Company Catamount Energy Partners
Well Lynch 34-6-18 #2
Field Ignacio Blanco
County La Plata County
State Colorado

BASIN WELL LOGGING
PERFORATING - WIRELINE SERVICES

Cased Hole Compensated Neutron W/Gamma Ray And Casing Collars

Company Catamount Energy Partners
Well Lynch 34-6-18 #2
Field Ignacio Blanco
County La Plata County State Colorado

Location: API #: 05-067-09921000
1734' FNL & 209' FWL
SEC 18 TWP 34N RGE 6W

Other Services
RCBL

Permanent Datum	Ground Level	Elevation	6858'
Log Measured From	K.B. 11'		
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 6869'
D.F. 6868'
G.L. 6858'

Date	5-9-2016
Run Number	One
Depth Driller	3217' PBTD
Depth Logger	3209'
Bottom Logged Interval	3208'
Top Log Interval	Surface
Open Hole Size	8-3/4"
Type Fluid	Water
Density / Viscosity	8.4"
Max. Recorded Temp.	N/A
Estimated Cement Top	See Log
Time Well Ready	See Log
Time Logger on Bottom	See Log
Equipment Number	T-118
Location	Farmington N.M.
Recorded By	R. Sweat
Witnessed By	M. Wolfe

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
	8.75"						

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8"	36# J-55	Surface	415'
Prot. String				
Production String	7"	26# J-55	Surface	3217'
Liner				
Marker Jt.	2606'-2627'			

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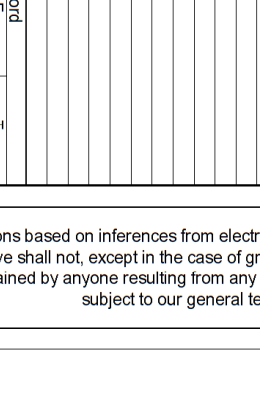
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	16.43 16.43 16.43 16.43 16.43 16.43 16.43 16.43 16.43 16.43 15.35		RBT-Probe (1308-02) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			PTS275	2.83	2.75	
CCL GR	8.83 7.67		GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.60	2.75	30.00
CNLSC CNSSC	1.65 1.24		CNT-Probe_B (090117)	4.67	2.75	40.00

Dataset: lynch34-6-28#1.db: field/lynch3462/run1/pass7
Total Length: 23.85 ft
Total Weight: 160.00 lb
O.D. 2.75 in

BASIN WELL LOGGING
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Main Pass

Database File: lynch34-6-28#1.db
Dataset Pathname: lynch3462/run1/pass7
Presentation Format: cntfruit
Dataset Creation: Mon May 09 13:09:21 2016 by Log SCH 120126
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 200	LTEN	60 NEUTRON POROSITY (pu) 0	
-9 CCL 1	0 (lb) 1000		NEURTON LONG SPACE -480 (cps) 750
			NEUTRON SHORT SPACE -275 (cps) 2850

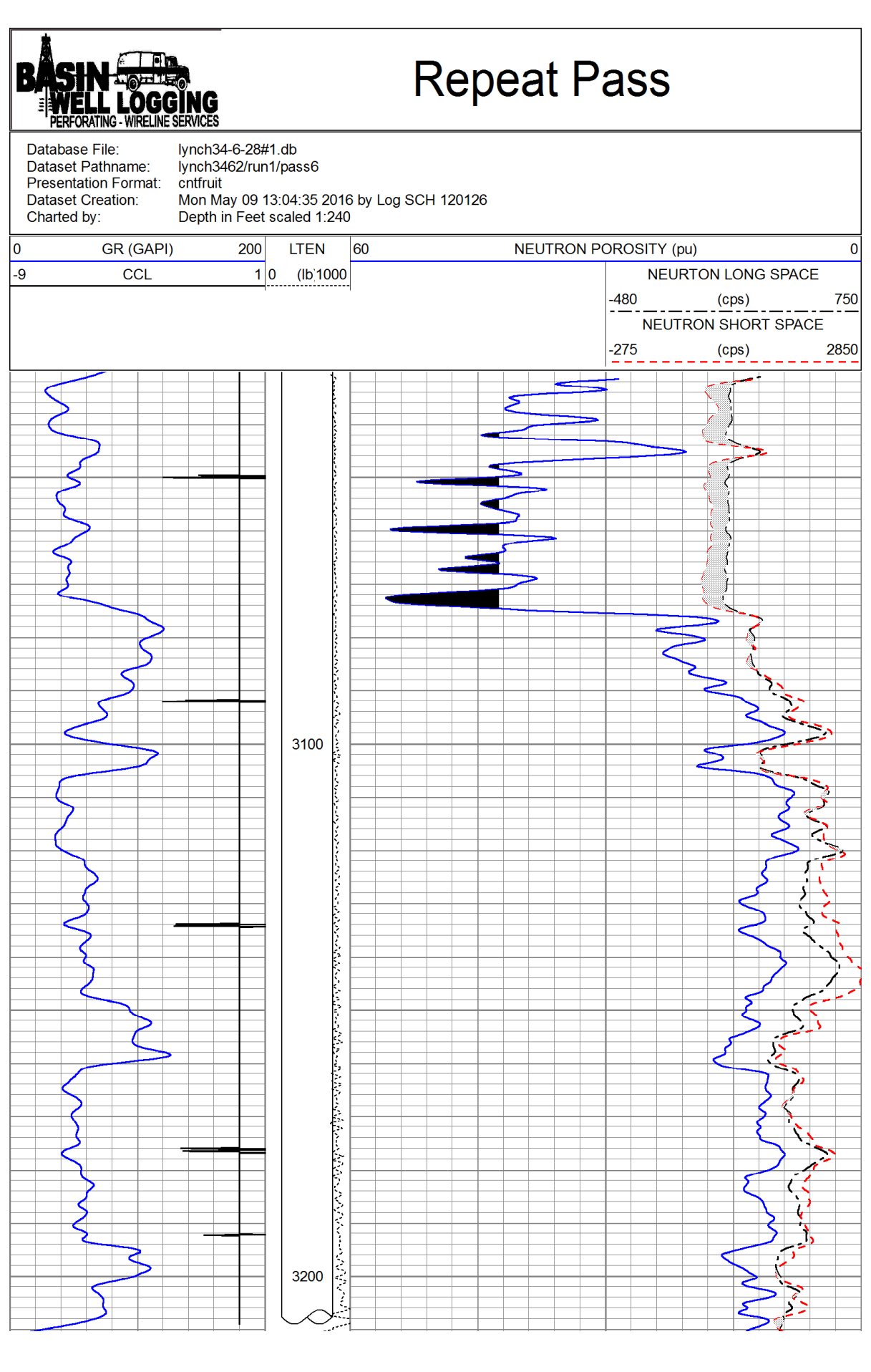
0 GR (GAPI) 200	LTEN	60 NEUTRON POROSITY (pu) 0	
-9 CCL 1	0 (lb) 1000		NEURTON LONG SPACE -480 (cps) 750
			NEUTRON SHORT SPACE -275 (cps) 2850

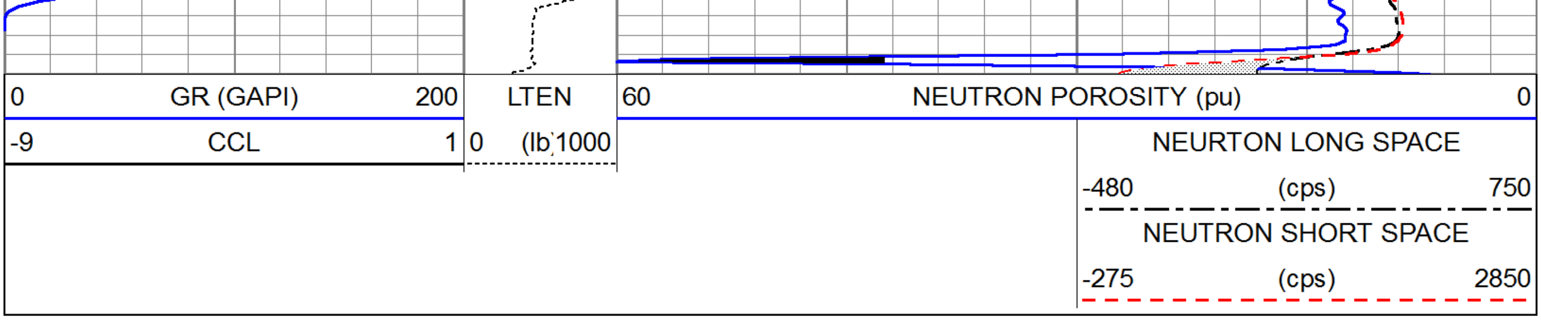
BASIN WELL LOGGING
PERFORATING - WIRELINE SERVICES

Repeat Pass

Database File: lynch34-6-28#1.db
Dataset Pathname: lynch3462/run1/pass6
Presentation Format: cntfruit
Dataset Creation: Mon May 09 13:04:35 2016 by Log SCH 120126
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 200	LTEN	60 NEUTRON POROSITY (pu) 0	
-9 CCL 1	0 (lb) 1000		NEURTON LONG SPACE -480 (cps) 750
			NEUTRON SHORT SPACE -275 (cps) 2850





Calibration Report

Database File:	lynch34-6-28#1.db
Dataset Pathname:	lynch3462/run1/pass7
Dataset Creation:	Mon May 09 13:09:21 2016 by Log SCH 120126

Compensated Neutron Calibration Report

Type / Serial: Probe_B / 090117
Source / Verifier: /
Temperature:

SHOP CALIBRATION Fri Jan 30 17:39:55 2009

	Cal Tube	Units
Tank Ratio		SS/LS
Tank Porosity		pu
LS Detector		cps
SS Detector		cps
Tool Ratio		SS/LS
Tool Porosity		pu

Tool Constant =

Field Verifier	SS Detector	LS Detector	Ratio	Porosity

PRE-SURVEY VERIFICATION

SS Detector	LS Detector	Ratio	Porosity

POST-SURVEY VERIFICATION

SS Detector	LS Detector	Ratio	Porosity

Gamma Ray Calibration Report

Serial Number:	275	
Tool Model:	Probe	
Performed:	Tue May 13 18:16:34 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8500	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	1308-02	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	0.000	ft

Master Calibration, performed Mon May 09 12:19:43 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.005	0.740	0.000	62.165	83.473	0.417
CAL	-0.005	1.084				
5'	0.006	0.611	0.000	62.165	102.695	-0.600
SUM						
S1	-0.005	0.737	0.000	100.000	134.773	0.687
S2	-0.005	0.728	0.000	100.000	136.408	0.709
S3	-0.005	0.736	0.000	100.000	135.013	0.675
S4	-0.005	0.741	0.000	100.000	134.009	0.643
S5	-0.005	0.722	0.000	100.000	137.535	0.715
S6	-0.005	0.814	0.000	100.000	122.054	0.622
S7	-0.005	0.827	0.000	100.000	120.102	0.625
S8	-0.005	0.771	0.000	100.000	128.790	0.683

Internal Reference Calibration, performed Fri Sep 04 12:49:21 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	1.084	1.000	0.000

Air Zero Calibration, performed Mon May 09 11:30:28 2016:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.005	0.000	0.001
5'	0.007	0.000	-0.001
SUM			
S1	0.001	0.000	0.000
S2	0.005	0.000	0.000
S3	0.006	0.000	0.000
S4	0.007	0.000	-0.000
S5	0.006	0.000	0.000
S6	0.006	0.000	0.000
S7	0.005	0.000	0.000
S8	0.004	0.000	0.001