

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Everglow Energy, LLC
Well Name	HACKNEY 1-15
Doc ID	1402104

All Electric Logs Run

CPI
DIL
MEL
DUCP



DRILL STEM TEST REPORT

Prepared For: **Everglow Energy, LLC.**

6908 NW 112th ST
Oklahoma City OK 73162

ATTN: Tom Castelli

Hackney #1-15

15-32S-17W Comanche,KS

Start Date: 2018.01.26 @ 21:46:00

End Date: 2018.01.27 @ 09:54:45

Job Ticket #: 63543 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.29 @ 09:53:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Everglow Energy, LLC.
 6908 NW 112th ST
 Oklahoma City OK 73162
 ATTN: Tom Castelli

15-32S-17W Comanche,KS
Hackney #1-15
 Job Ticket: 63543 **DST#: 1**
 Test Start: 2018.01.26 @ 21:46:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:19:45
 Time Test Ended: 09:54:45
 Interval: **5122.00 ft (KB) To 5164.00 ft (KB) (TVD)**
 Total Depth: 5164.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2110.00 ft (KB)
 2105.00 ft (CF)
 KB to GR/CF: 5.00 ft

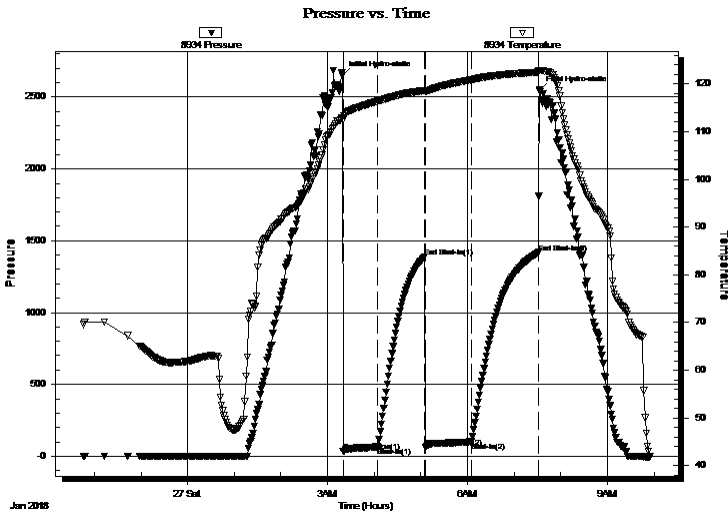
Serial #: 8934

Inside

Press@RunDepth: 99.51 psig @ 5128.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.01.26 End Date: 2018.01.27 Last Calib.: 2018.01.27
 Start Time: 21:46:15 End Time: 09:54:45 Time On Btm: 2018.01.27 @ 03:19:00
 Time Off Btm: 2018.01.27 @ 07:33:00

TEST COMMENT: 45-IF- BOB(11") in 45 seconds
 60-ISI- No Return
 60-FF- BOB instantaneously; GTS in 45 min; TSTM
 90-FSI- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2648.90	112.92	Initial Hydro-static
1	33.03	112.60	Open To Flow (1)
46	64.16	116.40	Shut-In(1)
106	1389.00	118.57	End Shut-In(1)
108	63.91	118.28	Open To Flow (2)
166	99.51	120.84	Shut-In(2)
253	1417.66	122.44	End Shut-In(2)
254	2547.87	122.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	GM 5%G 95%M	0.46
63.00	GVSOWCM w/oil specks 7%G 1%W 92%M	0.66
63.00	GVSOWCM 12%G 1%O 2%W 85%M	0.88
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Everglow Energy, LLC.

15-32S-17W Comanche,KS

6908 NW 112th ST
Oklahoma City OK 73162

Hackney #1-15

Job Ticket: 63543

DST#: 1

ATTN: Tom Castelli

Test Start: 2018.01.26 @ 21:46:00

Tool Information

Drill Pipe:	Length: 4989.00 ft	Diameter: 3.80 inches	Volume: 69.98 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	60000.00 lb
Drill Pipe Above KB:	13.00 ft			Final	60000.00 lb
Depth to Top Packer:	5122.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5095.00	
Shut In Tool	5.00			5100.00	
Hydraulic tool	5.00			5105.00	
Jars	5.00			5110.00	
Safety Joint	3.00			5113.00	
Packer	5.00			5118.00	28.00 Bottom Of Top Packer
Packer	4.00			5122.00	
Stubb	1.00			5123.00	
Perforations	4.00			5127.00	
Change Over Sub	1.00			5128.00	
Recorder	0.00	9120	Inside	5128.00	
Recorder	0.00	8934	Inside	5128.00	
Drill Pipe	31.00			5159.00	
Change Over Sub	1.00			5160.00	
Bullnose	4.00			5164.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Everglow Energy, LLC.

15-32S-17W Comanche,KS

6908 NW 112th ST
Oklahoma City OK 73162

Hackney #1-15

Job Ticket: 63543

DST#: 1

ATTN: Tom Castelli

Test Start: 2018.01.26 @ 21:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	GM 5%G 95%M	0.457
63.00	GVSOWCM w /oil specks 7%G 1%W 92%M	0.656
63.00	GVSOWCM 12%G 1%O 2%W 85%M	0.884
0.00	GTS	0.000

Total Length: 219.00 ft

Total Volume: 1.997 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

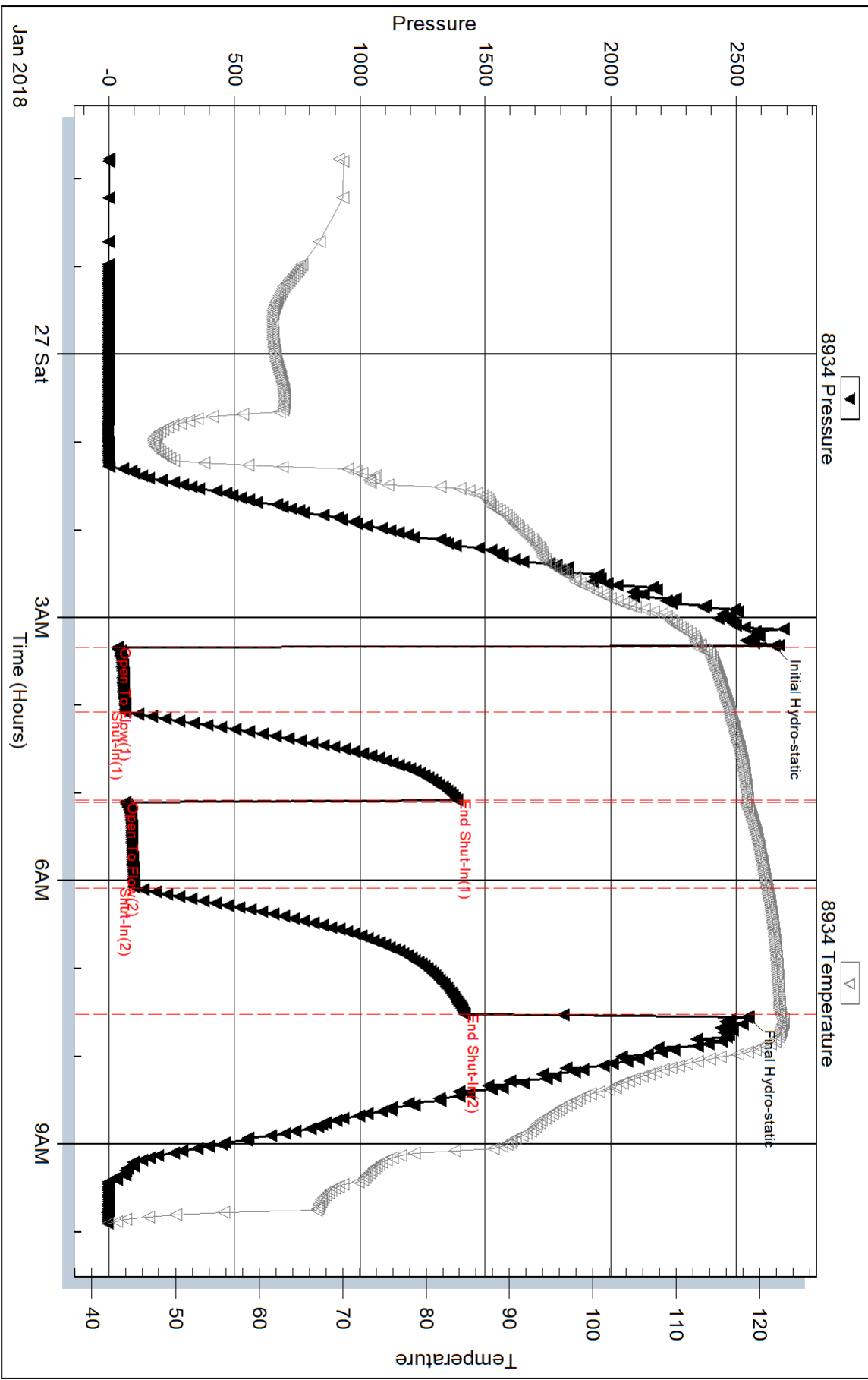
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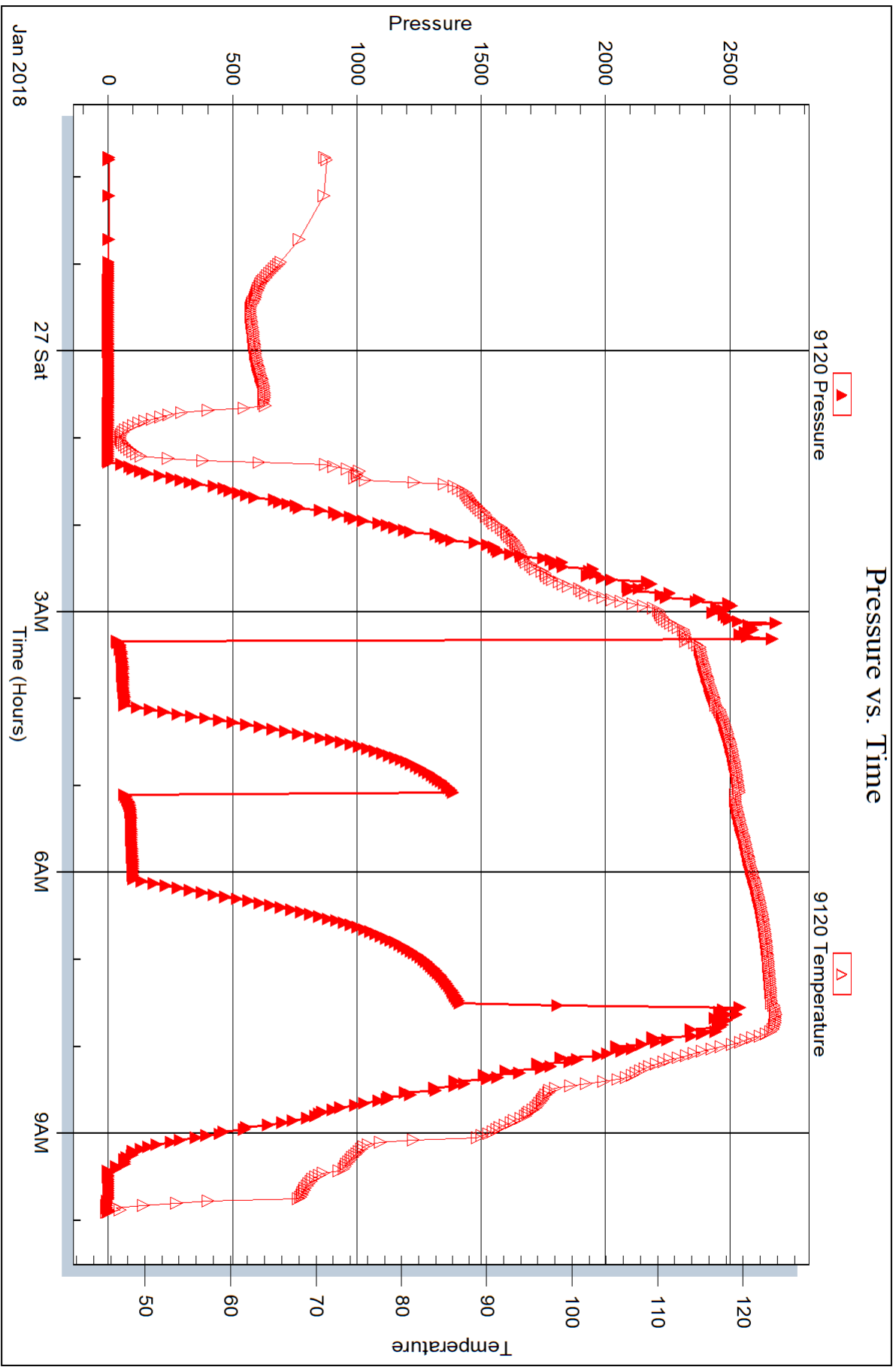
Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Everglow Energy, LLC.**

6908 NW 112th ST
Oklahoma City OK 73162

ATTN: Tom Castelli

Hackney #1-15

15-32S-17W Comanche,KS

Start Date: 2018.01.27 @ 19:49:12

End Date: 2018.01.28 @ 04:15:44

Job Ticket #: 63353 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.29 @ 09:52:45



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Everglow Energy, LLC.
6908 NW 112th ST
Oklahoma City OK 73162
ATTN: Tom Castelli

15-32S-17W Comanche,KS
Hackney #1-15
Job Ticket: 63353 **DST#: 2**
Test Start: 2018.01.27 @ 19:49:12

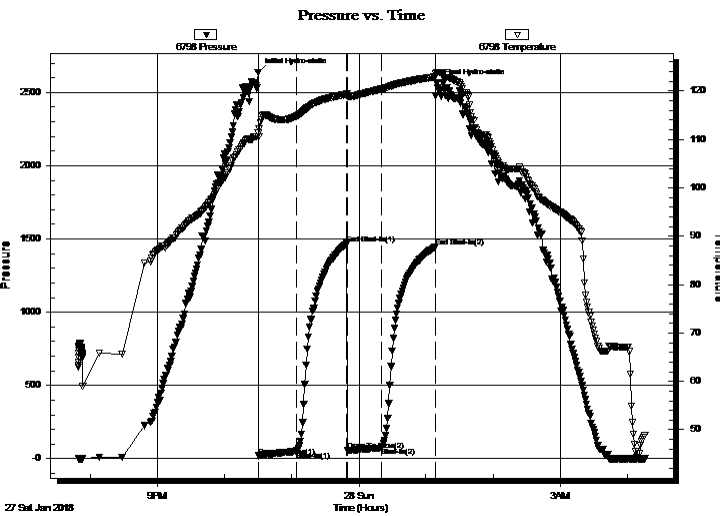
GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:30:30
Time Test Ended: 04:15:44
Interval: 5169.00 ft (KB) To 5186.00 ft (KB) (TVD)
Total Depth: 5186.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2110.00 ft (KB)
2105.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6798 Inside

Press@RunDepth: 74.59 psig @ 5170.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.01.27 End Date: 2018.01.28 Last Calib.: 2018.01.28
Start Time: 19:49:13 End Time: 04:15:45 Time On Btm: 2018.01.27 @ 22:29:45
Time Off Btm: 2018.01.28 @ 01:10:14

TEST COMMENT: IF: Weak Blow , Built to 2 1/2"
IS: No Blow Back
FF: Weak Surface Blow
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2635.91	111.30	Initial Hydro-static
1	18.70	110.55	Open To Flow (1)
35	49.76	114.80	Shut-In(1)
80	1469.04	119.32	End Shut-In(1)
80	54.97	118.84	Open To Flow (2)
111	74.59	120.37	Shut-In(2)
159	1445.72	122.91	End Shut-In(2)
161	2560.36	123.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
59.00	MCW 5%M 95%W	0.29
59.00	WCM 10%W 90%M	0.29
2.00	SOCM 2%O 98%M	0.03

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Everglow Energy, LLC.

15-32S-17W Comanche,KS

6908 NW 112th ST
Oklahoma City OK 73162

Hackney #1-15

Job Ticket: 63353

DST#: 2

ATTN: Tom Castelli

Test Start: 2018.01.27 @ 19:49:12

Tool Information

Drill Pipe:	Length: 5051.00 ft	Diameter: 3.80 inches	Volume: 70.85 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 71.43 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	5169.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			5148.00	
Hydraulic tool	5.00			5153.00	
Jars	5.00			5158.00	
Safety Joint	2.00			5160.00	
Packer	5.00			5165.00	26.00 Bottom Of Top Packer
Packer	4.00			5169.00	
Stubb	1.00			5170.00	
Recorder	0.00	6798	Inside	5170.00	
Recorder	0.00	6806	Outside	5170.00	
Perforations	13.00			5183.00	
Bullnose	3.00			5186.00	17.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Everglow Energy, LLC.

15-32S-17W Comanche,KS

6908 NW 112th ST
Oklahoma City OK 73162

Hackney #1-15

Job Ticket: 63353

DST#: 2

ATTN: Tom Castelli

Test Start: 2018.01.27 @ 19:49:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

74000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
59.00	MCW 5%M 95%W	0.290
59.00	WCM 10%W 90%M	0.290
2.00	SOCM 2%O 98%M	0.028

Total Length: 120.00 ft Total Volume: 0.608 bbl

Num Fluid Samples: 0

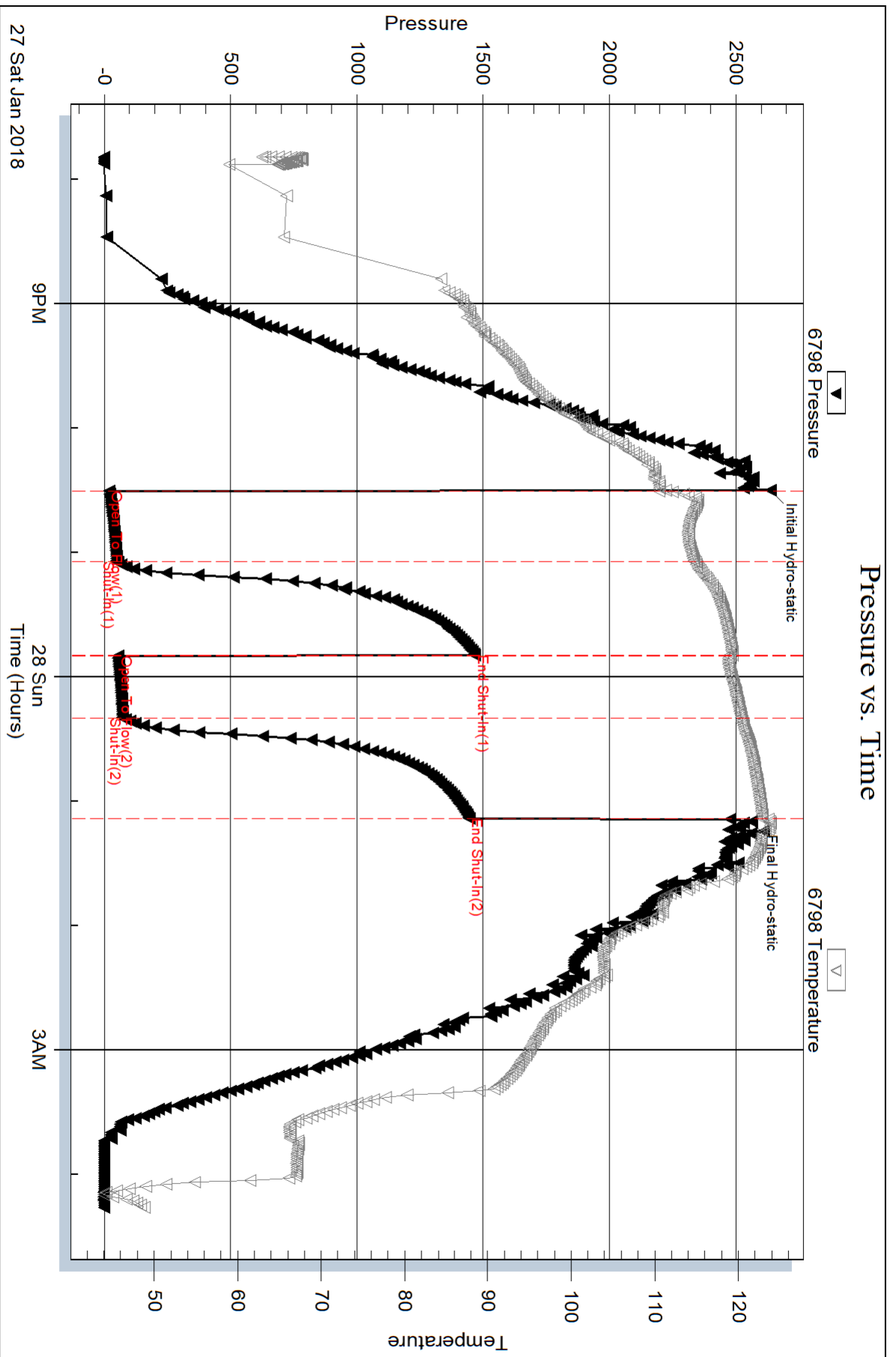
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .21 @ 35 degrees

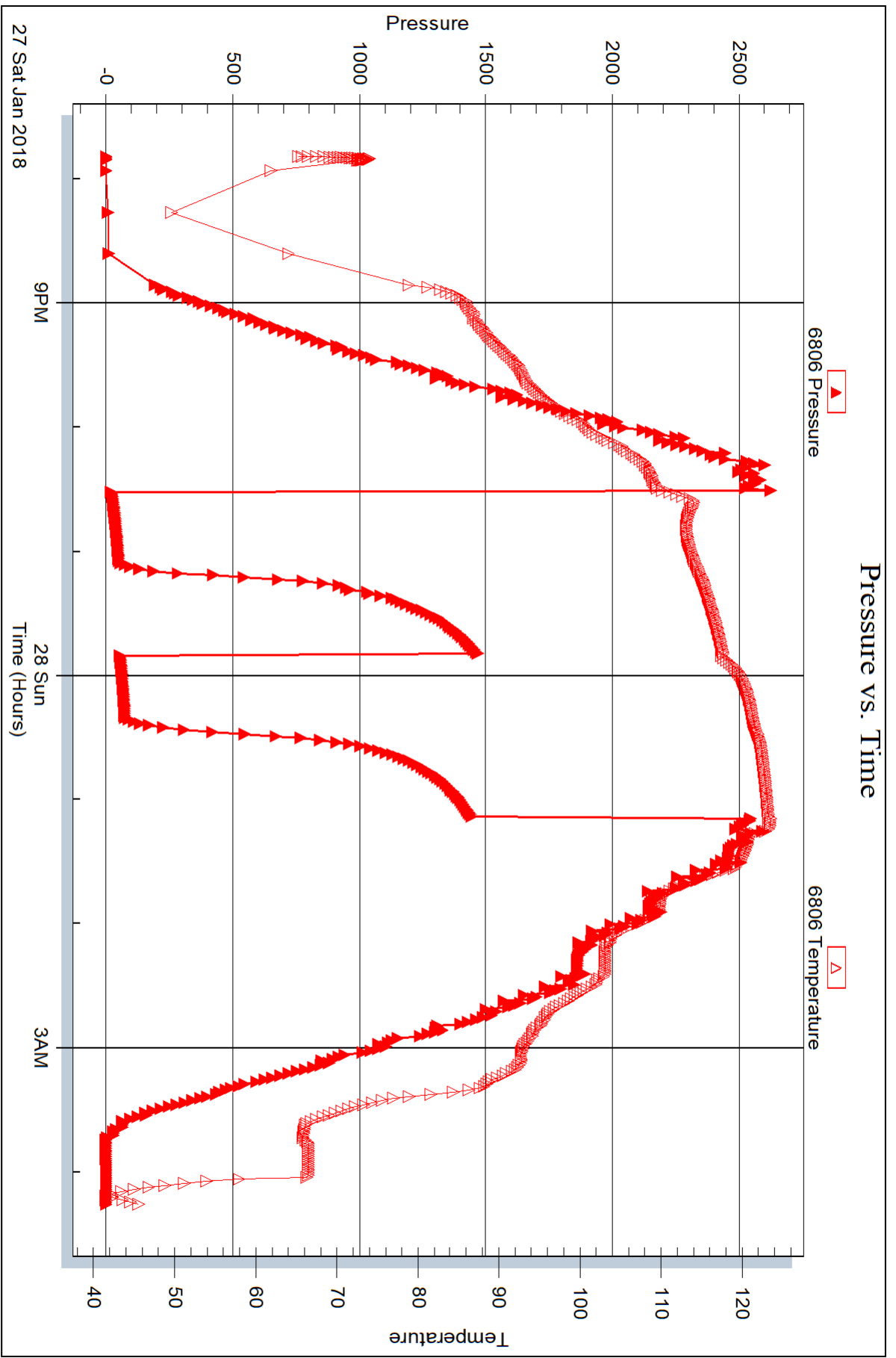


Serial #: 6806

Outside Everglow Energy, LLC.

Hackney #1-15

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63353

Printed: 2018.01.29 @ 09:52:46



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63543

Well Name & No. Hackney #1-15 Test No. 1 Date 01/26/2018
 Company Everglow Energy LLC Elevation 2110 KB 2105 GL
 Address 6908th N.W. 112th St Oklahoma City 73162
 Co. Rep / Geo. Tom Castelli Rig 9W #2
 Location: Sec. 15 Twp 32 S Rge. 17 W Co. Comanche State KS

Interval Tested 5122' - 5164' Zone Tested Mississippi
 Anchor Length 42' Drill Pipe Run 4989' Mud Wt. 9.4
 Top Packer Depth 5117' Drill Collars Run 118' Vls 58
 Bottom Packer Depth 5122' Wt. Pipe Run - WL 9.2
 Total Depth 5164' Chlorides 8,000 ppm System LCM 2#

Blow Description 27-Strong Blow; BOB(11") in 45 seconds
2SD - No Return
77-Strong Blow; BOB instantaneously; 275 in 45 min; Too small to gauge
7SD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>93'</u>	<u>21M</u>	<u>5</u>		<u>95</u>	
<u>63'</u>	<u>1150CM w/oil specks</u>	<u>7</u>	<u>1</u>	<u>92</u>	
<u>63'</u>	<u>1150WCM</u>	<u>12</u>	<u>1</u>	<u>85</u>	
	<u>1323' GDP</u>	<u>100</u>			

Rec Total 219' BHT 122° Gravity - API RW - @ - °F Chlorides - ppm

- (A) Initial Hydrostatic 2648
- (B) First Initial Flow 33
- (C) First Final Flow 64
- (D) Initial Shut-In 1389
- (E) Second Initial Flow 63
- (F) Second Final Flow 99
- (G) Final Shut-In 1417
- (H) Final Hydrostatic 2547

- Test 1250
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby X8 7hrs 560
- Mileage 260 RT 140rt 105

T-On Location 15:00
 T-Started 21:46
 T-Open 03:19 01/27/2018
 T-Pulled 07:34
 T-Out 09:53
 Comments _____

Initial Open 45
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

- Sampler
- Straddle
- Shale Packer 250
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2490

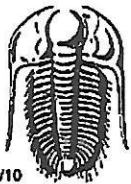
Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 2490
 MP/DST Disc't _____

Approved By _____

Our Representative Spencer J. Staal Thanks!

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63353

Well Name & No. Hackney 1-15 Test No. 2 Date 01/27/18
 Company Everglow Energy LLC Elevation 2110 KB 2105 GL
 Address 6908 NW 112th St Oklahoma City, OK 73162
 Co. Rep / Geo. Tom Castelli Rig WW 2
 Location: Sec. 15 Twp 32S Rge. 17W Co. Comanche State KS

Interval Tested 5169 - 5186 Zone Tested Mississippi
 Anchor Length 17 Drill Pipe Run 5051 Mud Wt. 9.5
 Top Packer Depth 5164 Drill Collars Run 118 Vis 58
 Bottom Packer Depth 5169 Wt. Pipe Run 0 WL 10.8
 Total Depth 5186 Chlorides 12000 ppm System LCM 2

Blow Description IF: Weak Blow, Built to 2 1/2 inches
ISI: NO Blow Back
FF: Weak Surface Blow
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>50CM</u>	<u>2</u>		<u>98</u>	
<u>59</u>	<u>MCW</u>		<u>100</u>	<u>90</u>	
<u>59</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	

Rec Total 120 BHT 124 Gravity N/C API RW .21 @ 35 °F Chlorides 74000 ppm

(A) Initial Hydrostatic 2636 Test 1250 T-On Location 18:45
 (B) First Initial Flow 19 Jars 250 T-Started 19:49
 (C) First Final Flow 50 Safety Joint 75 T-Open 22:30
 (D) Initial Shut-In 1469 Circ Sub _____ T-Pulled 01:08
 (E) Second Initial Flow 55 Hourly Standby _____ T-Out 04:15
 (F) Second Final Flow 75 Mileage (140) 105 Comments _____
 (G) Final Shut-In 1446 Sampler _____
 (H) Final Hydrostatic 2560 Straddle _____
 Ruined Shale Packer _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 45 Day Standby _____
 Accessibility _____
 Sub Total 1680

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

BASIC

energy services, L.P.

Time 55

TREATMENT REPORT

Customer Everglow Energy, LLC	Lease No.	Date 1/29/2018
Lease Heckney	Well # 1-15	
Field Order # 16075	Station Pratt, KS	Casing 4 1/2
		Depth 5297
Type Job 242/4 1/2 LongString	Formation TD-5300	County Comanche
		State KS
		Legal Description 15-32-17W

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
4 1/2				Pre Pad	Max		5 Min.
Depth 5297	Depth	From	To	Pad	Min		10 Min.
Volume 82	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Plug Depth 3252	Packer Depth	From	To	Flush Water	Gas Volume		Total Load

Customer Representative Pick Popp	Station Manager Justin Westerman	Treater Darin Franklin
Service Units 92911 84981 19843 70959 19862		
Driver Names Darin Ed Ed Jose Jose		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:45pm					ON Location / Safety meeting
					25SK 60/40 Poz, 2% Gel
					13 pps, 1.64 v.12, 8.56 water
					150SK AA2 Cement, 5% Gypsum, 0.25 pps
					Cellofiske, 0.3% friction reducer, 10% Sgrt
					0.3% Fluid loss, 5 pps Gilsomite
					15.0 pps, 1.42 v.12, 6.03 water
4:30pm	200		20	5 1/2	Pump 20 bbls KCL water
	200		12	5 1/2	Pump 12 bbls mud Flush
	300		7	5 1/2	mix 25 SK sevenser cement 7-
	300		38	5 1/2	mix 150sk AA2 cement
					Shut down
					Wash pump & line & Release Plug
5:00pm	100		0	5 1/2	Start displacement
	300		51	5 1/2	hit pressure
	600		71	3	Slow rate
5:18pm	1800		80	3	Bump Plug
					Flow - Held
	100		7	3	Plug Ret hole
	100		5	3	Plug mouse hole
5:30pm					Job Complete / Darin & crew

Customer EVERGLOW ENERGY	Lease No.	Date 1-15-2018
Lease HACKNEY	Well # 1-15	
Field Order # 10261	Station PRATT, Ks.	Casing 20" Depth
Type Job 20" CONDUCTOR PIPE	Formation	County COMANCHE State Ks
		Legal Description 15-325-17W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size' 20	Tubing Size	Shots/Ft	CMT	Acid 3255K 60/40 P22	RATE	PRESS	ISIP	
Depth 80'	Depth	From	To	Pre Pad @ 1.21 CU FT³	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection VALVE	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 100'	Packer Depth	From	To	Flush 21.4 BBL	Gas Volume		Total Load	

Customer Representative RICK POPP	Station Manager J. WESTERMAN	Treater K. LESLEY
Service Units 86531	19843	70959
Driver Names LESLEY	FRANKLIN	MARQUEZ

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
5:00 PM					ON LOCATION - SAFETY MEETING
5:30 PM					RUN 2 JTS 20" C.P.
7:00 PM					CSG. ON BOTTOM.
7:20 PM					HOOK UP TO CSG.
7:29 PM	75		0	4	MIX CMT.
7:40 PM	75		70	4	GOOD CMT. TO SURFACE
7:53 PM	0		0	4	START DISPLACEMENT
7:57 PM	75		15	3	SLOW RATE
8:00 PM	100		21.4	3	CMT. @ DESIRED DEPTH.
					LEFT 20' IN CSG.
					CIRC. THRU JOB
					CIRC. 21 BBL TO 20 VAC. TRUCK
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY



Scale 1:240 (5"=100') Imperial

Well Name:	Everglow Energy, LLC.	Hackney 1-15
Location:	Section 15- T-32S-R17W	Comanche Co., Kansas
Licence Number:	35495	Region: NE Coldwater
Spud Date:	1/15/2018	Drilling Completed: 1/28/2018
Surface Coordinates:	1,980' FNL & 660' FWL	
	Section 15-T32S-R17W in Comanche Co., Kansas	
Bottom Hole	As above	
Coordinates:		
Ground Elevation (ft):	2,105'	K.B. Elevation (ft): 2,110'
Logged Interval (ft):	4,000' To: TD	Total Depth (ft): 5,300'
Formation:	Pennsylvanian/Mississippian	
Type of Drilling Fluid:	Chemical	

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Everglow Energy, LLC.
Address: 6908 NW 112th St.
Oklahoma City, Oklahoma 73162

GEOLOGIST

Name: Tom Castelli
Company: Everglow Energy, LLC
Address: 6908 NW 112th St.
Oklahoma City, Oklahoma 73162

DSTs

DST #1: 5,128'-5,165': 45:60:60:90. IH: 2648.9, IF: 33.03-64.16, ISI: 1,389, FF:63.91-99.51, FSI 1417.66, FH: 2,547.87. Comments: IF: Strong blow BOB in 45 sec, ISI: No return, FF: Strong blow, BOB immediately, GTS in 45 min, TSTM, FSI: No return. Recovery 93' Gas cut mud, 63' Gas cut mud w/ tr oil, 63' Gas and water cut mud, 1,323' Gas in pipe.

DST #2. 5,170'-5,187': 30:45:30:45 IH: 2635.91, IF: 18.70-49.76, ISI: 1469.04, FF: 54.97-74.59, FSI: 1445.72, FH: 123.81. Comments: IF: Weak blow, Built to 2.5in. ISI: No blow back. FF: Weak surface blow. FSI: No blow back. Recovery: 59' Mud cut water, 59' Water cut mud, 2' Slightly oil cut mud

Comments

Drilling Contractor: WW Drilling Company, Rig #2


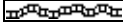
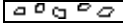













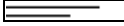







Logging Unit: GeoDynamic #18

Logging Engineer: Dan Pittman





































































Mobile: (580) 216-5744

Instruments calibrated 1/19/2018 where 1% methane equals 100 units of total gas.
























ROCK TYPES

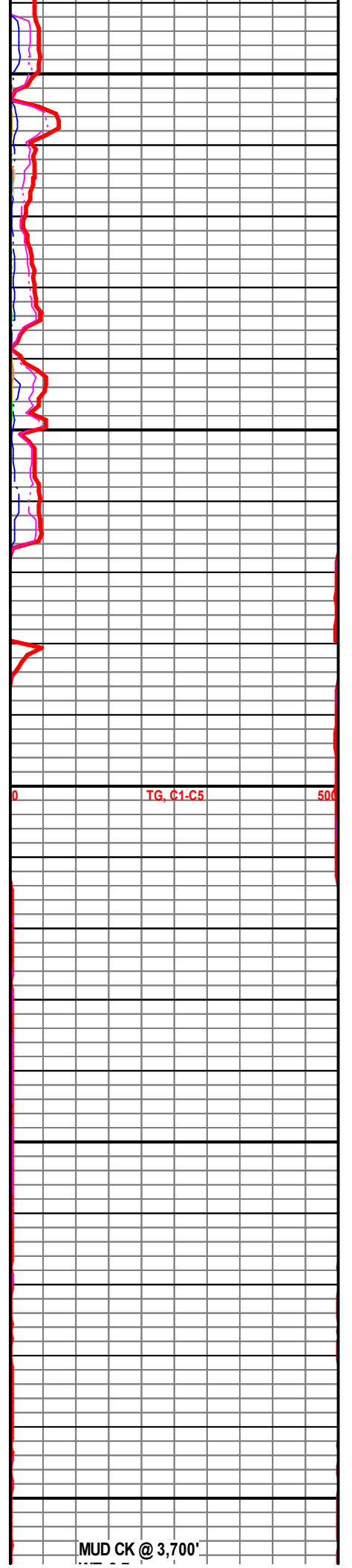
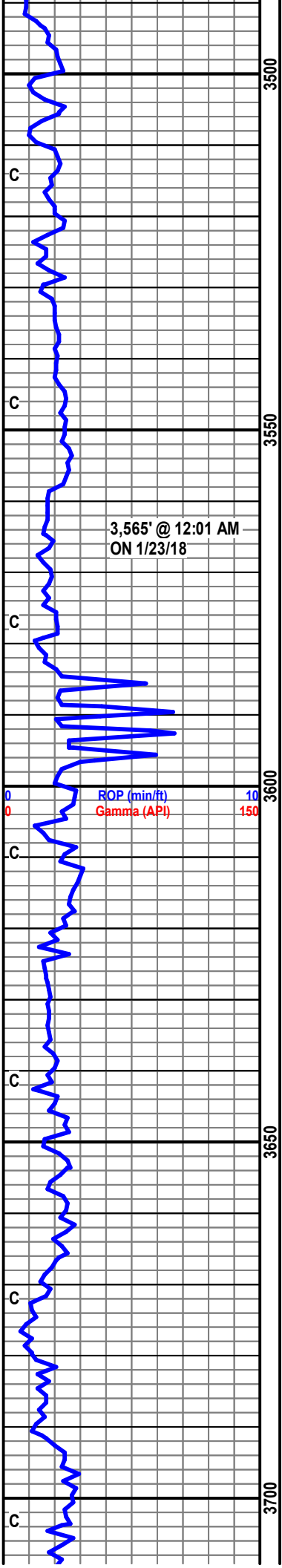
 Anhy  Bent  Brec  Cht  Clyst	 Coal  Congl  Dol  Gyp  Igne	 Lmst  Meta  Mrlst  Salt  Shale	 Shcol  Shgy  Sltst  Ss  Till	 sdv sh  calc sh  shale  carb sh
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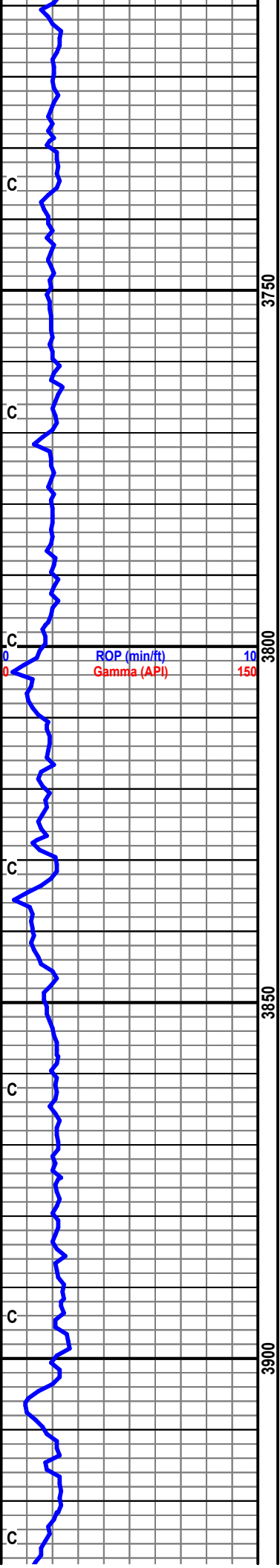
ACCESSORIES

MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Feldspar  Ferrpel  Ferr  Glau	 Gyp  Hvymin  Kaol  Marl  Minxl  Nodule  Phos  Pyr  Salt  Sandy  Silt  Sil  Sulphur  Tuff	FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite	 Ostra  Pelec  Pellet  Pisolite  Plant  Strom STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst	 Sltstrg  Ssstrg TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

POROSITY TYPE  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint	 Vuggy SORTING  Well  Moderate  Poor	ROUNDING  Rounded  Subrnd  Subang  Angular OIL SHOWS  Even	 Spotted  Ques  Dead INTERVALS  Core  Dst	EVENTS  Rft  Sidewall
--	---	---	--	--





3750

3800

3850

3900

c

c

c

c

c

c

c

ROP (min/ft)
Gamma (API)

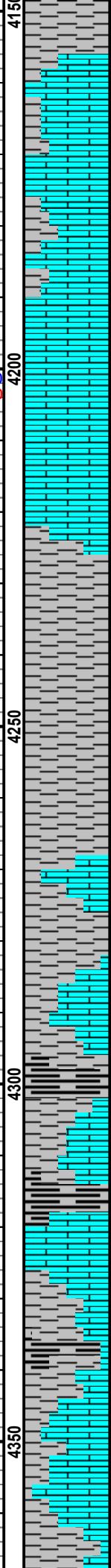
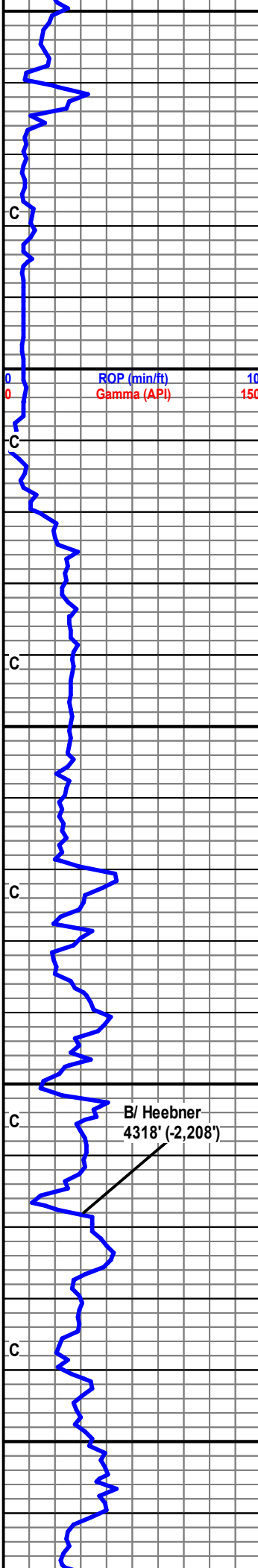
10
150

WT. 8.7
V. 60
PV 12
YP 26
Gels 12/27
pH 10.5
Ck 1
Cl 5,000
Ca 40
Slids 2.9%
LCM 2.5#

0

TG, C1-C5

500



LS- WHT-OFF WHT, V/F-MICRO-XLN, CHLKY-S/CHLKY, SM SLI ARGL I.P., W/ PR INTR-XLN POR, NO VIS CUT OR STN, NO ODOR

LS- WHT-OFF WHT, V/F-MICRO XLN, CHLKY, SM MOD FRM I.P., FOSS, W/ GD INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

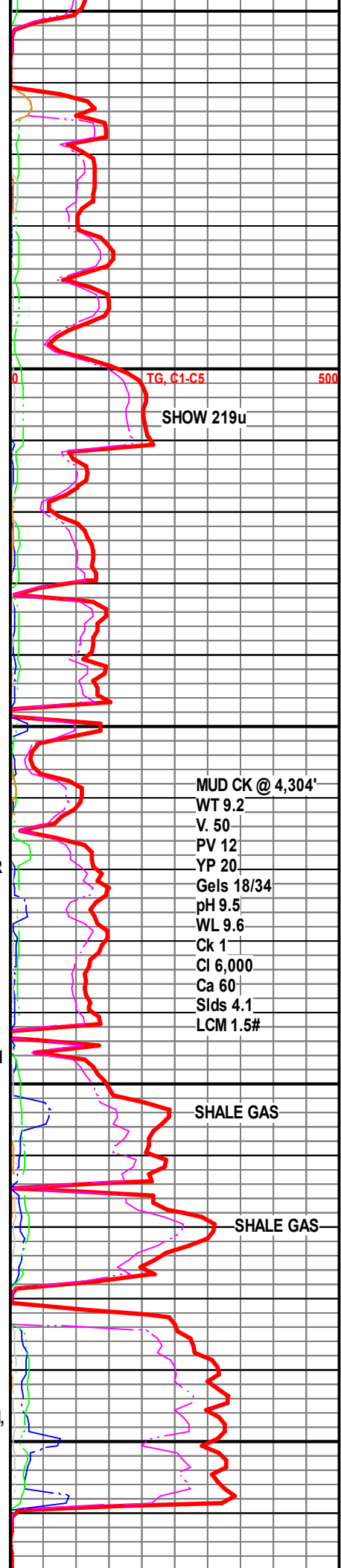
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LS- OFF WHT-CRM, V/F-F XLN, MOD FRM, SM SLI ARGL I.P., W/ TR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

SH- DK GY-BLK, V/F TXT, BLKY, SM SLI CALC I.P., CARB

SH- AAB

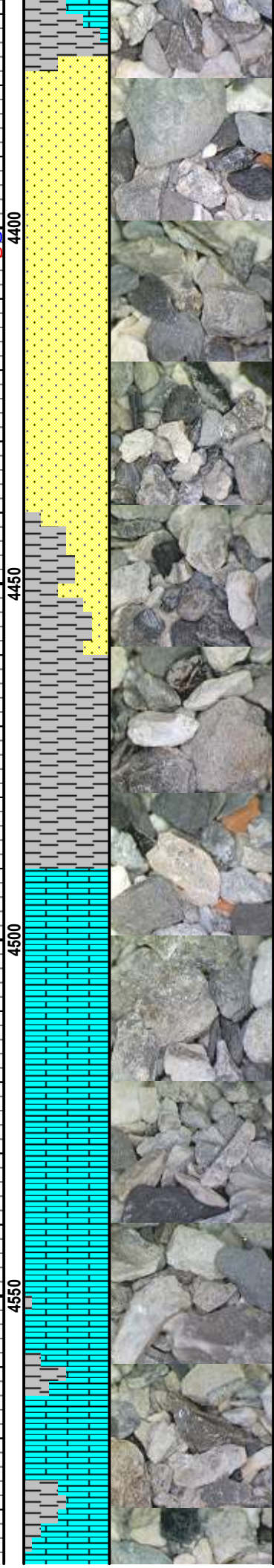
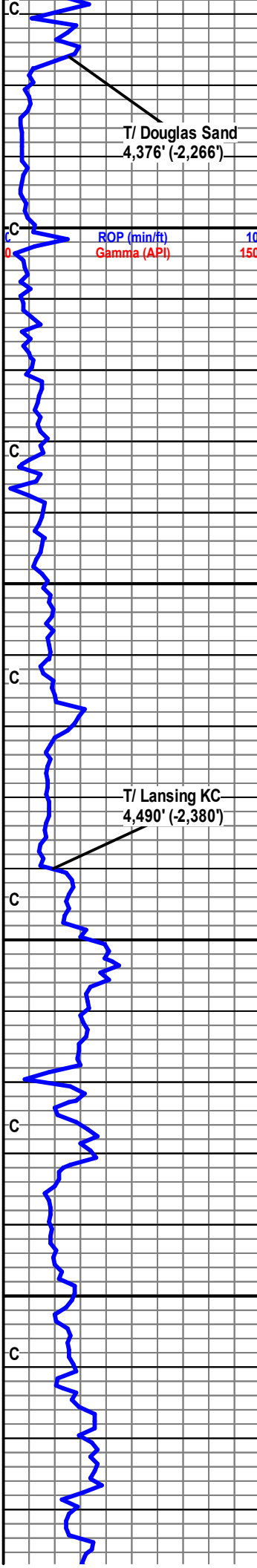
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MUD CK @ 4,304'
 WT 9.2
 V. 50
 PV 12
 YP 20
 Gels 18/34
 pH 9.5
 WL 9.6
 Ck 1
 Cl 6,000
 Ca 60
 Slids 4.1
 LCM 1.5#

SHALE GAS

SHALE GAS



SS- OFF WHT-LT GY, V/F-FG,
CONSD, S/RND, SM SLI SLTY I.P.,
W/ FR INTR-GRAN POR, NO VIS
FLU, NO VIS CUT OR STN, NO
ODOR

SS- OFF WHT-LT GY, V/F-FG,
CONSD, S/RND, SLI SLTY I.P., SM
SLI ARGL, W/ FR INTR-GRAN POR,
NO VIS FLU, NO VIS CUT OR STN,
NO ODOR

SH- MED GY, V/F TXT, MOD FRM,
SM SLI PYR'IC I.P., SM SLI SNDY
I.P., FNLY MICA

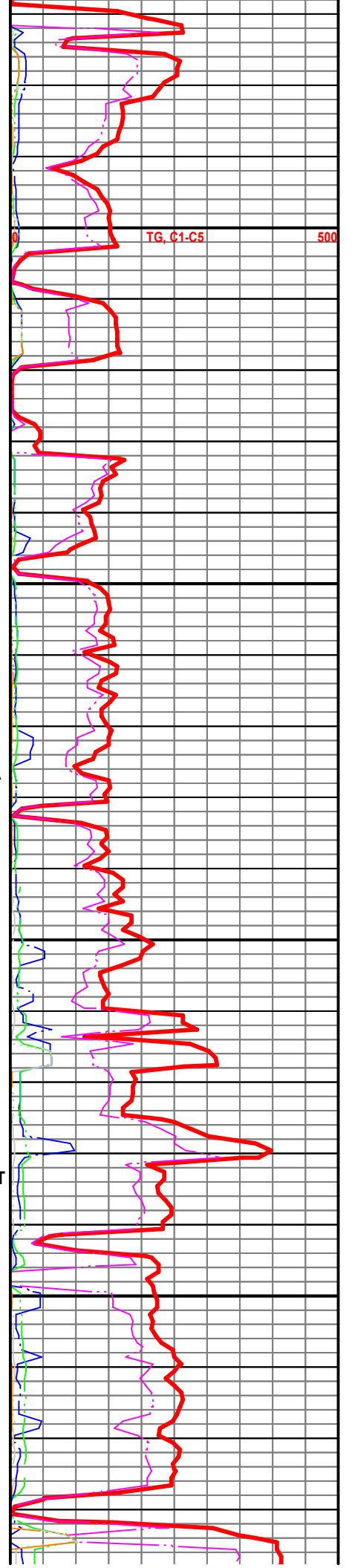
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FRM, SLI PYR'IC I.P., V/ FNLY MICA

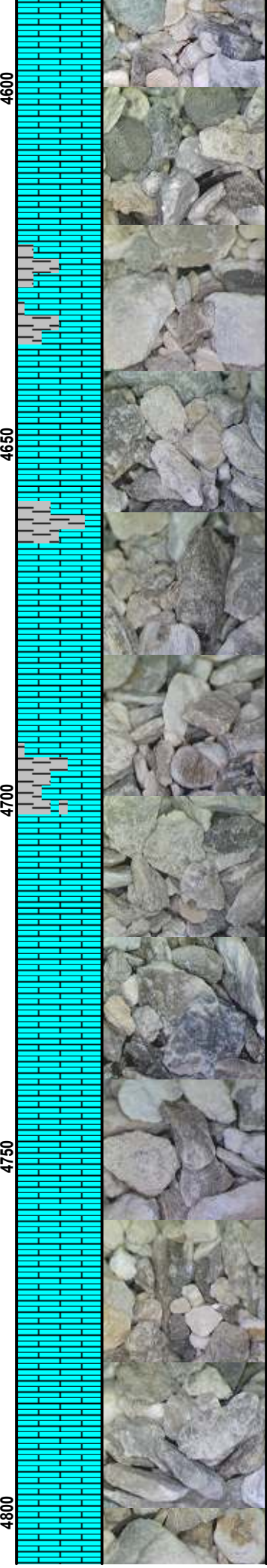
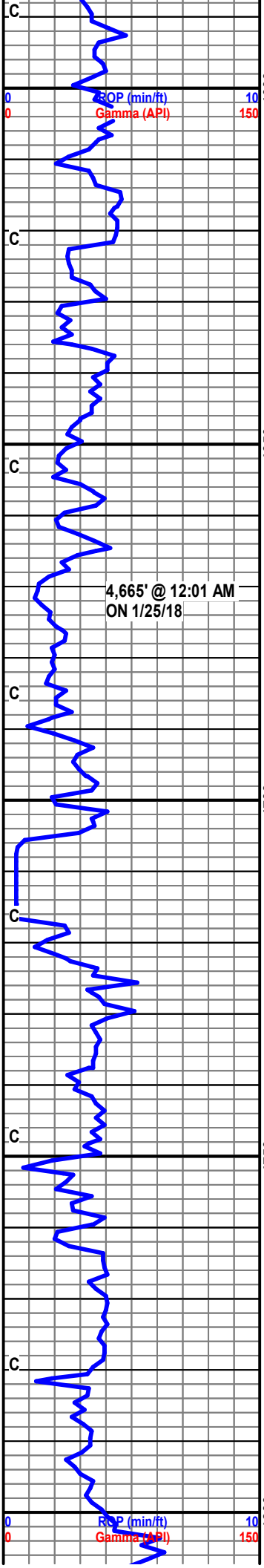
LS- OFF WHT-CRM, V/F XLN, MOD
FRM, SLI ARGL I.P., PR INTR-XLN
OR, NO VIS FLU, NO VIS CUT OR
STN, NO ODOR

LS- OFF WHT-CRM-TN, V/F-F XLN,
MOD FRM, SLI ARGL I.P., SM SLI
FOSS, W/ TR-PR INTR-XLN POR,
W/ DULL YEL MIN FLU, NO VIS CUT
OR STN, NO ODOR

LS- OFF WHT-CRM-TN, V/F XLN,
MOD FRM-FRM, SM SLI SRGL I.P.,
W/ PR INTR-XLN POR, W SCTTRD
DULL YEL MIN FLU, NO VIS CUT
OR STN, NO ODOR

LS- OFF WHT-CRM,
V/F MICRO XLN, MOD FRM-FRM





V/F-MICRO-XLN, MOD FRM-FRM, SLI ARGL I.P., SM SLI FOSS, W/ TR CRINS, W/ SCTTRD DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

LS- CRM-TN, V/F-MICRO-XLN, MOD FRM-FRM, SM SLI ARGL, TR FOSS, W/ PR INTR-CLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

LS- OFF WHT-CRM-TN, V/F-F XLN, MOD FRM-FRM, SM SLI ARGL I.P., SLI FOSS W/ TR CRINS, W/ TR-PR INTR-XLN, POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

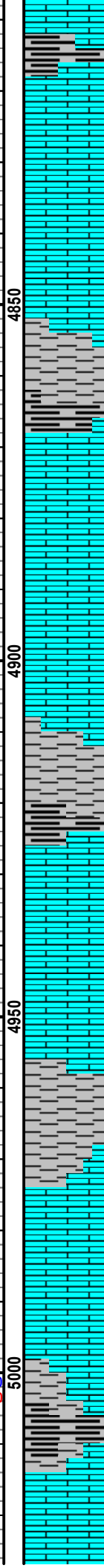
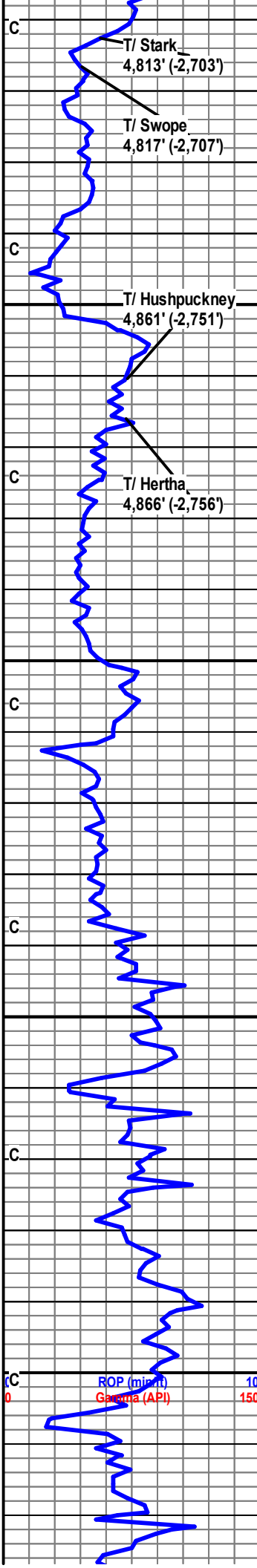
LS- AAB

LS- WHT-OFF WHT-CRM, V/F-MICRO-XLN, PRED CHLKY, SM MOD FRM, W/ PR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

LS- OFF WHT-CRM-TN, V/F XLN, MOD FRM, SM SLI FOSS, W/ TR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

LS- OFF WHT-CRM, V/F XLN, MOD FRM, SLI ARGL I.P., SM SLI GLAUC'IC I.P., W/ TR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR





SH- DK GY-BLK, V/F TXT, MOD FRM, SPLNTY, SLI CALC, CARB

LS- WHT-OFF WHT, V/F-MICRO-XLN, S/CHLKY-MOD FRM, SM SLI FOSS, W/ TR INTR-XLN POR, W/ DULL YEL MIN FLU, W/ GD BUBBLNG CUT, NO ODOR

SH- DK GY-BLK, V/F X TXT, MOD FRM, CALC, SPLNTY, CARB

LS- OFF WHT-CRM, V/F XLN, MOD FRM-FRM, SM SLI FOSS I.P., W/ TR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

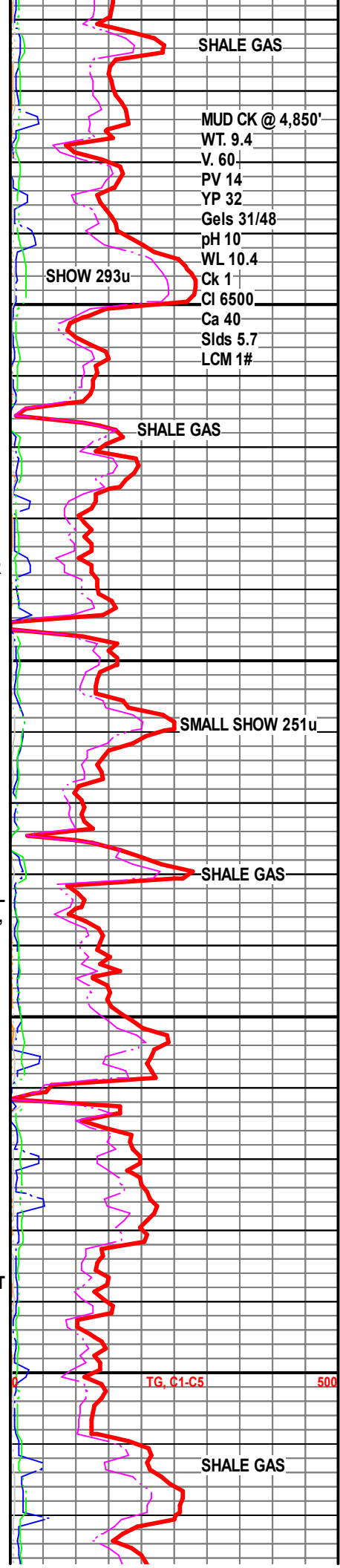
SH- DK GY-BLK, V/F TXT,PLTY-SPLNTY, SM SLI CALC I.P., FNLY MICA

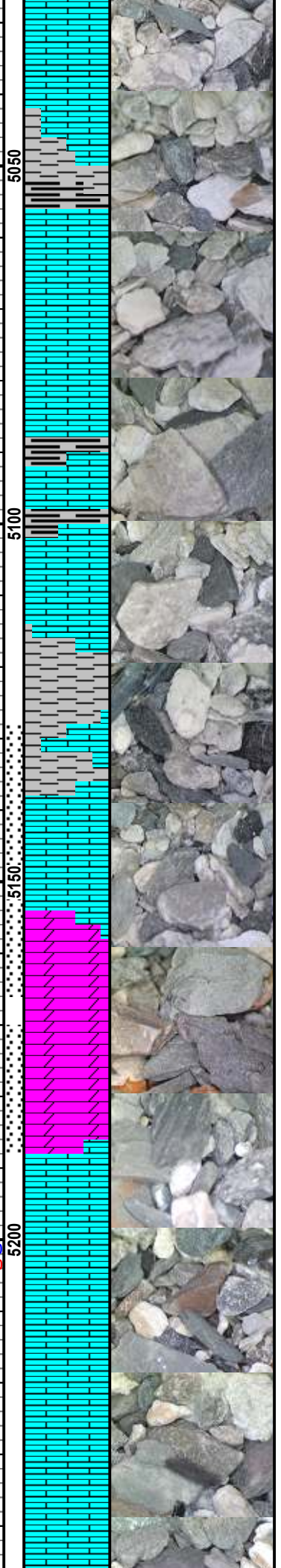
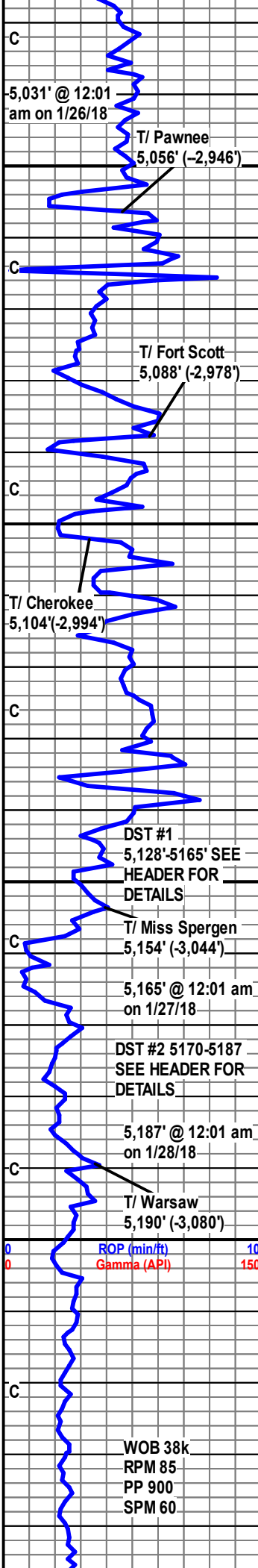
LS- OFF WHT-CRM, V/F XLN, MOD FRM, SMS LI FOSS, SM SLI FRACD'D W/ TR RE-XLN, , W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

SH- MED GY-DK GY, V/F-F TXT, MOD FRM, CALC , SM SLI PPYR'IC I.P., FNLY MICA,

LS- OFF WHT-CRM, V/F XLN, MOD FRM-FRM, SM SLI ARGL I.P., SM SLI FOSS, W/ TR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

SH- DK GY-BLK, F TXT, MOD FRM, BLKY, SM SLI CALC, SM SLI FOSS, W/ TR CRINS, SLI CARB I.P.





LS- OFF WHT-CRM, VF/ XLN, MOD FRM-FRM, SM HD, PRED DNS, BRITL, W/ PR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

LS- OFF WHT-CRM, VF/ XLN, MOD FRM, SM SLI ARGL I.P., W/ TR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

SH- MED GY-DK GY-BLK, V/F TXT, MOD FRM, SPLNTY, SM SLI CALC I.P., FNLY MIOCA, SLI CARB

SH- MED GY-DK GY, V/F-F TTX, MOD FRM-FRM, PLTY, SM SLI CALC, FNLY MICA, W/ ABDT OFF WHT-CRM-TN, V/F XLN, MOD FRM, SLI ARGL LS, W/ TR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR

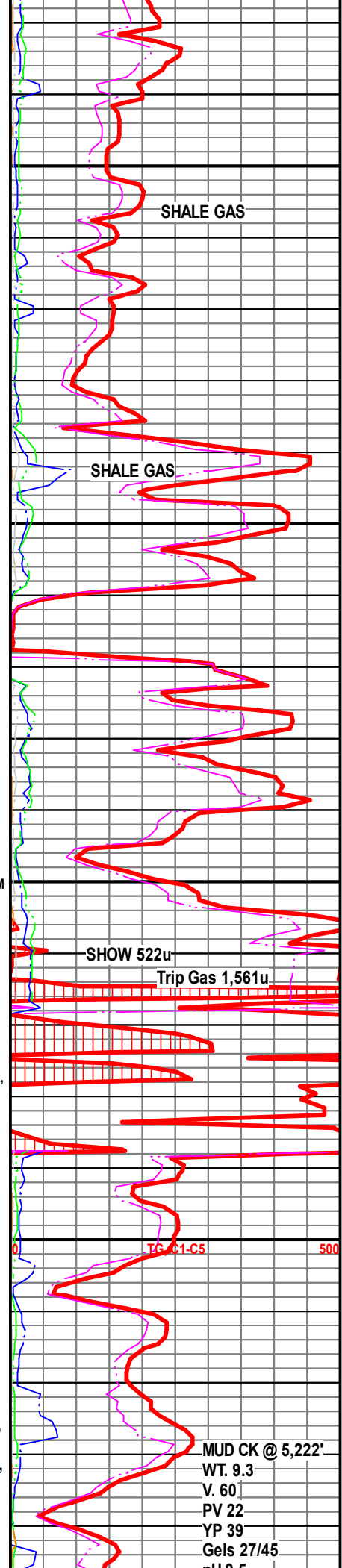
DOLO- WHT-OFF WHT, F XLN, MOD FRM, SM SLI ARGL I.P., SUC TXT, GD INTR-XLN POR, W/ BRT WHT FLU, W/ GD STRMNG CUT, RESID GRN RING CUT, FNT OIL ODOR, NO VIS STN

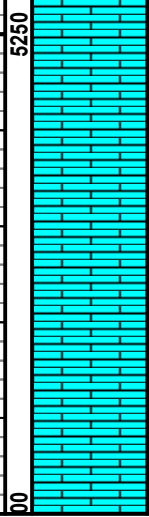
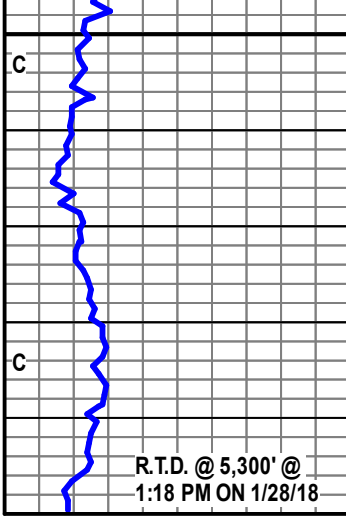
DOLO- OFF WHT-CRM-BUFF, VF/ XLN, MOD FRM, V/ SUC TXT, SM SLI ARGL I.P., W/ GD INTR-XLN POR, W/ BRT YEL FLU, W/ GD STRMNG CUT, SLI LOS, FNT OIL ODOR

DOLO- CRM-TN, V/F-MICRO-XLN, MOD FRM, SM SLI ARGL, SLI SUC TXT, PRED DNS, W/ TR INTR-XLN POR, W/ SPTD YEL MIN FLU, W/ SLW STREAMING CUT, NO VIS STN, NO ODOR

LS- WHT-OFF WHT, F XLN, MOD FRM-FRM, CHRTY, W/ TR INTR-XLN POR, W/ MOD BRT YEL FLU, NO VIS CUT OR STN, NO ODOR

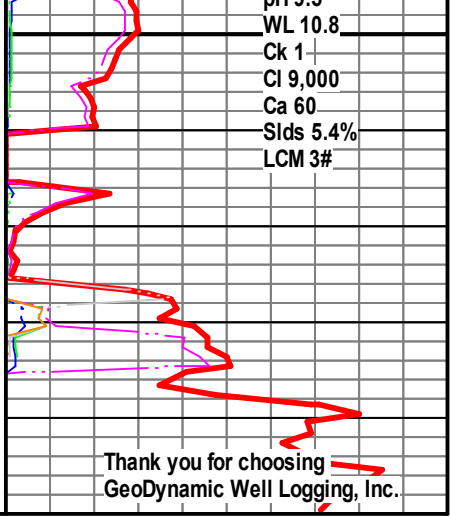
LS- OFF WHT-CRM, V/F-F XLN, MOD FRM-FRM, PRED DNS, BRITL, W/ PR INTR-XLN POR, W/ DULL YEL MIN FLU, NO VIS CUT OR STN, NO ODOR





LS- OFF WHT-CRM, V/F-F XLN,
 MOD FRM, SM SLI MOTT I.P., PRED
 DNS, BR TTL, W/ PR INTR-XLN POR,
 W/ DULL YEL MIN FLU, NO VIS CUT
 OR STN, NO ODOR

LS- OFF WHT-CRM, V/F XLN, MOD
 FRM-FRM, PRED DNS, BR TTL, W/
 PR INTR-XLN POR, W/ DULL YEL
 MIN FLU, NO VIS CUT OR STN, NO
 ODOR



ph 9.9
 WL 10.8
 Ck 1
 CI 9,000
 Ca 60
 Slds 5.4%
 LCM 3#

R.T.D. @ 5,300' @
 1:18 PM ON 1/28/18

Thank you for choosing
 GeoDynamic Well Logging, Inc.