + = 10 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2946  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/20/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2946\_08-20-08\_10-19\_9055A\_.02\_8.35\_98.98\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
10.00	9.99	-0.00	-0.00	0.0	214.9	0.4	185.5
20.00	19.99	-0.11	-0.08	0.1	215.0	0.9	219.0
30.00	29.98	-0.15	-0.33	0.4	246.3	2.5	276.5
40.00	39.97	-0.03	-0.86	0.9	267.7	4.4	286.1
50.00	49.91	0.31	-1.83	1.9	279.7	7.1	293.1
60.00	59.80	0.93	-3.20	3.3	286.2	9.7	294.3
70.00	69.62	1.73	-4.93	5.2	289.3	11.0	295.1
80.00	79.39	2.64	-6.85	7.3	291.1	12.5	294.2
90.00	89.15	3.55	-8.83	9.5	291.9	12.5	293.7
98.98	97.86	4.38	-10.66	11.5	292.3	13.5	293.5

**GAMMA - CALIPER**  
**COMPENSATED DENSITY**  
2948

COMPANY	ELK VALLEY COAL	OTHER SERVICES:	
WELL	2948	WELL	2948
FIELD	CASTLE SOUTH	8987	
COUNTRY	CANADA	9655	
PROVINCE	BRIERLE COLUMBIA		
LOCATION	CASTLE SOUTH		
SECTION	N/A		26910-858
TOWNSHIP	N/A		143716-742
RANGE	N/A		18356/1
API NO.	N/A		
UNIQUE WELL ID.			
PERMANENT TOWNSHIP	3E	ELEVATION RB MIN	
LOG MEASURED FROM SL		ELEVATION DF MIN	
DRI MEASURED FROM SL		ELEVATION GL MIN	
DATE	08/20/08		
DEPTH DRILLER	190		
BIT SIZE	13.00		
LOG TOP	9.27		
LOG BOTTOM	148.01		
CASING OD	15.75		
CASING BOTTOM	18		
CASING TYPE	WATER		
BOREHOLE FLUID	N/A		
BOREHOLE TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	J. GRESCHUK		
REMARKS 1			
REMARKS 2			

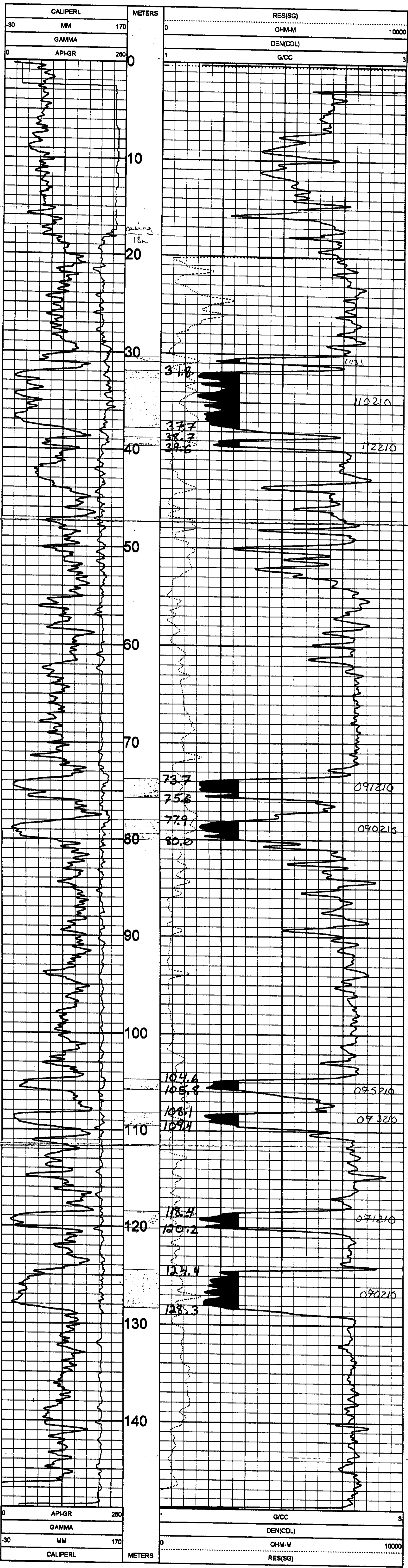
b. White

Sept. 30, 2008

DENSITY 1:200 2948 08/20/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/20/2008		VERSION = 3.64EK



DENSITY 1:200 2948 08/20/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/20/2008		VERSION = 3.64EK

TOOL CALIBRATION 2948 08/20/08 15:50  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4443

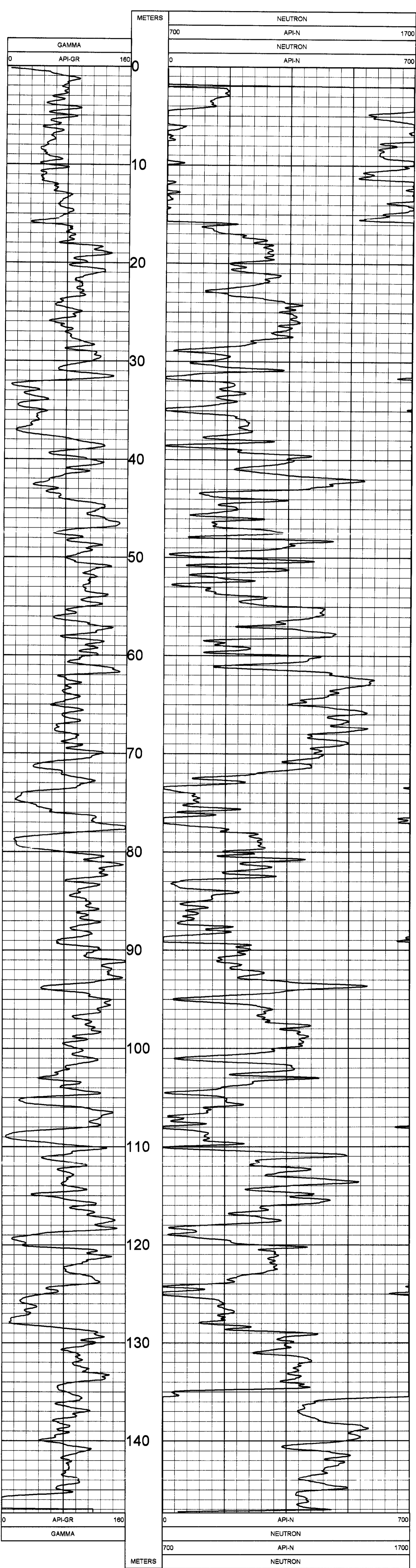
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
1	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
2	May13,08 11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
2	May13,08 11:07:48	VOLTAGE	252.400 [MV]	36082.80 [CPS]
2	Aug10,08 14:01:29	CALIPER	150.000 [INCH]	283948.00 [CPS]
4	May13,08 14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
4	May13,08 15:57:42	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
4	May13,08 15:57:42	DEN(LS)	2.323 [G/CC]	3656.70 [CPS]
5	May13,08 15:57:55	DEN(SS)	1.000 [G/CC]	73088.50 [CPS]
5	May13,08 15:57:55	DEN(SS)	2.323 [G/CC]	25243.90 [CPS]
6	Aug20,08 13:22:34	CALIPER	157.500 [INCH]	176257.50 [CPS]
6	Aug20,08 13:22:34	CALIPER	300.000 [INCH]	215587.50 [CPS]
7	May13,08 11:09:11	CURRENT	200.000 [UA]	7762.80 [CPS]
7	May13,08 11:09:11	CURRENT	252.400 [UA]	26347.80 [CPS]
8	Aug20,07 18:08:29	F	Default [CPS]	
9	Aug20,07 18:08:29	X	Default [CPS]	

<b>Century</b> WIRELINE SERVICES		<b>SLIM GAMMA-NEUTRON</b>	
WELL: 2948		OTHER SERVICES: 9055 9239	
FIELD: CASTLE SOUTH	COUNTRY: CANADA	PROVINCE: BRITISH COLUMBIA	
LOCATION: CASTLE SOUTH	SECTION: N/A	TOWNSHIP: N/A	RANGE: N/A
API NO: N/A	UNIQUE WELL ID: .	PERMANENT DATUM: -GL	
LOG MEASURED FROM: GL		ELEVATION KG: N/A	
DATE: 08/19/08		ELEVATION DF: N/A	
DEPTH DRILLER: 150	BIT SIZE: 13	LOG MEASURED FROM: GL	
LOG TOP: 0.23	LOG BOTTOM: 147.30	ELEVATION GL: N/A	
CASING OD: 15.75	CASING BOTTOM: 18	CASING TYPE: N/A	
BORHOLE FLUID: WATER		RM TEMPERATURE: N/A	
MUD RES: 1.0		MUD WEIGHT: 1.0	
RECORDED BY: J.GRESCHUK		REMARKS 1: .	
REMARKS 2: .		ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS	

**NEUTRON 1:200 2948 08/19/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13
PRESENTATION NAME/DATE = 9067A.0 08/19/2008		VERSION = 3.64EK



**NEUTRON 1:200 2948 08/19/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13
PRESENTATION NAME/DATE = 9067A.0 08/19/2008		VERSION = 3.64EK

TOOL CALIBRATION 2948 08/19/08 13:12			
TOOL 9067A TM VERSION 1			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul20,07 01:44:30	GAMMA	1.000 [API-GR]
	Jul20,07 01:44:30	GAMMA	250.000 [API-GR]
2	Sep03,06 10:47:15	NEUTRON	1.000 [API-N]
	Sep03,06 10:47:15	NEUTRON	500.000 [API-N]

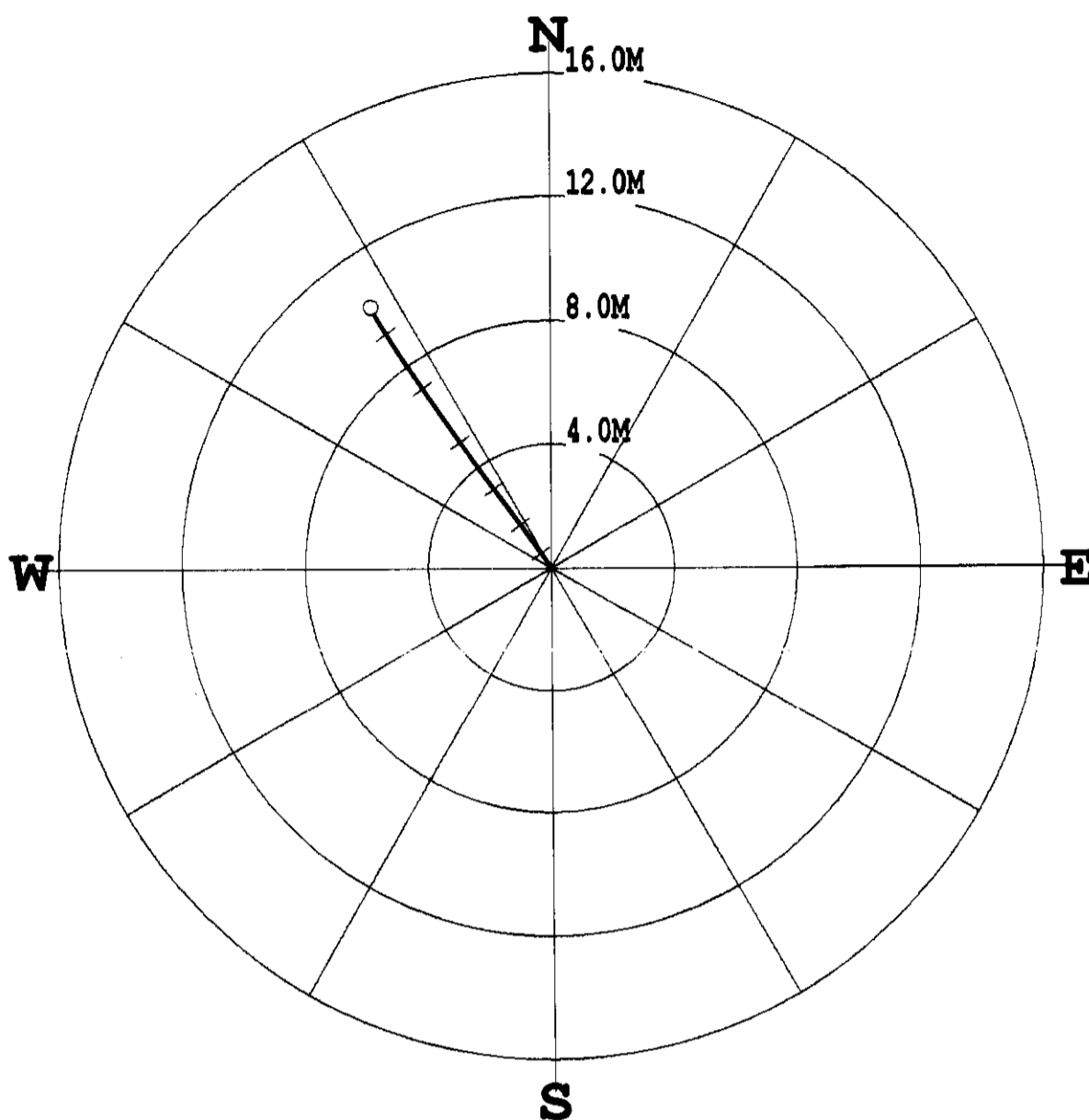


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2948  
 DATE OF LOG: 08/20/08  
 PROBE: 9055A 72



SCALE: 2 M/CM  
 TRUE DEPTH: 148.75 M  
 AZIMUTH: 325.4  
 DISTANCE: 10.2 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2948  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/20/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2948\_08-20-08\_15-12\_9055A\_.02\_22.69\_149.21\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
25.00	24.99	0.01	-0.01	0.0	326.7	1.2	316.9
35.00	34.98	0.30	-0.20	0.4	326.4	2.5	321.3
45.00	44.97	0.66	-0.47	0.8	324.9	2.7	320.5
55.00	54.96	1.13	-0.80	1.4	324.6	3.6	322.6
65.00	64.94	1.65	-1.19	2.0	324.2	3.8	322.8
75.00	74.91	2.23	-1.62	2.8	324.0	4.2	323.5
85.00	84.88	2.84	-2.09	3.5	323.7	4.8	323.1
95.00	94.84	3.61	-2.63	4.5	323.9	5.9	325.9
105.00	104.78	4.47	-3.23	5.5	324.1	6.0	324.2
115.00	114.72	5.34	-3.84	6.6	324.3	6.3	324.7
125.00	124.67	6.20	-4.43	7.6	324.5	5.9	324.6
135.00	134.61	7.06	-5.01	8.7	324.6	6.0	326.9
145.00	144.55	7.99	-5.60	9.8	325.0	6.0	327.7
149.22	148.71	8.42	-5.81	10.2	325.4	6.8	334.2

COMPANY	ELK VALLEY COAL	OTHER SERVICES	0005
WELL	2950		0007
FIELD	CASTLE SOUTH		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE SOUTH		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATA	2791.53	ELEVATION TO MA	1436.86296
LOG MEASURED FROM OIL	1851.482	ELEVATION OF MA	
DATE	02/20/08		
DEPTH MILLER	255		
BIT SIZE	13.00		
LOG TOP	2.33		
LOG BOTTOM	234.78		
CASING OD	18.75		
CASING BOTTOM	3		
COASING TYPE	N/A		
BOREHOLE FLUID	WATER		
API TEMPERATURE	N/A		
API WEIGHT	1.0		
API VISCOSITY	1.0		
RECORDED BY	J. JAMESCHUK		
REMARKS 1			
REMARKS 2			

*B. P. King*  
Sept. 30, 2008

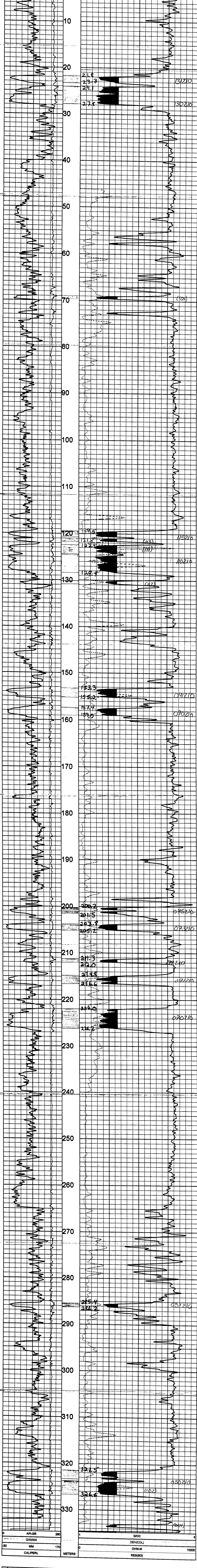
**DENSITY 1:200 2950 08/23/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65  
MAGNETIC DECL : 17.0  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/20/2008

NEUTRON MATRIX : SANDSTONE  
ELECT. CUTOFF : 99999  
VERSION = 3.64EK

MATRIX DELTA T : 177  
BIT SIZE : 13.00



**DENSITY 1:200 2950 08/23/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65  
MAGNETIC DECL : 17.0  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/20/2008

NEUTRON MATRIX : SANDSTONE  
ELECT. CUTOFF : 99999  
VERSION = 3.64EK

MATRIX DELTA T : 177  
BIT SIZE : 13.00

DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22.07	12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
Aug22.07	12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
May13.08	11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
May13.08	11:07:48	VOLTAGE	292.400 [MV]	36082.80 [CPS]
Aug10.08	14:01:28	CALIPER	156.000 [INCH]	283948.00 [CPS]
Aug10.08	14:01:28	CALIPER	343.000 [INCH]	420450.00 [CPS]
May13.08	15:57:42	DEN(L5)	1.000 [GICC]	39714.70 [CPS]
May13.08	15:57:42	DEN(L5)	2.323 [GICC]	3658.50 [CPS]
May13.08	15:57:55	DEN(S5)	1.000 [GICC]	73088.70 [CPS]
May13.08	15:57:55	DEN(S5)	1.000 [GICC]	25243.90 [CPS]
Aug20.08	13:22:34	CALIPERL	157.500 [INCH]	176257.50 [CPS]
Aug20.08	13:22:34	CALIPERL	200.000 [INCH]	215587.50 [CPS]
May13.08	11:08:11	CURRENT	32.000 [UA]	7782.80 [CPS]
May13.08	11:08:11	CURRENT	252.400 [UA]	26347.60 [CPS]
Aug20.07	18:08:28	F	Default [CPS]	
Aug20.07	18:08:28	X	Default [CPS]	

COMPANY: ELK VALLEY COAL  
WELL: 2950  
FIELD: CASTLE SOUTH  
COUNTY: CANAAN  
PROVINCE: BRITISH COLUMBIA

LOCATION: CASTLE SOUTH  
SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
API NO: N/A

PERMANENT DATA ID: 61  
LOG MEASURED FROM: GL  
ORIG. MEASURED FROM: SL  
ELEVATION OF N/A  
ELEVATION OF: N/A

DATE: 08/21/08  
DEPTH DRILLER: CSB  
BIT SIZE: 13  
LOG TOP: 0.35  
LOG BOTTOM: 333.19

CASING BOTTOM: 3  
CASING OD: 15.75  
CASING ID: 11.75

ROSBOROUGH FLUID: WATER  
MUD WEIGHT: 1.0  
MUD VOLUME: 1.0  
RECORDED BY: J. GRESCHUK  
REMARKS 1:  
REMARKS 2:

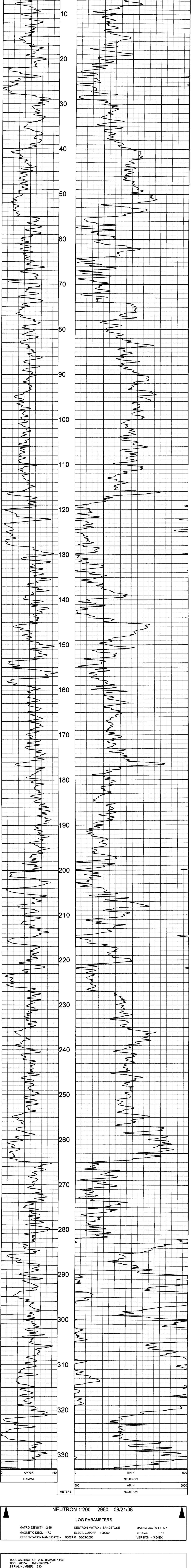
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

OTHER SERVICES:  
9656  
0299

NEUTRON 1:200 2950 08/21/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL. : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9067A.0 08/21/2008      VERSION = 3.64EK



NEUTRON 1:200 2950 08/21/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL. : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9067A.0 08/21/2008      VERSION = 3.64EK

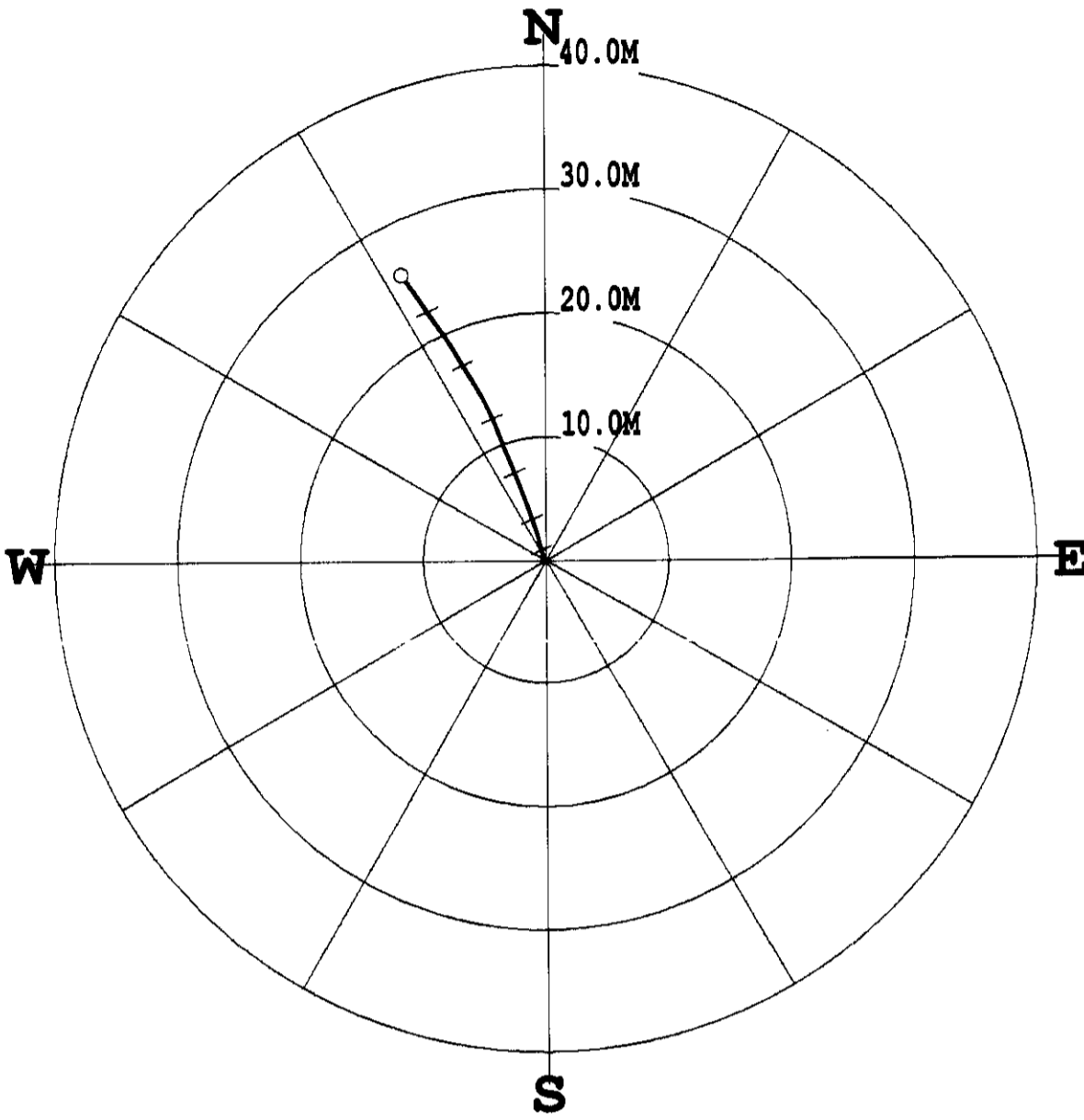
DATE	TIME	SENSOR	STANDARD	RESPONSE
1 Jul20,07	01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
2 Jul20,07	01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
2 Sep03,08	10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
2 Sep03,08	10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2950  
 DATE OF LOG: 08/22/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 333.78 M  
 AZIMUTH: 333.2  
 DISTANCE: 25.9 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2950  
 FIELD OFFICE : CENTURY GEO                    DATE OF LOG : 08/22/08  
 DATA FROM : N/A                                PROBE : 9055A                      72  
 MAG. DECL. : 17.000                            DEPTH UNITS : METERS  
 LOG: 2950\_08-22-08\_13-03\_9055A\_.02\_7.22\_334.96\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.01	-0.01	0.0	294.0	0.6	298.3
20.00	20.00	0.06	-0.10	0.1	300.3	0.8	319.4
30.00	30.00	0.21	-0.19	0.3	318.0	1.0	2.4
40.00	39.99	0.52	-0.27	0.6	332.0	1.8	355.0
50.00	49.99	0.86	-0.37	0.9	336.8	1.9	345.3
60.00	59.98	1.21	-0.47	1.3	338.7	2.3	349.4
70.00	69.97	1.65	-0.57	1.7	340.9	2.7	343.7
80.00	79.96	2.14	-0.71	2.3	341.8	3.3	344.8
90.00	89.94	2.72	-0.89	2.9	341.8	3.7	341.0
100.00	99.92	3.33	-1.10	3.5	341.7	3.7	341.6
110.00	109.89	3.99	-1.33	4.2	341.6	4.2	339.0
120.00	119.86	4.72	-1.60	5.0	341.3	4.4	340.1
130.00	129.83	5.47	-1.88	5.8	341.0	4.8	337.9
140.00	139.79	6.25	-2.19	6.6	340.7	4.9	339.9
150.00	149.75	7.09	-2.51	7.5	340.5	4.9	338.5
160.00	159.71	7.92	-2.86	8.4	340.2	5.1	336.5
170.00	169.67	8.76	-3.21	9.3	339.9	5.5	335.4
180.00	179.62	9.63	-3.56	10.3	339.7	5.4	338.5
190.00	189.58	10.53	-3.91	11.2	339.6	5.6	339.0
200.00	199.53	11.45	-4.29	12.2	339.5	5.6	335.9
210.00	209.48	12.34	-4.69	13.2	339.2	5.4	333.8
220.00	219.44	13.18	-5.13	14.1	338.7	5.5	330.2
230.00	229.39	14.01	-5.61	15.1	338.2	5.5	327.1
240.00	239.34	14.86	-6.15	16.1	337.5	5.7	327.2
250.00	249.29	15.70	-6.69	17.1	336.9	5.8	328.2
260.00	259.24	16.54	-7.19	18.0	336.5	5.6	328.9
270.00	269.18	17.42	-7.73	19.1	336.1	6.1	326.7
280.00	279.13	18.32	-8.34	20.1	335.5	6.3	324.9
290.00	289.07	19.19	-8.96	21.2	335.0	6.0	324.5
300.00	299.02	20.01	-9.54	22.2	334.5	6.3	327.5
310.00	308.97	20.84	-10.10	23.2	334.1	5.9	325.5
320.00	318.91	21.74	-10.73	24.2	333.7	6.2	325.6
330.00	328.85	22.63	-11.35	25.3	333.4	6.3	325.7
334.96	333.74	23.07	-11.65	25.8	333.2	6.0	324.6

**Century**  
WIRELINE SERVICES

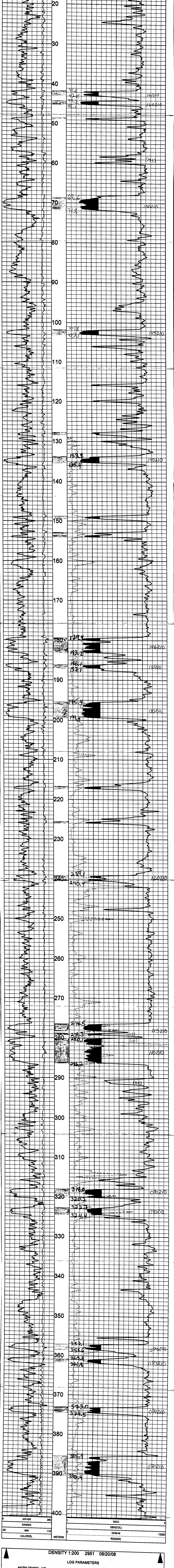
**GAMMA - CALIPER  
COMPENSATED DENSITY**  
2951

COMPANY	ELI WALTER COAL	OTHER SERVICES	
WELL	2951	YEAR	2008
COUNTRY	CASTLE SOUTH	BIT SIZE	9005
PROVINCE	CASTLE SOUTH		
LOCATION	CASTLE SOUTH		
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
APR NO.	NA		
LOG DATE	08/20/08		
LOG TIME	13:00		
LOG BOTTOM	15.75		
CASING BOTTOM	3		
CONCRETE TYPE	NA		
BONDHOLE FLUID	WATER		
RH TEMPERATURE	NA		
MUD RES	NA		
MUD WEIGHT	11.0		
WITNESSED BY	SSS		
RECORDED BY	J. GRESCHUK		
REMARKS 1			
REMARKS 2			

DENSITY 1:200 2951 08/20/08

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE : 9239C1DENSITYSHADING.0 08/20/2008		VERSION = 3.64EK



DENSITY 1:200 2951 08/20/08

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE : 9239C1DENSITYSHADING.0 08/20/2008		VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22.07	12:48:04	GAMMA	0.000 (API-GR )	3.00 (CPS)
Aug22.07	12:48:04	VOLTAGE	320.000 (MV)	304.00 (CPS)
May13.08	11:07:48	VOLTAGE	252.400 (MV)	735.50 (CPS)
Aug10.08	14:01:28	CALIPER	343.000 (INCH)	283948.00 (CPS)
Aug10.08	14:01:28	DEN(LS)	1.000 (G/CC)	420450.00 (CPS)
May13.08	15:57:42	DEN(SS)	1.000 (G/CC)	3974.70 (CPS)
May13.08	15:57:55	DEN(S)	2.323 (G/CC)	3658.70 (CPS)
Aug20.08	13:22:54	CALIPER	157.500 (INCH)	73088.50 (CPS)
Aug20.08	13:22:54	CALIPER	200.000 (INCH)	25243.90 (CPS)
May13.08	11:09:11	CURRENT	32.400 (UA)	17297.50 (CPS)
Aug20.07	18:08:28	CURRENT	252.400 (UA)	21582.80 (CPS)
Aug20.07	18:08:28	F	Default (CPS)	28347.80 (CPS)
Aug20.07	18:08:28	X	Default (CPS)	

COMPANY: ELK VALLEY COAL  
WELL: 2951  
FIELD: CASTLE SOUTH  
COUNTY: CANNON  
STATE: WEST VIRGINIA  
LOCATION: CASTLE SOUTH

OTHER SERVICES:  
SERIAL NO: 9005  
DATE: 08/20/08

SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
API NO: N/A

UNIQUE WELL ID: N/A  
PERMANENT DATUM: SL  
ELEVATION TO NAV: N/A  
ELEVATION TO MSL: N/A  
ELEVATION OF NAV: N/A  
LOG MEASURED FROM: OIL  
DATE: 08/20/08  
DEPTH: 401.00  
DEPTH UNIT: METERS

LOG TOP: 0.39  
LOG BOTTOM: 400.89  
CASING OD: 15.75  
CASING TYPE: N/A  
BORING TYPE: N/A  
BORING FLUID: WATER  
NM TEMPERATURE: N/A  
MWD: N/A  
MWD MEASUREMENT: N/A  
MWD MEASUREMENT: N/A  
RECORDED BY: J. JOHNSON  
REVISIONS: 1  
REVISIONS: 2

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

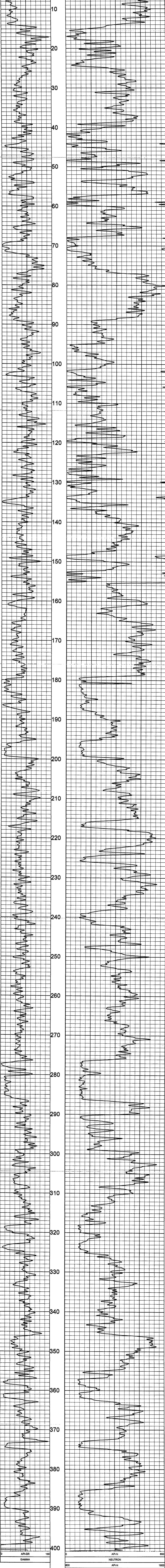
NEUTRON 1:200 2951 08/20/08

LOG PARAMETERS

MATRIX DENSITY: 2.85  
MAGNETIC DECL: 17.0  
PRESENTATION NAME/DATE: 9087A.O 08/20/2008

NEUTRON MATRIX: SANDSTONE  
ELECT. CUTOFF: 99999

MATRIX DELTA T: 177  
BIT SIZE: 13  
VERSION: 3.84EK



NEUTRON 1:200 2951 08/20/08

LOG PARAMETERS

MATRIX DENSITY: 2.85  
MAGNETIC DECL: 17.0  
PRESENTATION NAME/DATE: 9087A.O 08/20/2008

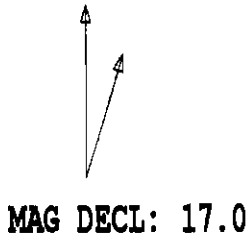
NEUTRON MATRIX: SANDSTONE  
ELECT. CUTOFF: 99999

MATRIX DELTA T: 177  
BIT SIZE: 13  
VERSION: 3.84EK

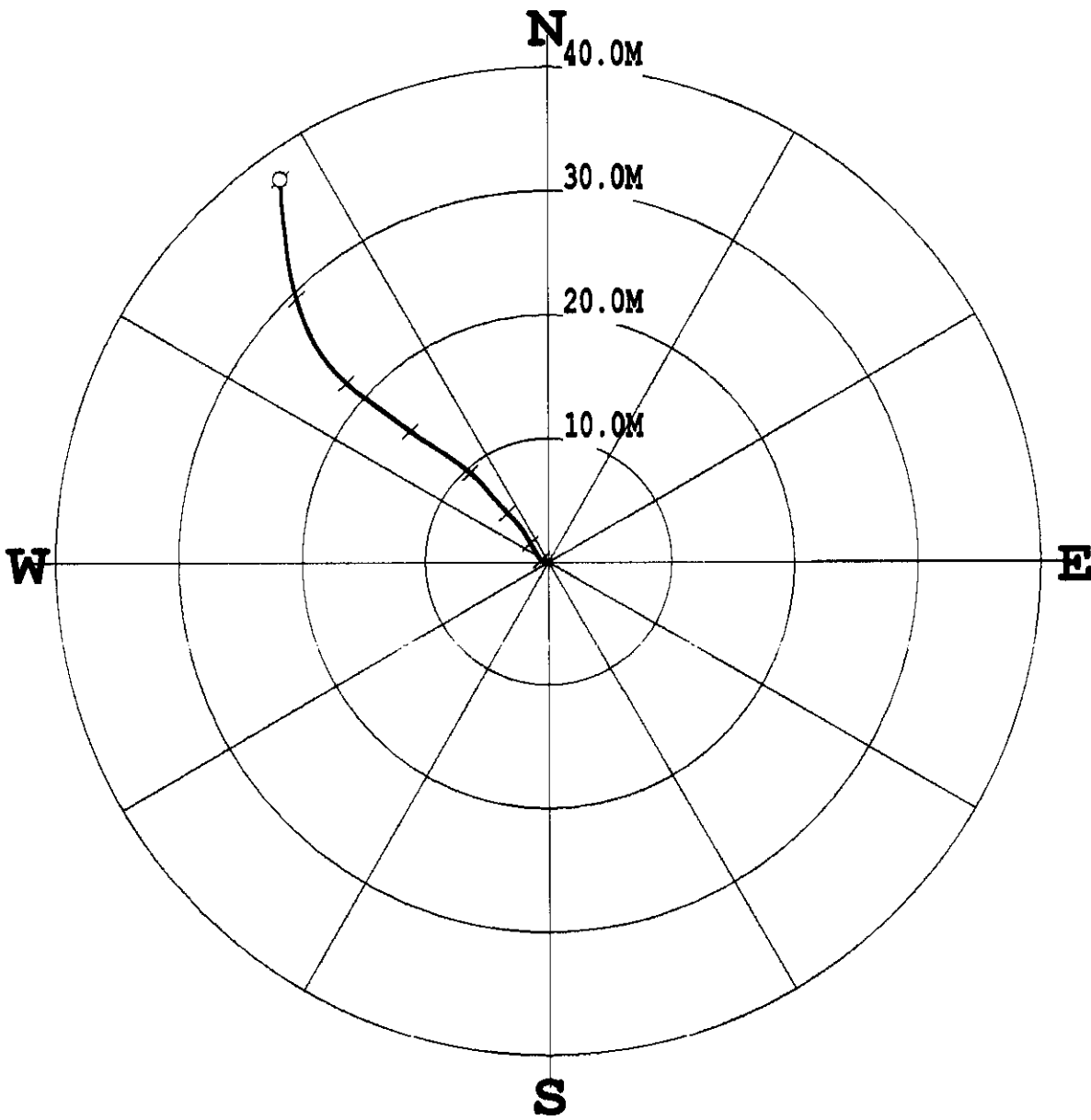
TOOL CALIBRATION 2951 08/20/08 00.02		TOOL 9087A TM VERSION 1		SERIAL NUMBER 530	
DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR ]	1.00	[CPS]
	Jul20.07 01:44:30	GAMMA	250.000 [API-GR ]	52.00	[CPS]
2	Sep03.08 10:47:15	NEUTRON	1.000 [API-N ]	1.00	[CPS]
	Sep03.08 10:47:15	NEUTRON	500.000 [API-N ]	500.00	[CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2951  
 DATE OF LOG: 08/20/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 398.10 M  
 AZIMUTH: 325.0  
 DISTANCE: 37.8 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2951  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/20/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2951\_08-20-08\_12-31\_9055A\_.02\_8.06\_400.81\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
10.00	10.00	-0.00	-0.00	0.0	246.5	0.7	250.8
20.00	20.00	0.02	-0.08	0.1	281.8	1.2	264.6
30.00	30.00	0.06	-0.23	0.2	283.5	1.0	291.0
40.00	40.00	0.09	-0.40	0.4	282.5	0.8	274.4
50.00	49.99	0.18	-0.57	0.6	287.6	1.6	292.7
60.00	59.99	0.36	-0.76	0.8	295.3	1.7	323.0
70.00	69.99	0.60	-0.92	1.1	303.0	1.8	310.8
80.00	79.98	0.91	-1.09	1.4	309.8	1.7	313.8
90.00	89.97	1.18	-1.27	1.7	313.0	2.2	327.1
100.00	99.97	1.51	-1.46	2.1	316.0	2.5	330.8
110.00	109.96	1.88	-1.67	2.5	318.5	2.7	330.9
120.00	119.95	2.31	-1.92	3.0	320.2	3.7	342.1
130.00	129.92	2.86	-2.30	3.7	321.1	4.2	324.1
140.00	139.90	3.41	-2.78	4.4	320.8	4.5	318.7
150.00	149.86	3.98	-3.31	5.2	320.3	4.6	315.9
160.00	159.83	4.59	-3.88	6.0	319.9	5.1	318.9
170.00	169.79	5.24	-4.45	6.9	319.7	5.1	324.8
180.00	179.75	5.93	-5.01	7.8	319.8	5.1	320.6
190.00	189.71	6.59	-5.60	8.6	319.7	5.4	317.2
200.00	199.67	7.23	-6.30	9.6	318.9	5.6	310.0
210.00	209.62	7.86	-7.10	10.6	317.9	6.2	305.6
220.00	219.55	8.52	-8.02	11.7	316.7	6.7	303.9
230.00	229.48	9.18	-9.02	12.9	315.5	7.0	303.6
240.00	239.40	9.84	-10.07	14.1	314.3	7.1	302.0
250.00	249.32	10.55	-11.10	15.3	313.5	7.5	306.8
260.00	259.24	11.29	-12.12	16.6	313.0	7.3	305.7
270.00	269.16	12.04	-13.15	17.8	312.5	7.3	306.7
280.00	279.08	12.80	-14.18	19.1	312.1	7.4	308.3
290.00	288.99	13.58	-15.23	20.4	311.7	7.3	309.4
300.00	298.91	14.42	-16.24	21.7	311.6	7.7	313.0
310.00	308.80	15.43	-17.25	23.1	311.8	8.9	316.4
320.00	318.69	16.61	-18.21	24.6	312.4	8.9	319.7
330.00	328.56	17.92	-19.06	26.2	313.2	10.1	313.4
340.00	338.42	19.41	-19.75	27.7	314.5	9.9	337.2
350.00	348.28	21.02	-20.31	29.2	316.0	9.6	343.5
360.00	358.12	22.76	-20.77	30.8	317.6	10.6	348.2
370.00	367.94	24.62	-21.10	32.4	319.4	11.7	353.4
380.00	377.73	26.63	-21.33	34.1	321.3	11.8	352.6
390.00	387.51	28.67	-21.56	35.9	323.1	12.0	354.1
400.00	397.30	30.74	-21.67	37.6	324.8	11.6	357.8
400.82	398.06	30.90	-21.68	37.7	325.0	11.9	358.4

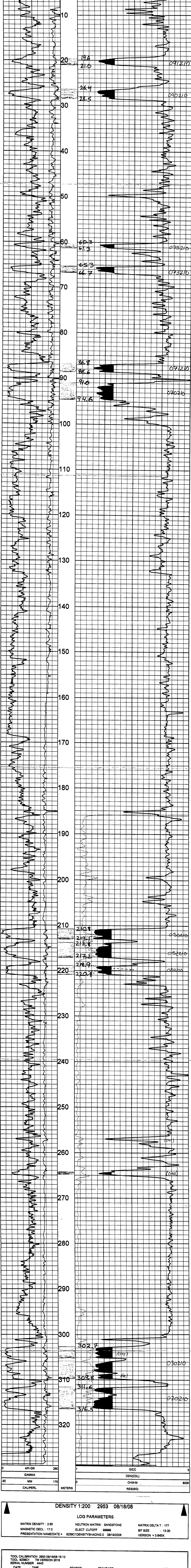
COMPANY	EST VALLEY COAL	OTHER SERVICES
WELL	2953	6005 6007
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
LOCATION	CASTLE SOUTH	
SECTION	N/A	26708-295
TOWNSHIP	N/A	19 3 24S-46E
RANGE	N/A	1762-48E
API NO.	N/A	
UNIQUE WELL ID.		
PERMANENT DATUM SL.		ELEVATION TO NAV
LOG MEASURED FROM SL.		ELEVATION OF NAV
DRI. MEASURED FROM SL.		ELEVATION OF NAV
DATE	08/18/08	
DEPTH DRILLER	SRM/MS	
BIT SIZE	230	
LOG TOP	228.93	
LOG BOTTOM	15.75	
CASING OD	9	
CASING BOTTOM	N/A	
CASING TYPE	N/A	
BOREHOLE FLUID	WATER	
RH TEMPERATURE	N/A	
RAO RES	4N	
RAO WEIGHT	110	
WITNESSED BY	3:GRESCHUK	
RECORDED BY		
REMARKS 1		
REMARKS 2		

*Sept-30, 2008*  
*B. M...*

**DENSITY 1:200 2953 08/18/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/18/2008      VERSION = 3.64EK



**DENSITY 1:200 2953 08/18/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/18/2008      VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
1	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
2	May13,08 11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
2	May13,08 11:07:48	VOLTAGE	252.400 [MV]	36082.80 [CPS]
3	Aug10,08 14:01:28	CALIPER	159.000 [INCH]	420450.00 [CPS]
3	Aug10,08 14:01:28	CALIPER	343.000 [INCH]	283948.00 [CPS]
4	May13,08 15:57:42	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
4	May13,08 15:57:42	DEN(LS)	2.323 [G/CC]	3056.70 [CPS]
5	May13,08 15:57:55	DEN(SS)	1.000 [G/CC]	73088.50 [CPS]
5	May13,08 15:57:55	DEN(SS)	2.323 [G/CC]	25243.90 [CPS]
6	May13,08 10:58:05	CALIPER	100.000 [INCH]	112403.20 [CPS]
6	May13,08 10:58:05	CALIPER	200.000 [INCH]	21557.50 [CPS]
7	May13,08 11:09:11	CURRENT	32.000 [UA]	7762.80 [CPS]
7	May13,08 11:09:11	CURRENT	252.400 [UA]	28347.60 [CPS]
8	Aug20,07 18:08:29	F	Default [CPS]	
9	Aug20,07 18:08:29	X	Default [CPS]	

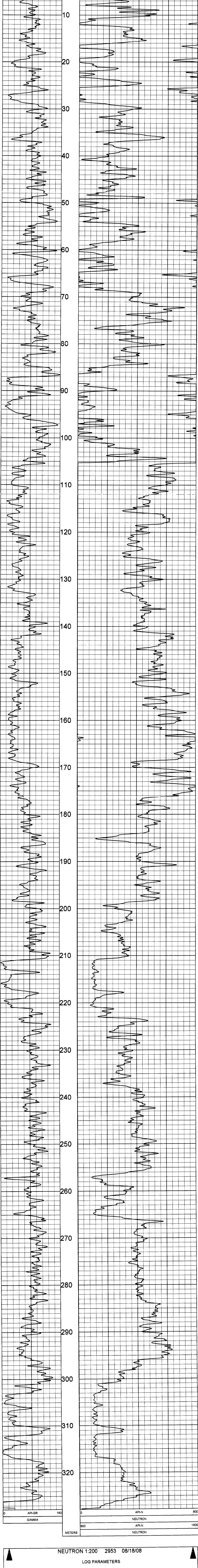


COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	2953	9229	9656
FIELD	CASTLE SOUTH		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE SOUTH		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATA	SI		
LOG MEASURED FROM OIL		ELEVATION TO N/A	
DATE	08/18/08	ELEVATION OF N/A	
DEPTH DRILLER	330	ELEVATION TO N/A	
BIT SIZE	13		
LOG TOP	0.36		
LOG BOTTOM	327.75		
CASING CD	15.75		
CASING TYPE	3		
ROSBOROUGH FLUID	WATER		
RAM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
RECORDED BY	J. GRESHAM		
REMARKS 1			
REMARKS 2			

**NEUTRON 1:200 2953 08/18/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/18/2008      VERSION = 3.64EK



**NEUTRON 1:200 2953 08/18/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/18/2008      VERSION = 3.64EK

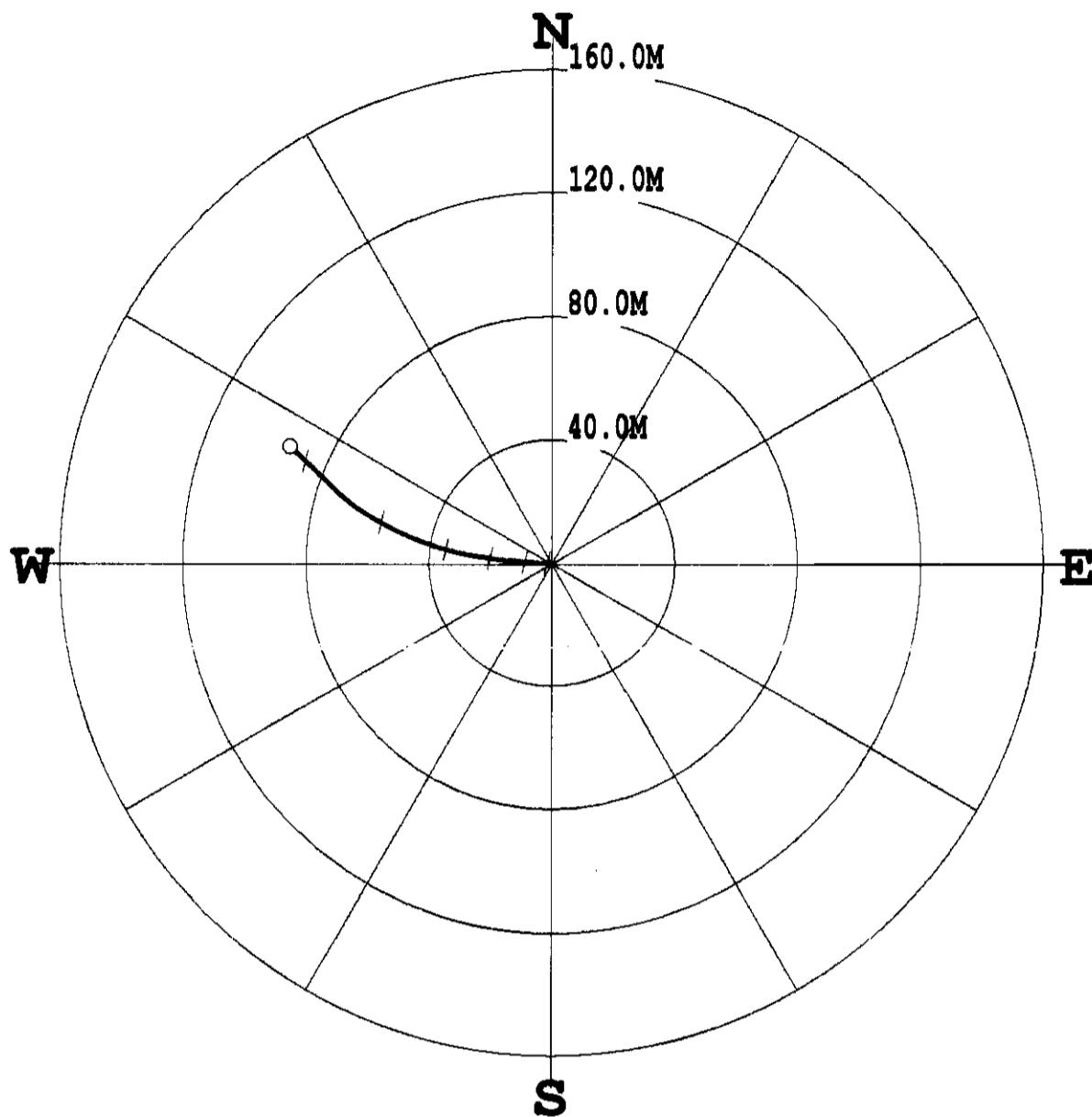
TOOL CALIBRATION 2953 08/18/08 07:46			
TOOL 9067A TM VERSION 1			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul20.07	GAMMA	1.000 [API-GR]
	Jul20.07	GAMMA	250.000 [API-GR]
2	Sep03.06	NEUTRON	1.000 [API-N]
	Sep03.06	NEUTRON	500.000 [API-N]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2953  
 DATE OF LOG: 08/18/08  
 PROBE: 9055A 72



SCALE: 20 M/CM  
 TRUE DEPTH: 308.42 M  
 AZIMUTH: 293.9  
 DISTANCE: 93.0 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2953  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/18/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2953\_08-18-08\_14-03\_9055A\_02\_13.22\_329.05\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
15.00	15.00	0.01	0.00	0.0	13.5	0.6	348.6
25.00	25.00	0.09	-0.22	0.2	292.9	1.5	296.6
35.00	34.99	0.20	-0.66	0.7	287.3	2.7	285.1
45.00	44.97	0.33	-1.20	1.2	285.5	3.5	280.4
55.00	54.95	0.41	-1.88	1.9	282.4	4.9	278.2
65.00	64.88	0.40	-2.97	3.0	277.6	7.6	264.7
75.00	74.79	0.41	-4.35	4.4	275.4	8.8	273.1
85.00	84.65	0.51	-5.98	6.0	274.9	9.4	275.9
95.00	94.50	0.69	-7.68	7.7	275.1	10.2	276.6
105.00	104.32	0.87	-9.58	9.6	275.2	11.4	274.4
115.00	114.10	0.99	-11.64	11.7	274.9	12.8	274.3
125.00	123.86	1.10	-13.82	13.9	274.6	13.1	273.8
135.00	133.60	1.31	-16.10	16.2	274.7	13.5	278.1
145.00	143.32	1.62	-18.42	18.5	275.0	13.8	278.4
155.00	153.01	1.97	-20.84	20.9	275.4	14.6	276.9
165.00	162.68	2.31	-23.39	23.5	275.6	14.9	278.3
175.00	172.33	2.74	-25.98	26.1	276.0	15.5	280.3
185.00	181.93	3.28	-28.71	28.9	276.5	16.7	282.0
195.00	191.47	3.97	-31.63	31.9	277.2	18.2	284.1
205.00	200.92	4.79	-34.80	35.1	277.8	20.4	285.9
215.00	210.22	5.84	-38.33	38.8	278.7	22.7	289.6
225.00	219.41	7.13	-42.03	42.6	279.6	23.5	289.8
235.00	228.53	8.63	-45.86	46.7	280.7	25.0	293.3
245.00	237.53	10.42	-49.83	50.9	281.8	26.3	295.9
255.00	246.44	12.50	-53.87	55.3	283.1	27.6	298.1
265.00	255.24	14.80	-58.02	59.9	284.3	29.1	299.6
275.00	263.92	17.33	-62.29	64.7	285.5	30.3	302.1
285.00	272.53	20.32	-66.40	69.4	287.0	31.0	309.7
295.00	281.02	23.83	-70.34	74.3	288.7	33.2	313.7
305.00	289.29	27.74	-74.39	79.4	290.5	35.0	311.1
315.00	297.37	31.74	-78.70	84.9	292.0	36.5	311.7
325.00	305.25	35.94	-83.21	90.6	293.4	38.8	314.0
329.06	308.39	37.66	-85.03	93.0	293.9	38.9	312.8

**Century**  
WIRELINE SERVICES

**GAMMA - CALIPER**  
COMPENSATED DENSITY  
2954

ELK VALLEY COAL  
WELL: 2954  
FIELD: CASTLE SOUTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA  
SECTION: 2-9-141-439  
TOWNSHIP: 14-36-59-924  
RANGE: 18-6-1-455  
LICENSE NO: N/A  
UNIQUE WELL ID: N/A

PERMANENT LATITUDE: 51.1  
ELEVATION OF NAV: 1436.59  
LONG MEASURED FROM 0L: 924  
ELEVATION OF IAN: 1861.455  
DATE: 08/23/08  
LOG MEASURED FROM 0L: 0  
DEPTH: 0.00  
DEPTH: 0.00  
LOG TOP: 0.00  
LOG BOTTOM: 329.07  
LOG LENGTH: 329.07  
CROWN LOGGERS: 15-75  
CROWN DILLER: 300  
CROWING TYPE: N/A  
ROTORHOLE FLUID: WATER  
FM TEMPERATURE: N/A  
M.M. RES: N/A  
M.M. WEIGHT: 1.0  
WITNESSED BY: J. GRECHUK  
RECORDED BY: J. GRECHUK  
SERIANS: 1  
SERIANS: 2

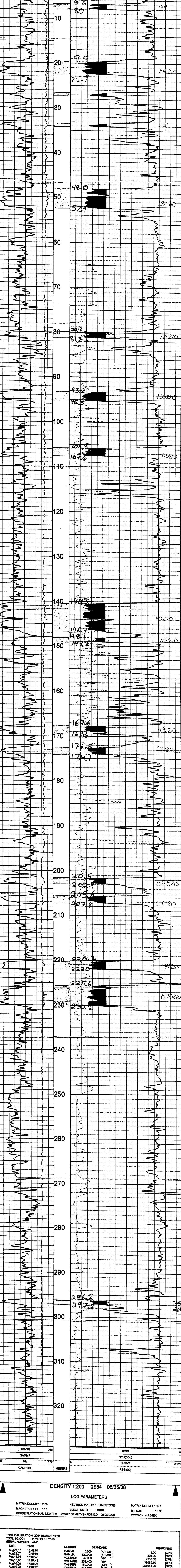
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

*Blind*  
*Sep. 30, 2008*

DENSITY 1:200 2954 08/25/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK



DENSITY 1:200 2954 08/25/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/23/2008 VERSION = 3.64EK

TOOL CALIBRATION 2954 08/25/08 10:33  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4443

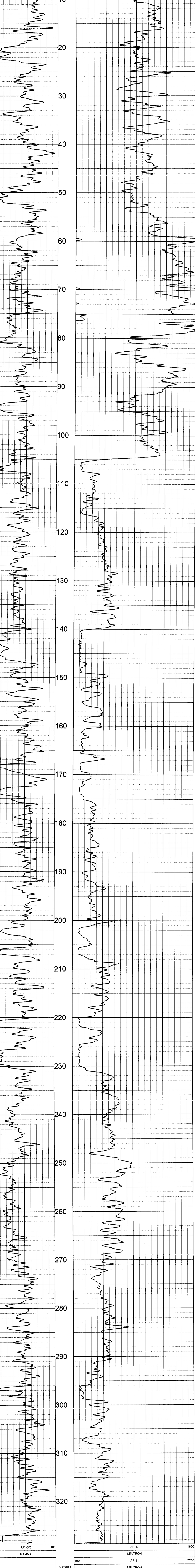
DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22.07	12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
Aug22.07	12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
May13.08	11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
May13.08	11:07:48	VOLTAGE	252.400 [MV]	38082.80 [CPS]
Aug10.08	14:01:28	CALIPER	158.000 [INCH]	253948.00 [CPS]
Aug10.08	14:01:28	CALIPER	343.000 [INCH]	38714.70 [CPS]
May13.08	15:57:42	DEN(LS)	1.000 [GICC]	3658.70 [CPS]
May13.08	15:57:42	DEN(LS)	2.323 [GICC]	73088.50 [CPS]
May13.08	15:57:55	DEN(S)	1.000 [GICC]	32243.90 [CPS]
May13.08	15:57:55	DEN(S)	2.323 [GICC]	118545.10 [CPS]
Aug24.08	13:04:07	CALIPERL	100.000 [INCH]	177488.50 [CPS]
Aug24.08	13:04:07	CALIPERL	157.500 [INCH]	177488.50 [CPS]
Aug24.08	11:09:11	CURRENT	32.000 [UA]	7782.80 [CPS]
May13.08	11:09:11	CURRENT	253.400 [UA]	26347.80 [CPS]
Aug10.07	16:08:26	F	Default [CPS]	
Aug20.07	16:08:26	X	Default [CPS]	

COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	2954	9005	
FIELD	CASTLE SOUTH	9239	
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
SECTION	CASTLE SOUTH		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID.			
PERMANENT DATUM	SL	ELEVATION IN M	
LOG MEASURED FROM	GL	ELEVATION OF M	
DNL MEASURED FROM	GL	ELEVATION OF M	
DATE	08/24/08		
DEPTH DRILLER	320.00		
BIT SIZE	13		
LOG TOP	0.29		
LOG BOTTOM	328.87		
CASING LOGGER	15.75		
CASING TYPE	N/A		
BORING TYPE	N/A		
BORING FLUID	WATER		
RAM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WRITTEN BY	SOS		
RECORDED BY	J.GRESHUK		
REMARKS 1			
REMARKS 2			

**NEUTRON 1:200 2954 08/24/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT CUTOFF : 99999	BIT SIZE : 13
PRESENTATION NAME/DATE = 9067A.0 08/24/2008		VERSION = 3.64EK



**NEUTRON 1:200 2954 08/24/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT CUTOFF : 99999	BIT SIZE : 13
PRESENTATION NAME/DATE = 9067A.0 08/24/2008		VERSION = 3.64EK

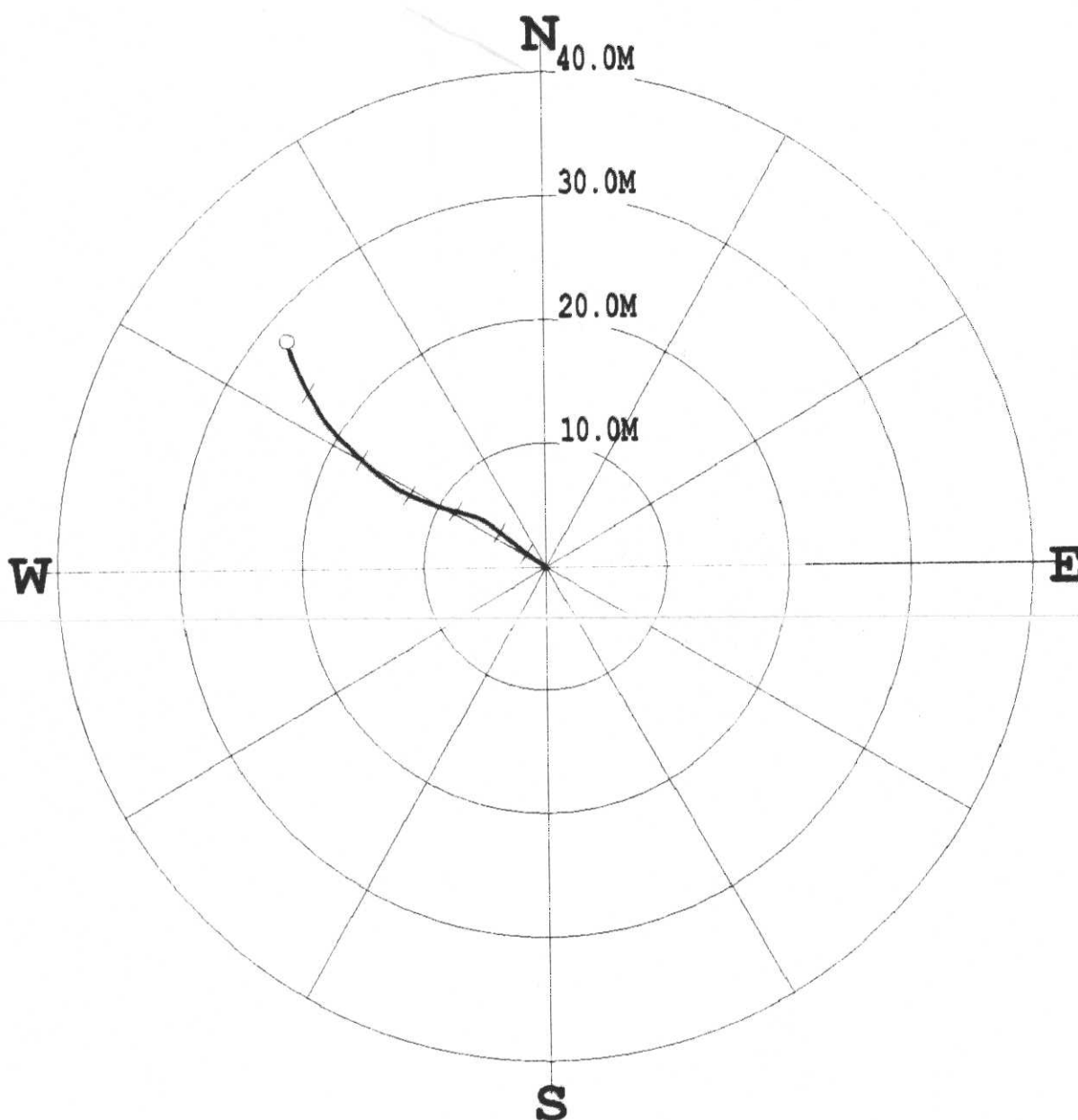
TOOL CALIBRATION 2954 08/24/08 10:30			
TOOL 9067A TM VERSION 1			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Aug24.08 11:12.49	GAMMA	1.000 [API-GR ]
	Aug24.08 11:12.49	GAMMA	250.000 [API-GR ]
2	Aug24.08 11:13.06	NEUTRON	1.000 [API-N ]
	Aug24.08 11:13.06	NEUTRON	500.000 [API-N ]
			RESPONSE
			1.00 [CPS]
			52.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2954  
 DATE OF LOG: 08/25/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 327.43 M  
 AZIMUTH: 311.1  
 DISTANCE: 27.9 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2954  
 FIELD OFFICE : CENTURY GEO                      DATE OF LOG : 08/25/08  
 DATA FROM : N/A                                      PROBE : 9055A                      72  
 MAG. DECL. : 17.000                                      DEPTH UNITS : METERS  
 LOG: 2954\_08-25-08\_09-33\_9055A\_.02\_7.97\_328.97\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	9.99	0.02	-0.01	0.0	319.0	2.1	316.7
20.00	19.98	0.25	-0.30	0.4	309.7	2.8	302.7
30.00	29.97	0.50	-0.71	0.9	305.3	2.8	303.7
40.00	39.96	0.78	-1.12	1.4	305.1	2.8	303.0
50.00	49.94	1.11	-1.56	1.9	305.4	3.1	308.5
60.00	59.93	1.45	-1.99	2.5	306.0	3.0	307.8
70.00	69.91	1.81	-2.42	3.0	306.8	3.4	321.5
80.00	79.90	2.13	-2.82	3.5	307.1	2.7	310.3
90.00	89.88	2.48	-3.24	4.1	307.5	3.3	307.5
100.00	99.87	2.85	-3.71	4.7	307.6	3.6	307.8
110.00	109.84	3.26	-4.25	5.4	307.5	4.0	305.0
120.00	119.81	3.68	-4.86	6.1	307.1	4.3	299.4
130.00	129.78	4.03	-5.61	6.9	305.7	5.2	288.5
140.00	139.74	4.29	-6.45	7.7	303.6	5.4	287.0
150.00	149.70	4.54	-7.30	8.6	301.9	5.0	285.8
160.00	159.66	4.76	-8.11	9.4	300.4	4.7	286.5
170.00	169.63	5.01	-8.88	10.2	299.4	4.5	290.3
180.00	179.60	5.29	-9.63	11.0	298.8	4.6	291.2
190.00	189.56	5.58	-10.38	11.8	298.3	4.7	293.1
200.00	199.53	5.90	-11.10	12.6	298.0	4.6	295.9
210.00	209.50	6.27	-11.80	13.4	298.0	4.6	301.0
220.00	219.46	6.75	-12.52	14.2	298.3	5.3	304.3
230.00	229.42	7.33	-13.28	15.2	298.9	5.7	304.7
240.00	239.36	7.98	-14.09	16.2	299.5	6.2	308.8
250.00	249.30	8.70	-14.92	17.3	300.3	6.6	312.9
260.00	259.23	9.55	-15.79	18.5	301.2	7.4	315.7
270.00	269.14	10.51	-16.72	19.7	302.2	8.0	315.9
280.00	279.04	11.57	-17.65	21.1	303.2	8.2	319.9
290.00	288.93	12.76	-18.48	22.5	304.6	8.8	330.1
300.00	298.82	14.07	-19.24	23.8	306.2	8.8	331.3
310.00	308.70	15.44	-19.93	25.2	307.8	9.0	335.1
320.00	318.57	16.92	-20.56	26.6	309.5	9.7	339.0
328.98	327.39	18.34	-20.99	27.9	311.1	9.4	346.1

**Century**  
WIRELINE SERVICES

**GAMMA - CALIPER  
COMPENSATED DENSITY**  
2956

COMPANY: EAT WALLEY COAL  
WELL: 2956  
FIELD: CASTLE SOUTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA  
LOCATION: CASTLE SOUTH  
SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
APN NO.: N/A  
UNIQUE WELL ID: N/A  
PRESENTATION TITL: G1  
LOG MEASURED FROM: GL  
DRL MEASURED FROM: GL  
ELEVATION RB: N/A  
ELEVATION DF: N/A  
ELEVATION GL: N/A

OTHER SERVICES:  
8095  
8097

26 36 8 5005  
14 2697 8 885  
1746 2972

DATE: 08/15/08  
DEPTH DRILLER: 262  
BIT SIZE: 13.00  
LOG TOP: 0.25  
LOG BOTTOM: 263.44  
CASING OD: 15.75  
CASING BOTTOM: 18  
CASING TYPE: N/A  
BOREHOLE FLUID: WATER  
BOREHOLE TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: 1.0  
WITNESSED BY: J. GRESCHNIK  
REMARKS 1:  
REMARKS 2:

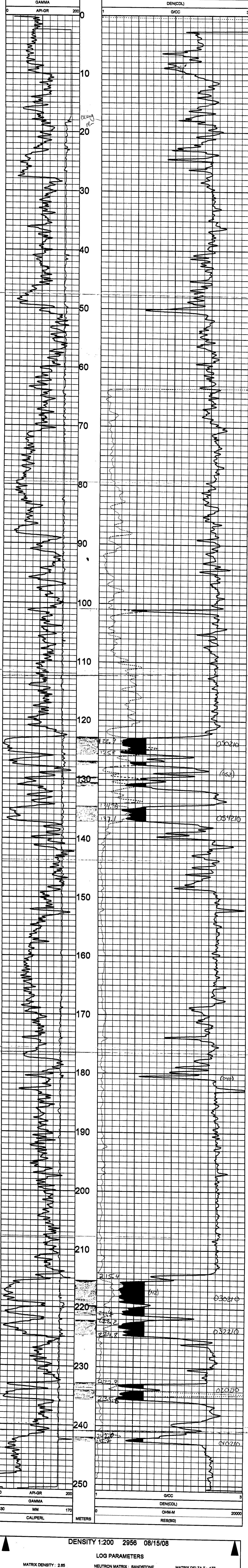
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

*Handwritten:* 8/15/08

DENSITY 1:200 2956 08/15/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/15/2008 VERSION = 3.64EK



DENSITY 1:200 2956 08/15/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.0 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
PRESENTATION NAME/DATE = 9239C1DENSITYSHADING.0 08/15/2008 VERSION = 3.64EK

TOOL CALIBRATION 2956 08/15/08 15:53  
TOOL: 9239C1 TM VERSION 2018  
SERIAL NUMBER: 410

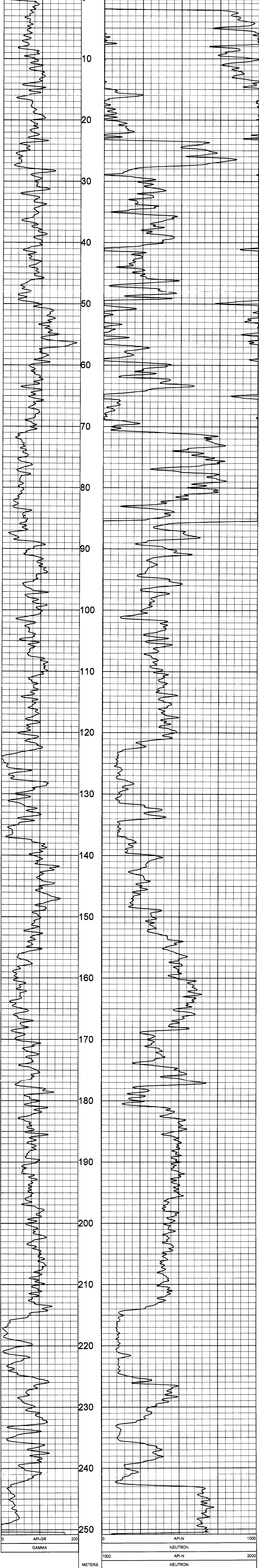
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jan18.08 13:44:47	GAMMA	0.000	
1	Jan18.08 13:44:47	GAMMA	283.000 [API-GR]	10.00 [CPS]
2	May15.08 08:51:47	VOLTAGE	32.200 [MV]	291.00 [CPS]
2	May15.08 08:51:47	VOLTAGE	254.000 [MV]	9010.50 [CPS]
3	May31.08 18:30:29	CALIPER	513.000 [INCH]	38436.70 [CPS]
3	May31.08 18:30:29	CALIPER	580.000 [INCH]	421520.00 [CPS]
4	May15.08 10:36:55	DEN(LS)	1.000 [G/CC]	37765.30 [CPS]
4	May15.08 10:36:55	DEN(LS)	2.323 [G/CC]	499930.00 [CPS]
5	May15.08 10:37:23	DEN(SS)	1.000 [G/CC]	3351.50 [CPS]
5	May15.08 10:37:23	DEN(SS)	2.323 [G/CC]	52471.70 [CPS]
6	May31.08 18:37:45	CALIPERL	128.250 [INCH]	421520.00 [CPS]
6	May31.08 18:37:45	CALIPERL	145.000 [INCH]	30263.50 [CPS]
7	May15.08 08:51:36	CURRENT	32.200 [UA]	6641.50 [CPS]
7	May15.08 08:51:36	CURRENT	254.000 [UA]	68430.00 [CPS]
8	Nov02.08 11:52:08	X	Default [CPS]	25585.50 [CPS]

COMPANY	ELK VALLEY COAL	OTHER SERVICES
WELL	2956	9239
FIELD	CASTLE SOUTH	9655
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
LOCATION	CASTLE SOUTH	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID		
PERMANENT DATUM	GL	ELEVATION RB N/A
LOG MEASURED FROM GL		ELEVATION DF N/A
DRI. MEASURED FROM GL		ELEVATION GI N/A
DATE	08/15/08	
DEPTH DRILLER	252	
BIT SIZE	13	
LOG TOP	0.33	
LOG BOTTOM	230.78	
CASING OD	15.75	
CASING BOTTOM	18	
CASING TYPE	N/A	
BOREHOLE FLUID	WATER	
RIN TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	J. GRESCHUK	
RECORDED BY		
REMARKS 1		
REMARKS 2		

NEUTRON 1:200 2956 08/15/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/15/2008      VERSION = 3.64EK



NEUTRON 1:200 2956 08/15/08

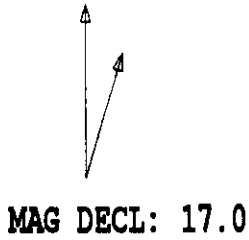
LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/15/2008      VERSION = 3.64EK

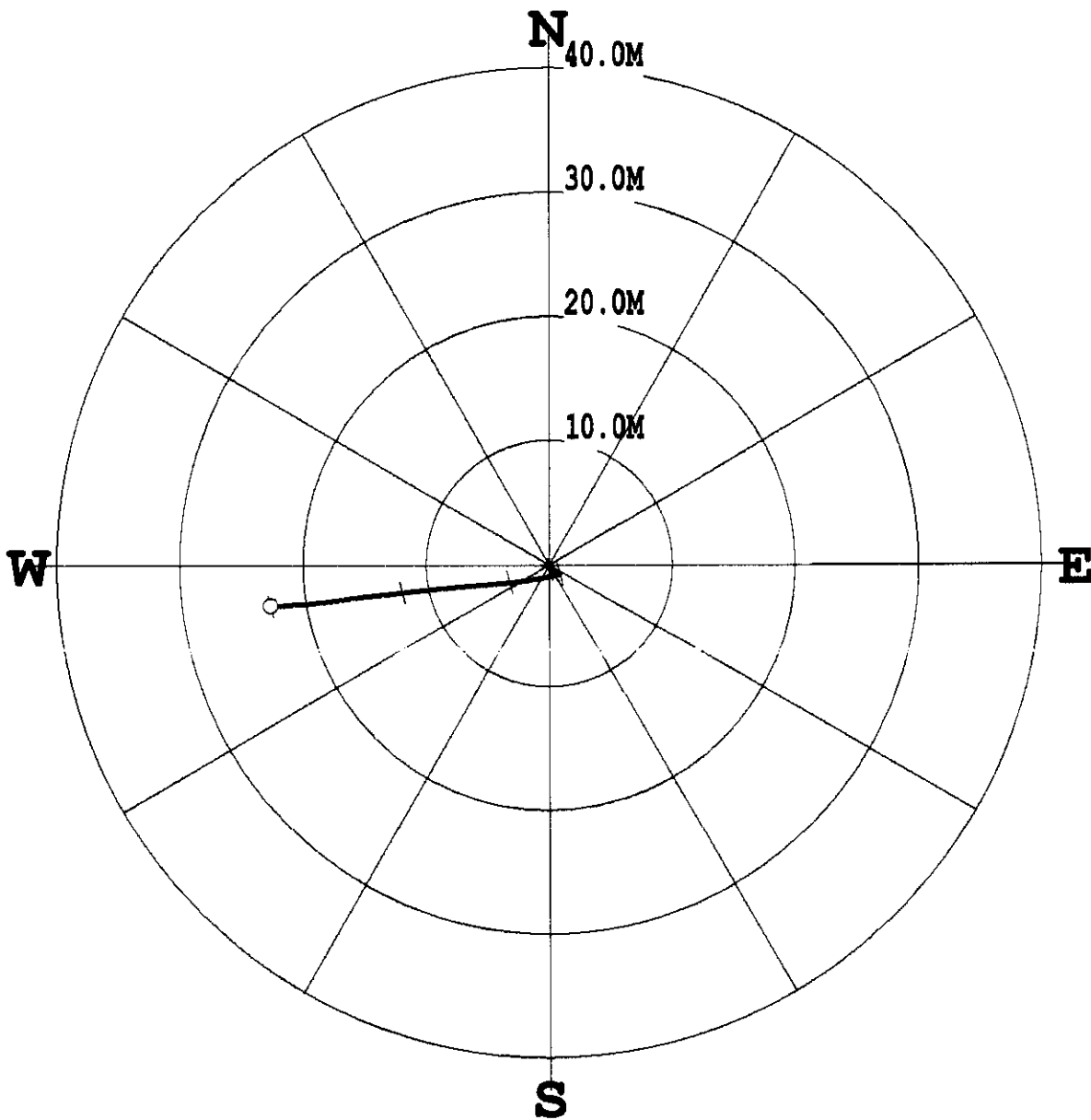
TOOL CALIBRATION 2956 08/15/08 08:20		TOOL 9067A TM VERSION 1		SERIAL NUMBER 530	
DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR ]	1.00	[CPS]
	Jul20.07 01:44:30	GAMMA	250.000 [API-GR ]	52.00	[CPS]
2	Sep03.06 10:47:15	NEUTRON	1.000 [API-N ]	1.00	[CPS]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N ]	500.00	[CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2956  
 DATE OF LOG: 08/15/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 248.82 M  
 AZIMUTH: 261.6  
 DISTANCE: 22.8 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2956  
 FIELD OFFICE : CENTURY GEO                    DATE OF LOG : 08/15/08  
 DATA FROM : N/A                                PROBE : 9055A ,                      72  
 MAG. DECL. : 17.000                            DEPTH UNITS : METERS  
 LOG: 2956\_08-15-08\_14-56\_9055A\_.02\_22.27\_251.02\_DEVI.Log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
25.00	24.99	-0.02	0.01	0.0	151.4	1.1	169.6
35.00	34.99	-0.14	-0.01	0.1	184.0	0.8	202.6
45.00	44.99	-0.27	0.01	0.3	177.9	1.4	127.7
55.00	54.98	-0.44	0.18	0.5	157.8	1.8	121.8
65.00	64.98	-0.58	0.45	0.7	141.8	1.4	114.8
75.00	74.98	-0.67	0.73	1.0	132.2	1.5	108.4
85.00	84.97	-0.71	0.88	1.1	128.8	0.5	67.2
95.00	94.97	-0.70	0.89	1.1	128.4	0.3	339.2
105.00	104.97	-0.72	0.81	1.1	131.5	1.3	245.6
115.00	114.96	-0.82	0.45	0.9	151.3	3.3	255.4
125.00	124.93	-0.99	-0.29	1.0	196.5	5.3	258.0
135.00	134.88	-1.16	-1.30	1.7	228.2	6.6	261.3
145.00	144.81	-1.34	-2.49	2.8	241.7	7.4	263.4
155.00	154.71	-1.49	-3.86	4.1	248.9	8.4	264.4
165.00	164.59	-1.62	-5.39	5.6	253.3	9.2	266.3
175.00	174.46	-1.75	-7.05	7.3	256.1	10.1	265.2
185.00	184.29	-1.92	-8.86	9.1	257.8	11.0	265.0
195.00	194.10	-2.11	-10.75	11.0	258.9	10.9	264.6
205.00	203.91	-2.33	-12.69	12.9	259.6	11.5	264.1
215.00	213.71	-2.53	-14.69	14.9	260.2	11.7	264.1
225.00	223.48	-2.81	-16.78	17.0	260.5	12.6	261.6
235.00	233.23	-3.08	-18.98	19.2	260.8	13.0	263.1
245.00	242.97	-3.25	-21.19	21.4	261.3	13.6	267.2
251.02	248.78	-3.34	-22.59	22.8	261.6	13.2	263.4



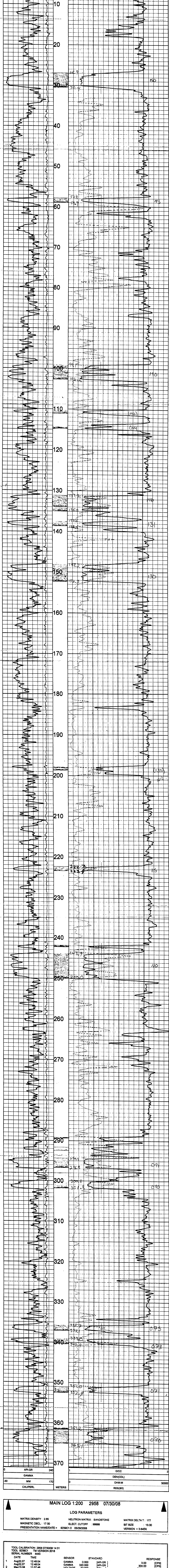
COMPANY	EL VALLE TOOL CORPORATION	OTHER SERVICES:	
WELL	2958	WSS	
FIELD	FORDING RIVER OPERATIONS	WRT	
PROVINCE	COahuila		
LOCATION	N/A		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
LICENSE NO.	N/A		
UNIQUE WELL ID	N/A	ELEVATION IN N/A	2.7558 S/D
PREPARED BY	EL	ELEVATION OF N/A	1.2955 T/96
LOG REQUISIT FROM	DL	ELEVATION OF N/A	RDS-71
DATE	07/30/08		
DEPTH DILLER	371		
BIT SIZE	13/32		
LOG TOP	21.94		
LOG BOTTOM	37.98		
CASING LOGGER	N/A		
CASING DILLER	N/A		
CASING TYPE	8		
ROBUSTOL FLUID	WATER		
ROBUSTOL TEMPERATURE	N/A		
MAID WES	N/A		
MAID WEIGHT	1.0		
WITNESSED BY	JES DRILLING		
RECORDED BY	3: BAYLOCK		
REMARKS 1			
REMARKS 2			

*Aug 18, 2008*

**MAIN LOG 1:200 2958 07/30/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.00 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
 PRESENTATION NAME/DATE = 9239C1.0 05/29/2008 VERSION = 3.64EK



**MAIN LOG 1:200 2958 07/30/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.00 ELECT. CUTOFF: 99999 BIT SIZE: 13.00  
 PRESENTATION NAME/DATE = 9239C1.0 05/29/2008 VERSION = 3.64EK

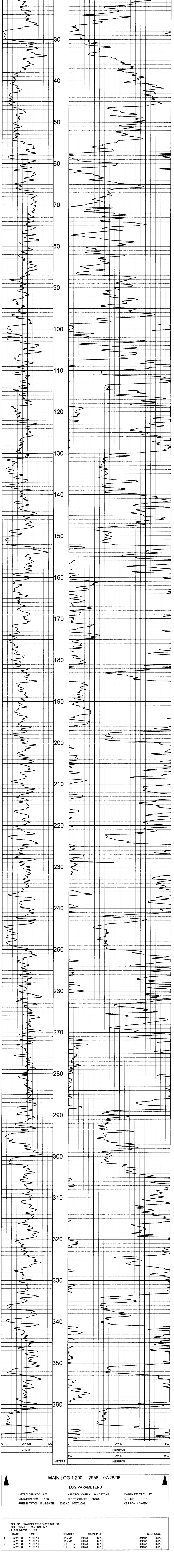
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
2	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
3	May13,08 11:07:48	VOLTAGE	32.400 [MV]	7335.30 [CPS]
4	Aug30,07 15:43:39	CALIPER	89.000 [INCH]	98850.00 [CPS]
5	Aug30,07 15:43:39	CALIPER	343.000 [INCH]	420450.00 [CPS]
6	May13,08 15:57:42	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
7	May13,08 15:57:42	DEN(S)	2.323 [G/CC]	73088.50 [CPS]
8	May13,08 15:57:55	DEN(SS)	1.000 [G/CC]	25243.90 [CPS]
9	May13,08 10:58:05	CALIPER	100.000 [INCH]	112403.20 [CPS]
10	May13,08 10:58:05	CALIPER	200.000 [INCH]	215587.50 [CPS]
11	May13,08 11:09:11	CURRENT	33.000 [UA]	7762.80 [CPS]
12	Aug20,07 18:08:26	CURRENT	252.400 [UA]	28347.60 [CPS]
13	Aug20,07 18:08:26	F	Default [CPS]	
14	Aug20,07 18:08:26	X	Default [CPS]	

COMPANY	ELEVATEL COAL CORPORATION	OTHER SERVICES	8095
FIELD	2958	FOODING RIVER OPERATIONS	8097
COUNTY	CANAWHA		
PROVINCE	NC		
LOCATION	N/A		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
LICENCE NO.	N/A		
UNIQUE WELL ID.	N/A		
PERMANENT DUTUM TEL.		ELEVATION KB N/A	
LOG MEASURED FROM OIL		ELEVATION DR N/A	
DRIL MEASURED FROM OIL		ELEVATION GI N/A	
DATE	07/28/08		
DEPTH DRILLER	371		
BIT SIZE	13		
LOG TOP	0.37		
LOG BOTTOM	286.75		
CASING LOGGER	N/A		
CASING TYPE	6		
CASING JOINT	STEEL		
BOHOSCALE FLUID	WATER		
WELL TEMPERATURE	N/A		
WELL WEIGHT	1.0		
WARRANTSSED BY	SBS DRILLING		
RECORDED BY	J. BLAYLOCK		
REMARKS 1			
REMARKS 2			

MAIN LOG 1:200 2958 07/28/08

LOG PARAMETERS

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.00      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9087A.0 05/27/2008      VERSION = 3.64EK



MAIN LOG 1:200 2958 07/28/08

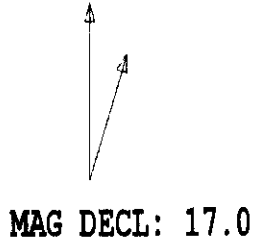
LOG PARAMETERS

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.00      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9087A.0 05/27/2008      VERSION = 3.64EK

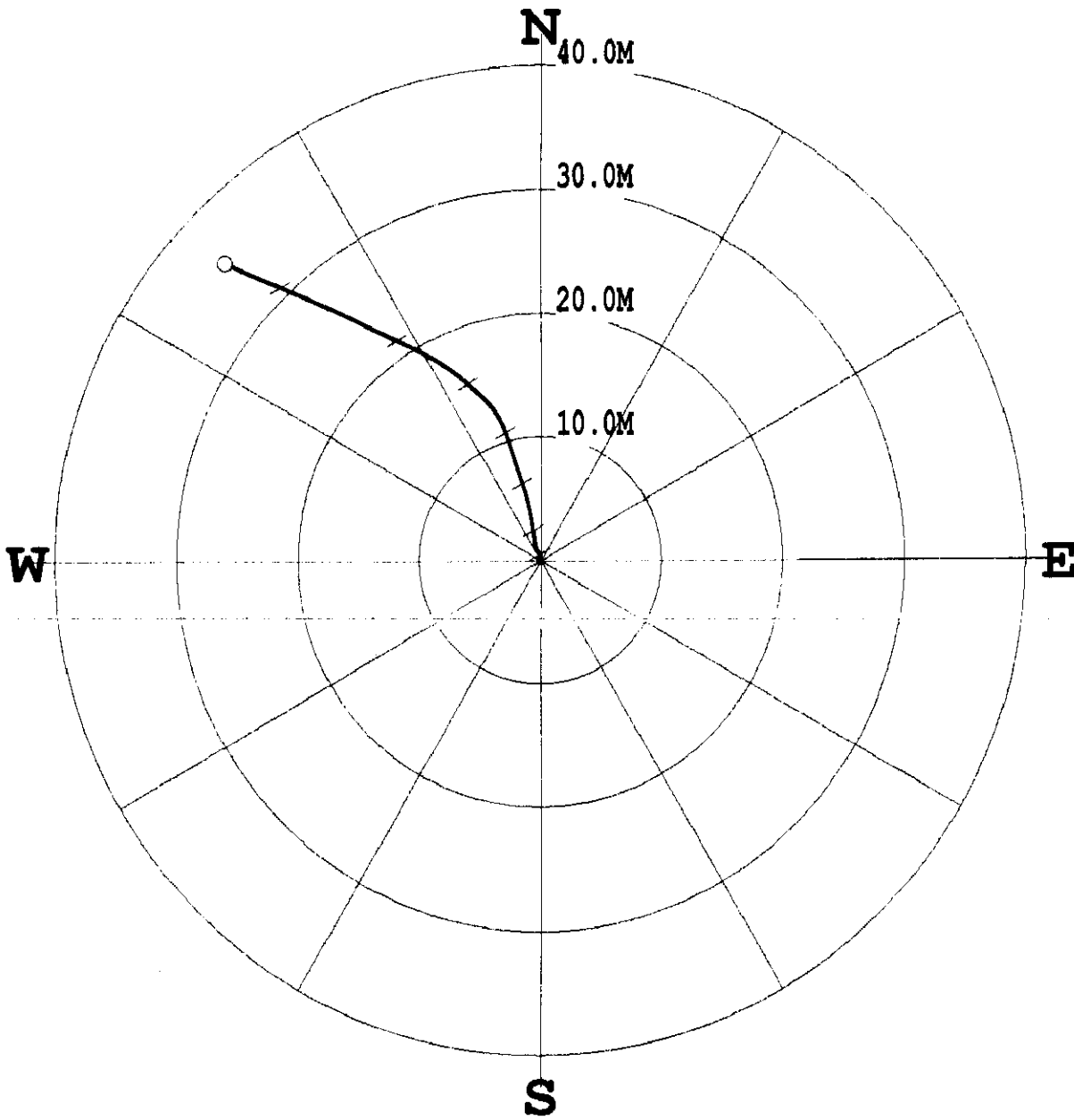
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jun26.06 11:00:19	GAMMA	Default (CPS)	Default (CPS)
2	Jun26.06 11:00:19	NEUTRON	Default (CPS)	Default (CPS)

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL CORPORATION  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2958  
 DATE OF LOG: 07/30/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 368.15 M  
 AZIMUTH: 312.8  
 DISTANCE: 35.4 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL COR HOLE ID. : 2958  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 07/30/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2958\_07-30-08\_13-34\_9055A\_.02\_1.34\_371.06\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	-0.01	-0.02	0.0	242.7	0.5	8.4
20.00	20.00	0.09	-0.01	0.1	352.5	0.8	8.3
30.00	30.00	0.20	-0.00	0.2	359.8	0.7	9.8
40.00	40.00	0.37	-0.03	0.4	355.3	0.9	341.0
50.00	50.00	0.50	-0.08	0.5	350.4	1.1	339.3
60.00	59.99	0.63	-0.18	0.7	344.2	1.0	319.2
70.00	69.99	0.84	-0.32	0.9	339.3	1.5	333.1
80.00	79.98	1.18	-0.45	1.3	339.3	2.5	342.5
90.00	89.97	1.75	-0.53	1.8	343.1	3.3	355.3
100.00	99.94	2.43	-0.63	2.5	345.5	4.0	352.3
110.00	109.92	3.12	-0.72	3.2	347.0	3.9	350.2
120.00	119.89	3.85	-0.85	3.9	347.5	4.3	348.9
130.00	129.86	4.59	-1.02	4.7	347.5	4.8	346.3
140.00	139.83	5.40	-1.23	5.5	347.2	4.9	347.0
150.00	149.79	6.23	-1.49	6.4	346.6	4.8	341.4
160.00	159.75	7.08	-1.78	7.3	345.9	5.4	341.7
170.00	169.70	7.94	-2.07	8.2	345.4	5.1	341.1
180.00	179.67	8.77	-2.34	9.1	345.0	5.1	342.1
190.00	189.63	9.56	-2.61	9.9	344.7	4.6	342.2
200.00	199.60	10.30	-2.89	10.7	344.3	4.5	337.3
210.00	209.56	11.09	-3.22	11.6	343.8	5.2	335.5
220.00	219.51	11.94	-3.72	12.5	342.7	6.1	324.3
230.00	229.46	12.78	-4.40	13.5	341.0	6.4	317.3
240.00	239.40	13.55	-5.18	14.5	339.1	5.8	314.6
250.00	249.34	14.24	-5.95	15.4	337.3	6.0	308.7
260.00	259.28	14.92	-6.78	16.4	335.5	6.4	307.7
270.00	269.21	15.61	-7.74	17.4	333.6	7.7	303.3
280.00	279.12	16.33	-8.89	18.6	331.4	8.0	299.8
290.00	289.00	17.04	-10.22	19.9	329.0	9.1	296.8
300.00	298.88	17.73	-11.66	21.2	326.7	9.4	295.7
310.00	308.74	18.44	-13.16	22.6	324.5	10.1	294.9
320.00	318.57	19.22	-14.81	24.3	322.4	11.0	295.7
330.00	328.36	20.09	-16.67	26.1	320.3	12.5	295.1
340.00	338.10	21.02	-18.72	28.1	318.3	13.3	292.5
350.00	347.82	21.92	-20.89	30.3	316.4	14.1	293.0
360.00	357.49	22.88	-23.24	32.6	314.6	15.3	293.3
370.00	367.13	23.91	-25.69	35.1	312.9	15.9	292.2
371.06	368.11	24.01	-25.95	35.4	312.8	15.8	292.8



COMPANY: ELK VALLEY COAL CORPORATION

WELL: 2961

LOCATION: 7 - 2ND RIVER OPERATIONS

LOG NUMBER: 072608

DATE: 05/27/2008

LOG LENGTH: 448

LOG START: 13

LOG END: 448

LOG START DEPTH: 0.00

LOG END DEPTH: 448.00

LOG START TIME: 11:00:19

LOG END TIME: 11:00:19

LOG START DATE: 05/27/2008

LOG END DATE: 05/27/2008

LOG START TIME: 11:00:19

LOG END TIME: 11:00:19

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LOG START DATE: 05/27/2008

OTHER SERVICES:

LOG START TIME: 11:00:19

LOG END TIME: 11:00:19

LOG START DATE: 05/27/2008

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LOG END TIME: 11:00:19

LOG START DATE: 05/27/2008

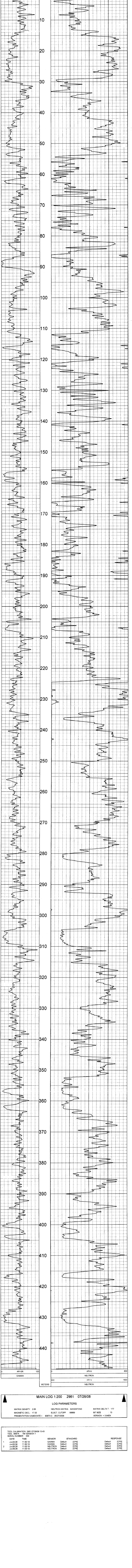
LOG END DATE: 05/27/2008

LOG START TIME: 11:00:19

LOG END TIME: 11:00:19

LOG START DATE: 05/27/2008

LOG END DATE: 05/27/2008



MAIN LOG 1:200 2961 07/26/08

LOG PARAMETERS

MATRIX DENSITY: 2.85 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177

MAGNETIC DECL: 17.00 ELECT. CUTOFF: 99999 BIT SIZE: 13

PRESENTATION NAME/DATE = 9097A 0 05/27/2008 VERSION = 3.64EK

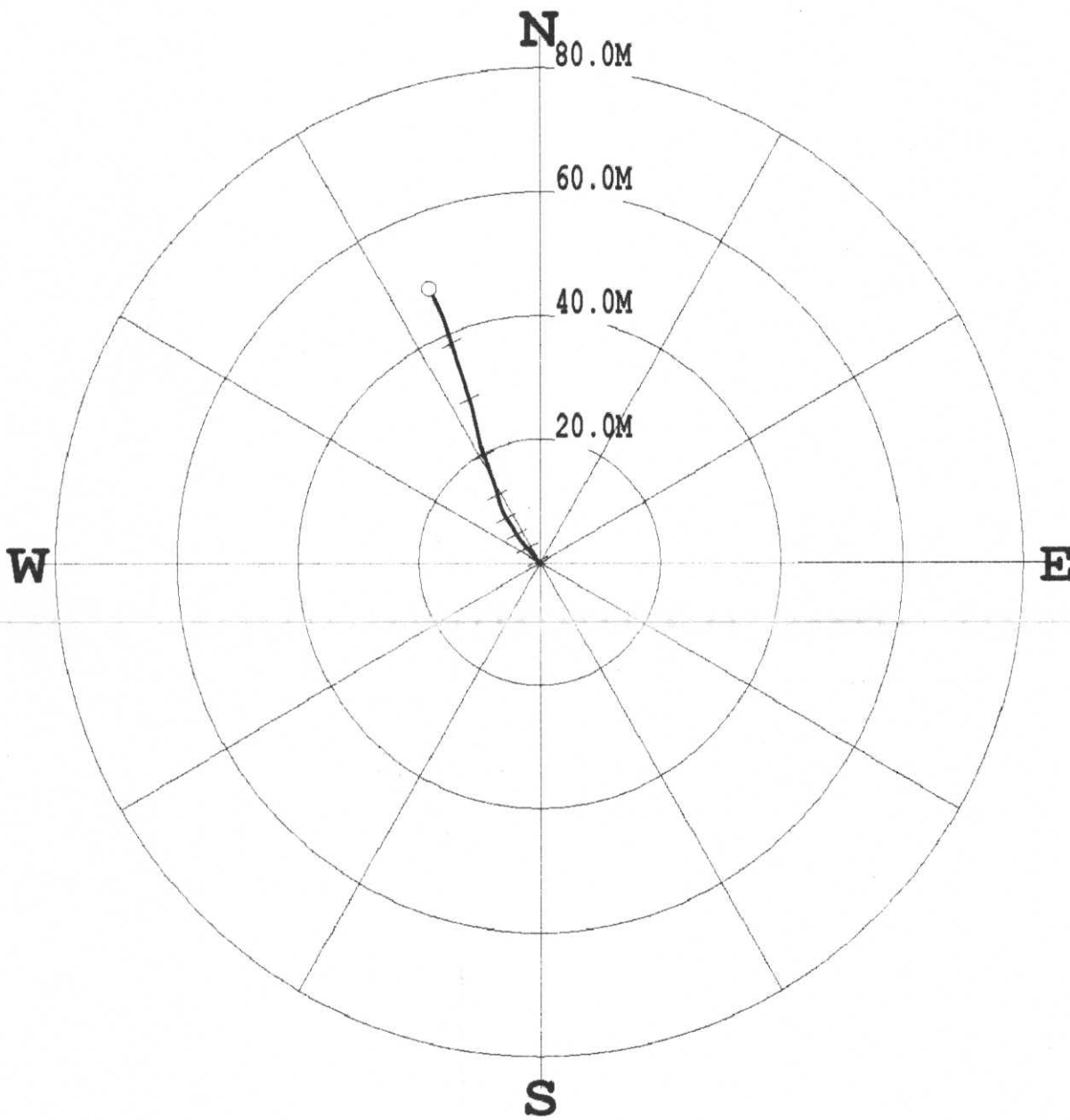
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jun 26, 06 11:00:19	GAMMA	Default (CPS)	Default (CPS)
2	Jun 26, 06 11:00:19	NEUTRON	Default (CPS)	Default (CPS)

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL CORPORATION  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2961  
 DATE OF LOG: 07/27/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 443.48 M  
 AZIMUTH: 337.6  
 DISTANCE: 47.8 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL COR HOLE ID. : 2961  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 07/27/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2961\_07-27-08\_16-18\_9055A\_02\_0.48\_447.19\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.00	-0.02	0.0	280.2	0.2	230.0
20.00	20.00	-0.02	-0.05	0.1	244.3	0.4	162.9
30.00	30.00	-0.05	-0.08	0.1	238.2	0.2	253.0
40.00	40.00	0.05	-0.15	0.2	288.5	1.4	323.8
50.00	49.99	0.30	-0.31	0.4	314.5	2.0	323.7
60.00	59.99	0.58	-0.53	0.8	317.9	2.2	320.0
70.00	69.98	0.95	-0.84	1.3	318.4	3.4	321.3
80.00	79.96	1.39	-1.25	1.9	318.1	3.5	316.5
90.00	89.94	1.87	-1.65	2.5	318.6	3.7	319.0
100.00	99.92	2.35	-2.07	3.1	318.7	3.6	318.7
110.00	109.90	2.82	-2.49	3.8	318.6	3.4	316.9
120.00	119.88	3.26	-2.88	4.3	318.5	3.0	320.1
130.00	129.87	3.64	-3.19	4.8	318.8	2.7	323.8
140.00	139.85	4.10	-3.50	5.4	319.5	3.7	329.8
150.00	149.83	4.64	-3.83	6.0	320.4	3.3	329.1
160.00	159.81	5.16	-4.15	6.6	321.2	3.6	327.6
170.00	169.79	5.69	-4.50	7.3	321.7	4.0	329.7
180.00	179.77	6.23	-4.87	7.9	322.0	3.3	326.5
190.00	189.75	6.73	-5.19	8.5	322.4	3.5	329.1
200.00	199.73	7.27	-5.54	9.1	322.7	3.9	327.9
210.00	209.71	7.87	-5.90	9.8	323.1	4.0	326.5
220.00	219.68	8.49	-6.19	10.5	323.9	4.7	326.5
230.00	229.65	9.27	-6.50	11.3	325.0	5.2	344.6
240.00	239.61	10.12	-6.78	12.2	326.2	5.3	342.8
250.00	249.56	11.00	-7.06	13.1	327.3	5.6	340.6
260.00	259.52	11.95	-7.30	14.0	328.6	6.1	347.7
270.00	269.45	13.03	-7.62	15.1	329.7	6.9	340.8
280.00	279.36	14.27	-8.08	16.4	330.5	8.1	338.5
290.00	289.24	15.71	-8.61	17.9	331.3	9.3	340.9
300.00	299.10	17.30	-9.19	19.6	332.0	10.0	339.0
310.00	308.95	18.94	-9.74	21.3	332.8	12.0	346.5
320.00	318.78	20.70	-10.14	23.1	333.9	10.6	348.5
330.00	328.60	22.53	-10.56	24.9	334.9	11.2	346.0
340.00	338.42	24.38	-11.02	26.8	335.7	10.5	345.4
350.00	348.23	26.21	-11.51	28.6	336.3	11.0	340.9
360.00	358.06	27.97	-12.09	30.5	336.6	10.4	341.7
370.00	367.90	29.67	-12.64	32.3	336.9	10.6	342.2
380.00	377.72	31.45	-13.24	34.1	337.2	10.7	341.8
390.00	387.54	33.23	-13.86	36.0	337.4	10.9	338.7
400.00	397.35	35.08	-14.46	37.9	337.6	11.2	340.3
410.00	407.16	36.91	-15.07	39.9	337.8	11.3	341.1
420.00	416.95	38.84	-15.74	41.9	337.9	12.1	339.8
430.00	426.71	40.82	-16.54	44.0	337.9	12.8	335.5
440.00	436.47	42.79	-17.53	46.2	337.7	12.9	332.3
447.20	443.44	44.21	-18.25	47.8	337.6	13.6	332.0

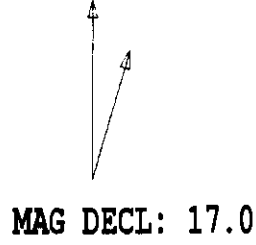




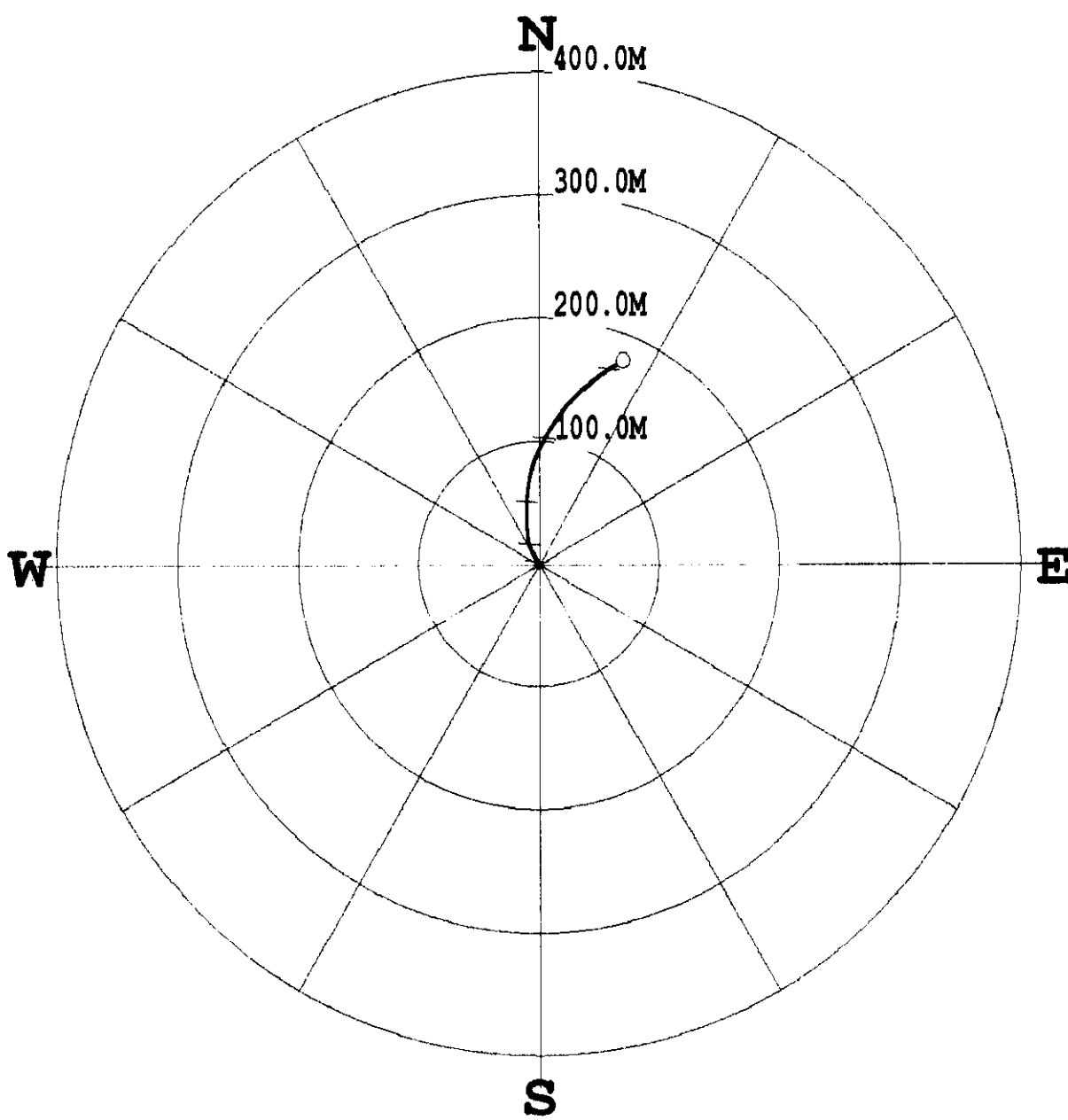


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL CORPORATION  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2964  
 DATE OF LOG: 07/23/08  
 PROBE: 9055A 72



SCALE: 50 M/CM  
 TRUE DEPTH: 515.39 M  
 AZIMUTH: 23.2  
 DISTANCE: 179.3 M  
 + = 100 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL COR HOLE ID. : 2964  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 07/23/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2964\_07-23-08\_16-25\_9055A\_.02\_1.36\_569.14\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.02	0.04	0.0	64.2	0.7	27.8
20.00	20.00	0.10	0.08	0.1	38.2	0.5	346.5
30.00	30.00	0.19	0.09	0.2	25.9	1.3	13.9
40.00	40.00	0.38	0.03	0.4	4.2	1.2	336.4
50.00	49.99	0.58	-0.10	0.6	349.9	1.5	329.7
60.00	59.99	0.87	-0.32	0.9	339.6	2.9	329.0
70.00	69.97	1.28	-0.64	1.4	333.6	3.2	341.2
80.00	79.96	1.77	-0.92	2.0	332.5	3.3	354.8
90.00	89.93	2.35	-1.27	2.7	331.7	4.1	330.7
100.00	99.90	3.03	-1.63	3.4	331.7	4.4	330.5
110.00	109.87	3.72	-2.01	4.2	331.6	4.4	331.2
120.00	119.84	4.45	-2.40	5.1	331.7	5.1	336.2
130.00	129.79	5.34	-2.86	6.1	331.8	6.3	332.8
140.00	139.71	6.41	-3.43	7.3	331.8	7.9	332.0
150.00	149.61	7.68	-4.15	8.7	331.6	8.3	332.4
160.00	159.48	9.04	-4.90	10.3	331.5	9.4	331.8
170.00	169.34	10.53	-5.70	12.0	331.6	10.4	333.7
180.00	179.15	12.31	-6.50	13.9	332.2	12.0	338.3
190.00	188.91	14.33	-7.25	16.1	333.2	12.9	340.1
200.00	198.63	16.57	-7.95	18.4	334.4	13.7	343.8
210.00	208.31	18.99	-8.59	20.8	335.7	14.9	346.5
220.00	217.95	21.61	-9.10	23.5	337.2	15.9	351.0
230.00	227.53	24.44	-9.46	26.2	338.8	17.3	354.3
240.00	237.05	27.50	-9.69	29.2	340.6	18.4	356.8
250.00	246.51	30.72	-9.88	32.3	342.2	19.6	357.0
260.00	255.92	34.12	-10.00	35.6	343.7	20.0	358.7
270.00	265.31	37.56	-10.10	38.9	344.9	20.3	358.5
280.00	274.67	41.07	-10.16	42.3	346.1	20.8	359.6
290.00	283.98	44.72	-10.13	45.9	347.2	21.9	1.1
300.00	293.24	48.50	-10.06	49.5	348.3	22.2	0.8
310.00	302.50	52.27	-9.96	53.2	349.2	22.4	2.2
320.00	311.70	56.18	-9.74	57.0	350.2	23.6	3.4
330.00	320.82	60.27	-9.33	61.0	351.2	25.1	6.9
340.00	329.81	64.61	-8.73	65.2	352.3	26.9	9.3
350.00	338.67	69.16	-7.92	69.6	353.5	28.0	11.8
360.00	347.50	73.75	-6.91	74.1	354.6	28.1	13.3
370.00	356.30	78.36	-5.78	78.6	355.8	28.9	15.8
380.00	365.02	83.05	-4.38	83.2	357.0	29.7	17.4
390.00	373.67	87.77	-2.67	87.8	358.3	30.3	21.5
400.00	382.27	92.47	-0.69	92.5	359.6	30.9	24.8
410.00	390.79	97.14	1.67	97.2	1.0	32.2	28.3
420.00	399.20	101.84	4.33	101.9	2.4	33.4	31.7
430.00	407.51	106.58	7.25	106.8	3.9	34.1	32.0
440.00	415.73	111.38	10.33	111.9	5.3	34.7	29.3
450.00	423.78	116.31	13.61	117.1	6.7	37.4	39.2
460.00	431.71	121.24	17.17	122.5	8.1	37.7	36.9
470.00	439.60	126.12	20.91	127.8	9.4	38.2	38.4
480.00	447.44	130.81	24.97	133.2	10.8	38.3	44.6
490.00	455.30	135.22	29.30	138.4	12.2	38.1	47.5
500.00	463.19	139.47	33.74	143.5	13.6	38.3	47.7
510.00	470.99	143.52	38.51	148.6	15.0	39.8	50.2
520.00	478.68	147.50	43.50	153.8	16.4	40.0	53.4
530.00	486.28	151.44	48.65	159.1	17.8	41.3	53.3
540.00	493.78	155.27	54.05	164.4	19.2	41.7	55.6
550.00	501.18	158.93	59.42	169.7	20.5	42.0	59.6
560.00	508.62	162.10	65.29	174.8	21.9	41.2	63.5
569.14	515.36	164.83	70.49	179.3	23.2	41.7	64.8

**Century**  
WIRELINE SERVICES

**GAMMA - CALIPER  
COMPENSATED DENSITY**  
2967

*Chad*

COMPANY	WELL	OTHER SERVICES	
FIELD	CASTLE SOUTH	9007	
COUNTRY	CASTLE SOUTH	9007	
PROVINCE	CASTLE SOUTH		
LOCATION	CASTLE SOUTH		
SECTION			
TOWNSHIP			
RANGE			
API NO.			
UNDER WELL ID.			
PERMANENT DTDUM	24554, 5332		
LOG MEASURED FROM GIL	14246, 082		
DATE MEASURED FROM GIL	1746, 894		
PERMANENT DTDUM			
ELEVATION DIA. N/A			
ELEVATION DIA. N/A			
LOG MEASURED FROM GIL			
DATE MEASURED FROM GIL			
DEPTH DRILLER	228		
LOG TOP	13.00		
LOG BOTTOM	322.78		
CASING O.D.	15.875		
CASING BOTTOM	8		
ROBHOLE FLUID	WATER		
ROBHOLE TYPE	N/A		
RM TEMPERATURE	N/A		
MAX RES	N/A		
WELL REPORT	1-8		
WITNESSED BY	J. GRESCHUK		
RECORDED BY			
REMARKS 1			
REMARKS 2			

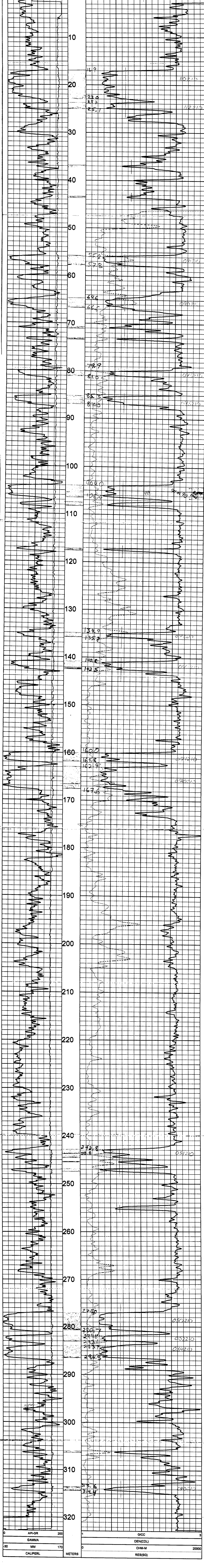
All services provided subject to standard terms and conditions.

Aug 18, 2008

**MAIN LOG 1:200 2967 08/13/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL. : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9239C1.0 08/13/2008      VERSION = 3.64EK



**MAIN LOG 1:200 2967 08/13/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL. : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
PRESENTATION NAME/DATE = 9239C1.0 08/13/2008      VERSION = 3.64EK

TOOL CALIBRATION 2967 08/13/08 14:25  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 410

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jan18,08 13:44:47	GAMMA	0.000 [API-GR]	10.00 [CPS]
1	Jan18,08 13:44:47	GAMMA	283.000 [API-GR]	291.00 [CPS]
2	May15,08 08:51:47	VOLTAGE	32.200 [MV]	9010.50 [CPS]
2	May15,08 08:51:47	CALIPER	515.000 [INCH]	421529.00 [CPS]
3	May31,08 18:30:29	CALIPER	580.000 [INCH]	499930.00 [CPS]
3	May31,08 18:30:29	DEN(LS)	1.000 [G/C/C]	37785.30 [CPS]
4	May15,08 10:36:55	DEN(LS)	2.323 [G/C/C]	3351.50 [CPS]
4	May15,08 10:37:23	DEN(SS)	1.000 [G/C/C]	82471.70 [CPS]
5	May15,08 10:37:23	DEN(SS)	2.323 [G/C/C]	30293.50 [CPS]
6	May31,08 18:37:45	CALIPERL	128.250 [INCH]	421529.00 [CPS]
6	May31,08 18:37:45	CALIPERL	145.000 [INCH]	499930.00 [CPS]
7	May15,08 08:51:36	CURRENT	32.200 [UA]	6941.50 [CPS]
7	May15,08 08:51:36	CURRENT	254.000 [UA]	25585.50 [CPS]
8	Nov02,08 11:52:08	X	Default [CPS]	

COMPANY: ELK VALLEY COAL  
WELL: 2967  
FIELD: CASTLE SOUTH  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA  
LOCATION: CASTLE SOUTH  
SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
APR NO.: N/A  
UNIQUE WELL ID: N/A  
PERMANENT DATUM: SL  
LOG MEASURED FROM: GL  
DRL MEASURED FROM: GL

ELEVATION NG: N/A  
ELEVATION DA: N/A  
ELEVATION GL: N/A

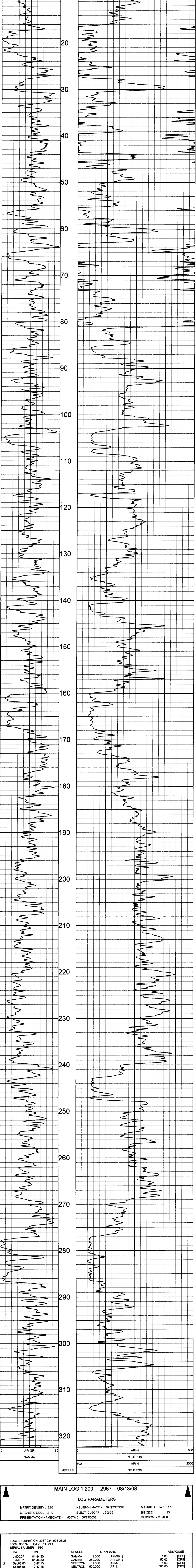
DATE: 08/13/08  
DEPTH DRILLER: 328  
BIT SIZE: 13  
LOG TOP: 0.34  
LOG BOTTOM: 322.38  
CASING OD: 19.875  
CASING BOTTOM: 5

ROBING TYPE: N/A  
ROBING FLUID: WATER  
RMT TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: 1.0  
WITNESSED BY: J.GRESCHUK  
RECORDED BY: J.GRESCHUK  
REMARKS 1:  
REMARKS 2:  
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

MAIN LOG 1:200 2967 08/13/08

LOG PARAMETERS

MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
MAGNETIC DECL: 21.0      ELECT. CUTOFF: 99999      BIT SIZE: 13  
PRESENTATION NAME/DATE: 9087A.0 08/13/2008      VERSION: 3.64EK



MAIN LOG 1:200 2967 08/13/08

LOG PARAMETERS

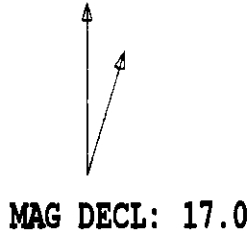
MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
MAGNETIC DECL: 21.0      ELECT. CUTOFF: 99999      BIT SIZE: 13  
PRESENTATION NAME/DATE: 9087A.0 08/13/2008      VERSION: 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
Jul20,07	01:44:30	GAMMA	1,000 [API-GR ]	1.00 [CPS]
Jul20,07	01:44:30	GAMMA	250,000 [API-GR ]	52.00 [CPS]
Sep03,08	10:47:15	NEUTRON	1,000 [API-N ]	1.00 [CPS]
Sep03,08	10:47:15	NEUTRON	500,000 [API-N ]	500.00 [CPS]

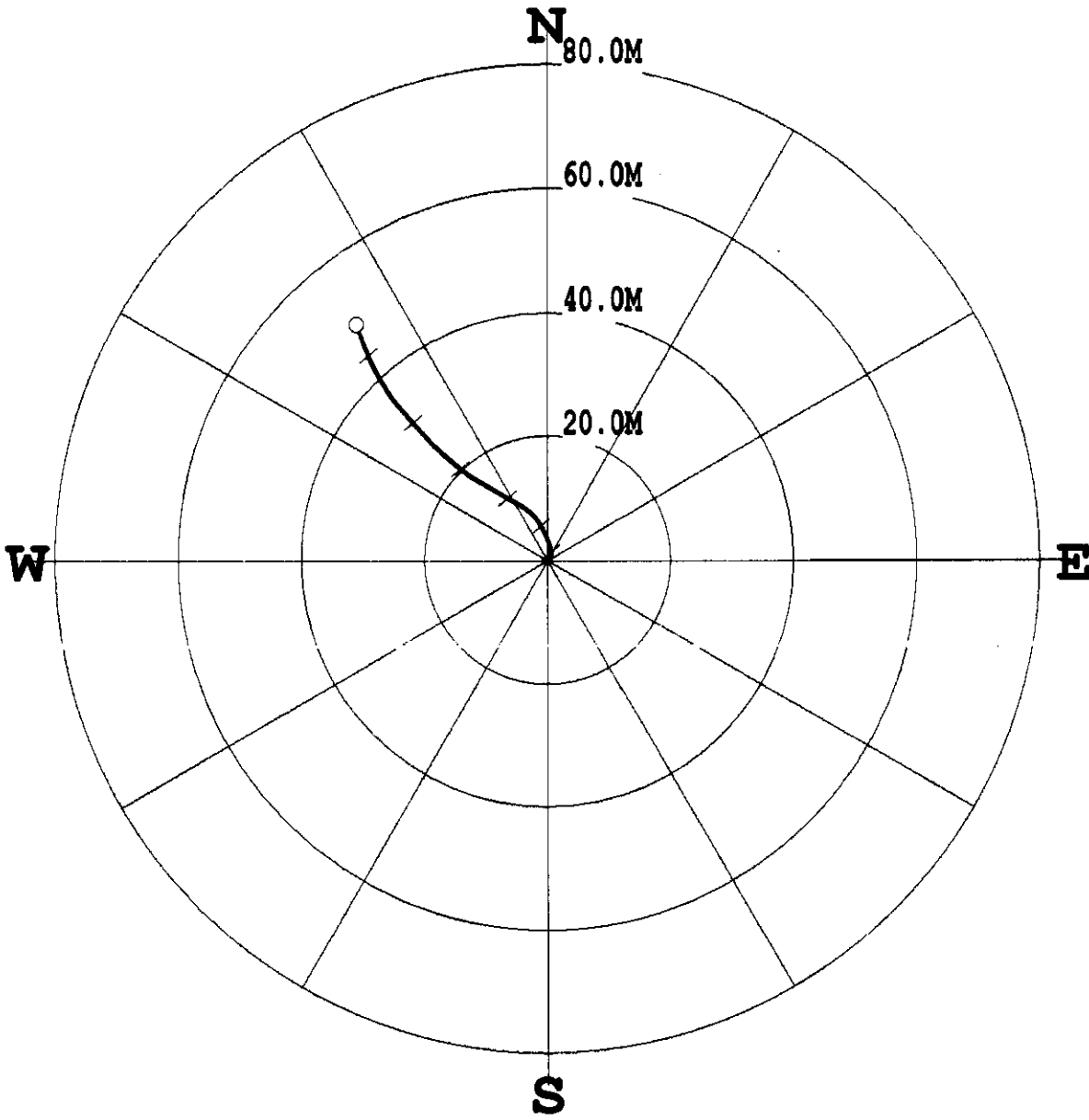
TOOL CALIBRATION 2967 08/13/08 05:28  
TOOL 9087A TM VERSION 1  
SERIAL NUMBER 530

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2967  
 DATE OF LOG: 08/13/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 317.72 M  
 AZIMUTH: 320.9  
 DISTANCE: 49.0 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2967  
 FIELD OFFICE : CENTURY GEO                    DATE OF LOG : 08/13/08  
 DATA FROM : N/A                                PROBE : 9055A ,                      72  
 MAG. DECL. : 17.000                            DEPTH UNITS : METERS  
 LOG: 2967\_08-13-08\_13-08\_9055A\_.02\_8.25\_322.96\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	9.99	0.00	0.01	0.0	76.5	1.6	67.0
20.00	19.99	0.12	0.26	0.3	65.9	1.9	63.0
30.00	29.98	0.41	0.50	0.6	50.6	2.6	33.7
40.00	39.97	0.86	0.64	1.1	36.4	3.2	8.0
50.00	49.95	1.44	0.63	1.6	23.7	3.5	354.0
60.00	59.92	2.13	0.47	2.2	12.4	4.4	344.1
70.00	69.89	2.89	0.22	2.9	4.3	5.0	338.1
80.00	79.85	3.73	-0.13	3.7	358.0	5.4	331.2
90.00	89.80	4.66	-0.55	4.7	353.3	5.8	334.9
100.00	99.74	5.57	-1.04	5.7	349.4	6.2	329.3
110.00	109.68	6.50	-1.63	6.7	345.9	6.7	320.4
120.00	119.61	7.37	-2.40	7.7	342.0	7.1	313.3
130.00	129.53	8.21	-3.40	8.9	337.5	8.1	306.5
140.00	139.39	9.10	-4.75	10.3	332.4	8.8	296.1
150.00	149.24	9.97	-6.29	11.8	327.8	10.1	299.0
160.00	159.08	10.83	-7.84	13.4	324.1	10.6	297.8
170.00	168.92	11.70	-9.40	15.0	321.2	10.1	299.3
180.00	178.77	12.55	-10.91	16.6	319.0	9.6	300.3
190.00	188.61	13.46	-12.40	18.3	317.3	10.3	303.7
200.00	198.44	14.51	-13.80	20.0	316.4	10.5	305.8
210.00	208.27	15.68	-15.26	21.9	315.8	11.3	309.1
220.00	218.06	17.00	-16.80	23.9	315.3	11.7	312.3
230.00	227.84	18.40	-18.34	26.0	315.1	12.3	314.7
240.00	237.61	19.94	-19.85	28.1	315.1	12.7	318.2
250.00	247.34	21.66	-21.37	30.4	315.4	13.7	319.0
260.00	257.04	23.47	-22.95	32.8	315.6	13.9	318.7
270.00	266.74	25.33	-24.56	35.3	315.9	14.5	318.9
280.00	276.41	27.37	-26.03	37.8	316.4	14.6	325.4
290.00	286.08	29.55	-27.36	40.3	317.2	14.6	330.6
300.00	295.71	31.93	-28.59	42.9	318.2	15.7	334.3
310.00	305.32	34.48	-29.67	45.5	319.3	16.3	338.3
320.00	314.89	37.19	-30.67	48.2	320.5	17.5	342.3
322.96	317.68	38.02	-30.94	49.0	320.9	17.8	342.9

**Central**  
WIRELINE SERVICES

**GAMMA - CALIPER  
COMPENSATED DENSITY**  
2969

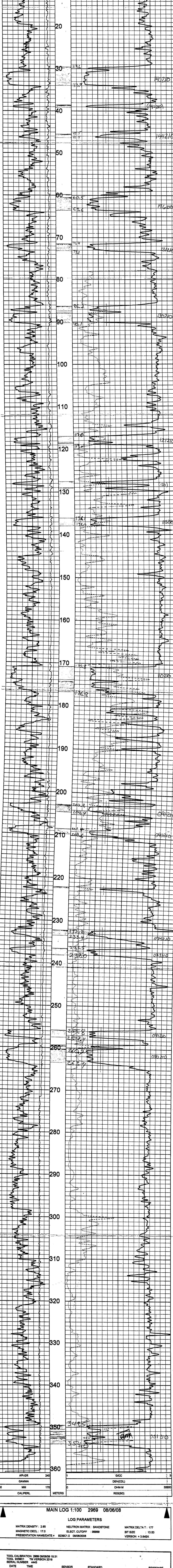
COMPANY: ELK VALLEY COAL  
WELL: 2969  
FIELD: FORDING RIVER OPERATIONS  
COUNTRY: CANADA  
PROVINCE: BRITISH COLUMBIA  
LOCATION: 27221, D60  
SECTION: N/A  
TOWNSHIP: 142539, 338  
RANGE: N/A  
ZONE: N/A  
UNIQUE WELL ID: N/A  
PERMANENT DATUM: ELEVATION: N/A  
LOCAL MEASURED FROM: ELEVATION: N/A  
DATE MEASURED FROM: ELEVATION: N/A  
DATE: 08/06/08  
DEPTH DILLER: 281  
BIT SIZE: 13.00  
LOG TOP: 327  
LOG BOTTOM: 360  
CASSING OD: 15.24  
CASSING TYPE: STEEL  
ROTHOLE FLUID: WATER  
NM TEMPERATURE: N/A  
MWD RES: N/A  
MWD WEIGHT: 11.0  
RECORDED BY: J. GRECHUK  
WITNESSED BY:  
REMARKS 1:  
REMARKS 2:  
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

*Handwritten:* 18, 2008

MAIN LOG 1:100 2969 08/06/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1.0 08/06/2008		VERSION = 3.84EK



MAIN LOG 1:100 2969 08/06/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1.0 08/06/2008		VERSION = 3.84EK

TOOL CALIBRATION 2969 08/06/08 15:31  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4443

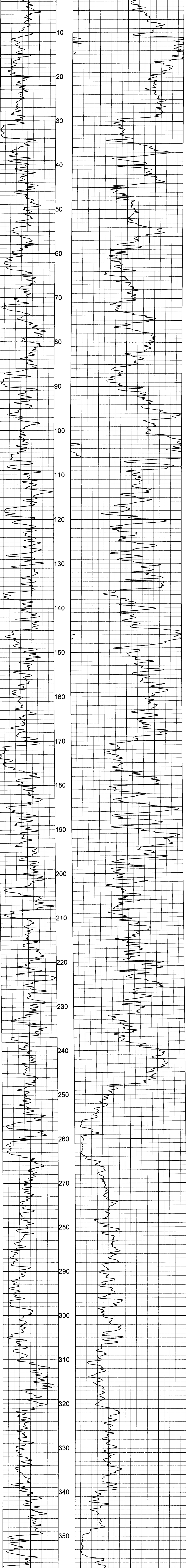
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22.07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
2	Aug22.07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
3	May13.08 11:07:48	VOLTAGE	32.000 [MV]	7355.30 [CPS]
4	Aug30.07 15:43:39	CALIPER	252.400 [INCH]	99830.00 [CPS]
5	Aug30.07 15:43:39	CALIPER	99.000 [INCH]	39714.70 [CPS]
6	May13.08 15:57:42	DEN(LS)	1.000 [G/CC]	3656.70 [CPS]
7	May13.08 15:57:42	DEN(LS)	2.323 [G/CC]	73388.50 [CPS]
8	May13.08 15:57:55	DEN(SS)	1.000 [G/CC]	25243.90 [CPS]
9	May13.08 15:57:55	DEN(SS)	2.323 [G/CC]	112403.20 [CPS]
10	May13.08 10:58:05	CALIPER	100.000 [INCH]	215687.50 [CPS]
11	May13.08 11:09:11	CALIPER	200.000 [INCH]	1762.80 [CPS]
12	May20.07 16:08:28	CURRENT	252.400 [UA]	26347.60 [CPS]
13	Aug20.07 16:08:28	F	Default [CPS]	
14	Aug20.07 16:08:28	X	Default [CPS]	

<b>Century</b> WIRELINE SERVICES		<b>SLIM GAMMA-NEUTRON</b>	
2969		2969	
COMPANY	ELIX WALLEY COAL	OTHER SERVICES	
WELL	2969	ENERGY	DRY
FIELD	FORBING RIVER OPERATIONS		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
LOCATION	SOUTH CASTLE		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A	ELEVATION TO N/A	
UNIQUE WELL ID.		ELEVATION OF N/A	
PERMANENT DATUM	SL	ELEVATION OF N/A	
LOG MEASURED FROM	SL	ELEVATION OF N/A	
DRI. MEASURED FROM	SL		
DATE	08/06/08		
DEPTH DRILLER	281		
BIT SIZE	13		
LOG TOP	0.38		
LOG BOTTOM	352.4		
CASING O.D.	152.4		
CASING BOTTOM	3		
CASING TYPE	STEEL		
BORING/LE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SOS		
RECORDED BY	J. RECSCHUK		
REMARKS 1			
REMARKS 2			

MAIN LOG 1:100 2969 08/06/08

LOG PARAMETERS

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 21.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.D 08/06/2008      VERSION = 3.64EK



MAIN LOG 1:100 2969 08/06/08

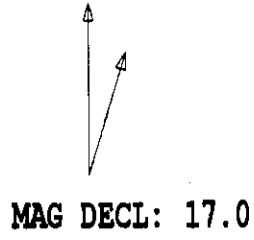
LOG PARAMETERS

MATRIX DENSITY : 2.85      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 21.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
PRESENTATION NAME/DATE = 9087A.D 08/06/2008      VERSION = 3.64EK

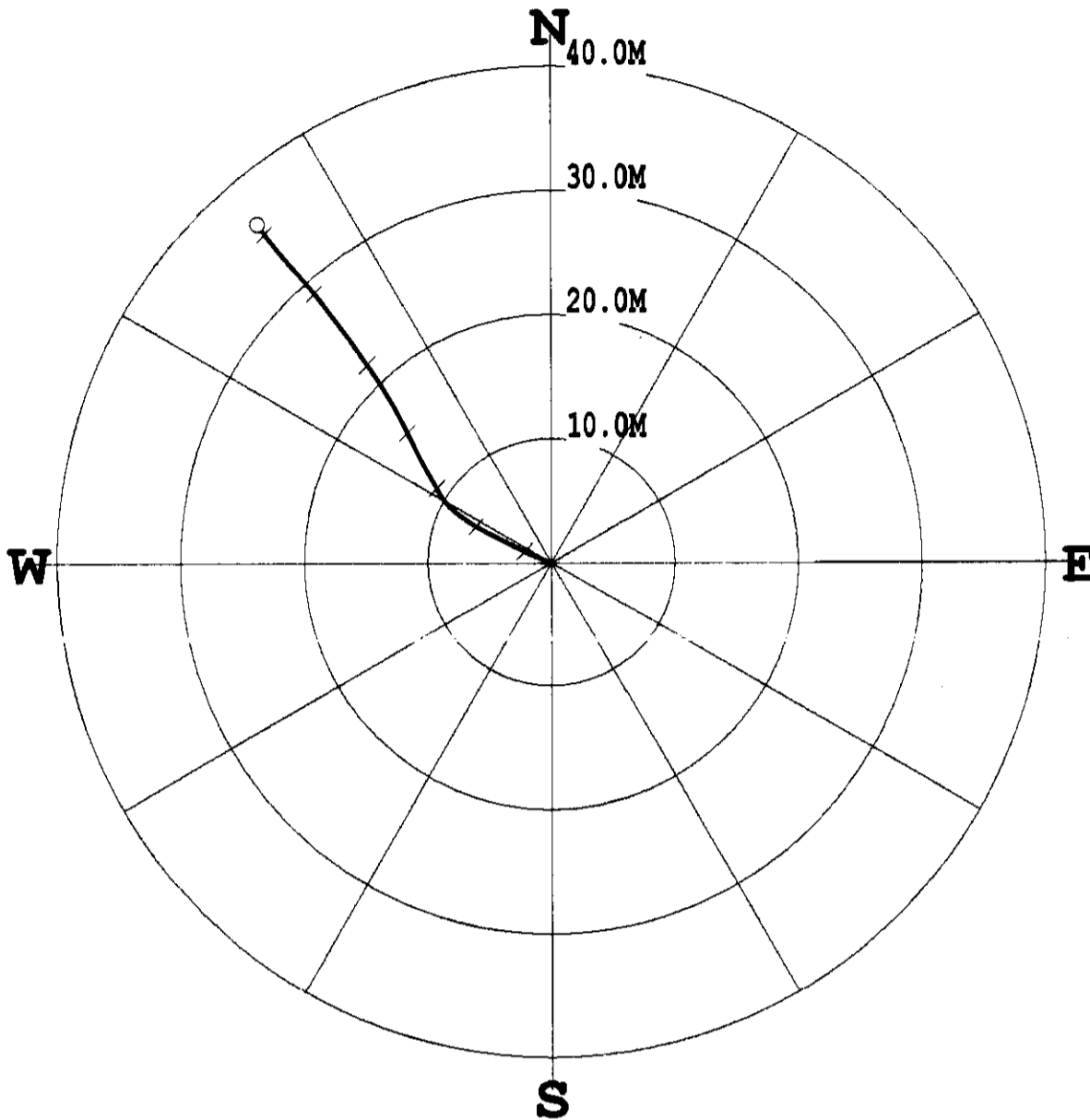
TOOL CALIBRATION 2969 08/06/08 05:19			
TOOL 9087A TM VERSION 1			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul20 07 01:44:30	GAMMA	1.000 [API-GR ]
2	Jul20 07 01:44:30	GAMMA	250.000 [API-GR ]
1	Sep03 08 10:47:15	NEUTRON	1.000 [API-N ]
2	Sep03 08 10:47:15	NEUTRON	500.000 [API-N ]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2969  
 DATE OF LOG: 08/06/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 358.77 M  
 AZIMUTH: 319.0  
 DISTANCE: 36.1 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL HOLE ID. : 2969  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/06/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2969\_08-06-08\_14-25\_9055A\_02\_8.30\_360.85\_DEVI.log

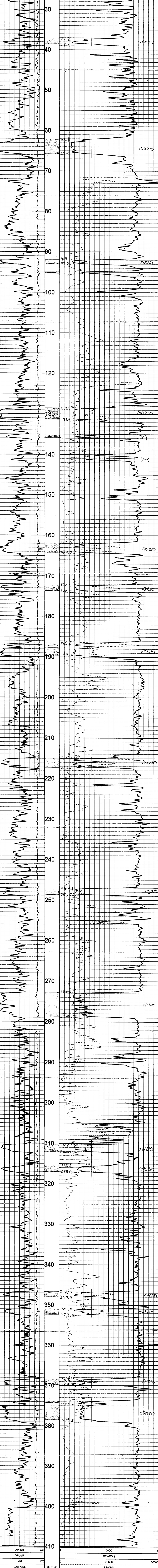
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.00	-0.01	0.0	281.5	2.5	294.6
20.00	19.99	0.16	-0.42	0.5	291.3	2.6	286.3
30.00	29.98	0.36	-0.90	1.0	291.9	3.0	288.9
40.00	39.96	0.59	-1.46	1.6	292.1	4.0	292.2
50.00	49.93	0.91	-2.16	2.3	292.8	5.1	296.7
60.00	59.89	1.29	-2.91	3.2	293.9	4.9	296.2
70.00	69.85	1.68	-3.70	4.1	294.5	5.2	295.8
80.00	79.81	2.09	-4.50	5.0	294.9	4.8	296.7
90.00	89.77	2.51	-5.31	5.9	295.3	5.2	298.0
100.00	99.73	2.92	-6.07	6.7	295.7	4.4	300.2
110.00	109.70	3.35	-6.75	7.5	296.4	4.7	305.2
120.00	119.66	3.86	-7.44	8.4	297.4	5.0	307.0
130.00	129.62	4.45	-8.15	9.3	298.6	5.3	313.2
140.00	139.58	5.15	-8.74	10.1	300.5	5.3	326.5
150.00	149.53	5.97	-9.23	11.0	302.9	5.6	332.0
160.00	159.48	6.87	-9.75	11.9	305.2	6.0	331.7
170.00	169.43	7.72	-10.24	12.8	307.0	5.6	332.0
180.00	179.38	8.55	-10.67	13.7	308.7	5.2	332.5
190.00	189.33	9.45	-11.11	14.6	310.4	5.8	333.5
200.00	199.28	10.41	-11.58	15.6	312.0	6.3	333.6
210.00	209.21	11.41	-12.09	16.6	313.3	6.5	332.1
220.00	219.14	12.44	-12.64	17.7	314.5	6.8	330.9
230.00	229.06	13.55	-13.29	19.0	315.5	8.2	330.5
240.00	238.97	14.69	-14.01	20.3	316.4	7.8	325.6
250.00	248.88	15.82	-14.78	21.7	316.9	7.9	324.1
260.00	258.77	16.98	-15.60	23.1	317.4	8.4	324.6
270.00	268.67	18.13	-16.41	24.5	317.8	8.4	323.0
280.00	278.57	19.29	-17.28	25.9	318.1	8.3	323.0
290.00	288.46	20.45	-18.15	27.3	318.4	8.0	324.4
300.00	298.37	21.55	-18.99	28.7	318.6	7.6	321.7
310.00	308.28	22.54	-19.82	30.0	318.7	7.2	320.6
320.00	318.20	23.48	-20.65	31.3	318.7	7.1	318.7
330.00	328.13	24.43	-21.47	32.5	318.7	7.4	317.9
340.00	338.05	25.38	-22.29	33.8	318.7	7.2	319.5
350.00	347.98	26.31	-23.01	35.0	318.8	6.5	321.7
360.00	357.91	27.19	-23.67	36.0	319.0	6.1	320.3
360.86	358.73	27.26	-23.71	36.1	319.0	5.9	322.7

COMPANY	ELK VALLEY COAL CORPORATION	OTHER SERVICES	
WELL	2970	9999	
FIELD	FORDING RIVER OPERATIONS	9999	
COUNTRY	CANADA		
PROVINCE	BC		
LOCATION	N/A		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
LICENSE NO.	N/A		
LINKOUT WELL ID	N/A		
PERMITS/TAXES	27503-97-SQ		
LOG MEASURED FROM OIL	H 2463.4, 757.2		
PRE. MEASURED FROM OIL	183.2, 244		
ELEVATION OF W.M.			
ELEVATION OF W.M.			

LOGGING LOGGERS: N/A  
LOG TOP: 0.00  
LOG BOTTOM: 410.14  
CAMS/DITLER: 3  
CAMS/DITLER: STEEL  
ROBEN/OLU FLUID: WATER  
TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: 1.0  
UNRECORDED BY: J. BALYOCOK  
RECORDED BY: J. BALYOCOK  
REMARKS 1:  
REMARKS 2:  
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

DATE: 07/31/08  
BIT SIZE: 8 1/2

LOG PARAMETERS  
MATRIX DENSITY: 2.65  
MAGNETIC DECL: 17.00  
PRESENTATION NAME/DATE: 9239C10 05/29/2008  
NEUTRON MATRIX: SANDSTONE  
ELECT. CUTOFF: 999999  
VERSION: 3.84EK  
MATRIX DELTA T: 177  
BIT SIZE: 13.00



MAIN LOG 1:200 2970 07/31/08  
LOG PARAMETERS  
MATRIX DENSITY: 2.65  
MAGNETIC DECL: 17.00  
PRESENTATION NAME/DATE: 9239C10 05/29/2008  
NEUTRON MATRIX: SANDSTONE  
ELECT. CUTOFF: 999999  
VERSION: 3.84EK  
MATRIX DELTA T: 177  
BIT SIZE: 13.00

DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22.07	12:48:04	GAMMA	0.0000 [API-GR]	3.00 [CPS]
Aug22.07	12:48:04	GAMMA	320.0000 [API-GR]	304.00 [CPS]
May13.08	11:07:46	VOLTAGE	32.0000 [MV]	7335.30 [CPS]
May13.08	11:07:46	VOLTAGE	262.4000 [MV]	38332.80 [CPS]
Aug30.07	15:43:39	CALIPER	69.0000 [INCH]	99630.00 [CPS]
Aug30.07	15:43:39	CALIPER	343.0000 [INCH]	420450.00 [CPS]
May13.08	10:58:05	DEN(LS)	1.0000 [G/CC]	39714.70 [CPS]
May13.08	10:58:05	DEN(LS)	2.3233 [G/CC]	3656.70 [CPS]
May13.08	15:57:42	DEN(SS)	1.0000 [G/CC]	73088.50 [CPS]
May13.08	15:57:55	DEN(SS)	2.3233 [G/CC]	25243.90 [CPS]
May13.08	10:58:05	CALPERL	100.0000 [INCH]	112403.20 [CPS]
May13.08	11:08:11	CALPERL	200.0000 [INCH]	215587.60 [CPS]
May13.08	11:09:11	CURRENT	32.0000 [UA]	7782.80 [CPS]
Aug20.07	18:08:26	F	252.4000 [UA]	26347.60 [CPS]
Aug20.07	18:08:26	CURRENT	Default [CPS]	
Aug20.07	18:08:26	X	Default [CPS]	



COMPANY: ELK VALLEY COAL CORPORATION  
WELL: 2970  
FIELD: FONDONG RIVER OPERATIONS  
COUNTY: CAMBRIA  
OTHER SERVICES: 9055 9239

PROVINC: 302  
LOCATION: N/A  
SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
LICENSE NO: N/A

UNIQUE WELL ID: N/A  
ELEVATIONS: N/A  
LOG MEASURED FROM: GL  
ELEVATION: N/A  
ELEVATION TO: N/A

DATE: 07/30/08  
DEPTH: 410  
BIT SIZE: 110

LOG TOP: 0.28  
LOG BOTTOM: 408.88  
CASING LOGGER: N/A

CASING TYPE: 9  
CASING DRILLER: N/A  
BORING/LOG FLUID: WATER  
MUD TEMP: N/A  
MUD RES: N/A  
MUD WEIGHT: 1.0

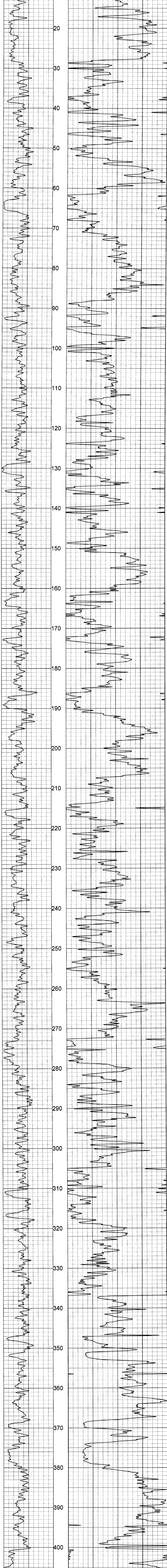
WITNESSED BY: J. BLAYLOCK  
RECORDED BY: J. BLAYLOCK  
REMARKS: 1  
REMARKS: 2

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

MAIN LOG 1:200 2970 07/30/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.00 ELECT. CUTOFF: 99999 BIT SIZE: 13  
PRESENTATION NAME/DATE: 9067A.0 05/27/2008 VERSION: 3.64EK



MAIN LOG 1:200 2970 07/30/08

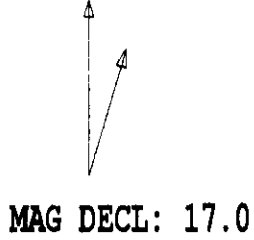
LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 17.00 ELECT. CUTOFF: 99999 BIT SIZE: 13  
PRESENTATION NAME/DATE: 9067A.0 05/27/2008 VERSION: 3.64EK

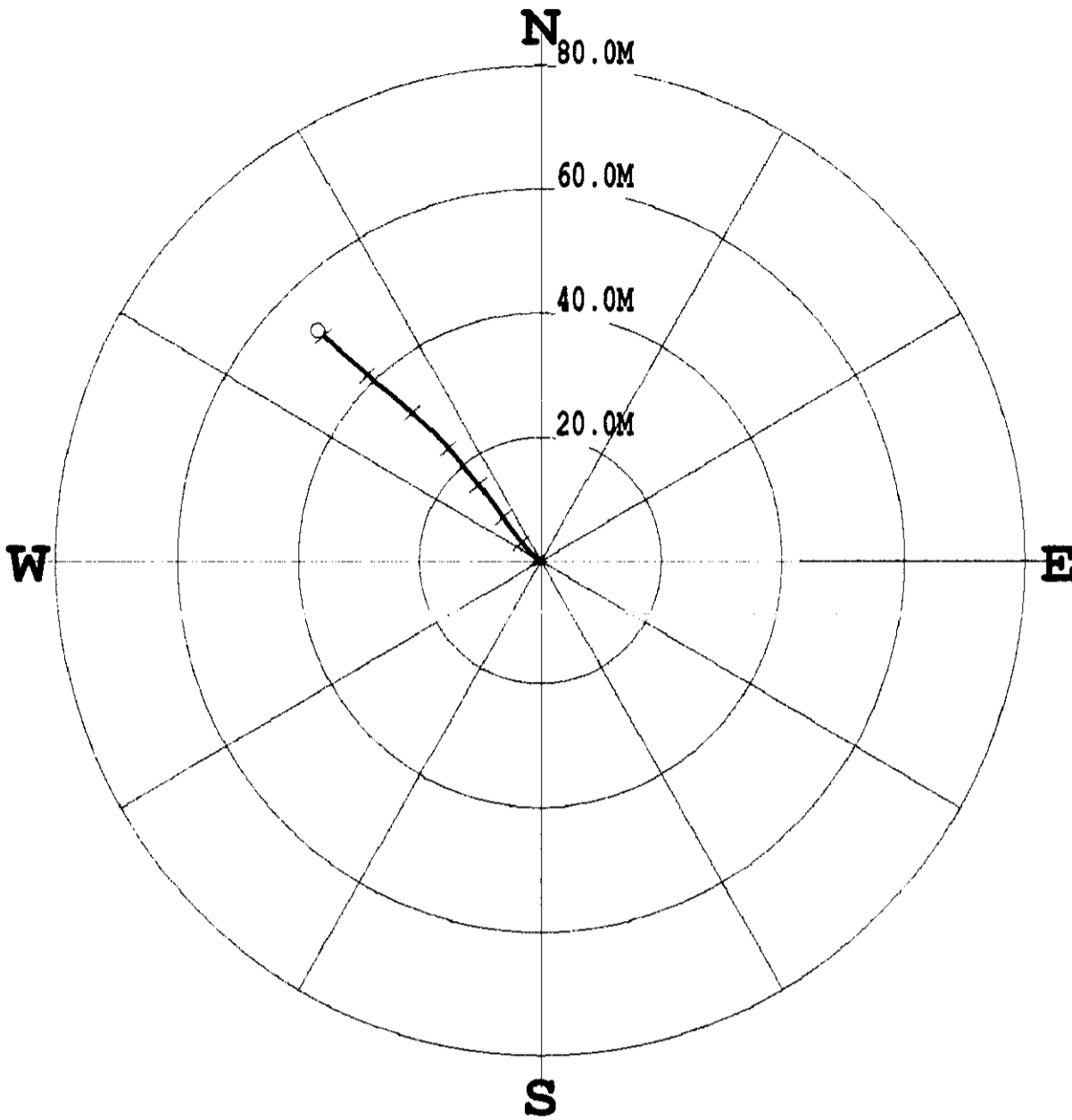
DATE	TIME	SENSOR	STANDARD	RESPONSE
Jun 26 08	11:00:19	GAMMA	Default (CPS)	Default (CPS)
Jun 26 08	11:00:19	GAMMA	Default (CPS)	Default (CPS)
Jun 26 08	11:00:19	NEUTRON	Default (CPS)	Default (CPS)
Jun 26 08	11:00:19	NEUTRON	Default (CPS)	Default (CPS)

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL CORPORATION  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2970  
 DATE OF LOG: 07/31/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 405.98 M  
 AZIMUTH: 315.3  
 DISTANCE: 52.2 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL COR HOLE ID. : 2970  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 07/31/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2970\_07-31-08\_14-22\_9055A\_02\_1.40\_410.08\_DEVI.log

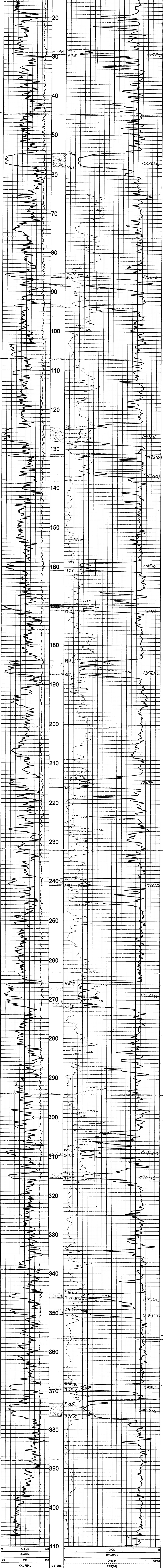
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	-0.04	-0.01	0.0	192.8	0.9	265.3
20.00	20.00	0.00	0.04	0.0	90.0	0.3	35.2
30.00	30.00	0.03	0.05	0.1	55.3	0.2	276.3
40.00	40.00	0.07	-0.06	0.1	317.0	1.6	290.7
50.00	49.99	0.30	-0.43	0.5	304.9	2.7	306.0
60.00	59.97	0.65	-0.87	1.1	306.8	3.9	310.0
70.00	69.95	1.11	-1.39	1.8	308.6	4.4	314.8
80.00	79.91	1.69	-1.96	2.6	310.8	5.3	312.3
90.00	89.88	2.32	-2.54	3.4	312.4	5.0	319.0
100.00	99.84	2.99	-3.11	4.3	313.9	4.9	319.3
110.00	109.80	3.66	-3.65	5.2	315.1	5.1	319.5
120.00	119.76	4.39	-4.23	6.1	316.1	5.7	320.2
130.00	129.70	5.22	-4.89	7.2	316.9	6.1	320.9
140.00	139.64	6.10	-5.57	8.3	317.6	6.7	323.8
150.00	149.57	7.01	-6.24	9.4	318.3	6.2	322.8
160.00	159.51	7.94	-6.88	10.5	319.1	7.0	326.5
170.00	169.43	8.93	-7.57	11.7	319.7	7.5	326.9
180.00	179.34	9.98	-8.35	13.0	320.1	8.0	323.8
190.00	189.24	11.12	-9.24	14.5	320.3	8.3	320.1
200.00	199.13	12.25	-10.18	15.9	320.3	8.6	320.5
210.00	209.02	13.39	-11.13	17.4	320.3	9.0	319.3
220.00	218.90	14.54	-12.10	18.9	320.2	8.9	316.7
230.00	228.79	15.65	-13.05	20.4	320.2	8.8	319.9
240.00	238.67	16.85	-14.02	21.9	320.2	9.2	321.2
250.00	248.54	18.08	-15.06	23.5	320.2	9.4	318.9
260.00	258.41	19.27	-16.15	25.1	320.0	9.0	315.3
270.00	268.28	20.37	-17.26	26.7	319.7	9.0	312.4
280.00	278.16	21.43	-18.43	28.3	319.3	9.0	310.9
290.00	288.03	22.51	-19.61	29.8	318.9	9.3	313.1
300.00	297.88	23.65	-20.89	31.6	318.5	10.4	311.7
310.00	307.70	24.85	-22.33	33.4	318.1	10.7	308.5
320.00	317.53	26.00	-23.76	35.2	317.6	10.4	309.4
330.00	327.36	27.20	-25.18	37.1	317.2	10.5	309.5
340.00	337.18	28.39	-26.63	38.9	316.8	10.8	308.7
350.00	347.00	29.62	-28.07	40.8	316.5	11.0	309.8
360.00	356.81	30.88	-29.53	42.7	316.3	11.1	310.4
370.00	366.63	32.12	-30.99	44.6	316.0	10.9	309.9
380.00	376.45	33.33	-32.43	46.5	315.8	10.7	310.2
390.00	386.27	34.56	-33.83	48.4	315.6	10.7	311.4
400.00	396.09	35.80	-35.24	50.2	315.5	11.3	311.6
410.00	405.90	37.10	-36.70	52.2	315.3	11.3	311.9
410.08	405.94	37.10	-36.71	52.2	315.3	11.3	311.9

COMPANY	ELK VALLEY COAL CORPORATION	OTHER SERVICES	8005
WELL	2971	FORMING OPERATIONS	9807
FIELD			
COUNTY	CLAYTON		
STATE	NC		
LOCALITY			
PROVINCE	NC		
SECTION	N/A		
LOCATION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
SECTION	N/A		
PERMITS WELL ID	SIL	ELEVATION TO MA	2777.174
LOG MEASURED FROM SIL		ELEVATION OF MA	1423.016
LOG MEASURED FROM SIL		ELEVATION OF MA	1471.878
DATE	05/29/2008		
LOG TOP	13.00		
LOG BOTTOM	410		
LOGS LOGGED	402.97		
LOGGING DRILLER	3		
LOGGING TYPE	STEEL		
LOGGING FLUID	WATER		
LOGGING TEMPERATURE	N/A		
LOGGING PRESSURE	N/A		
LOGGING WEIGHT	10		
LOGGING DRILLING	555 DRILLING		
LOGGING OPERATOR	J. BLAVOCK		
LOGGING COMPANY	BLAVOCK		
LOGGING SERIAL	4443		
LOGGING REMARKS			

**MAIN LOG 1:200 2971 08/04/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL. : 17.00      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1.0 05/29/2008      VERSION = 3.64EK



**MAIN LOG 1:200 2971 08/04/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL. : 17.00      ELECT. CUTOFF : 99999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1.0 05/29/2008      VERSION = 3.64EK

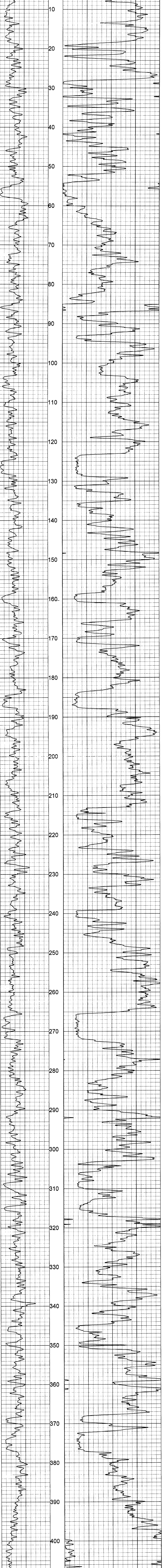
TOOL CALIBRATION	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07	12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
1	Aug22,07	12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
2	May13,08	11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
2	May13,08	11:07:48	VOLTAGE	252.400 [MV]	36082.80 [CPS]
3	Aug30,07	15:43:38	CALIPER	68.000 [INCH]	99830.00 [CPS]
3	Aug30,07	15:43:38	CALIPER	343.000 [INCH]	420460.00 [CPS]
4	May13,08	15:57:42	DEN(LS)	1.000 [G/CC]	3971.70 [CPS]
4	May13,08	15:57:42	DEN(LS)	2.323 [G/CC]	3658.70 [CPS]
5	May13,08	15:57:55	DEN(SS)	1.000 [G/CC]	73088.50 [CPS]
5	May13,08	15:57:55	DEN(SS)	2.323 [G/CC]	25243.80 [CPS]
6	May13,08	10:58:05	CALIPER	100.000 [INCH]	112493.20 [CPS]
6	May13,08	10:58:05	CALIPER	200.000 [INCH]	215587.50 [CPS]
7	May13,08	11:08:11	CURRENT	32.000 [UA]	7782.80 [CPS]
7	May13,08	11:08:11	CURRENT	252.400 [UA]	28347.60 [CPS]
8	Aug20,07	18:08:28	F	Default	
9	Aug20,07	18:08:28	X	Default	

COMPANY	ELK VALLEY COAL CORPORATION	OTHER SERVICES
WELL FIELD	2971	9655
COUNTY	FORDING NIVER OPERATIONS	9238
PROVINCE	NC	
LOCATION	N/A	
TOWNSHIP	N/A	
SECTION	N/A	
RANGE	N/A	
LICENSE NO.	N/A	
UNIQUE WELL ID	N/A	
PERMANENT TAG/LOG	SL	ELEVATION IN M/A
LOG MEASURED FROM G/L		ELEVATION IN M/A
DATE	08/03/08	ELEVATION IN M/A
DEPTH DRI/LLER	113	
BIT SIZE	113	
LOG TOP	0.39	
LOG BOTTOM	409.30	
CASINO LOGGER	N/A	
CASINO TYPE	3	STEEL
BORING/LOG FLUID		WATER
PH TEMPERATURE	N/A	
PHI RES	N/A	
MULTI WEIGHT	1.0	
WITNESSED BY	J. BLAYLOCK	
REMARKS 1		
REMARKS 2		

MAIN LOG 1:200 2971 08/03/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL. : 17.00 ELECT. CUTOFF : 99999 BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 05/27/2008 VERSION = 3.64EK



MAIN LOG 1:200 2971 08/03/08

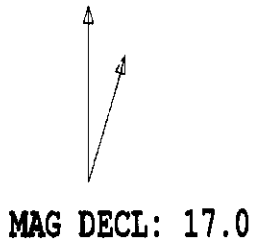
LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL. : 17.00 ELECT. CUTOFF : 99999 BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 05/27/2008 VERSION = 3.64EK

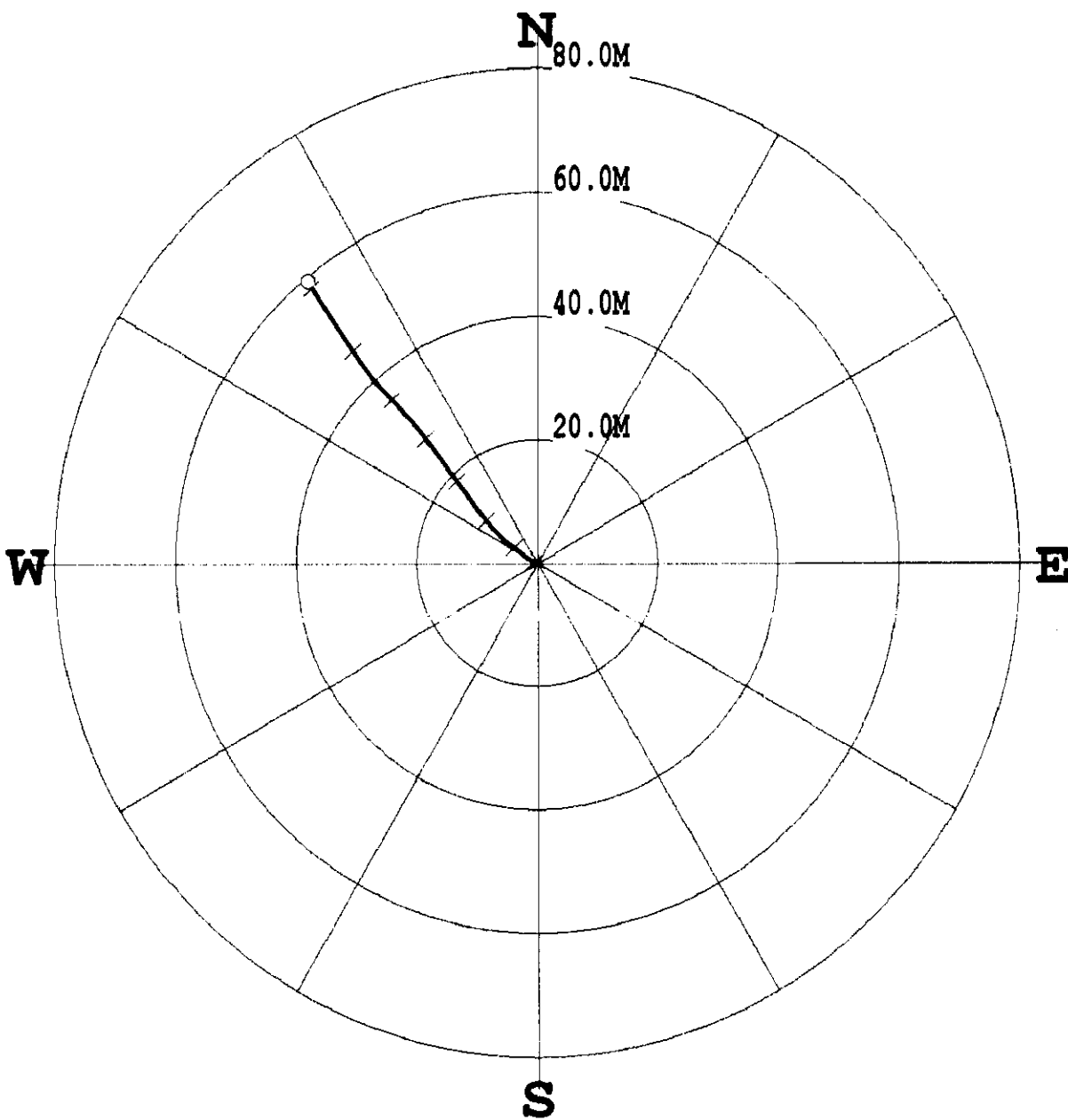
TOOL CALIBRATION 2971 08/03/08 19:23		SENSOR		STANDARD		RESPONSE	
DATE	TIME						
1	Jun 26, 06	11:00:19	GAMMA	Default	[CPS]	Default	[CPS]
	Jun 26, 06	11:00:19	GAMMA	Default	[CPS]	Default	[CPS]
2	Jun 26, 06	11:00:19	NEUTRON	Default	[CPS]	Default	[CPS]
	Jun 26, 06	11:00:19	NEUTRON	Default	[CPS]	Default	[CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL CORPORATION  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2971  
 DATE OF LOG: 08/04/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 404.50 M  
 AZIMUTH: 320.3  
 DISTANCE: 59.3 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL COR HOLE ID. : 2971  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/04/08  
 DATA FROM : N/A PROBE : 9055A , 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2971\_08-04-08\_14-56\_9055A\_.02\_1.26\_409.88\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	-0.03	0.03	0.0	138.2	0.6	189.8
20.00	20.00	-0.10	-0.01	0.1	187.7	0.4	236.3
30.00	30.00	-0.11	-0.07	0.1	210.1	0.1	146.2
40.00	40.00	-0.00	-0.24	0.2	269.5	1.7	311.1
50.00	49.99	0.24	-0.53	0.6	294.2	2.8	307.9
60.00	59.97	0.55	-1.02	1.2	298.2	3.8	302.9
70.00	69.95	0.94	-1.59	1.8	300.5	4.2	303.6
80.00	79.91	1.40	-2.25	2.7	301.9	5.2	303.3
90.00	89.87	1.94	-2.98	3.6	303.1	5.6	302.5
100.00	99.81	2.59	-3.84	4.6	304.0	6.1	306.5
110.00	109.74	3.27	-4.79	5.8	304.3	6.9	307.1
120.00	119.67	4.01	-5.71	7.0	305.1	6.4	310.2
130.00	129.60	4.86	-6.59	8.2	306.4	7.4	315.0
140.00	139.50	5.84	-7.52	9.5	307.8	7.9	319.3
150.00	149.40	6.92	-8.44	10.9	309.4	8.2	318.6
160.00	159.30	8.07	-9.33	12.3	310.9	8.6	323.1
170.00	169.17	9.24	-10.24	13.8	312.1	9.1	322.1
180.00	179.04	10.52	-11.20	15.4	313.2	9.3	323.2
190.00	188.90	11.83	-12.20	17.0	314.1	9.8	321.7
200.00	198.76	13.16	-13.23	18.7	314.8	9.8	323.9
210.00	208.62	14.49	-14.25	20.3	315.5	9.4	321.1
220.00	218.48	15.81	-15.26	22.0	316.0	9.6	324.3
230.00	228.33	17.17	-16.24	23.6	316.6	9.9	322.8
240.00	238.19	18.55	-17.24	25.3	317.1	9.4	322.8
250.00	248.03	19.92	-18.29	27.0	317.4	9.7	322.4
260.00	257.88	21.27	-19.34	28.8	317.7	9.5	320.7
270.00	267.74	22.56	-20.39	30.4	317.9	9.3	318.6
280.00	277.61	23.77	-21.49	32.0	317.9	9.7	315.7
290.00	287.47	24.96	-22.63	33.7	317.8	9.5	316.1
300.00	297.34	26.14	-23.77	35.3	317.7	9.5	314.3
310.00	307.19	27.35	-24.96	37.0	317.6	10.3	315.6
320.00	317.02	28.70	-26.22	38.9	317.6	11.1	319.4
330.00	326.82	30.22	-27.47	40.8	317.7	11.8	321.8
340.00	336.60	31.90	-28.73	42.9	318.0	12.5	324.0
350.00	346.35	33.70	-30.01	45.1	318.3	12.9	324.2
360.00	356.09	35.55	-31.30	47.4	318.6	13.1	325.1
370.00	365.83	37.45	-32.61	49.7	318.9	13.5	326.4
380.00	375.54	39.41	-33.92	52.0	319.3	13.8	326.6
390.00	385.25	41.44	-35.22	54.4	319.6	14.2	327.8
400.00	394.94	43.53	-36.54	56.8	320.0	14.5	326.8
409.88	404.46	45.62	-37.86	59.3	320.3	14.8	327.8

COMPANY	ESTABLISHED COMPANY	OTHER SERVICES
UNIT NO.	201	0000
FIELD NO.	SPRING RIVER OPERATIONS	0000
COUNTRY	CANADA	0000
PROVINCE	BC	
LOCATION	2362-703	
SECTION	14-2200-157	
TOWNSHIP	1516-487	
RANGE	N/A	
ZONE	N/A	
UTM/EASTING	51	ELEVATION (M) 51
UTM/NORTHING	51	ELEVATION (M) 51
LOG MEASURED FROM GIL		ELEVATION (M) 51
DATE	07/24/08	
DEPT. MGR.	488	
LOG NO.	1300	
LOG TOP	0.42	
LOG BOTTOM	488.38	
LOG LOGGER	N/A	
CASING DIAMETER	9	
CASING TYPE	STEEL	
ROUNDER FLUID	WATER	
RT TEMPERATURE	N/A	
RAO RES	1.0	
MAO RES	1.0	
WINDNESS BY	J. BAIRDICK	
RECORDED BY		
REMARKS 1		
REMARKS 2		
REMARKS 3		

*Handwritten signature and date: Aug 18, 2008*

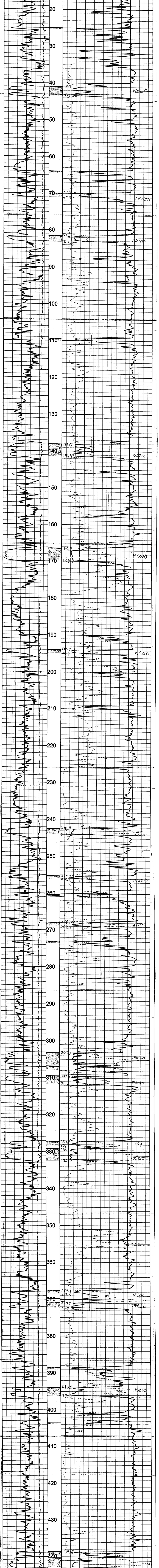
**MAIN LOG 1:200 2978 07/24/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.65  
MAGNETIC DECL.: 17.00  
PRESENTATION NAME/DATE = 9238C1.0 05/29/2008

NEUTRON MATRIX: SANDSTONE  
ELECT. CUTOFF: 99999  
VERSION = 3.64EX

MATRIX DELTA T: 177  
BIT SIZE: 13.00



**MAIN LOG 1:200 2978 07/24/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.65  
MAGNETIC DECL.: 17.00  
PRESENTATION NAME/DATE = 9238C1.0 05/29/2008

NEUTRON MATRIX: SANDSTONE  
ELECT. CUTOFF: 99999  
VERSION = 3.64EX

MATRIX DELTA T: 177  
BIT SIZE: 13.00

DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22.07	12:46:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
Aug22.07	12:46:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
May13.08	11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
May13.08	11:07:48	VOLTAGE	252.400 [MV]	38082.80 [CPS]
Aug30.07	15:43:39	CALIPER	99.000 [INCH]	89830.00 [CPS]
May13.08	15:57:42	CALIPER	343.000 [INCH]	420450.00 [CPS]
May13.08	15:57:42	DEN(LS)	1.000 [GICC]	39714.70 [CPS]
May13.08	15:57:55	DEN(LS)	2.328 [GICC]	73068.50 [CPS]
May13.08	10:58:05	DEN(SS)	1.000 [GICC]	39567.70 [CPS]
May13.08	10:58:05	DEN(SS)	2.323 [GICC]	25243.90 [CPS]
May13.08	10:58:05	CALIPER	100.000 [INCH]	112403.20 [CPS]
May13.08	11:09:11	CALIPER	200.000 [INCH]	215597.50 [CPS]
May13.08	11:08:11	CURRENT	32.000 [UA]	7782.80 [CPS]
Aug20.07	16:08:28	CURRENT	252.400 [UA]	26347.60 [CPS]
Aug20.07	16:08:28	F	Default	
Aug20.07	16:08:28	X	Default	

COMPANY: ELK VALLEY COAL CORPORATION  
 WELL: 2978  
 FIELD: FORDONS RIVER OPERATIONS  
 PROVINCE: CANADA  
 COUNTY: NC  
 LOCATION: N/A  
 SECTION: N/A  
 TOWNSHIP: N/A  
 RANGE: N/A  
 LICENSE NO.: N/A

OTHER SERVICES: 9539  
 9555

LOG NUMBER: 2978  
 LOG DATE: 05/27/2008  
 LOG TIME: 13:14  
 LOG FROM: 483.24  
 LOG TO: 488.00  
 LOG INTERVAL: 4.76  
 LOG TYPE: 13

LOG FROM: 0.14  
 LOG TO: 488.00  
 LOG INTERVAL: 4.86  
 LOG TYPE: 13

LOG FROM: 0.14  
 LOG TO: 488.00  
 LOG INTERVAL: 4.86  
 LOG TYPE: 13

LOG FROM: 0.14  
 LOG TO: 488.00  
 LOG INTERVAL: 4.86  
 LOG TYPE: 13

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 LOG INTERVAL: 4.86  
 LOG TYPE: 13

LOG FROM: 0.14  
 LOG TO: 488.00  
 LOG INTERVAL: 4.86  
 LOG TYPE: 13

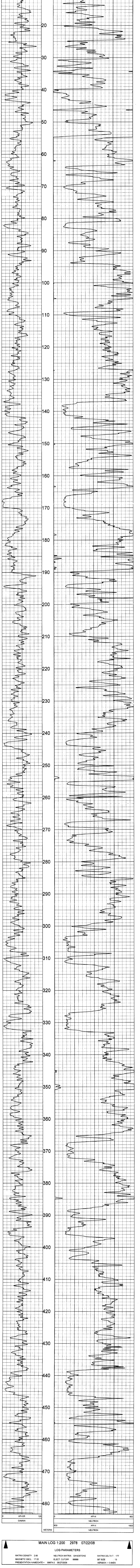
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 LOG TO: 488.00  
 LOG INTERVAL: 4.86  
 LOG TYPE: 13

LOG FROM: 0.14  
 LOG TO: 488.00  
 LOG INTERVAL: 4.86  
 LOG TYPE: 13

MAIN LOG 1:200 2978 07/22/08

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.00 ELECT. CUTOFF: 99999 BIT SIZE: 13  
 PRESENTATION NAME/DATE: 9087A 0 05/27/2008 VERSION = 3.64EK



MAIN LOG 1:200 2978 07/22/08

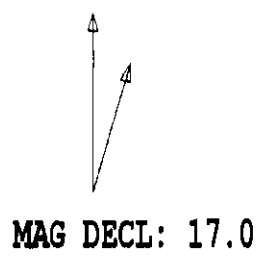
LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.00 ELECT. CUTOFF: 99999 BIT SIZE: 13  
 PRESENTATION NAME/DATE: 9087A 0 05/27/2008 VERSION = 3.64EK

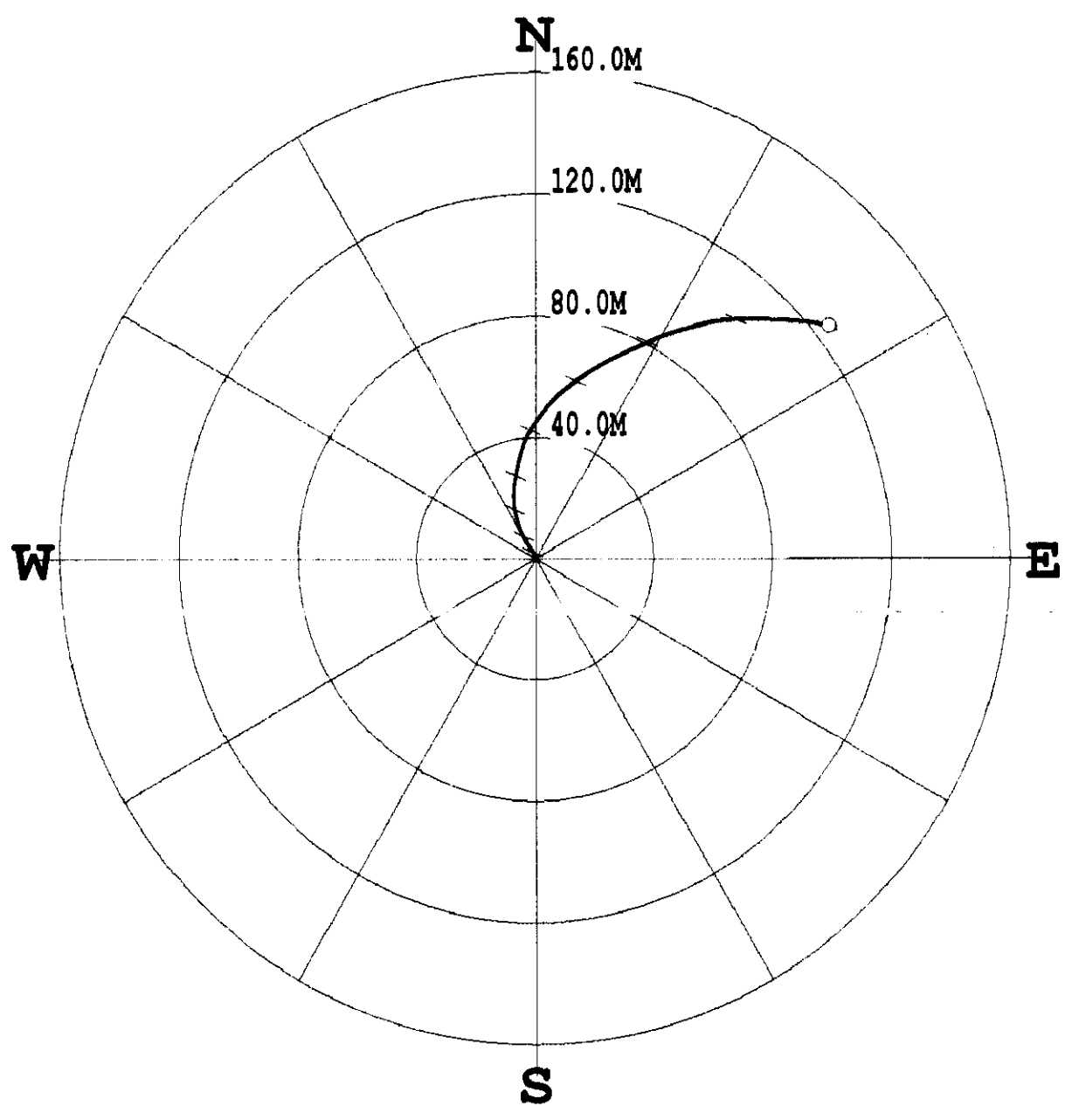
DATE	TIME	SENSOR	STANDARD	[CPS]	RESPONSE
1	Jun 26 06 11:00:19	GAMMA	Default	[CPS]	Default [CPS]
2	Jun 26 06 11:00:19	GAMMA	Default	[CPS]	Default [CPS]
2	Jun 26 06 11:00:19	NEUTRON	Default	[CPS]	Default [CPS]
2	Jun 26 06 11:00:19	NEUTRON	Default	[CPS]	Default [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL CORPORATION  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2978  
 DATE OF LOG: 07/24/08  
 PROBE: 9055A 72



SCALE: 20 M/CM  
 TRUE DEPTH: 451.60 M  
 AZIMUTH: 52.2  
 DISTANCE: 125.2 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL COR HOLE ID. : 2978  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 07/24/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2978\_07-24-08\_13-02\_9055A\_.02\_1.46\_486.40\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.00	-0.04	0.0	275.7	1.0	322.5
20.00	19.99	0.34	-0.18	0.4	332.3	2.7	348.2
30.00	29.98	0.81	-0.35	0.9	336.8	3.3	339.8
40.00	39.96	1.38	-0.57	1.5	337.6	3.7	336.7
50.00	49.93	2.05	-0.91	2.2	336.0	5.6	331.0
60.00	59.88	2.93	-1.45	3.3	333.7	6.5	311.4
70.00	69.80	3.95	-2.11	4.5	331.8	6.9	328.6
80.00	79.72	5.02	-2.73	5.7	331.4	7.4	330.9
90.00	89.64	6.16	-3.34	7.0	331.5	8.0	332.5
100.00	99.54	7.38	-3.98	8.4	331.7	8.1	331.7
110.00	109.43	8.69	-4.66	9.9	331.8	9.0	333.6
120.00	119.29	10.24	-5.30	11.5	332.6	10.2	341.5
130.00	129.12	11.99	-5.86	13.3	334.0	10.8	342.5
140.00	138.93	13.85	-6.39	15.2	335.2	11.4	343.8
150.00	148.73	15.79	-6.87	17.2	336.5	11.7	349.6
160.00	158.51	17.84	-7.15	19.2	338.2	12.4	354.9
170.00	168.28	20.00	-7.29	21.3	340.0	12.5	356.6
180.00	178.04	22.18	-7.26	23.3	341.9	12.6	3.0
190.00	187.78	24.40	-7.05	25.4	343.9	13.1	6.5
200.00	197.50	26.73	-6.69	27.6	345.9	14.0	9.9
210.00	207.17	29.23	-6.21	29.9	348.0	15.3	12.1
220.00	216.79	31.91	-5.61	32.4	350.0	16.9	14.1
230.00	226.34	34.78	-4.86	35.1	352.0	17.8	16.1
240.00	235.83	37.78	-3.94	38.0	354.1	19.0	19.3
250.00	245.25	40.85	-2.61	40.9	356.3	20.0	29.1
260.00	254.64	43.80	-0.85	43.8	358.9	20.4	32.6
270.00	263.95	46.78	1.26	46.8	1.5	22.5	37.3
280.00	273.16	49.82	3.70	50.0	4.3	24.1	40.6
290.00	282.23	52.87	6.61	53.3	7.1	25.8	46.0
300.00	291.19	55.76	9.98	56.6	10.1	27.1	52.9
310.00	300.07	58.53	13.65	60.1	13.1	27.4	55.1
320.00	308.94	61.15	17.45	63.6	15.9	28.1	56.3
330.00	317.76	63.57	21.48	67.1	18.7	28.3	60.7
340.00	326.49	65.86	25.78	70.7	21.4	29.3	63.5
350.00	335.21	67.91	30.23	74.3	24.0	29.3	66.1
360.00	343.93	69.93	34.69	78.1	26.4	29.3	65.6
370.00	352.63	71.95	39.19	81.9	28.6	30.1	66.7
380.00	361.25	73.77	43.92	85.9	30.8	31.0	71.4
390.00	369.82	75.31	48.83	89.8	33.0	32.1	73.3
400.00	378.31	76.77	53.91	93.8	35.1	32.3	76.1
410.00	386.73	77.99	59.16	97.9	37.2	32.9	79.1
420.00	395.14	78.74	64.51	101.8	39.3	32.2	85.5
430.00	403.63	78.86	69.80	105.3	41.5	30.8	91.1
440.00	412.23	78.87	74.90	108.8	43.5	30.5	89.4
450.00	420.78	78.82	80.08	112.4	45.5	31.8	92.1
460.00	429.29	78.53	85.32	116.0	47.4	31.6	93.9
470.00	437.80	78.12	90.56	119.6	49.2	32.3	94.3
480.00	446.23	77.37	95.72	123.1	51.1	32.2	102.9
486.40	451.56	76.72	98.96	125.2	52.2	33.4	100.1



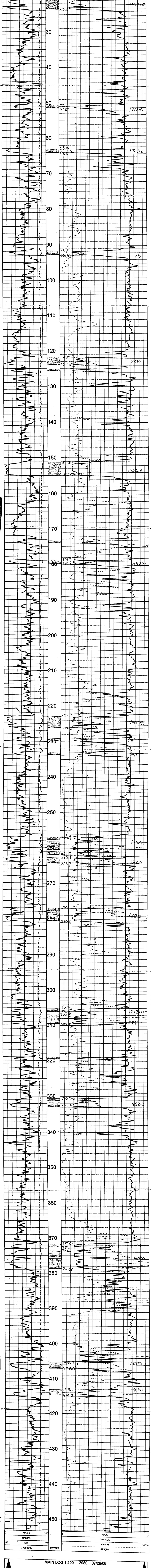
COMPANY	ELVALETT COAL CORPORATION	OTHER SERVICES	
WELL	2980	LOGGING	0007
FIELD	FOUNDRY MINER OPERATIONS		
COUNTRY	CANADA		
PROVINCE	QC		
LOCATION	NA		
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
UNIQUE WELL ID	23221067		
LOG NUMBER	142067-357		
LOG DATE	18.07.07		
LOG MEASURED FROM	ELSVATION OF NA		
DATE MEASURED FROM	ELSVATION OF NA		
LOG TYPE	ZIGZAG		
DUPYI DUTY	NA		
BIT SIZE	11.89		
LOG BOTTOM	0.19		
LOG TOP	403.34		
CASING DEPTH	NA		
CASING DIAMETER	9		
CASING TYPE	STEEL		
RECORDING FLUID	WATER		
BAR TEMPERATURE	NA		
WELL TEMPERATURE	NA		
WELL DEPTH	1.0		
WELL DIAMETER	3.0		
WELL LOGGING	2. SURFACE		
RECORDED BY	J. BURTON		
REVISION 1			
REVISION 2			

*Fielding*  
Aug 19, 2008

**MAIN LOG 1:200 2980 07/29/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA : 177
MAGNETIC DECL. : 17.00	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE : 0239C1.0 05/29/2008		VERSION : 3.84EK



**MAIN LOG 1:200 2980 07/29/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA : 177
MAGNETIC DECL. : 17.00	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE : 0239C1.0 05/29/2008		VERSION : 3.84EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22.07	GAMMA	0.000 (API-GR)	3.00 (CPS)
1	Aug22.07	GAMMA	320.000 (API-GR)	354.00 (CPS)
2	May13.08	VOLTAGE	32.000 (MV)	7335.00 (CPS)
2	May13.08	VOLTAGE	282.400 (MV)	39830.80 (CPS)
3	Aug30.07	CALIPER	98.000 (INCH)	423450.00 (CPS)
3	Aug30.07	CALIPER	343.000 (INCH)	96930.00 (CPS)
4	May13.08	DEN(LS)	1.000 (GICC)	60714.70 (CPS)
4	May13.08	DEN(LS)	2.323 (GICC)	3658.70 (CPS)
5	May13.08	DEN(SS)	1.000 (GICC)	73086.50 (CPS)
5	May13.08	DEN(SS)	2.323 (GICC)	2343.90 (CPS)
6	May13.08	CALIPER	100.000 (INCH)	112403.20 (CPS)
6	May13.08	CALIPER	200.000 (INCH)	215667.50 (CPS)
7	May13.08	CURRENT	32.000 (UA)	1762.80 (CPS)
7	May13.08	CURRENT	252.400 (UA)	23347.60 (CPS)
8	Aug20.07		Default (CPS)	
9	Aug20.07		Default (CPS)	

COMPANY: SIA VALLEY TOOL CORPORATION

WELL: 2980

FIELD: FOREBING REEF OPERATIONS

COUNTRY: CANADA

PROVINCE: BC

LOCATION: N/A

SECTION: N/A

TOWNSHIP: N/A

RANGE: N/A

URGENCY: N/A

LIQUIDE WEL ID: N/A

PERMANENT DATA: G/L

LOG MEASURED FROM: SL

ELEVATION OF W.A.: ELEVATION OF W.A.

DATE: 07/28/08

DRIPPI DEELLER: 495

BIT SIZE: 13

LOG TOP: 0.42

LOG BOTTOM: 449.42

LOG LOGGER: N/A

CASING DRILLER: 5

CASING TYPE: STEEL

ROTORHOLE FLUID: WATER

RAM TEMPERATURE: N/A

RAM WEIGHT: 1.0

WINDSSED BY: J. SYLVESTER

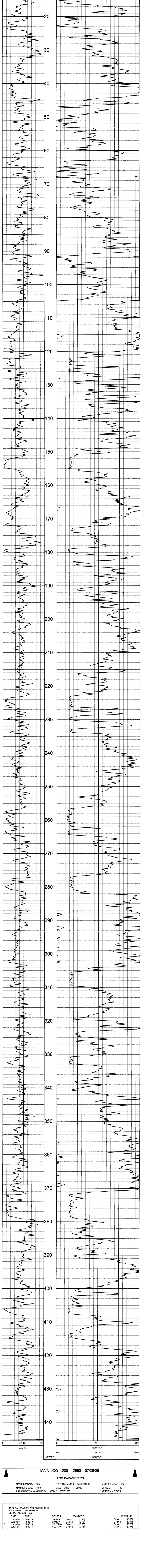
REMARKS 1:

REMARKS 2:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

**LOG PARAMETERS**

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
 MAGNETIC DECL.: 17.00 ELECT. CUTOFF: 99999 BIT SIZE: 13  
 PRESENTATION NAME/DATE: 9087A.O 05/27/2008 VERSION = 3.64EK



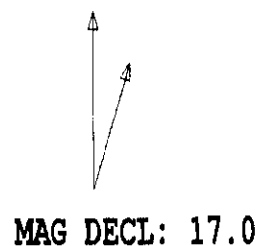
**LOG PARAMETERS**

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
 MAGNETIC DECL.: 17.00 ELECT. CUTOFF: 99999 BIT SIZE: 13  
 PRESENTATION NAME/DATE: 9087A.O 05/27/2008 VERSION = 3.64EK

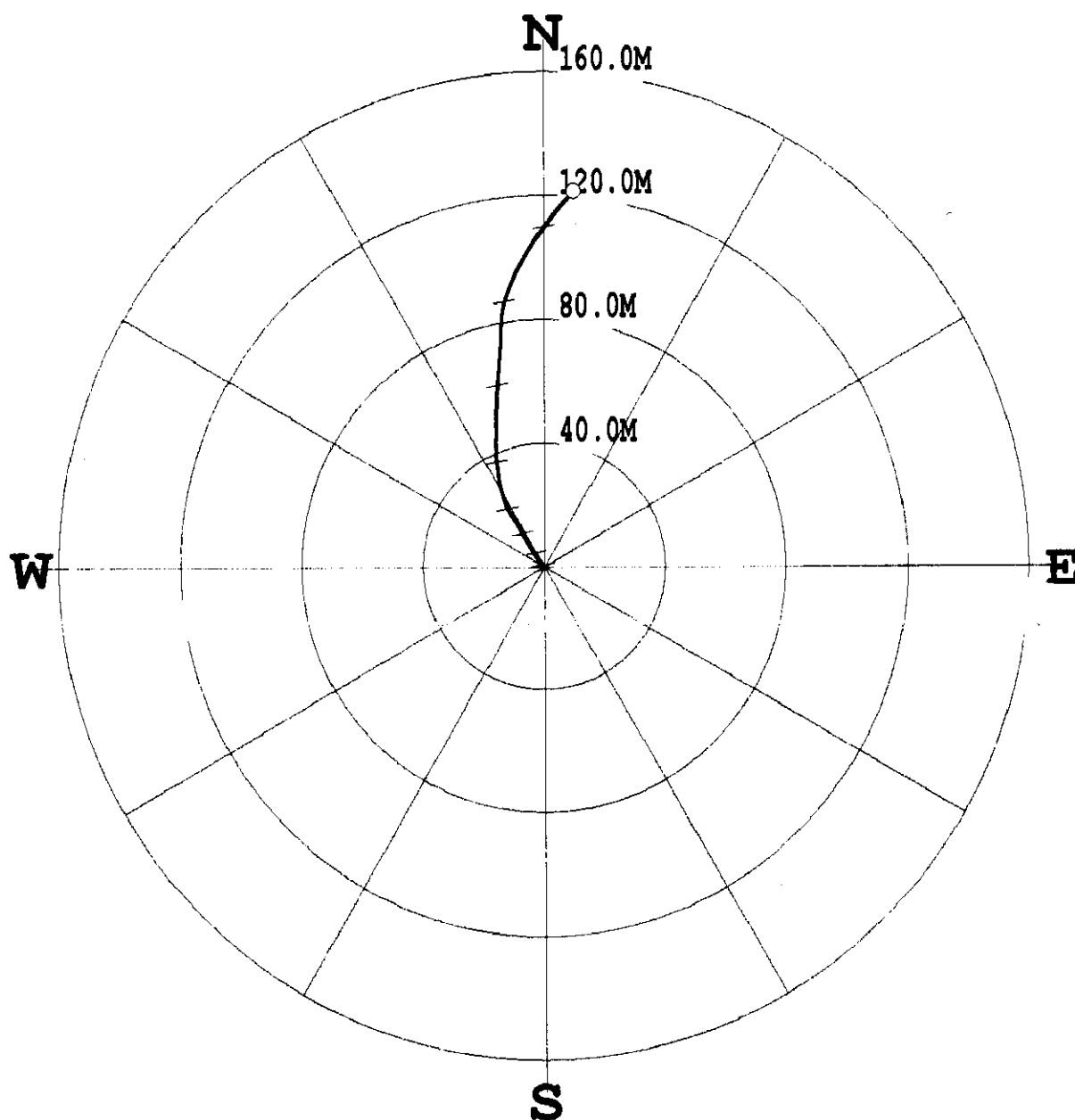
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jun 26 08 11:00:19	GAMMA	Default [CPS]	Default [CPS]
2	Jun 26 08 11:00:19	NEUTRON	Default [CPS]	Default [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL CORPORATION  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2980  
 DATE OF LOG: 07/29/08  
 PROBE: 9055A 72



SCALE: 20 M/CM  
 TRUE DEPTH: 425.26 M  
 AZIMUTH: 4.7  
 DISTANCE: 121.6 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL COR HOLE ID. : 2980  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 07/29/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2980\_07-29-08\_20-09\_9055A\_02\_1.21\_453.38\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	9.99	-0.00	-0.02	0.0	266.4	0.6	126.3
20.00	19.99	-0.03	0.06	0.1	115.7	0.4	73.9
30.00	29.99	0.02	0.09	0.1	78.6	1.3	337.2
40.00	39.98	0.30	-0.10	0.3	340.8	2.7	322.8
50.00	49.97	0.69	-0.45	0.8	326.6	3.8	318.2
60.00	59.94	1.17	-0.94	1.5	321.3	4.3	311.2
70.00	69.91	1.77	-1.48	2.3	320.2	4.7	319.5
80.00	79.86	2.54	-2.05	3.3	321.1	5.0	323.7
90.00	89.81	3.42	-2.67	4.3	322.0	6.4	325.8
100.00	99.74	4.40	-3.33	5.5	322.9	6.6	321.9
110.00	109.64	5.54	-4.05	6.9	323.9	7.8	327.8
120.00	119.54	6.77	-4.79	8.3	324.7	8.5	328.7
130.00	129.42	8.08	-5.56	9.8	325.5	8.6	330.9
140.00	139.30	9.42	-6.33	11.4	326.1	8.8	328.7
150.00	149.19	10.74	-7.11	12.9	326.5	9.0	329.7
160.00	159.06	12.08	-7.90	14.4	326.8	9.7	330.3
170.00	168.92	13.55	-8.76	16.1	327.1	10.0	329.4
180.00	178.75	15.09	-9.74	18.0	327.2	10.8	325.3
190.00	188.57	16.67	-10.81	19.9	327.0	11.4	328.3
200.00	198.34	18.52	-11.82	22.0	327.4	13.1	333.6
210.00	208.06	20.65	-12.83	24.3	328.2	14.2	337.0
220.00	217.69	23.17	-13.70	26.9	329.4	16.5	343.3
230.00	227.23	26.07	-14.50	29.8	330.9	18.2	345.8
240.00	236.70	29.24	-15.11	32.9	332.7	19.5	351.0
250.00	246.10	32.60	-15.54	36.1	334.5	20.0	352.6
260.00	255.42	36.20	-15.89	39.5	336.3	22.2	356.2
270.00	264.61	40.14	-16.06	43.2	338.2	24.6	359.5
280.00	273.60	44.52	-15.96	47.3	340.3	26.4	1.4
290.00	282.51	49.06	-15.80	51.5	342.1	27.4	1.8
300.00	291.33	53.76	-15.64	56.0	343.8	28.6	3.1
310.00	300.07	58.62	-15.35	60.6	345.3	29.6	5.5
320.00	308.75	63.56	-14.90	65.3	346.8	29.7	4.4
330.00	317.46	68.45	-14.53	70.0	348.0	28.7	4.1
340.00	326.27	73.19	-14.25	74.6	349.0	27.6	2.5
350.00	335.12	77.83	-14.07	79.1	349.8	27.5	2.3
360.00	343.98	82.45	-13.69	83.6	350.6	28.2	10.0
370.00	352.76	87.08	-12.49	88.0	351.8	29.6	20.3
380.00	361.46	91.68	-10.74	92.3	353.3	29.5	19.1
390.00	370.18	96.08	-8.60	96.5	354.9	28.8	29.0
400.00	378.97	100.17	-6.16	100.4	356.5	28.3	30.1
410.00	387.78	104.19	-3.67	104.3	358.0	28.6	32.8
420.00	396.54	108.21	-1.00	108.2	359.5	29.5	34.6
430.00	405.20	112.22	2.00	112.2	1.0	30.3	39.0
440.00	413.80	116.15	5.23	116.3	2.6	31.3	40.1
450.00	422.36	119.96	8.74	120.3	4.2	30.8	45.3
453.38	425.22	121.17	9.96	121.6	4.7	30.8	45.9



# GAMMA - CALPER COMPENSATED DENSITY

2981

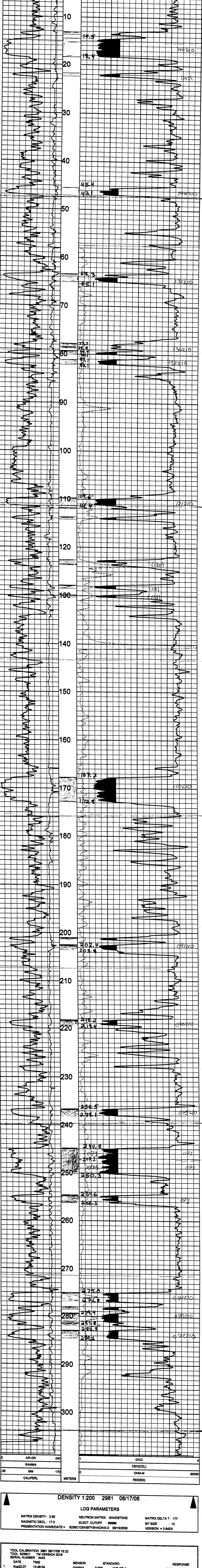
COMPANY	ESTWELL COAL	OTHER SERVICES
WELL	2981	907
FIELD	CASTLE SOUTH	8005
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
LOCATION	CASTLE SOUTH	2746.53C
SECTION	N/A	141903.026
TOWNSHIP	N/A	1354.76C
RANGE	N/A	
APPROX. UTM E		
APPROX. UTM N		
PERMANENT DATUM	SEA	ELEVATION IN M
LOG MEASURED FROM SL		ELEVATION IN M
DATE	08/17/08	ELEVATION IN M
DEPTH DIALER	310	
BIT SIZE	13	
LOG TOP	0.34	
LOG BOTTOM	298.87	
CASING OD	157.5	
CASING BOTTOM	3	
CASING TYPE	N/A	
ROTHOLE FLUID	WATER	
RAID TEMPERATURE	N/A	
RAID RES	N/A	
RAID HEIGHT	1.0	
WIRELOGGED BY	J. GEMSPINK	
RECORDED BY		
REMARKS 1		
REMARKS 2		

*B. N. M. J.*  
*Aug. 18, 2008*

## DENSITY 1:200 2981 08/17/08

### LOG PARAMETERS

MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.0      ELECT. CUTOFF: 99999      BIT SIZE: 13  
 PRESENTATION NAME/DATE: 9239C1DENSITYSHADING.0 08/15/2008      VERSION: 3.64EK



## DENSITY 1:200 2981 08/17/08

### LOG PARAMETERS

MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.0      ELECT. CUTOFF: 99999      BIT SIZE: 13  
 PRESENTATION NAME/DATE: 9239C1DENSITYSHADING.0 08/15/2008      VERSION: 3.64EK

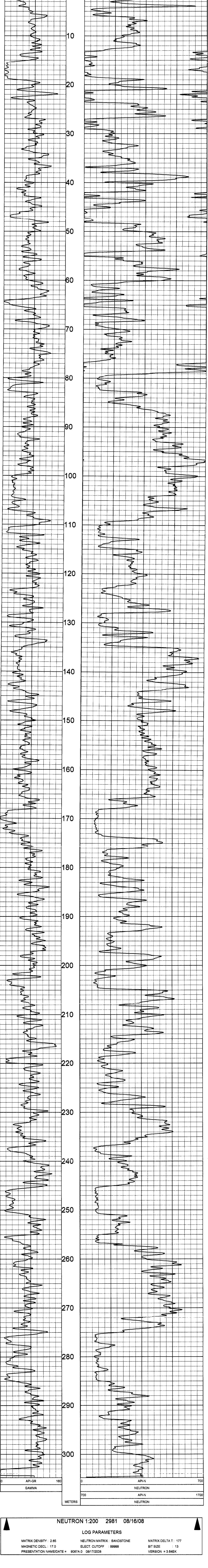
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22.07 12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
2	Aug22.07 12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
3	May13.08 11:07:48	VOLTAGE	32.000 [MV]	7336.30 [CPS]
3	May13.08 11:07:48	VOLTAGE	252.400 [MV]	36062.80 [CPS]
3	Aug10.06 14:01:28	CALPER	156.000 [INCH]	283948.00 [CPS]
4	Aug10.06 14:01:28	CALPER	343.000 [INCH]	420450.00 [CPS]
4	May13.08 15:57:42	DEN(LS)	1.000 [G/CC]	39714.70 [CPS]
4	May13.08 15:57:42	DEN(S)	2.323 [G/CC]	3656.70 [CPS]
5	May13.08 15:57:55	DEN(S)	1.000 [G/CC]	73068.50 [CPS]
5	May13.08 15:57:55	DEN(S)	2.323 [G/CC]	112403.20 [CPS]
6	May13.08 10:58:05	CALPERL	100.000 [INCH]	39714.70 [CPS]
7	May13.08 11:08:11	CALPERL	200.000 [INCH]	215687.50 [CPS]
7	May13.08 11:08:11	CURRENT	32.000 [UA]	7762.80 [CPS]
8	Aug20.07 18:08:26	F	252.400 [G/CC]	26347.80 [CPS]
9	Aug20.07 18:08:26	X	Default [CPS]	

COMPANY	ELK VALLEY COAL	OTHER SERVICES	8055 9299
WELL	2981		
FIELD	CASTLE SOUTH		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE SOUTH		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATA	SL	ELEVATION AB MIN	
LOG MEASURED FROM	SL	ELEVATION OF MIN	
DRI MEASURED FROM	SL	ELEVATION OF MIN	
DATE	08/16/08		
DEPTH DRILLER	310		
BIT SIZE	13		
LOG TOP	0.18		
LOG BOTTOM	294.74		
CASING O.D.	15.75		
CASING BOTTOM	3		
CASING TYPE	N/A		
BOREHOLE FLUID	WATER		
IRM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	J.GREGORUK		
RECORDED BY			
REMARKS 1			
REMARKS 2			

**NEUTRON 1:200 2981 08/16/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL. : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A 0 08/17/2008      VERSION = 3.64EK



**NEUTRON 1:200 2981 08/16/08**

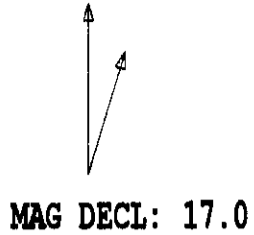
**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL. : 17.0      ELECT. CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A 0 08/17/2008      VERSION = 3.64EK

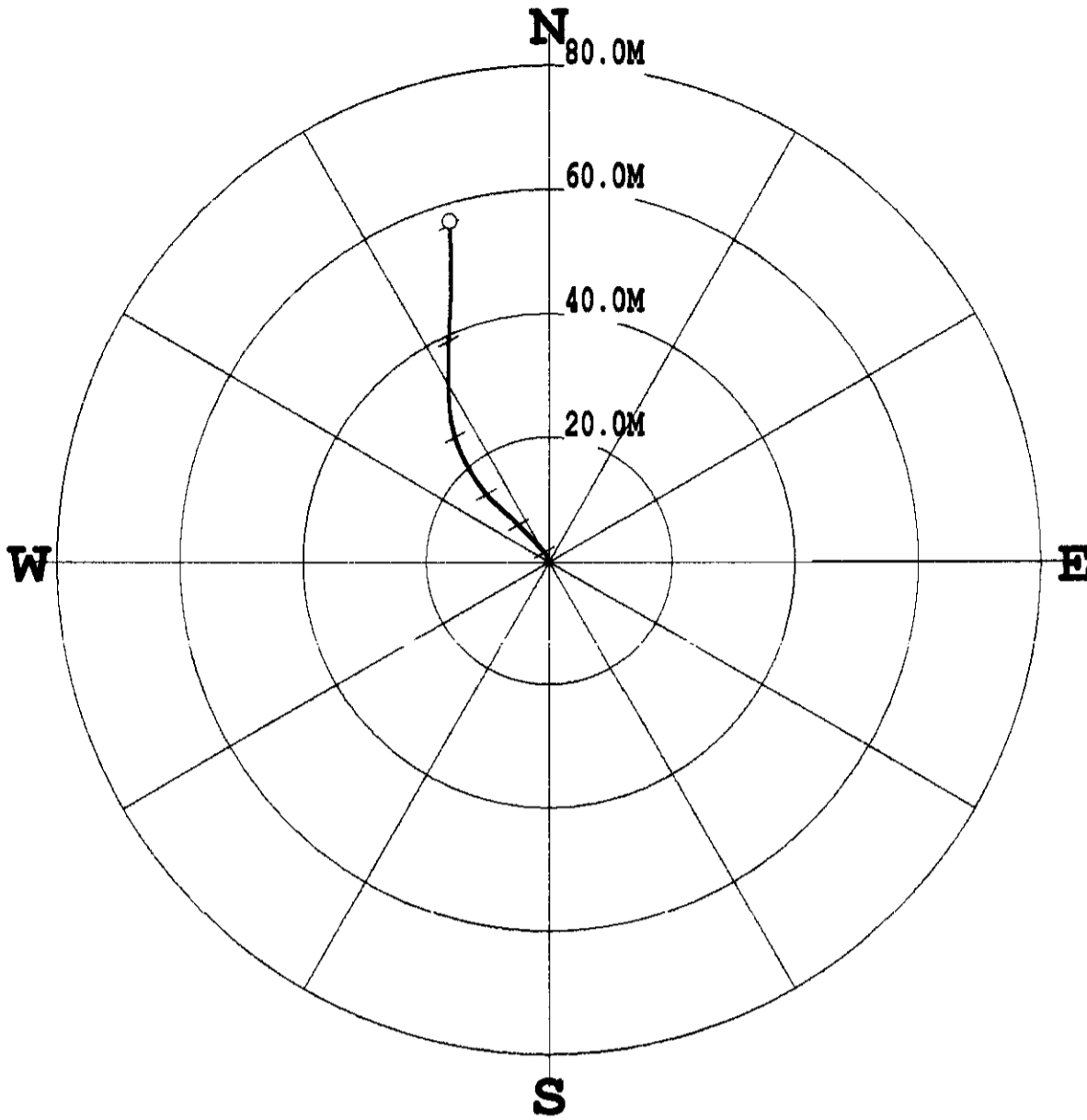
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20,07 01:44:30	GAMMA	1.000 [API-GR ]	1.00 [CPS]
2	Jul20,07 01:44:30	GAMMA	250.000 [API-GR ]	52.00 [CPS]
	Sep03,08 10:47:15	NEUTRON	1.000 [API-N ]	1.00 [CPS]
	Sep03,08 10:47:15	NEUTRON	500.000 [API-N ]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2981  
 DATE OF LOG: 08/17/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 301.31 M  
 AZIMUTH: 343.5  
 DISTANCE: 57.2 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2981  
 FIELD OFFICE : CENTURY GEO                    DATE OF LOG : 08/17/08  
 DATA FROM : N/A                                PROBE : 9055A ,                      72  
 MAG. DECL. : 17.000                            DEPTH UNITS : METERS  
 LOG: 2981\_08-17-08\_13-19\_9055A\_.02\_8.20\_309.31\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.00	-0.00	0.0	354.4	0.6	347.4
20.00	20.00	0.18	-0.01	0.2	356.4	1.9	355.5
30.00	29.99	0.52	-0.12	0.5	347.2	2.6	328.6
40.00	39.98	0.99	-0.34	1.0	341.2	4.3	335.3
50.00	49.95	1.60	-0.74	1.8	335.1	4.7	319.7
60.00	59.91	2.26	-1.35	2.6	329.2	5.6	317.3
70.00	69.84	3.09	-2.14	3.8	325.3	7.3	316.4
80.00	79.75	4.05	-3.07	5.1	322.9	8.1	315.5
90.00	89.66	5.00	-4.03	6.4	321.2	7.9	314.4
100.00	99.57	5.95	-4.98	7.8	320.1	7.6	315.8
110.00	109.49	6.88	-5.88	9.0	319.5	7.7	312.7
120.00	119.40	7.76	-6.87	10.4	318.5	7.6	311.3
130.00	129.30	8.66	-7.90	11.7	317.6	8.0	311.4
140.00	139.20	9.59	-8.98	13.1	316.9	8.5	310.3
150.00	149.07	10.74	-10.07	14.7	316.8	8.9	317.2
160.00	158.92	12.09	-11.15	16.4	317.3	10.4	323.4
170.00	168.74	13.66	-12.23	18.3	318.1	10.4	318.1
180.00	178.53	15.39	-13.27	20.3	319.2	12.6	328.8
190.00	188.28	17.33	-14.31	22.5	320.4	12.9	334.9
200.00	198.01	19.50	-15.16	24.7	322.1	14.2	341.9
210.00	207.69	21.87	-15.80	27.0	324.1	15.9	348.4
220.00	217.31	24.59	-16.24	29.5	326.6	16.5	353.7
230.00	226.86	27.52	-16.39	32.0	329.2	17.9	357.9
240.00	236.35	30.67	-16.46	34.8	331.8	18.8	359.3
250.00	245.79	33.98	-16.43	37.7	334.2	19.5	1.9
260.00	255.19	37.38	-16.29	40.8	336.4	20.3	2.9
270.00	264.56	40.86	-16.13	43.9	338.5	20.3	2.6
280.00	273.93	44.35	-16.03	47.2	340.1	20.5	1.1
290.00	283.28	47.90	-15.99	50.5	341.5	21.4	359.0
300.00	292.60	51.51	-16.09	54.0	342.7	21.1	357.4
309.32	301.28	54.81	-16.20	57.2	343.5	20.3	358.4

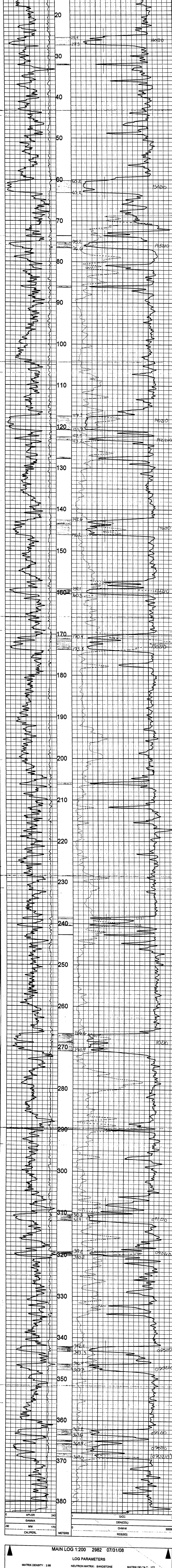
COMPANY	ESTALLET COAL CORPORATION
WELL	2982
FIELD	FOUNDA NINE OPERATIONS
COUNTRY	CANADA
PROVINCE	BC
LOCATION	274.03 211
SECTION	N/A
TOWNSHIP	141 S81 942
RANGE	N/A
LICENCE NO.	1500-583
UNIQUE WELL ID	ELEVATION IS N/A
PERMANENT DATUM	ELEVATION IS N/A
LOG MEASURED FROM	ELEVATION IS N/A
DATE	05/29/2008
DEPTH DRILLER	304
DATE	05/29/08
BIT SIZE	11.00
LOG TOP	0.25
LOG BOTTOM	292.90
CASING LOGGER	N/A
CASING DIAMETER	3 INCH
CASING TYPE	STEEL
BORING FLUID	WATER
PH TEMPERATURE	N/A
PH RESISTIVITY	N/A
PHD WEIGHT	1.0
PHD RESISTIVITY	50S DRILLING
RECORDED BY	J. BLYTHOCK
REMARKS 1	
REMARKS 2	

*B. J. ...*  
*Aug 18, 2008*

**MAIN LOG 1:200 2982 07/31/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 17.00	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1.0 05/29/2008		VERSION = 3.84EK



**MAIN LOG 1:200 2982 07/31/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 17.00	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1.0 05/29/2008		VERSION = 3.84EK

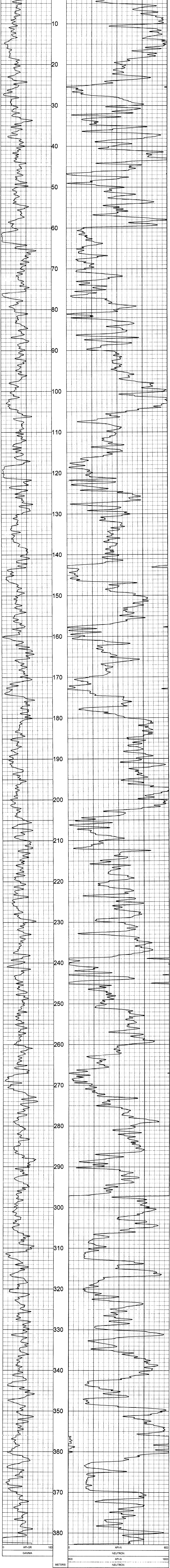
DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22.07	12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
Aug22.07	12:48:04	GAMMA	320.000 [API-GR]	304.00 [CPS]
May13.08	11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
May13.08	11:07:48	VOLTAGE	292.400 [MV]	38082.80 [CPS]
Aug30.07	15:43:39	CALIPER	98.000 [INCH]	98630.00 [CPS]
Aug30.07	15:43:39	CALIPER	343.000 [INCH]	420450.00 [CPS]
May13.08	15:57:42	DEN(LS)	1.000 [G/C]	36714.70 [CPS]
May13.08	15:57:42	DEN(LS)	2.323 [G/C]	73088.50 [CPS]
May13.08	15:57:55	DEN(S)	2.323 [G/C]	25243.90 [CPS]
May13.08	15:57:55	DEN(S)	100.000 [INCH]	112405.20 [CPS]
May13.08	10:58:05	CALIPER	200.000 [INCH]	215687.50 [CPS]
May13.08	11:08:11	CALIPER	98.000 [INCH]	7762.80 [CPS]
May13.08	11:08:11	CALIPER	343.000 [INCH]	26347.60 [CPS]
Aug20.07	16:08:26	F	Default [CPS]	
Aug20.07	16:08:26	X	Default [CPS]	

		<b>SLIM GAMMA-NEUTRON</b> 2982	
COMPANY	ELK VALLEY COAL CORPORATION	WELL	2982
COUNTRY	CANADA	FIELD	FORBING RIVER OPERATIONS
PROVINCE	BC	OTHER SERVICES	WSS 9239
LOCATION	N/A	SECTION	N/A
TOWNSHIP	N/A	RANGE	N/A
LICENSE NO.	N/A	UNIT/CL WELL ID	N/A
PERMIT/DATION	GL	ELEVATION M3	N/A
LOG MEASURED FROM	GL	ELEVATION DT	N/A
DATE	05/27/2008	LOG MEASURED FROM	GL
DEPTH DRILLER	294	ELEVATION DT	N/A
BIT SIZE	13		
LOG TOP	0.35		
LOG BOTTOM	382.78		
CASING DRILLER	3		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
BOREHOLE TEMPERATURE	N/A		
WELL REC.	N/A		
WELL WEIGHT	10		
RECORDED BY	JSD DRILLING		
REMARKS 1	3 BAYLOCK		
REMARKS 2			

MAIN LOG 1:200 2982 07/30/08

LOG PARAMETERS

MATRIX DENSITY: 2.85      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.00      ELECT. CUTOFF: 99999      BIT SIZE: 13  
 PRESENTATION NAME/DATE = 9067A.0 05/27/2008      VERSION = 3.64ED



MAIN LOG 1:200 2982 07/30/08

LOG PARAMETERS

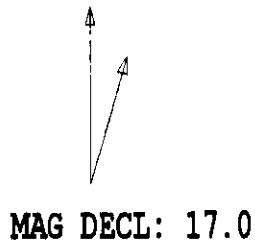
MATRIX DENSITY: 2.85      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.00      ELECT. CUTOFF: 99999      BIT SIZE: 13  
 PRESENTATION NAME/DATE = 9067A.0 05/27/2008      VERSION = 3.64ED

TOOL CALIBRATION 2982 07/30/08 19:26		SENSOR		STANDARD		RESPONSE	
1	Jun28.06 11:00:19	GAMMA	Default	(CPS)	Default	(CPS)	
2	Jun28.06 11:00:19	NEUTRON	Default	(CPS)	Default	(CPS)	
2	Jun28.06 11:00:19	NEUTRON	Default	(CPS)	Default	(CPS)	

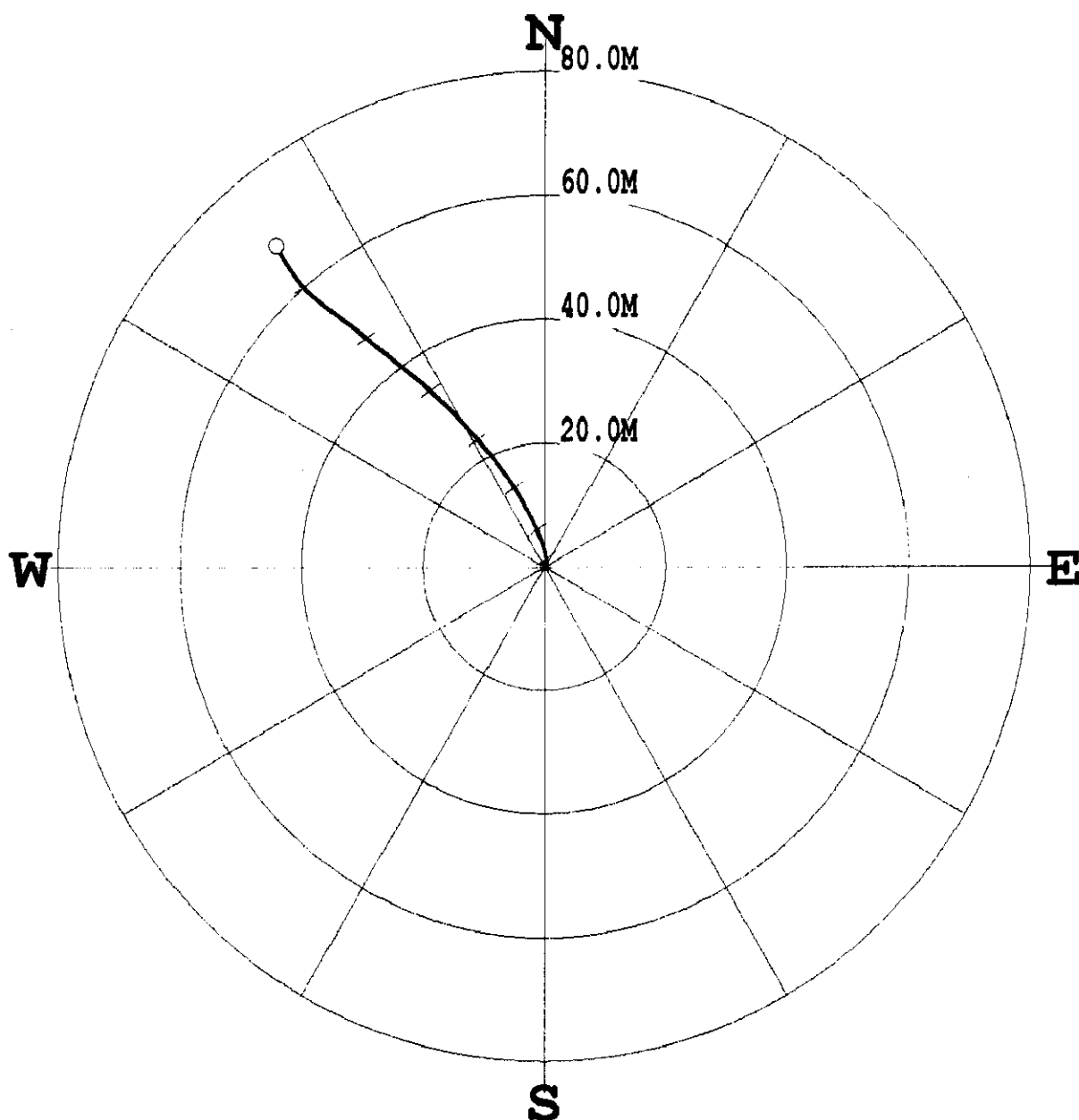


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL CORPORATION  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2982  
 DATE OF LOG: 07/31/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 375.51 M  
 AZIMUTH: 319.6  
 DISTANCE: 68.0 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL COR HOLE ID. : 2982  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 07/31/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2982\_07-31-08\_16-45\_9055A\_02\_1.38\_383.31\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.08	0.01	0.1	10.4	1.3	21.6
20.00	20.00	0.22	0.06	0.2	14.2	1.6	22.7
30.00	30.00	0.41	0.11	0.4	14.9	1.5	19.5
40.00	39.99	0.79	0.21	0.8	15.1	2.8	9.5
50.00	49.97	1.36	0.20	1.4	8.3	4.5	0.7
60.00	59.94	2.05	0.09	2.1	2.5	4.2	349.3
70.00	69.91	2.84	-0.10	2.8	358.1	6.2	346.9
80.00	79.86	3.83	-0.40	3.8	354.0	6.2	341.2
90.00	89.79	4.90	-0.80	5.0	350.7	6.8	340.7
100.00	99.71	6.04	-1.26	6.2	348.3	7.1	335.7
110.00	109.63	7.23	-1.78	7.4	346.1	7.7	335.3
120.00	119.53	8.47	-2.41	8.8	344.1	8.2	332.0
130.00	129.42	9.78	-3.14	10.3	342.2	8.6	338.3
140.00	139.27	11.26	-3.95	11.9	340.7	10.0	327.6
150.00	149.12	12.74	-4.88	13.6	339.0	10.7	328.1
160.00	158.94	14.28	-5.99	15.5	337.2	11.3	323.0
170.00	168.74	15.85	-7.16	17.4	335.7	11.0	323.9
180.00	178.56	17.38	-8.31	19.3	334.4	11.0	322.7
190.00	188.38	18.86	-9.50	21.1	333.3	11.5	321.4
200.00	198.18	20.34	-10.78	23.0	332.1	11.4	318.5
210.00	207.96	21.88	-12.13	25.0	331.0	12.0	318.0
220.00	217.74	23.44	-13.58	27.1	329.9	12.8	317.5
230.00	227.51	24.95	-15.07	29.2	328.9	12.7	313.1
240.00	237.26	26.48	-16.66	31.3	327.8	12.8	313.5
250.00	247.00	28.04	-18.31	33.5	326.9	13.2	313.4
260.00	256.71	29.63	-20.08	35.8	325.9	14.6	309.3
270.00	266.36	31.23	-22.14	38.3	324.7	15.0	308.2
280.00	276.01	32.86	-24.20	40.8	323.6	15.4	308.8
290.00	285.65	34.51	-26.28	43.4	322.7	15.3	308.8
300.00	295.31	36.13	-28.32	45.9	321.9	14.8	306.6
310.00	304.97	37.73	-30.34	48.4	321.2	14.8	308.2
320.00	314.64	39.27	-32.38	50.9	320.5	15.1	306.8
330.00	324.30	40.81	-34.44	53.4	319.8	14.6	307.3
340.00	333.97	42.35	-36.47	55.9	319.3	14.7	306.3
350.00	343.64	43.94	-38.47	58.4	318.8	15.0	311.2
360.00	353.27	45.90	-40.31	61.1	318.7	16.9	322.7
370.00	362.84	48.25	-42.04	64.0	318.9	17.0	324.8
380.00	372.35	50.87	-43.63	67.0	319.4	18.4	332.8
383.32	375.47	51.79	-44.10	68.0	319.6	18.7	334.3

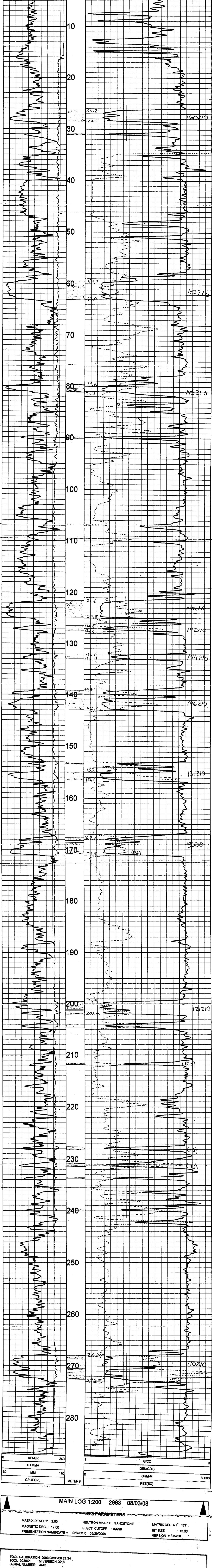
COMPANY	ELK VALLEY COAL CORPORATION	OTHER SERVICES:	
WELL	2983	8005	
FIELD	FORDING RIVER OPERATIONS	8228	
COUNTY	CANADA		
PROVINCE	SC		
LOCATION	N/A		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
LEASING NO.	N/A		
UNIQUE WELL ID.	N/A		
PERMANENT DATUM	SEL	ELEVATION AS N/A	
LOG MEASURED FROM TO		ELEVATION OF N/A	
DITL MEASURED FROM TO		ELEVATION OF N/A	
DATE	30/08/08		
DEPTH DRILLER	288		
BIT SIZE	13.00		
LOG TOP	9.30		
LOG BOTTOM	287.22		
CASING LOGGER	N/A		
CASING DRILLER	STEEL		
CORROSION TYPE	WATER		
ROBORGIC FLUID	N/A		
NON TEMPERATURE	N/A		
MAID WES	N/A		
MAID WEIGHT	1.0		
WITNESSED BY	JDS DRILLING		
RECORDED BY	J. BAYLOCK		
REMARKS 1			
REMARKS 2			

*Aug 18, 2008*  
*B. M. ...*

**MAIN LOG 1:200 2983 08/03/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.00      ELECT. CUTOFF: 99999      BIT SIZE: 13.00  
 PRESENTATION NAME/DATE = 9239C1.0 05/29/2008      VERSION = 3.64EK



**MAIN LOG 1:200 2983 08/03/08**

**LOG PARAMETERS**

MATRIX DENSITY: 2.65      NEUTRON MATRIX: SANDSTONE      MATRIX DELTA T: 177  
 MAGNETIC DECL: 17.00      ELECT. CUTOFF: 99999      BIT SIZE: 13.00  
 PRESENTATION NAME/DATE = 9239C1.0 05/29/2008      VERSION = 3.64EK

TOOL CALIBRATION	2983 08/03/08 21:34			
SERIAL NUMBER	4443			
DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug22,07	12:48:04	GAMMA	0.000 [API-GR]	3.00 [CPS]
Aug22,07	12:48:04	GAMMA	320.000 [API-GR]	7304.00 [CPS]
May13,08	11:07:48	VOLTAGE	32.000 [MV]	7335.30 [CPS]
May13,08	11:07:48	VOLTAGE	252.400 [MV]	36382.80 [CPS]
Aug30,07	15:43:39	CALIPER	89.000 [INCH]	96630.00 [CPS]
Aug30,07	15:43:39	CALIPER	343.000 [INCH]	39714.70 [CPS]
May13,08	15:57:42	DEN(LS)	1.000 [G/CC]	420450.00 [CPS]
May13,08	15:57:42	DEN(LS)	2.329 [G/CC]	73088.50 [CPS]
May13,08	15:57:55	DEN(SS)	1.000 [G/CC]	3656.70 [CPS]
May13,08	15:57:55	DEN(SS)	2.323 [G/CC]	73088.50 [CPS]
May13,08	10:58:05	CALIPER	100.000 [INCH]	25243.90 [CPS]
May13,08	10:58:05	CALIPER	200.000 [INCH]	112403.20 [CPS]
May13,08	11:09:11	CURRENT	32.000 [UA]	216587.50 [CPS]
May13,08	11:09:11	CURRENT	252.400 [UA]	7762.80 [CPS]
Aug20,07	16:08:26	F	Default [CPS]	26347.80 [CPS]
Aug20,07	16:08:26	X	Default [CPS]	

COMPANY: ELK VALLEY COAL CORPORATION

WELL: 2983

FIELD: FORDING RIVER OPERATIONS

COUNTRY: CANADA

PROVINCE: BC

LOCATION: N/A

SECTION: N/A

TOWNSHIP: N/A

RANGE: N/A

LICENCE NO: N/A

UNIQUE WELL ID: N/A

PERMANENT TATTIN: 53

LOG MEASURED FROM OIL: ELEVATION TO N/A

DITL MEASURED FROM OIL: ELEVATION TO N/A

DATE: 05/27/2008

DEPTH DRILLER: 298

BIT SIZE: 13

LOG TOP: 0.32

LOG BOTTOM: 287.02

CASING LOGGER: N/A

CASING DRILLER: 18

CASING TYPE: STEEL

GEORIGOLE FLUID: WATER

RAM TEMPERATURE: N/A

MUD RES: N/A

MUD WEIGHT: 1.0

WITNESSED BY: SDS DRILLING

RECORDED BY: J. BAYLOCK

REMARKS 1:

REMARKS 2:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

OTHER SERVICES:  
9055  
9238

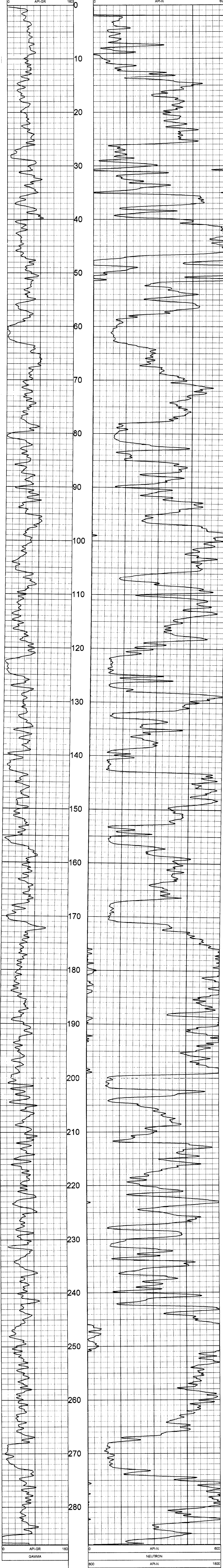
MAIN LOG 1:200 2983 08/02/08

LOG PARAMETERS

MATRIX DENSITY : 2.85  
MAGNETIC DECL : 17.00  
PRESENTATION NAME/DATE = 9087A.0 05/27/2008

NEUTRON MATRIX : SANDSTONE  
ELECT. CUTOFF : 99999

MATRIX DELTA T : 177  
BIT SIZE : 13  
VERSION = 3.64EK



MAIN LOG 1:200 2983 08/02/08

LOG PARAMETERS

MATRIX DENSITY : 2.85  
MAGNETIC DECL : 17.00  
PRESENTATION NAME/DATE = 9087A.0 05/27/2008

NEUTRON MATRIX : SANDSTONE  
ELECT. CUTOFF : 99999

MATRIX DELTA T : 177  
BIT SIZE : 13  
VERSION = 3.64EK

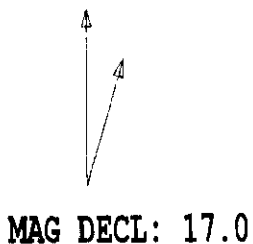
TOOL CALIBRATION 2983 08/02/08 20:49  
TOOL 9087A TM VERSION 1  
SERIAL NUMBER 530

DATE	TIME
Jun26.06	11:00:19
Jun28.06	11:00:19
Jun28.06	11:00:19

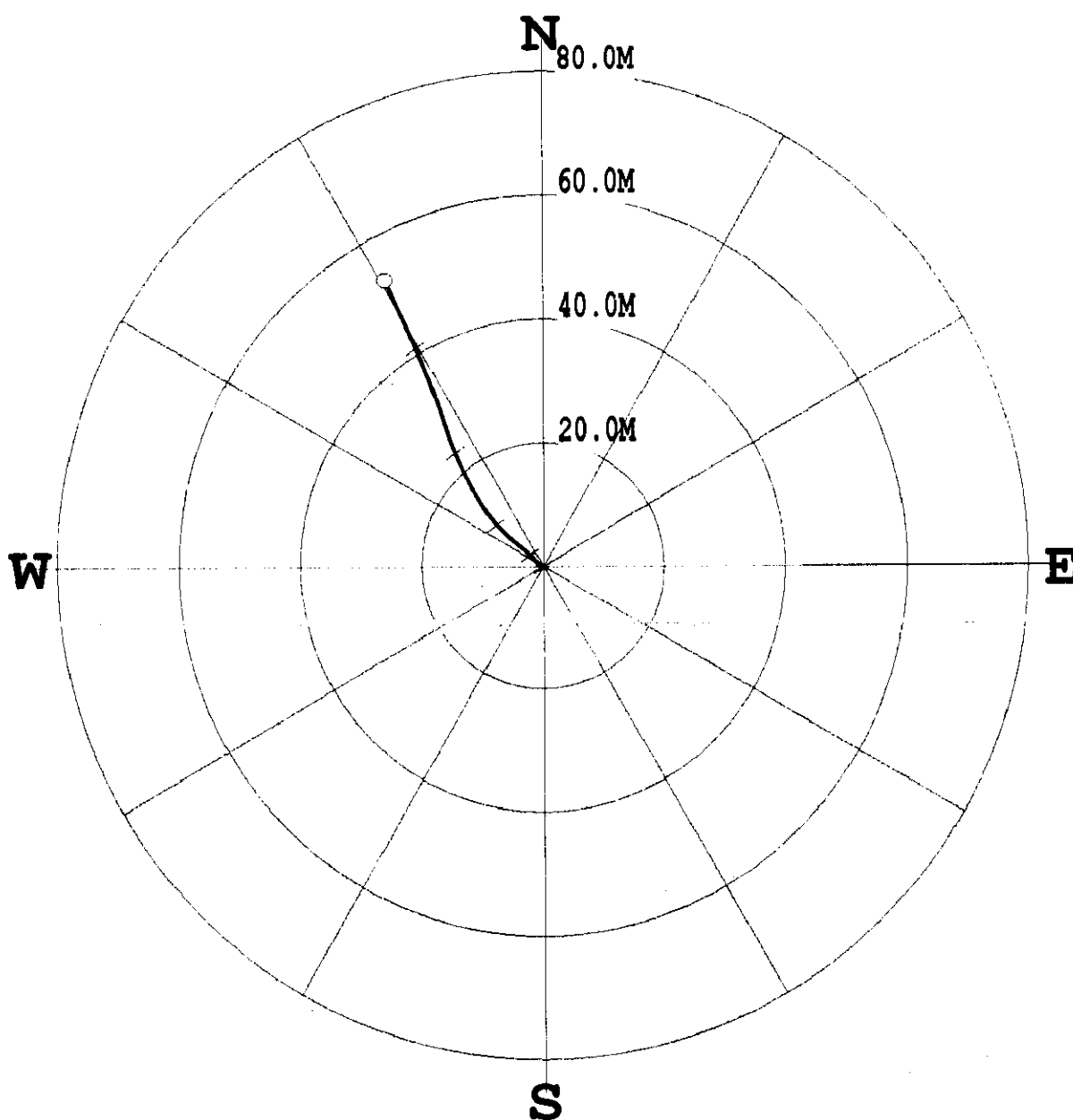
SENSOR	STANDARD	RESPONSE
GAMMA	Default [CPS]	Default [CPS]
NEUTRON	Default [CPS]	Default [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL CORPORATION  
 LOCATION: FORDING RIVER OPERATIONS  
 HOLE ID: 2983  
 DATE OF LOG: 08/03/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 279.60 M  
 AZIMUTH: 330.7  
 DISTANCE: 53.0 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL COR HOLE ID. : 2983  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/03/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2983\_08-03-08\_20-42\_9055A\_02\_1.34\_287.69\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
10.00	10.00	0.02	-0.01	0.0	321.3	0.3	322.0
20.00	20.00	0.02	-0.01	0.0	317.2	0.6	227.9
30.00	30.00	-0.04	-0.06	0.1	231.2	0.6	215.4
40.00	40.00	-0.09	-0.09	0.1	223.3	0.4	183.7
50.00	50.00	-0.16	-0.09	0.2	210.0	0.4	196.2
60.00	60.00	-0.15	-0.20	0.3	233.7	1.4	300.5
70.00	69.99	0.06	-0.48	0.5	276.9	3.2	314.5
80.00	73.97	0.50	-0.91	1.0	298.6	4.0	319.9
90.00	89.94	1.10	-1.44	1.8	307.2	5.5	317.7
100.00	99.89	1.81	-2.14	2.8	310.2	6.1	314.5
110.00	109.83	2.54	-2.94	3.9	310.8	6.5	309.2
120.00	119.75	3.30	-3.92	5.1	310.1	7.7	307.4
130.00	129.64	4.21	-5.05	6.6	309.8	9.0	306.0
140.00	139.51	5.27	-6.26	8.2	310.1	9.9	313.5
150.00	149.32	6.59	-7.58	10.0	311.0	11.6	314.8
160.00	159.10	8.17	-8.92	12.1	312.5	12.8	322.5
170.00	168.81	10.17	-10.23	14.4	314.8	14.6	328.1
180.00	178.45	12.45	-11.57	17.0	317.1	16.0	330.7
190.00	188.04	14.97	-12.89	19.8	319.3	16.8	333.5
200.00	197.58	17.66	-14.15	22.6	321.3	17.5	336.8
210.00	207.10	20.49	-15.33	25.6	323.2	18.0	339.9
220.00	216.57	23.54	-16.36	28.7	325.2	19.7	340.9
230.00	225.97	26.76	-17.47	32.0	326.9	20.2	340.4
240.00	235.33	30.05	-18.71	35.4	328.1	21.0	338.5
250.00	244.66	33.40	-20.08	39.0	329.0	21.0	336.0
260.00	253.98	36.71	-21.54	42.6	329.6	21.4	335.6
270.00	263.26	40.09	-23.10	46.3	330.1	22.1	335.0
280.00	272.50	43.57	-24.70	50.1	330.5	22.4	334.9
287.70	279.56	46.26	-25.94	53.0	330.7	22.9	335.1

COMPANY	EST. VALLEY COAL	OTHER SERVICES
WELL	2984	1 9807 9805
FIELD	CASTLE SOUTH	
COUNTY	CANADA	
PROVINCE	BRITISH COLUMBIA	
LOCATION	CASTLE SOUTH	2-9-303, 598
SECTION	N/A	141 546, 298
TOWNSHIP	N/A	1757, 697
RANGE	N/A	
UTM NO.	N/A	
UNIQUE WELL ID.		
PERMANENT DATUM	SEL	ELEVATION TO N/A
LOG MEASURED FROM OIL		ELEVATION TO N/A
DATE	20/08	
DEPTH UNIT/LEN	20'	
BIT SIZE	13.00	
LOG TOP	5.32	
LOG BOTTOM	284.72	
CASING O.D.	13.75	
CASING BOTTOM	3	
CASING TYPE	N/A	
BORINGHOLE FLUID	WATER	
RT TEMPERATURE	N/A	
RT PRESS	N/A	
RTD WEIGHT	1.0	
RECORDED BY	J. GRESCHUK	
REMARKS 1		
REMARKS 2		

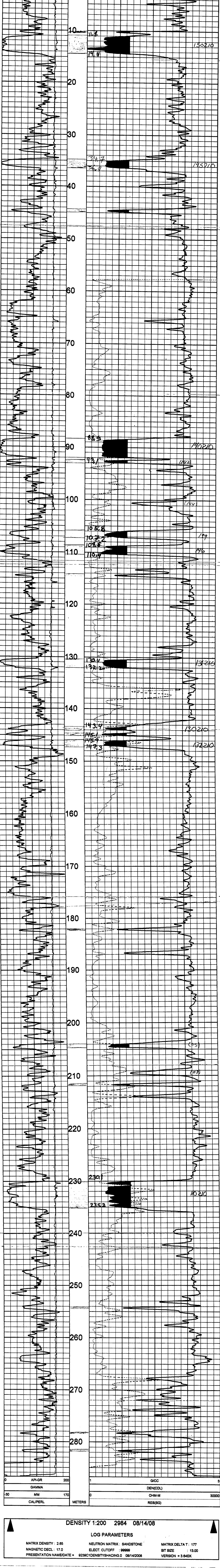
*May 18, 2008*

*B. M...*

DENSITY 1:200 2984 08/14/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 00000	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 0239C1DENSITYSHADING.0 08/14/2008		VERSION = 3.64EK



DENSITY 1:200 2984 08/14/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17.0	ELECT. CUTOFF : 00000	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 0239C1DENSITYSHADING.0 08/14/2008		VERSION = 3.64EK

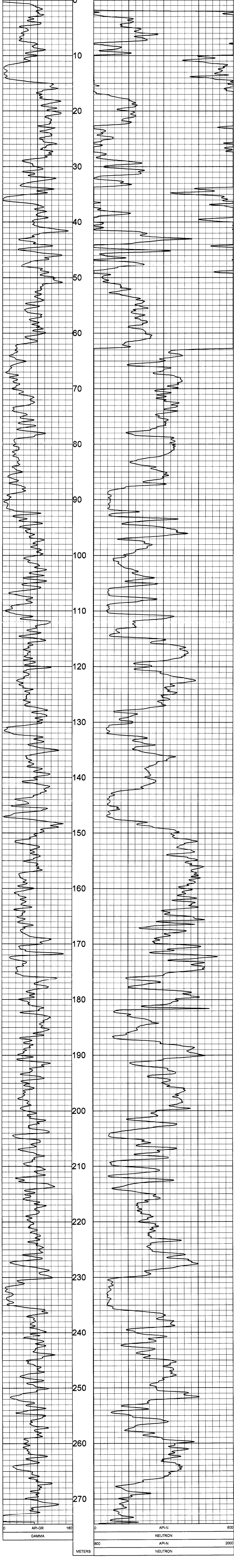
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jan18,08	GAMMA	0.000 [API-GR]	10.00 [CPS]
1	Jan18,08	GAMMA	283.000 [API-GR]	291.00 [CPS]
2	May15,08	VOLTAGE	32.200 [MV]	9010.50 [CPS]
2	May15,08	VOLTAGE	254.000 [MV]	38436.70 [CPS]
3	May15,08	CALIPER	513.000 [INCH]	421526.00 [CPS]
3	May31,08	CALIPER	580.000 [INCH]	499930.00 [CPS]
4	May15,08	DEN(LS)	1.000 [G/CC]	37785.30 [CPS]
4	May15,08	DEN(LS)	2.323 [G/CC]	3951.50 [CPS]
5	May15,08	DEN(SS)	1.000 [G/CC]	82474.70 [CPS]
5	May15,08	DEN(SS)	2.323 [G/CC]	30293.50 [CPS]
6	May15,08	CALIPER	128.250 [INCH]	421526.00 [CPS]
6	May31,08	CALIPER	145.000 [INCH]	499930.00 [CPS]
7	May15,08	CURRENT	32.200 [UA]	5941.50 [CPS]
7	May15,08	CURRENT	254.000 [UA]	25585.50 [CPS]
8	Nov02,06	X	Default	

COMPANY	ELK VALLEY COAL	OTHER SERVICES:
WELL	2984	9065
FIELD	CASTLE SOUTH	9299
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
LOCATION	CASTLE SOUTH	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.		
PERMANENT DATUM	SL	ELEVATION MB N/A
LOG MEASURED FROM SL		ELEVATION OF N/A
DRL MEASURED FROM SL		ELEVATION GL N/A
DATE	08/14/08	
DEPTH DRILLER	275	
BIT SIZE	13	
LOG TOP	0.34	
LOG BOTTOM	274.50	
CASING OD	15.475	
CASING BOTTOM	3	
CASING TYPE	N/A	
BOREHOLE FLUID	WATER	
RH TEMPERATURE	N/A	
MUD WTS	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	J. GRESCHUK	
RECORDED BY		
REMARKS 1		
REMARKS 2		

MAIN LOG 1:200 2984 08/14/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/13/2008 VERSION = 3.64EK



MAIN LOG 1:200 2984 08/14/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/13/2008 VERSION = 3.64EK

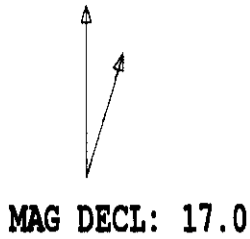
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul20.07 01:44:30	GAMMA	1.000 [API-GR]	1.00 [CPS]
	Jul20.07 01:44:30	GAMMA	250.000 [API-GR]	52.00 [CPS]
2	Sep03.06 10:47:15	NEUTRON	1.000 [API-N]	1.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N]	500.00 [CPS]

TOOL CALIBRATION 2984 08/14/08 00:19  
 TOOL 9067A TM VERSION 1  
 SERIAL NUMBER 530

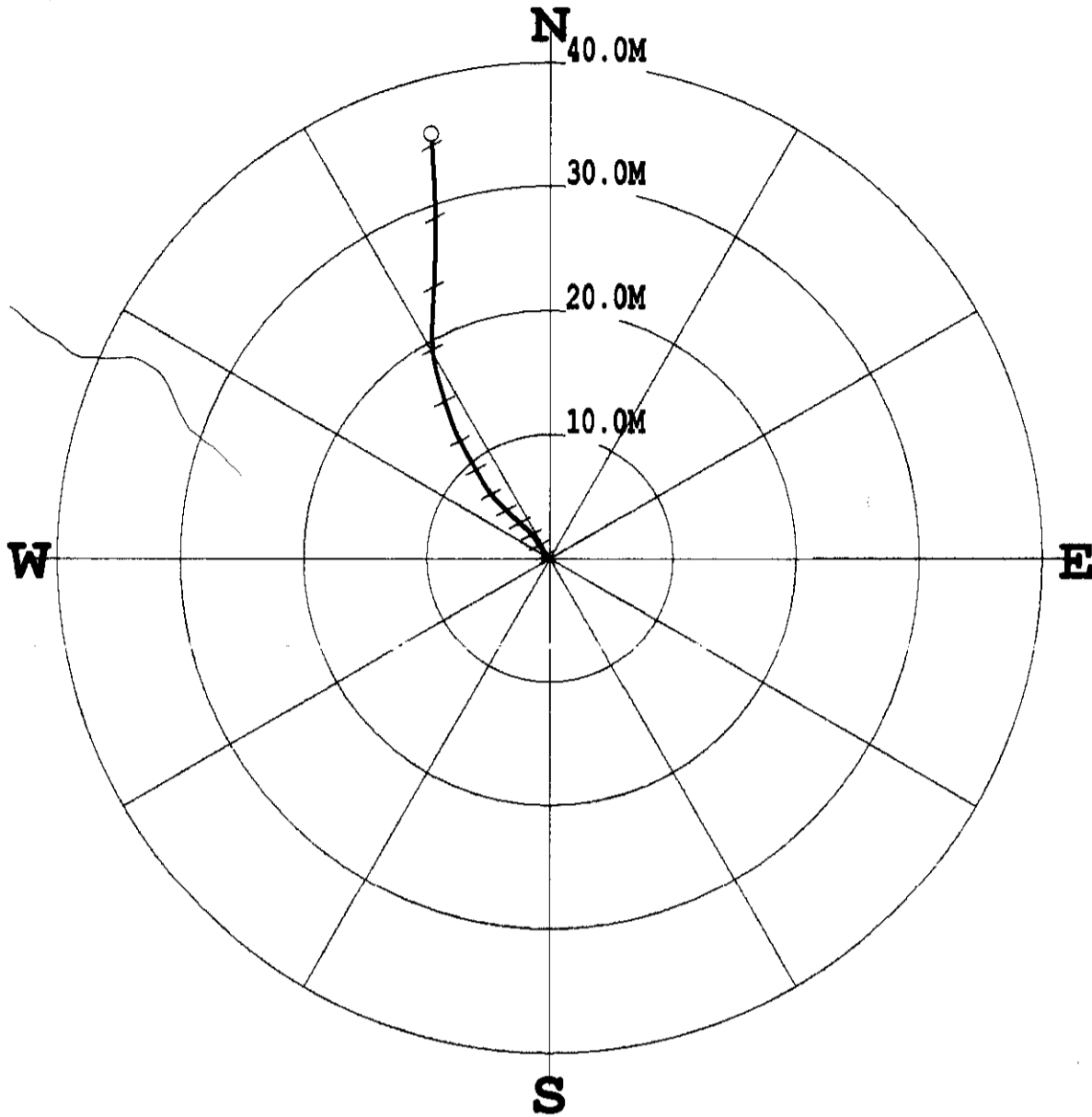
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: CASTLE SOUTH  
 HOLE ID: 2984  
 DATE OF LOG: 08/14/08  
 PROBE: 9055A 72



SCALE: 5 M/CM  
 TRUE DEPTH: 283.19 M  
 AZIMUTH: 344.2  
 DISTANCE: 35.6 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2984  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/14/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2984\_08-14-08\_13-51\_9055A\_02\_8.24\_286.86\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	0.00	-0.00	0.0	297.2	0.4	323.9
20.00	20.00	0.05	0.01	0.1	11.8	0.2	332.7
30.00	30.00	0.12	-0.05	0.1	336.3	0.9	298.7
40.00	39.99	0.32	-0.27	0.4	320.0	2.5	313.4
50.00	49.98	0.67	-0.57	0.9	319.5	2.4	320.9
60.00	59.97	1.08	-0.85	1.4	321.8	2.9	329.3
70.00	69.96	1.51	-1.15	1.9	322.7	3.3	327.3
80.00	79.94	1.94	-1.48	2.4	322.6	3.4	319.6
90.00	89.92	2.39	-1.92	3.1	321.2	4.1	313.2
100.00	99.90	2.87	-2.43	3.8	319.7	4.1	312.0
110.00	109.87	3.36	-2.97	4.5	318.5	4.3	311.4
120.00	119.84	3.87	-3.53	5.2	317.7	4.3	293.4
130.00	129.81	4.44	-4.11	6.1	317.2	5.0	313.9
140.00	139.76	5.15	-4.76	7.0	317.3	6.2	318.6
150.00	149.69	6.09	-5.39	8.1	318.5	6.8	329.6
160.00	159.62	7.11	-5.98	9.3	319.9	6.8	330.1
170.00	169.55	8.18	-6.60	10.5	321.1	7.4	330.0
180.00	179.45	9.41	-7.27	11.9	322.3	8.6	331.4
190.00	189.32	10.87	-7.93	13.5	323.9	9.8	341.9
200.00	199.16	12.55	-8.49	15.2	325.9	10.8	341.8
210.00	208.96	14.44	-9.06	17.0	327.9	11.8	344.5
220.00	218.73	16.54	-9.51	19.1	330.1	13.3	353.4
230.00	228.44	18.91	-9.59	21.2	333.1	14.4	1.8
240.00	238.12	21.41	-9.47	23.4	336.1	14.8	2.3
250.00	247.78	24.02	-9.37	25.8	338.7	15.4	0.8
260.00	257.41	26.72	-9.34	28.3	340.7	15.9	0.1
270.00	267.01	29.50	-9.40	31.0	342.3	16.3	357.5
280.00	276.60	32.31	-9.55	33.7	343.5	15.9	356.6
286.86	283.16	34.20	-9.68	35.5	344.2	16.3	355.6

**Century**  
WIRELINE SERVICES

**GAMMA - CALIPER  
COMPENSATED DENSITY  
2985**

COMPANY	ELK WATLEY COAL	OTHER SERVICES
WELL	2985	8007
FIELD	SOUTH CASTLE	
COUNTY	CANAWA	
PROVINCE	SOUTH CAROLINA	
LOCATION	SOUTH CASTLE	
SECTION	N/A	2 75° 35' N
TOWNSHIP	N/A	14 16' 28" E
RANGE	N/A	7 13' 7" W
UNIQUE WELL ID.	N/A	
APPROX. DATE		
PERMISSION DUTY	SEL	ELEVATION OF M
LOG MEASUREMENT FROM OIL		ELEVATION OF M
DRI MEASUREMENT FROM OIL		
DATE	08/10/08	
DEPTH DOWN	450	
BIT SIZE	13.00	
LOG TOP	3.37	
LOG BOTTOM	448.00	
CASINO CODE	15.875	
CASINO TYPE	STEEL	
ROBBERE FLUID	N/A	
PH TEMPERATURE	N/A	
PHI TEMPERATURE	N/A	
PHI RES	N/A	
PHI WEIGHT	1.0	
PHI CORRECT	SSS	
RECORDED BY	J. BERECHUK	
REMARKS 1		
REMARKS 2		

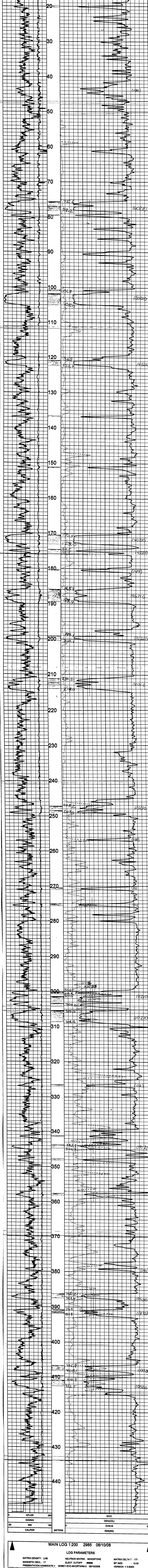
Aug 18, 2008  
B. N. N. N.

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

**MAIN LOG 1:200 2985 08/10/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17      ELECT. CUTOFF : 66999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1-EVC-SHORTARM.0 08/10/2008      VERSION = 3.84EK



**MAIN LOG 1:200 2985 08/10/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17      ELECT. CUTOFF : 66999      BIT SIZE : 13.00  
 PRESENTATION NAME/DATE = 9239C1-EVC-SHORTARM.0 08/10/2008      VERSION = 3.84EK

**TOOL CALIBRATION 2985 08/10/08 19:08**  
 TOOL: 9239C1 TM VERSION 2016  
 SERIAL NUMBER 4443

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	3.00 (CPS)
1	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	304.00 (CPS)
2	May13,08 11:07:48	VOLTAGE	25.000 [MV]	7335.30 (CPS)
2	May13,08 11:07:48	VOLTAGE	282.400 [MV]	3632.80 (CPS)
3	Aug10,08 14:01:28	CALIPER	150.000 [INCH]	28394.00 (CPS)
3	Aug10,08 14:01:28	CALIPER	343.000 [INCH]	42045.00 (CPS)
4	May13,08 15:57:42	DEN(LS)	1.000 [GICC]	39714.70 (CPS)
4	May13,08 15:57:42	DEN(LS)	2.323 [GICC]	388.70 (CPS)
5	May13,08 15:57:55	DEN(SS)	1.000 [GICC]	7308.50 (CPS)
5	May13,08 15:57:55	DEN(SS)	2.323 [GICC]	11243.20 (CPS)
6	May13,08 10:58:05	CALPERL	100.000 [INCH]	25243.90 (CPS)
6	May13,08 10:58:05	CALPERL	200.000 [INCH]	21557.50 (CPS)
7	May13,08 11:08:11	CURRENT	32.000 [UA]	7782.80 (CPS)
7	May13,08 11:08:11	CURRENT	292.400 [UA]	28347.80 (CPS)
8	Aug20,07 16:08:28	F	Default	
9	Aug20,07 16:08:28	X	Default	



COMPANY	ELX WALKER COAL	OTHER SERVICES
WELL	2985	
FIELD	SOUTH CASTLE	
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
LOCATION	SOUTH CASTLE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO	N/A	
LANDFILE WELL ID		
PERMANENT DATA	SL	
LOG MEASURED FROM TOI	ELEVATION OF N/A	
LOG MEASURED FROM TOB	ELEVATION OF N/A	
DEPTH START/END	100/0	
BIT SIZE	13	

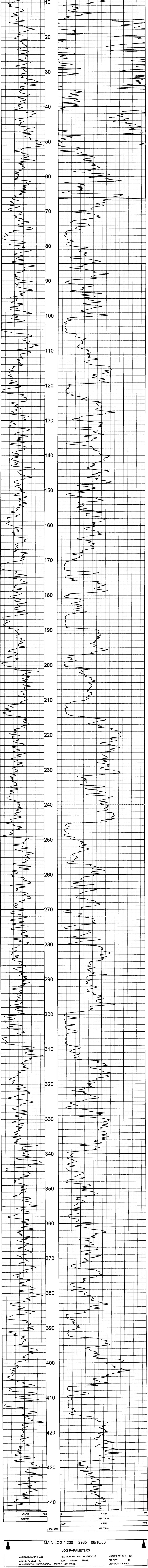
LOGS TOP	13.34
LOGS BOTTOM	442.96
CASING TOP	15.24
CASING BOTTOM	3.5
CASING TYPE	STEEL
SPRINGHEAD FLUID	WATER
SPM TEMPERATURE	N/A
MUD RES	N/A
MUD WEIGHT	11.0
WINDICATED BY	SSS
RECORDED BY	J. GRESCHNIK
REMARKS 1	
REMARKS 2	

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

MAIN LOG 1:200 2985 08/10/08

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17      ELECT CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/10/2008      VERSION = 3.64EK



MAIN LOG 1:200 2985 08/10/08

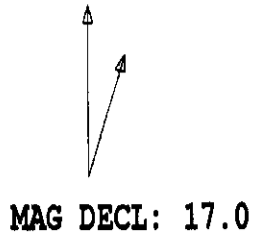
LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 17      ELECT CUTOFF : 99999      BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9067A.0 08/10/2008      VERSION = 3.64EK

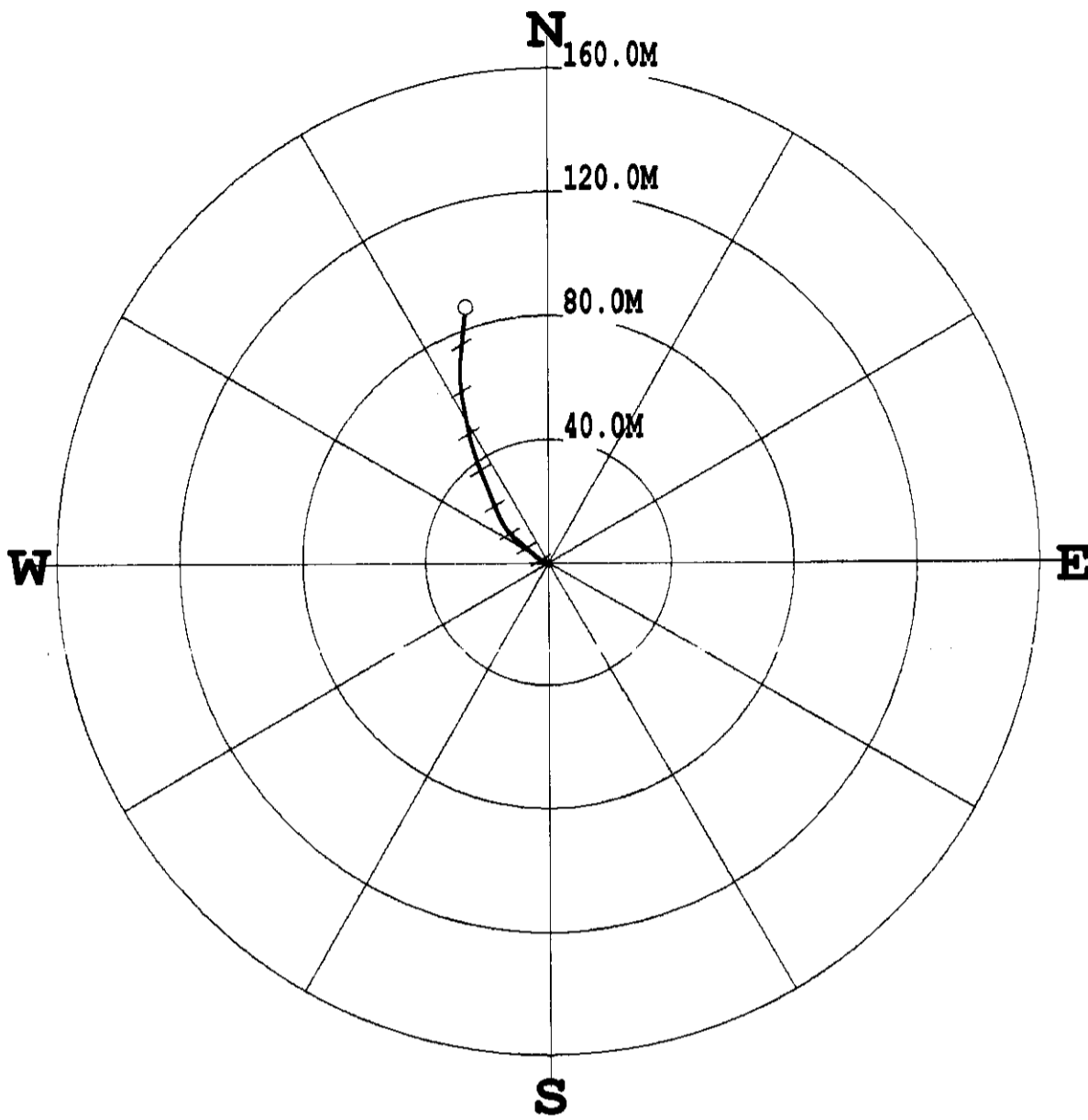
TOOL CALIBRATION 2985 08/10/08 07:56		SENSOR		STANDARD		RESPONSE	
DATE	TIME						
1	Jul20.07	01:44:30	GAMMA	1.000	[API-GR ]	1.00	[CPS]
2	Jul20.07	01:44:30	GAMMA	250.000	[API-GR ]	52.00	[CPS]
	Sep03.06	10:47:15	NEUTRON	1.000	[API-N ]	1.00	[CPS]
	Sep03.06	10:47:15	NEUTRON	500.000	[API-N ]	500.00	[CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: SOUTH CASTLE  
 HOLE ID: 2985  
 DATE OF LOG: 08/10/08  
 PROBE: 9055A 72



SCALE: 20 M/CM  
 TRUE DEPTH: 438.07 M  
 AZIMUTH: 342.1  
 DISTANCE: 86.7 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT : ELK VALLEY COAL                      HOLE ID. : 2985  
 FIELD OFFICE : CENTURY GEO                    DATE OF LOG : 08/10/08  
 DATA FROM : N/A                                PROBE : 9055A                      72  
 MAG. DECL. : 17.000                            DEPTH UNITS : METERS  
 LOG: 2985\_08-10-08\_18-01\_9055A\_.02\_8.18\_449.20\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	10.00	-0.01	-0.01	0.0	235.1	1.4	245.6
20.00	19.99	-0.08	-0.32	0.3	255.4	2.0	256.3
30.00	29.98	0.08	-0.85	0.9	275.5	4.4	297.6
40.00	39.94	0.45	-1.59	1.7	295.8	4.6	293.1
50.00	49.89	0.94	-2.42	2.6	291.2	5.9	304.4
60.00	59.84	1.52	-3.24	3.6	295.2	5.6	305.3
70.00	69.78	2.17	-4.08	4.6	298.0	6.9	308.5
80.00	79.70	2.97	-5.04	5.8	300.5	7.6	312.4
90.00	89.61	3.86	-6.09	7.2	302.3	7.7	309.7
100.00	99.51	4.74	-7.09	8.5	303.7	8.0	309.2
110.00	109.43	5.60	-8.10	9.8	304.7	7.6	310.4
120.00	119.34	6.45	-9.10	11.2	305.3	7.4	304.7
130.00	129.25	7.26	-10.12	12.5	305.6	7.5	309.0
140.00	139.15	8.20	-11.18	13.9	306.2	8.7	314.4
150.00	149.03	9.29	-12.32	15.4	307.0	9.2	315.3
160.00	158.87	10.60	-13.42	17.1	308.3	10.5	322.0
170.00	168.68	12.17	-14.46	18.9	310.1	11.3	329.0
180.00	178.47	13.94	-15.44	20.8	312.1	12.1	332.9
190.00	188.24	15.88	-16.33	22.8	314.2	12.6	336.3
200.00	197.98	17.95	-17.24	24.9	316.2	13.7	337.2
210.00	207.69	20.16	-18.15	27.1	318.0	14.0	338.1
220.00	217.38	22.45	-19.05	29.4	319.7	14.1	339.3
230.00	227.08	24.71	-19.93	31.7	321.1	14.2	337.4
240.00	236.79	26.93	-20.84	34.1	322.3	13.9	337.6
250.00	246.50	29.13	-21.73	36.3	323.3	13.6	338.2
260.00	256.21	31.40	-22.58	38.7	324.3	14.1	340.6
270.00	265.91	33.68	-23.36	41.0	325.3	13.7	341.6
280.00	275.62	35.95	-24.10	43.3	326.2	13.8	341.6
290.00	285.33	38.26	-24.81	45.6	327.0	14.1	344.1
300.00	295.02	40.63	-25.43	47.9	328.0	14.2	346.9
310.00	304.71	43.04	-25.95	50.3	328.9	14.7	349.3
320.00	314.37	45.57	-26.44	52.7	329.9	15.0	347.9
330.00	324.02	48.17	-26.92	55.2	330.8	15.4	350.6
340.00	333.66	50.77	-27.43	57.7	331.6	15.5	347.8
350.00	343.29	53.43	-27.93	60.3	332.4	15.9	350.4
360.00	352.90	56.18	-28.30	62.9	333.3	16.3	354.5
370.00	362.49	58.99	-28.51	65.5	334.2	16.6	356.7
380.00	372.06	61.88	-28.64	68.2	335.2	17.3	360.0
390.00	381.62	64.83	-28.52	70.8	336.3	17.5	4.0
400.00	391.15	67.83	-28.27	73.5	337.4	17.4	5.3
410.00	400.70	70.78	-27.95	76.1	338.5	17.0	6.0
420.00	410.26	73.69	-27.63	78.7	339.4	17.3	6.6
430.00	419.81	76.65	-27.34	81.4	340.4	17.4	4.5
440.00	429.33	79.70	-27.04	84.2	341.3	18.2	7.5
449.20	438.03	82.52	-26.64	86.7	342.1	18.0	9.3

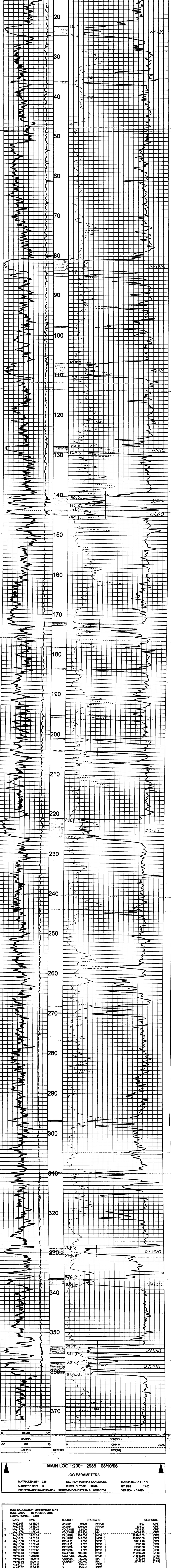
COMPANY	ESTIMATE NO.	23201547
WELL	300TH CASTLE	
FIELD	300TH CASTLE	
COUNTRY	300TH CASTLE	
LOCATION	300TH CASTLE	
SECTION		
TOWNSHIP		
RANGE		
APNO		
PERMITS/DATA		
UNIQUE WELL ID.		
LOG MEASURED FROM SIL		
DATE		
DEPTH DILLER		
LOG TOP		
LOG BOTTOM		
CASING OD		
CASING TYPE		
CASING BORE		
BOREHOLE FLUID		
AIR TEMPERATURE		
MOISTURE		
WIND DIRECTION		
WIND SPEED		
MEASURED BY		
RECORDED BY		
REMARKS 1		
REMARKS 2		

*L. W. J.*  
*Aug 18/2008*

**MAIN LOG 1:200 2986 08/10/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1-EVC-SHORTARM.0 08/10/2008		VERSION = 3.64EK



**MAIN LOG 1:200 2986 08/10/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 17	ELECT. CUTOFF : 99999	BIT SIZE : 13.00
PRESENTATION NAME/DATE = 9239C1-EVC-SHORTARM.0 08/10/2008		VERSION = 3.64EK

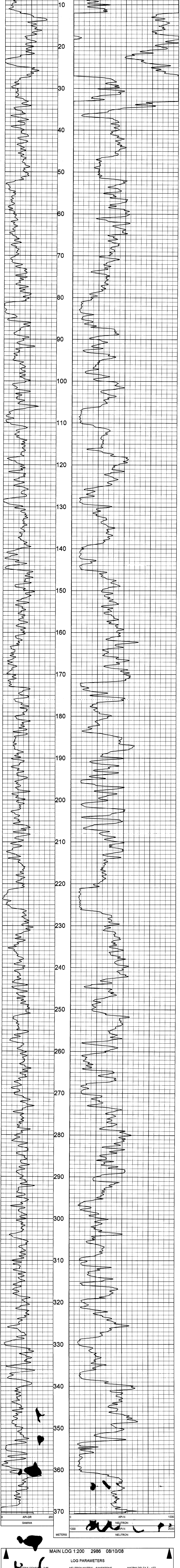
TOOL CALIBRATION 2986 08/10/08 14:19		SERIAL NUMBER 4443			
DATE	TIME	SENSOR	STANDARD	RESPONSE	CPS
1	Aug22,07 12:48:04	GAMMA	0.000 [API-GR]	304.00	[CPS]
2	Aug22,07 12:48:04	GAMMA	320.000 [API-GR]	7335.30	[CPS]
3	May13,08 11:07:48	VOLTAGE	292.400 [MV]	36392.80	[CPS]
3	Aug10,08 14:01:28	CALIPER	156.000 [INCH]	283948.00	[CPS]
4	Aug10,08 14:01:28	CALIPER	343.000 [INCH]	420450.00	[CPS]
5	May13,08 15:57:42	DEN(S)	1.000 [GICC]	38714.70	[CPS]
5	May13,08 15:57:42	DEN(SS)	1.000 [GICC]	3656.70	[CPS]
6	May13,08 15:57:55	DEN(SS)	1.000 [GICC]	73088.50	[CPS]
6	May13,08 15:57:55	DEN(SSL)	2.323 [GICC]	25243.90	[CPS]
7	May13,08 10:58:05	CALIPER	200.000 [INCH]	112403.20	[CPS]
7	May13,08 11:09:11	CURRENT	32.000 [UA]	21557.50	[CPS]
8	Aug20,07 18:08:26	CURRENT	252.400 [UA]	28347.60	[CPS]
8	Aug20,07 18:08:26	F	Default [CPS]		
8	Aug20,07 18:08:26	X	Default [CPS]		

COMPANY	ELI WATER COAL	OTHER SERVICES	
WELL	2986	9229	9229
FIELD	SOUTH CASTLE		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
LOCATION	SOUTH CASTLE		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATA	EL	ELEVATION OF N/A	
LOG RECORDED FROM LOG		ELEVATION OF N/A	
DATE	08/10/08		
DEPT/ OPERATOR	2/3		
BIT SIZE	13		
LOG TOP	0.38		
LOG BOTTOM	370.54		
CASING OD	15.24		
CASING BOTTOM			
CASING TYPE	STEEL		
ROBERTS FLUID	WATER		
ROBERTS TEMPERATURE	N/A		
MUD WEIGHT	N/A		
WINDUP WEIGHT	1.0		
WINDUP SPEED	3.0		
RECORDED BY	J. BRESCHUK		
REMARKS 1			
REMARKS 2			

MAIN LOG 1:200 2986 08/10/08

LOG PARAMETERS

MATRIX DENSITY : 2.85 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL. : 17 ELECT CUTOFF : 99999 BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9087A.0 08/10/2008 VERSION = 3.64EK



MAIN LOG 1:200 2986 08/10/08

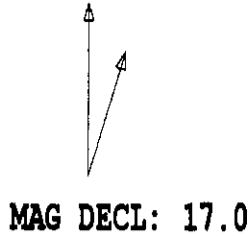
LOG PARAMETERS

MATRIX DENSITY : 2.85 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL. : 17 ELECT CUTOFF : 99999 BIT SIZE : 13  
 PRESENTATION NAME/DATE = 9087A.0 08/10/2008 VERSION = 3.64EK

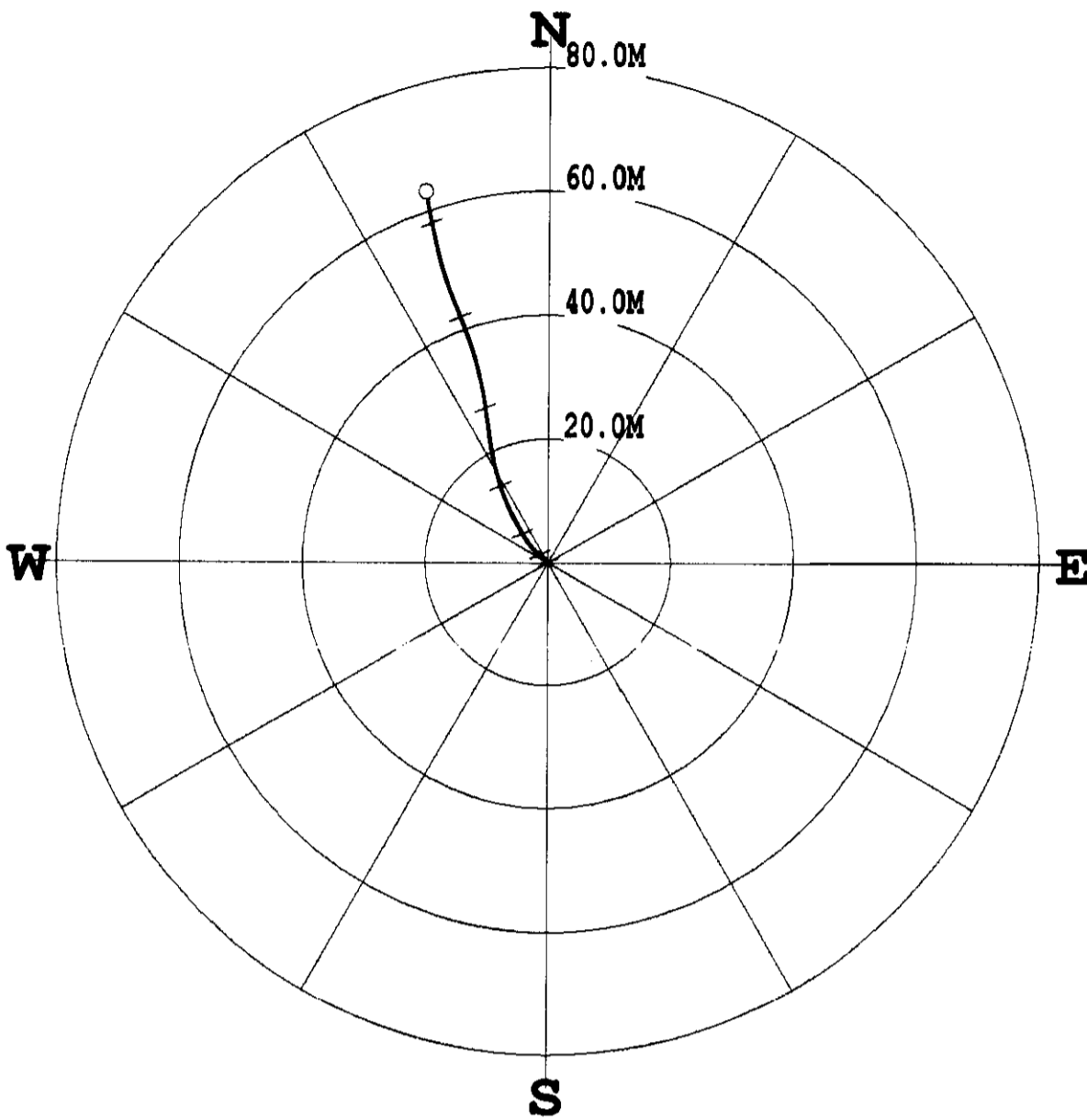
TOOL CALIBRATION	DATE	TIME	SENSOR	STANDARD	RESPONSE
TOOL 9087A <td>Jul20,07</td> <td>01:44:30</td> <td>GAMMA</td> <td>1.000 [API-GR]</td> <td>1.00 [CPS]</td>	Jul20,07	01:44:30	GAMMA	1.000 [API-GR]	1.00 [CPS]
SERIAL NUMBER 1	Jul20,07	01:44:30	GAMMA	250.000 [API-GR]	52.00 [CPS]
2	Sep03,08	10:47:15	NEUTRON	1.000 [API-N]	1.00 [CPS]
	Sep03,08	10:47:15	NEUTRON	500.000 [API-N]	500.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL  
 LOCATION: SOUTH CASTLE  
 HOLE ID: 2986  
 DATE OF LOG: 08/10/08  
 PROBE: 9055A 72



SCALE: 10 M/CM  
 TRUE DEPTH: 366.73 M  
 AZIMUTH: 341.5  
 DISTANCE: 63.1 M  
 + = 50 M INCR  
 ○ = BOTTOM OF HOLE



\*\*\*\*\* COMPU-LOG - VERTICAL DEVIATION \*\*\*\*\*

CLIENT : ELK VALLEY COAL HOLE ID. : 2986  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 08/10/08  
 DATA FROM : N/A PROBE : 9055A 72  
 MAG. DECL. : 17.000 DEPTH UNITS : METERS  
 LOG: 2986\_08-10-08\_13-11\_9055A\_02\_8.32\_374.88\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
10.00	10.00	0.00	-0.00	0.0	284.0	0.2	327.6
20.00	20.00	-0.03	0.02	0.0	145.6	0.5	120.9
30.00	30.00	-0.08	0.07	0.1	138.1	0.4	118.3
40.00	40.00	-0.04	0.10	0.1	113.4	0.3	36.2
50.00	50.00	0.05	0.09	0.1	62.1	0.3	5.8
60.00	60.00	0.19	-0.00	0.2	358.9	1.3	318.3
70.00	69.99	0.38	-0.20	0.4	332.4	1.7	306.0
80.00	79.98	0.64	-0.52	0.8	321.3	2.5	332.6
90.00	89.97	0.98	-0.86	1.3	318.9	2.8	308.4
100.00	99.96	1.33	-1.29	1.9	315.8	3.7	309.4
110.00	109.93	1.74	-1.80	2.5	314.0	3.9	309.7
120.00	119.91	2.24	-2.36	3.3	313.5	4.6	315.1
130.00	129.87	2.86	-2.92	4.1	314.4	6.1	318.3
140.00	139.82	3.70	-3.54	5.1	316.3	6.4	326.0
150.00	149.75	4.70	-4.14	6.3	318.6	7.0	330.5
160.00	159.65	5.87	-4.81	7.6	320.7	8.5	329.9
170.00	169.54	7.18	-5.54	9.1	322.4	9.0	330.9
180.00	179.41	8.63	-6.29	10.7	323.9	9.9	334.7
190.00	189.24	10.31	-7.01	12.5	325.8	11.3	335.8
200.00	199.03	12.19	-7.69	14.4	327.8	15.3	339.3
210.00	208.81	14.21	-8.31	16.5	329.7	12.8	343.1
220.00	218.52	16.49	-8.92	18.8	331.6	14.4	347.2
230.00	228.19	19.00	-9.41	21.2	333.7	15.0	351.4
240.00	237.84	21.61	-9.78	23.7	335.6	15.6	352.1
250.00	247.47	24.28	-10.17	26.3	337.3	15.8	352.1
260.00	257.08	27.02	-10.59	29.0	338.6	16.5	349.8
270.00	266.65	29.83	-11.19	31.9	339.4	16.7	346.5
280.00	276.23	32.62	-11.91	34.7	339.9	16.9	344.5
290.00	285.79	35.40	-12.80	37.6	340.1	16.8	341.1
300.00	295.33	38.21	-13.85	40.6	340.1	17.6	339.2
310.00	304.84	41.07	-15.02	43.7	339.9	17.7	336.8
320.00	314.34	43.97	-16.17	46.9	339.8	18.3	338.8
330.00	323.86	46.88	-17.16	49.9	339.9	17.7	342.4
340.00	333.39	49.81	-17.97	53.0	340.2	17.7	345.5
350.00	342.93	52.71	-18.67	55.9	340.5	17.0	346.7
360.00	352.50	55.55	-19.28	58.8	340.9	17.1	347.8
370.00	362.06	58.43	-19.81	61.7	341.3	16.9	351.1
374.88	366.69	59.83	-20.02	63.1	341.5	16.9	351.7