



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1206671
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1206671

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	ALC LLC 1-33
Doc ID	1206671

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated

ALC LLC #1-33
 Daily Drilling Report
 Page Two

4/5/14 RTD: 4815'. CT: 19hrs. Dev.: 2¼° @ 4815'. Pioneer logged 8:45AM – 2:00PM 4/4. LTD: 4815'. Allied plugged 7:30PM to 10:00PM 4/4, w/60/40Poz, 4%Gel, ¼#Flo seal, 25sxs @ 2635', 100sxs @ 1580', 40sxs @ 275', 10sxs @ 40', 30sxs Rh, 15sxs MH. RR @ 2:00AM 4/5/14 FINAL REPORT

ALC LLC #1-33 2302' FNL 2610' FWL Sec. 33-T12S-R33W 3140' KB							Ahrens #2 1320' FNL 1320' FWL Sec. 33-T12S-R33W 3138' KB	
Formation	SampleTops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2620	+520	-12	2619	+521	-11	2606	+532
B/Anhydrite	2642	+498	-11	2642	+498	-11	2629	+509
Topeka	3822	-682	-1	3823	-683	-2	3819	-681
Heebner	4046	-906	+2	4047	-907	+1	4046	-908
Lansing				4092	-952	+2	4092	-954
Stark	4324	-1184	+6	4324	-1184	+6	4328	-1190
Marmaton	4451	-1311	+6	4448	-1308	+9	4455	-1317
Pawnee	4522	-1382	+12	4525	-1385	+9	4532	-1394
Johnson	4649	-1509	+14	4650	-1510	+13	4661	-1523
Mississippi	4726	-1586	+24	4727	-1587	+23	4748	-1610
RTD	4815						4775	
LTD				4815			4776	



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

*acct.
Prod-LH*

Invoice Number: 142235
Invoice Date: Mar 28, 2014
Page: 1

Bill To:
Murfin Drig. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	62080	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 28, 2014	4/27/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	ALC LLC #1-33		
185.00	CEMENT MATERIALS	Class A Common	17.90	3,311.50
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
194.25	CEMENT SERVICE	Cubic Feet Charge	2.48	481.74
179.20	CEMENT SERVICE	Ton Mileage Charge	2.60	465.92
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	OPERATOR ASSISTANT	Adam Flipse		

Subtotal	6,736.41
Sales Tax	287.60
Total Invoice Amount	7,024.01
Payment/Credit Applied	
TOTAL	7,024.01

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2,357.74 *ok 3/26*

ONLY IF PAID ON OR BEFORE
Apr 22, 2014

over
2357.74
4666.27



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

*acct
Prod-MG'*

INVOICE

Invoice Number: 142374
Invoice Date: Apr 4, 2014
Page: 1

Bill To:
Murfin Drig. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	63379	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Apr 4, 2014	5/4/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	ALC LLC #1-33		
132.00	CEMENT MATERIALS	Class A Common	17.90	2,362.80
88.00	CEMENT MATERIALS	Pozmix	9.35	822.80
8.00	CEMENT MATERIALS	Gel	23.40	187.20
55.00	CEMENT MATERIALS	Flo Seal	2.97	163.35
236.27	CEMENT SERVICE	Cubic Feet Charge	2.48	585.95
197.40	CEMENT SERVICE	Ton Mileage Charge	2.60	513.24
1.00	CEMENT SERVICE	Rotary Plug	2,483.59	2,483.59
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	110.00	110.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		

Subtotal	7,470.93
Sales Tax	571.53
Total Invoice Amount	8,042.46
Payment/Credit Applied	
TOTAL	8,042.46

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2,576.32 ✓

ONLY IF PAID ON OR BEFORE

Apr 29, 2014

*OK
JR*

*- 2576.32
5466.14*



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilg Co Inc**

250 N Water Ste 300
Wichita,KS 67202

ATTN: Tom Funk

ALC LLC #1-33

33-12s-33w Logan,KS

Start Date: 2014.04.02 @ 12:15:47

End Date: 2014.04.02 @ 19:50:02

Job Ticket #: 56330 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.10 @ 08:34:28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilg Co Inc
 250 N Water Ste 300
 Wichita,KS 67202
 ATTN: Tom Funk

33-12s-33w Logan,KS

ALC LLC #1-33

Job Ticket: 56330

DST#: 1

Test Start: 2014.04.02 @ 12:15:47

GENERAL INFORMATION:

Formation: **Altamont - Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:27:02

Time Test Ended: 19:50:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 4474.00 ft (KB) To 4590.00 ft (KB) (TVD)

Total Depth: 4590.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3140.00 ft (KB)

3130.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6771

Inside

Press@RunDepth: 48.93 psig @ 4475.00 ft (KB)

Start Date: 2014.04.02

End Date:

2014.04.02

Start Time: 12:15:47

End Time:

19:39:02

Capacity: 8000.00 psig

Last Calib.: 2014.04.02

Time On Btm: 2014.04.02 @ 14:26:32

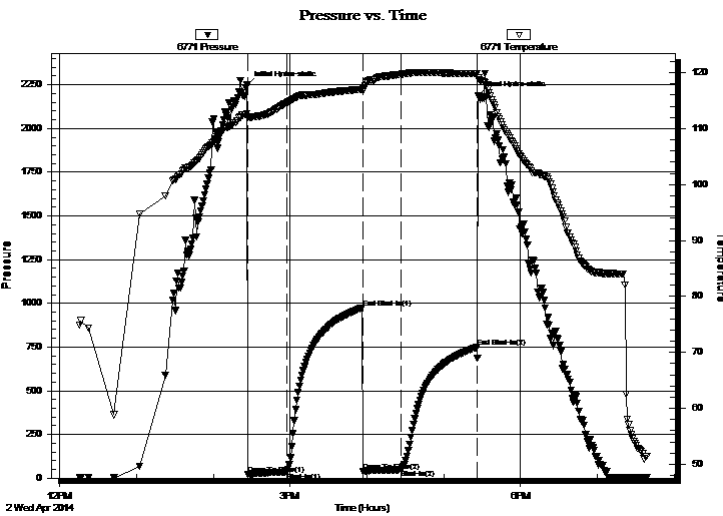
Time Off Btm: 2014.04.02 @ 17:27:02

TEST COMMENT: 1" blow died back to a surface blow

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.26	112.70	Initial Hydro-static
1	21.82	112.04	Open To Flow (1)
31	35.52	114.59	Shut-In(1)
90	974.96	117.01	End Shut-In(1)
91	39.54	116.71	Open To Flow (2)
120	48.93	119.69	Shut-In(2)
180	749.60	119.78	End Shut-In(2)
181	2185.83	119.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud 100% m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilg Co Inc
250 N Water Ste 300
Wichita,KS 67202
ATTN: Tom Funk

33-12s-33w Logan,KS
ALC LLC #1-33
Job Ticket: 56330 **DST#: 1**
Test Start: 2014.04.02 @ 12:15:47

Tool Information

Drill Pipe:	Length: 4230.00 ft	Diameter: 3.80 inches	Volume: 59.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 60.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4474.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	116.00 ft			
Tool Length:	136.00 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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Change Over Sub	1.00			4455.00	
Shut In Tool	5.00			4460.00	
Hydraulic tool	5.00			4465.00	
Packer	5.00			4470.00	20.00 Bottom Of Top Packer
Packer	4.00			4474.00	
Stubb	1.00			4475.00	
Recorder	0.00	6771	Inside	4475.00	
Recorder	0.00	8844	Outside	4475.00	
Anchor	14.00			4489.00	
Change Over Sub	1.00			4490.00	
Drill Pipe	94.00			4584.00	
Change Over Sub	1.00			4585.00	
Bullnose	5.00			4590.00	116.00 Bottom Packers & Anchor

Total Tool Length: 136.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilg Co Inc

33-12s-33w Logan,KS

250 N Water Ste 300
Wichita,KS 67202

ALC LLC #1-33

Job Ticket: 56330

DST#: 1

ATTN: Tom Funk

Test Start: 2014.04.02 @ 12:15:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud 100%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

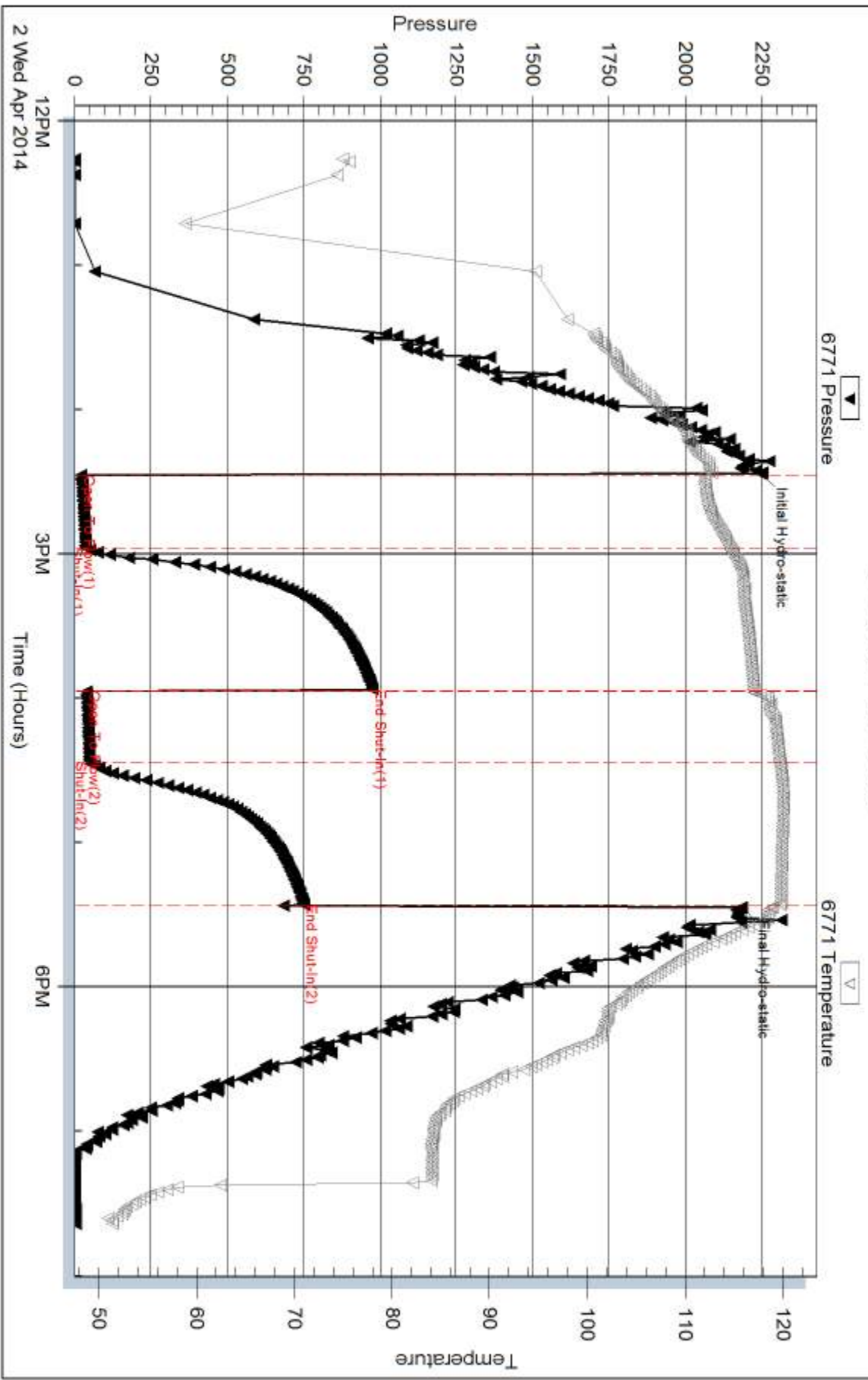
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

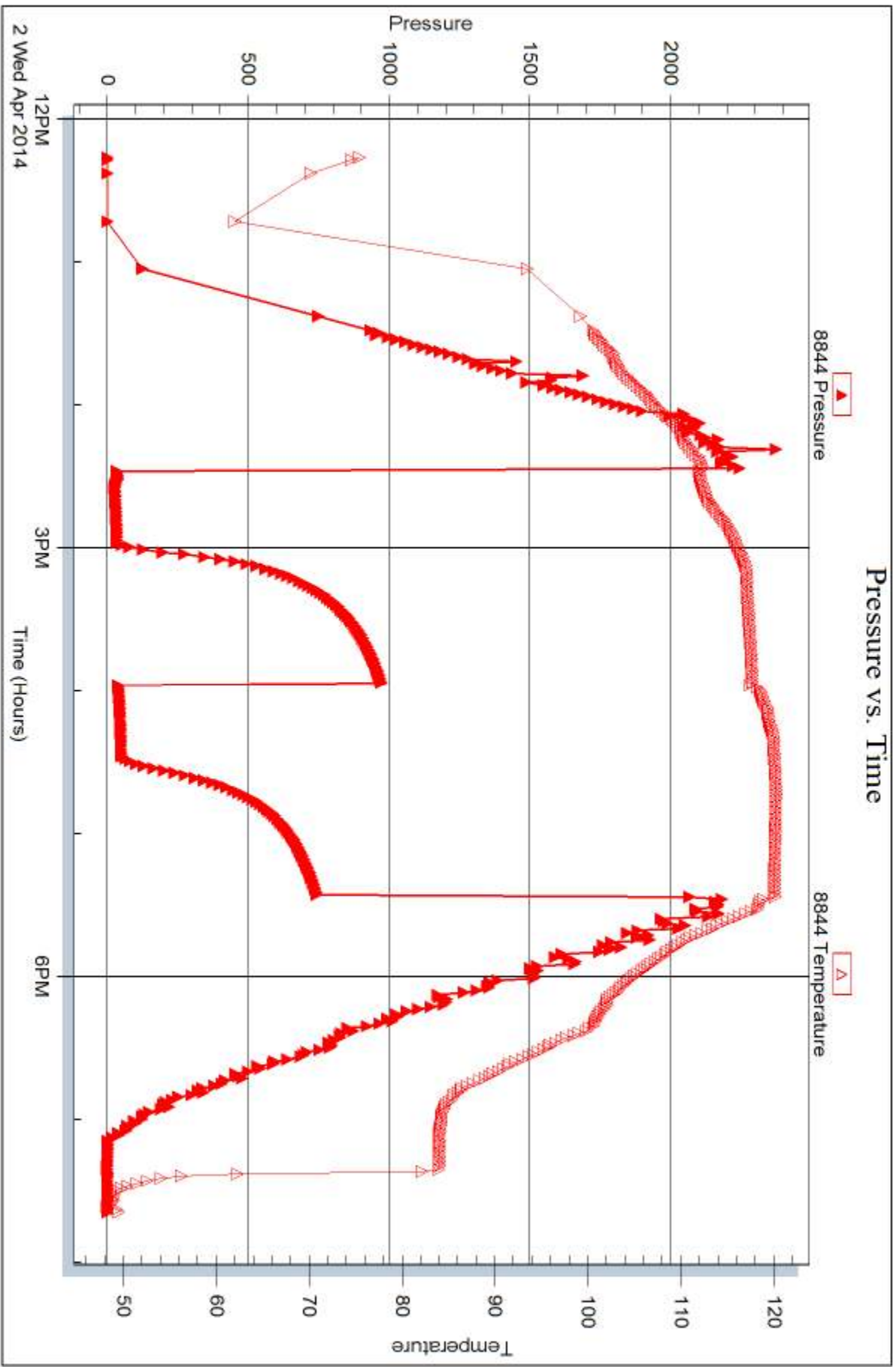


Serial #: 8844

Outside Murfin Drilling Co Inc

ALC LLC #1-33

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56330

Printed: 2014.04.10 @ 08:34:30



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilg Co Inc**

250 N Water Ste 300
Wichita,KS 67202

ATTN: Tom Funk

ALC LLC #1-33

33-12s-33w Logan,KS

Start Date: 2014.04.03 @ 08:15:46

End Date: 2014.04.03 @ 17:10:46

Job Ticket #: 56331 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.10 @ 08:33:56

Murfin Drilg Co Inc
33-12s-33w Logan,KS
ALC LLC #1-33
DST # 2
Johnson
2014.04.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilg Co Inc
250 N Water Ste 300
Wichita, KS 67202
ATTN: Tom Funk

33-12s-33w Logan, KS

ALC LLC #1-33

Job Ticket: 56331

DST#: 2

Test Start: 2014.04.03 @ 08:15:46

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:12:31
 Time Test Ended: 17:10:46
 Interval: **4603.00 ft (KB) To 4670.00 ft (KB) (TVD)**
 Total Depth: 4670.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3140.00 ft (KB)
 3130.00 ft (CF)
 KB to GR/CF: 10.00 ft

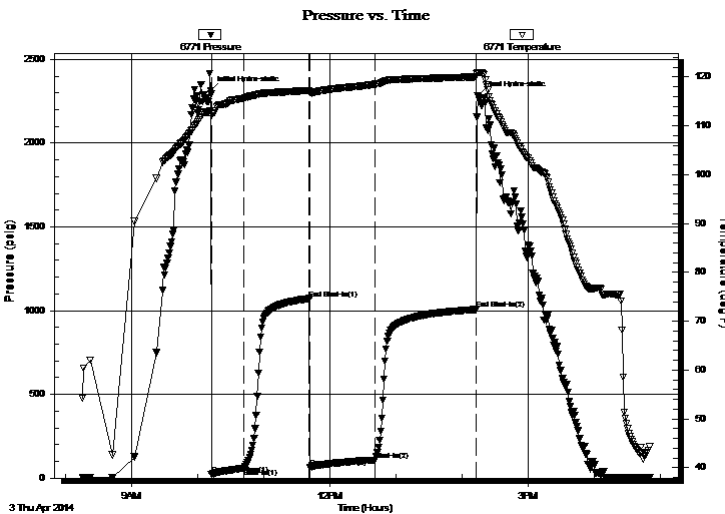
Serial #: 6771

Inside

Press@RunDepth: 107.97 psig @ 4604.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.03 End Date: 2014.04.03 Last Calib.: 2014.04.03
 Start Time: 08:15:46 End Time: 16:50:46 Time On Btm: 2014.04.03 @ 10:12:01
 Time Off Btm: 2014.04.03 @ 14:14:16

TEST COMMENT: 10" blow
 No return
 B.O.B. in 29 min.
 Weak surface return in 12 min. died in 32 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.53	113.15	Initial Hydro-static
1	22.33	112.05	Open To Flow (1)
30	59.84	115.61	Shut-In(1)
89	1071.48	117.19	End Shut-In(1)
90	62.20	116.79	Open To Flow (2)
149	107.97	118.49	Shut-In(2)
241	1006.84	120.00	End Shut-In(2)
243	2280.74	120.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	g m c o 20%g 20%m 60%o	0.89
60.00	g m c o 20%g 30%m 50%o	0.30
0.00	310'gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilg Co Inc

33-12s-33w Logan,KS

250 N Water Ste 300
Wichita,KS 67202

ALC LLC #1-33

Job Ticket: 56331

DST#: 2

ATTN: Tom Funk

Test Start: 2014.04.03 @ 08:15:46

Tool Information

Drill Pipe:	Length: 4355.00 ft	Diameter: 3.80 inches	Volume: 61.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 62.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4603.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4584.00	
Shut In Tool	5.00			4589.00	
Hydraulic tool	5.00			4594.00	
Packer	5.00			4599.00	20.00 Bottom Of Top Packer
Packer	4.00			4603.00	
Stubb	1.00			4604.00	
Recorder	0.00	6771	Inside	4604.00	
Recorder	0.00	8844	Outside	4604.00	
Anchor	27.00			4631.00	
Change Over Sub	1.00			4632.00	
Drill Pipe	32.00			4664.00	
Change Over Sub	1.00			4665.00	
Bullnose	5.00			4670.00	67.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilg Co Inc

33-12s-33w Logan,KS

250 N Water Ste 300
Wichita,KS 67202

ALC LLC #1-33

Job Ticket: 56331

DST#: 2

ATTN: Tom Funk

Test Start: 2014.04.03 @ 08:15:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
180.00	g m c o 20%g 20%m 60%o	0.885
60.00	g m c o 20%g 30%m 50%o	0.304
0.00	310'gas in pipe	0.000

Total Length: 240.00 ft Total Volume: 1.189 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

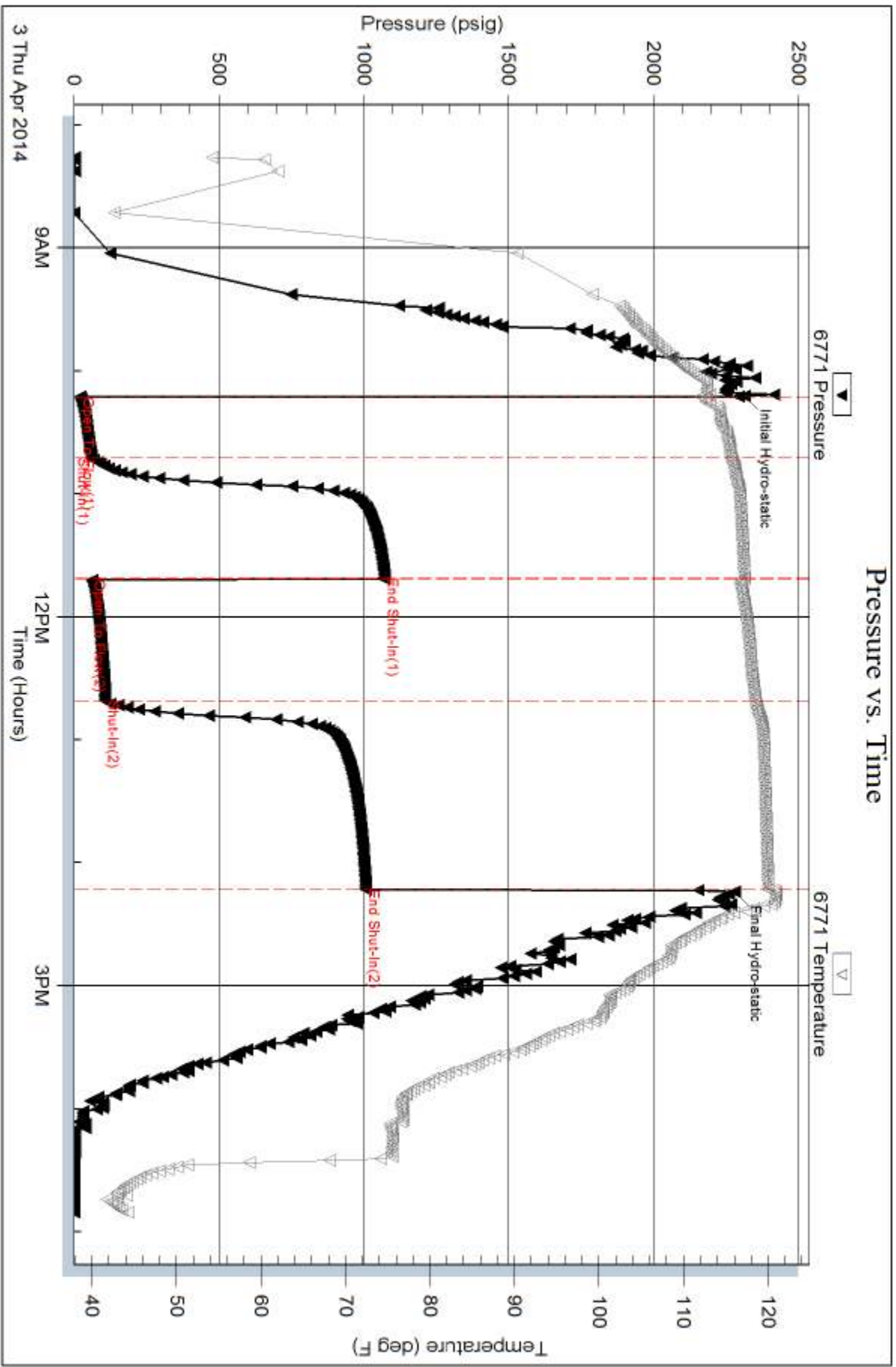
Serial #: 6771

Inside

Murfin Drilling Co Inc

ALCLLC#1-33

DST Test Number: 2

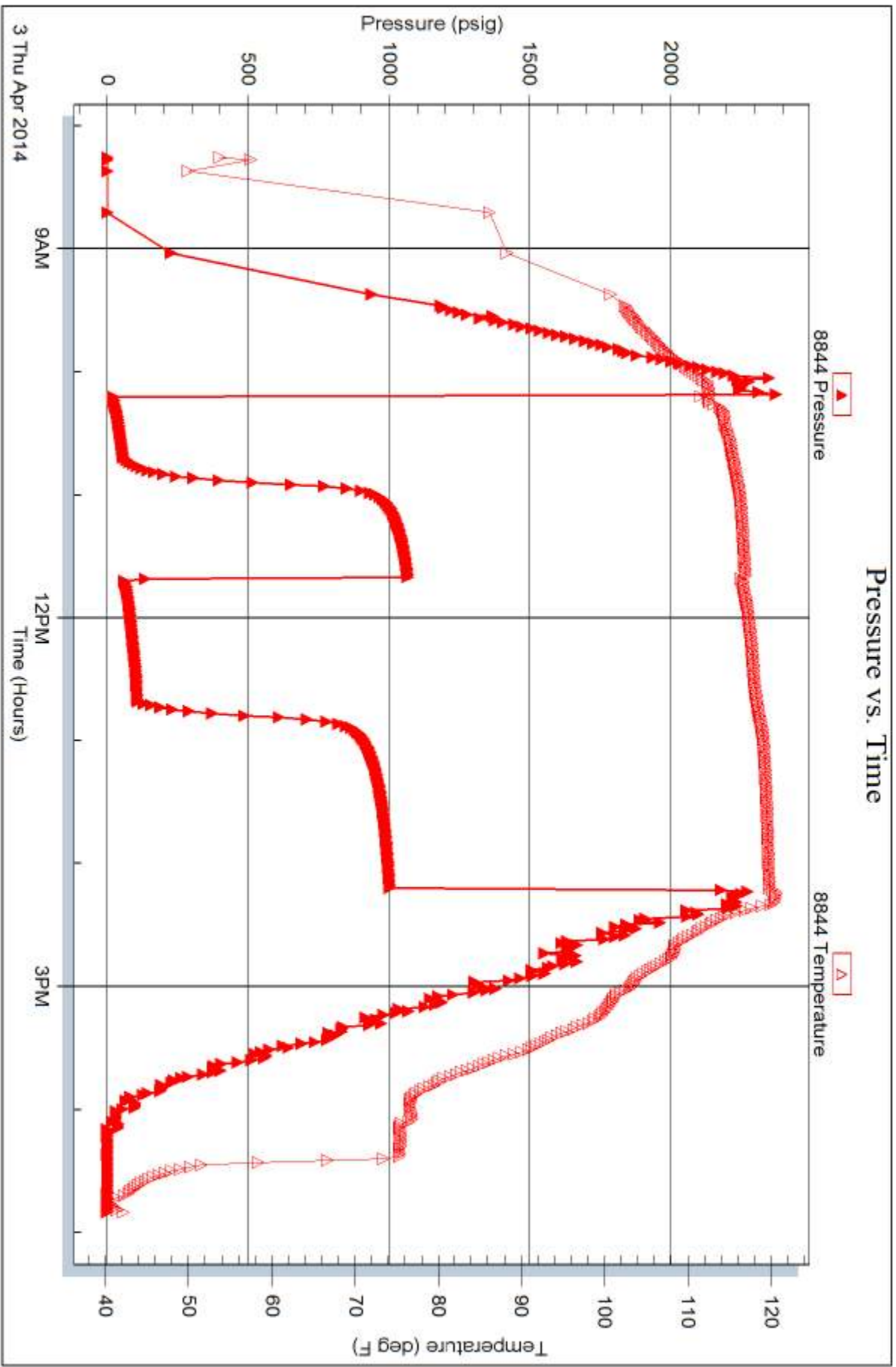


Serial #: 8844

Outside Murfin Drilling Co Inc

ALCLLC#1-33

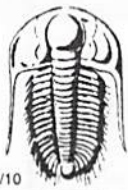
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56331

Printed: 2014.04.10 @ 08:33:58



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56330**

Well Name & No. AHC LHC #1-33 Test No. #1 Date 4/2/14
 Company Murkin Drilling Co. Inc. Elevation 3140 KB 3130 GL
 Address 250 N. Water St. 300 Wichita, Ks, 67202
 Co. Rep / Geo. Tom Funk Rig Murkin #22
 Location: Sec. 33 Twp. 12s Rge. 33w Co. _____ State Ks

Interval Tested 4474 4590 Zone Tested Altamont - Lawrence - Ft. Scott
 Anchor Length _____ Drill Pipe Run 4230' Mud Wt. 9.2
 Top Packer Depth _____ Drill Collars Run 239' Vis 69
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 414
 Total Depth 4590 Chlorides 5000 ppm System LCM #8
 Blow Description 1" in blow died back to a surface blow
No return
No blow
No return

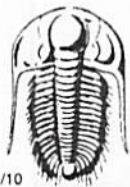
Rec	Feet of	%gas	%oil	%water	%mud
<u>60'</u>	<u>Mad</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60' BHT 120° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2247</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>11:05</u>
(B) First Initial Flow <u>21</u>	<input type="checkbox"/> Jars _____	T-Started <u>12:15</u>
(C) First Final Flow <u>35</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>14:26</u>
(D) Initial Shut-In <u>974</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>17:24</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>48</u>	<input checked="" type="checkbox"/> Mileage <u>90 RT</u> <u>139.50</u>	Comments _____
(G) Final Shut-In <u>749</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2185</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1389.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1389.50</u>	

Approved By [Signature] 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56331**

4/10

Well Name & No. AHC LHC # 1-33 Test No. #2 Date 4/3/14
 Company Mustang Drilling Co Inc. Elevation 3140 KB 3130 GL
 Address 250 N Water St 300 Wich Falls 67202
 Co. Rep / Geo. Tom Funt Rig Markin #22
 Location: Sec. 33 Twp. 125 Rge. 33W Co. Logan State Ks

Interval Tested 4603 4670 Zone Tested Johnson
 Anchor Length 67 Drill Pipe Run 4355 Mud Wt. 9.3
 Top Packer Depth 4598 Drill Collars Run 239' Vis 54
 Bottom Packer Depth 4603 Wt. Pipe Run --- WL 6.4
 Total Depth 4670 Chlorides 5000 ppm System LCM #6

Blow Description 10" in blow
No return
B.O.B in 29 min

Surface return in 12 min. died in 32 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>gmc</u>	<u>20</u>	<u>50</u>	<u>50</u>	<u>50</u>
<u>180</u>	<u>gmc</u>	<u>20</u>	<u>60</u>	<u>20</u>	<u>20</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>310' Gmc in Pipe</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

Rec Total 240' BHT 121° Gravity --- API RW --- @ --- F Chlorides --- ppm

(A) Initial Hydrostatic 2313 Test 1250 T-On Location 07:30
 (B) First Initial Flow 22 Jars --- T-Started 08:15
 (C) First Final Flow 59 Safety Joint --- T-Open 10:10
 (D) Initial Shut-In 1071 Circ Sub N/C T-Pulled 14:10
 (E) Second Initial Flow 62 Hourly Standby --- T-Out ---
 (F) Second Final Flow 107 Mileage 90 ft 139.50 Comments ---
 (G) Final Shut-In 1000 Sampler ---
 (H) Final Hydrostatic 2280 Straddle --- Ruined Shale Packer ---

Shale Packer --- Ruined Packer ---
 Extra Packer --- Extra Copies ---
 Initial Open 30 Extra Recorder --- Sub Total 0
 Initial Shut-In 60 Day Standby --- Total 1389.50
 Final Flow 60 Accessibility --- MP/DST Disc't ---
 Final Shut-In 90 Sub Total 1389.50

Approved By

Our Representative

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Thomas J. Funk
Petroleum Geologist

Geologists Report
Drilling Time and Sample Log

OPERATOR **Murfin Drilling Co., Inc**

LEASE **ALC LLC** WELL NO **#1-33**
FIELD **Widcat** API **15-109-21271**

LOCATION **2302 FNL & 2610 FWL**

SEC. **33** TWP. **12S** RGE. **33W**
COUNTY **Logan** STATE **Kansas**

CONTRACTOR **Murfin Dring Co** Reg #**22**
COMM **3/28/2014** COMP **4/4/2014**
RTD **4/815** LOG TD **4815'**

SAMPLES SAVED FROM **3720'** TO **4815'**
DRILLING TIME KEPT FROM **3720'** TO **4815'**
SAMPLES EXAMINED FROM **3720'** TO **4815'**
GEOLOGICAL SUPERVISION FROM **4000'** TO **4815'**
MUD UP **3400'** TYPE MUD **Chemical**

CASING RECORD
SURFACE **8 5/8" at 225' KB w/185SX**

PRODUCTION
N/A

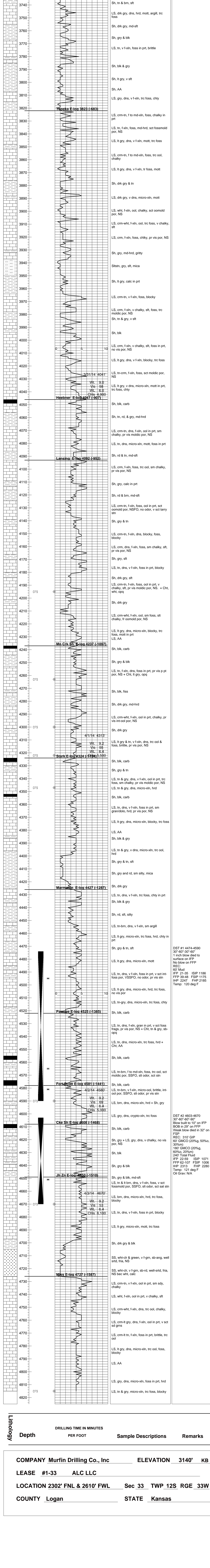
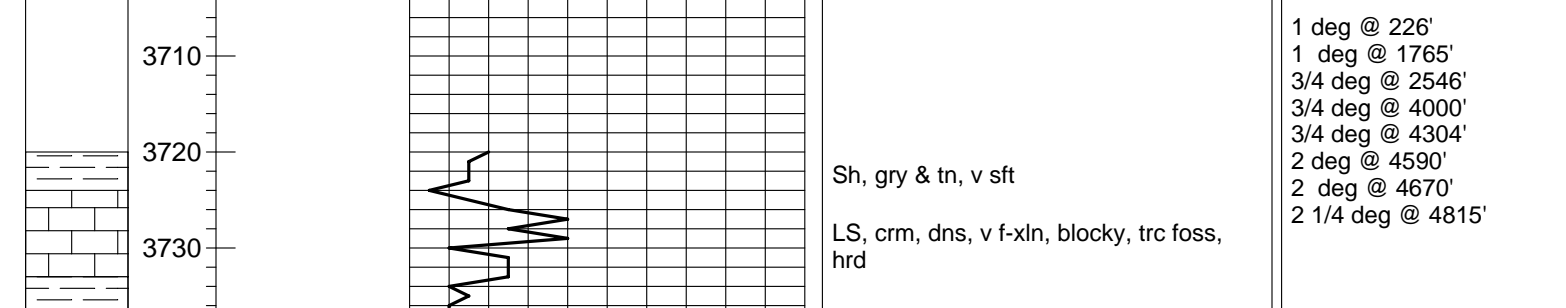
ELECTRICAL SURVEYS
Pioneer Energy Services
DIL **MEL**
DUQP **BHCS**

FORMATION LOG SAMPLE TOP DATUM TOP DATUM
Anhydrite 2619 (+521) 2620 (+520)
B/Ahydrite 2642 (+498) 2642 (+498)
Tapeka Sh 3823 (-683) 3822 (-682)
Heebner Sh 4047 (-907) 4046 (-906)
Lansing 4092 (-952) 4093 (-953)
Marmion Creek 4237 (-1087) 4237 (-1087)
Start Sh 4324 (-1184) 4324 (-1184)
Marmion 4427 (-1287) 4426 (-1286)
Pawnee 4525 (-1385) 4522 (-1382)
Cherokee Sh 4608 (-1468) 4608 (-1468)
Johnson Zone 4649 (-1510) 4649 (-1509)
Mississippian 4727 (-1587) 4726 (-1586)

Date	Daily Progress	NO. Stretches	Make	Type	Begin	Out	Feet	Hours
3/28/14	Spud	1	12 1/4" HTC	GT/C1	226	226		3
3/29/14		2	7 7/8" HTC	DP506F	4000	3774		47
3/30/14		3	7 7/8" HTC	GX20c	4815	815		51
4/1/14								
4/2/14								
4/3/14								
4/4/14								

Remarks And Recommendations:
Based upon log analysis, DST recovery, and sample examination, it was decided to plug and abandon the #1-33 ALC LLC.
Thomas Funk
Petroleum Geologist

LEGEND



COMPANY Murfin Drilling Co., Inc **ELEVATION** 3140' **KB**
LEASE #1-33 **ALC LLC**
LOCATION 2302' FNL & 2610' FWL **Sec 33 TWP 12S RGE 33W**
COUNTY Logan **STATE** Kansas