



KANSAS CORPORATION COMMISSION 1076585
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

Confidentiality Requested:

Yes No

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 Date Reached TD Completion Date or
Recompletion Date Recompletion Date

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: _____

1076585

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Joseph 1
Doc ID	1076585

Tops

Name	Top	Datum
Topeka	3150	-1092
Plattsmouth	3244	-1186
Heebner	3386	-1238
Toronto	3306	-1248
Lansing	3334	-1276
KS City (base)	3562	-1504
Arbuckle	3618	-1560
RTD	3680	
LTD	3681	

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

5426

Home Office 324 Simpson St., Pratt, KS 67124

Office / Fax 620-672-3663

WELL FILE
JOSEPH #1

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-15-12	22	15	18	Ellis	KS		9:00am
Lease	Well No.		Location				
Joseph			S S of Hays, KS 1/2 E Sinto				
Contractor				Owner			
Beredco LLC #10				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	T.D.			Charge To			
Surface	1168			Beredco LLC			
Hole Size	Depth			Street			
12 1/4	1168			320 N. Pomeroy P.O. Box 723			
Csg.	Depth			City			
8 5/8				Hays State KS 67601			
Tbg. Size	Depth			The above was done to satisfaction and supervision of owner agent or contractor.			
				Cement Amount Ordered			
Tool	Shoe Joint			460 sx 60/40 3%cc 2%gel			
	42.72						
Cement Left in Csg.	Displace						
	71.5						
Meas Line	EQUIPMENT						
	No.			1/4 # F10			
Pumptrk	8	David		Common 276			
Bulktrk	No.	4		Poz. Mix 184			
Bulktrk	No.			Gel. 8			
Pickup	No.			Calcium 17			
JOB SERVICES & REMARKS				FLOAT EQUIPMENT			
Rat Hole				Hulls			
Mouse Hole				Salt			
Centralizers				Flowseal 115			
Baskets				Kol-Seal			
D/V or Port Collar				Mud CLR 48			
CFL-117 or CD110 CAF 38							
Sand							
Handling 485							
Mileage 6							
Ran 27 JTS 8 5/8 casing & landing Est circulation with mud pump mixed 460 sx 60/40 3%cc 2%gel 1/4" shut down - Released plug & disp 71.5 bbl H2O and shut in @ 300psi							
Guide Shoe							
Centralizer				3 8 5/8			
Baskets							
AFU Inserts							
Float Shoe							
Latch Down							
Cement did circulate !!				Rubber Plug Baffle Plate			
Circulated 70 sx to pit !!							
Pumptrk Charge				Surface			
Mileage				6			
				Tax			
				Discount			
Signature				Total Charge			



Will Jul
 TICKET NUMBER 33842
 LOCATION Oakley, KS
 FOREMAN Walt Dinkel

PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
1-24-12	1707	Joseph # 1	22	15 ^S	18 ^W	Ellis												
CUSTOMER <u>Berex co Inc</u>			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>456-T118</td> <td>Wiles Shaw</td> <td></td> <td></td> </tr> <tr> <td>528-T127</td> <td>Wes Flynn</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	456-T118	Wiles Shaw			528-T127	Wes Flynn		
TRUCK #	DRIVER	TRUCK #					DRIVER											
456-T118	Wiles Shaw																	
528-T127	Wes Flynn																	
MAILING ADDRESS																		
CITY	STATE	ZIP CODE																

Hays
83
1/4 E
S. 3.

JOB TYPE Prod HOLE SIZE 7 7/8 HOLE DEPTH 3680' CASING SIZE & WEIGHT 5 1/2 - 14 #
 CASING DEPTH 3680' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 138.25 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 83'
 DISPLACEMENT 90 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE 6 BPM

REMARKS: Safety meet Rig up on Borehole #10, rig up to casing, circ 1 hr
mix 30 sks in R.H., 20 sks in M.H., Pump 500 gal Mud Flush, Mix 150 sks 6 3/4 per
6% Gel, 1/4 # Flo-seal, Tail in w/ 200 sks OWC, 5 # Kal seal, Clear Pump + Lines
release Plug + Displace 90 1/2 BBL #2 @ 950 #, Land seal Plug @ 1500 #
release Pressure, Float Held,

2:15^A

Thank You
Walt + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401P		PUMP CHARGE	2700 ⁰⁰	2700 ⁰⁰
5406	30	MILEAGE	5 ⁰⁰	150 ⁰⁰
1126	200 sks	OWC	18 ⁸⁰	3760 ⁰⁰
1131	200 sks	6 3/4 per	12 ⁵⁵	2510 ⁰⁰
1118B	1032 #	Bentonite	.21	216 ⁷²
1110A	1000 #	Kal seal	.46	460 ⁰⁰
1107	50 #	Flo-Seal	2 ³⁵	117 ⁵⁰
1144G	500 gal	Mud Flush	1 ⁰⁰	500 ⁰⁰
5407A	18	Ton Mileage Delivery	1 ⁶⁷	901 ⁸⁰
4159	1	5 1/2 AFU Float Shoe	413 ⁰⁰	413 ⁰⁰
4454	1	5 1/2 - Latch down assy	303 ⁰⁰	303 ⁰⁰
4136	9	5 1/2 - Turbo-Centrifuges	72 ⁰⁰	648 ⁰⁰
4309	1	5 1/2 - 1-Loc Ring	30 ⁰⁰	30 ⁰⁰
				12,710 ⁰²
		Less 10%		- 1271 ⁰⁰
				11,439 ⁰²
		247413	SALES TAX	507 ⁹³
			ESTIMATED TOTAL	11946 ⁹⁴

Ravin 3737

AUTHORIZATION Mark Dent TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 19, 2012

Bruce Meyer
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-051-26243-00-00
Joseph 1
NW/4 Sec.22-15S-18W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Bruce Meyer



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC
2020 N. Bramblewood
Wichita, KS. 67206
ATTN: Bryan Bynog

22-15s-18w-Ellis
Joseph #1
Job Ticket: 44720 **DST#: 1**
Test Start: 2012.01.19 @ 08:50:45

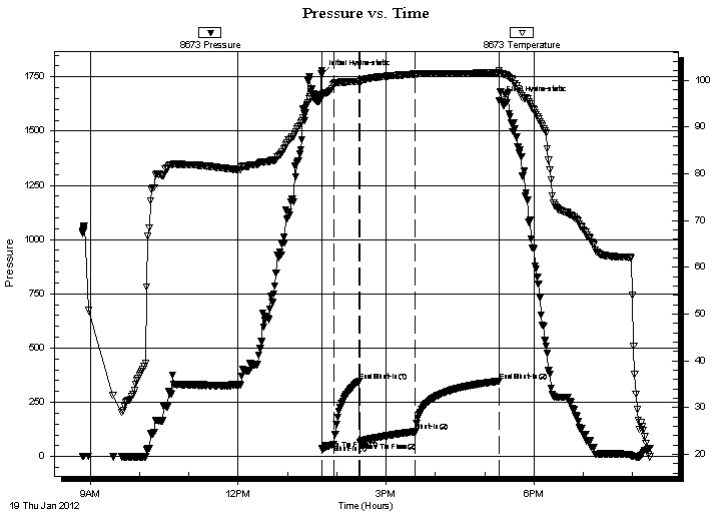
GENERAL INFORMATION:

Formation: **B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:42:15
Time Test Ended: 20:20:45
Interval: **3344.00 ft (KB) To 3370.00 ft (KB) (TVD)**
Total Depth: 3370.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 2058.00 ft (KB)
2047.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8673 Inside
Press @ Run Depth: 114.98 psig @ 3347.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.01.19 End Date: 2012.01.19 Last Calib.: 2012.01.19
Start Time: 08:50:47 End Time: 20:20:45 Time On Btm: 2012.01.19 @ 13:41:15
Time Off Btm: 2012.01.19 @ 17:17:45

TEST COMMENT: IFP Strong, BOB in 1-1/2 Min.
ISI-Blow back Built to 3"
FFP-Strong, BOB in 2-1/2"
FSI-Blow back Built to 8"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.46	96.90	Initial Hydro-static
1	35.01	96.68	Open To Flow (1)
16	55.73	99.30	Shut-In(1)
46	346.30	99.79	End Shut-In(1)
47	67.18	99.71	Open To Flow (2)
115	114.98	101.37	Shut-In(2)
216	347.66	101.61	End Shut-In(2)
217	1638.67	102.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM-25%G-15%O-60%M	0.59
125.00	Free Oil	0.61
0.00	1560' Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

22-15s-18w-Ellis

2020 N. Bramblewood
Wichita, KS. 67206

Joseph #1

Job Ticket: 44720

DST#: 1

ATTN: Bryan Bynog

Test Start: 2012.01.19 @ 08:50:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.96 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
120.00	GOCM-25%G-15%O-60%M	0.590
125.00	Free Oil	0.615
0.00	1560' Gas In Pipe	0.000

Total Length: 245.00 ft

Total Volume: 1.205 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

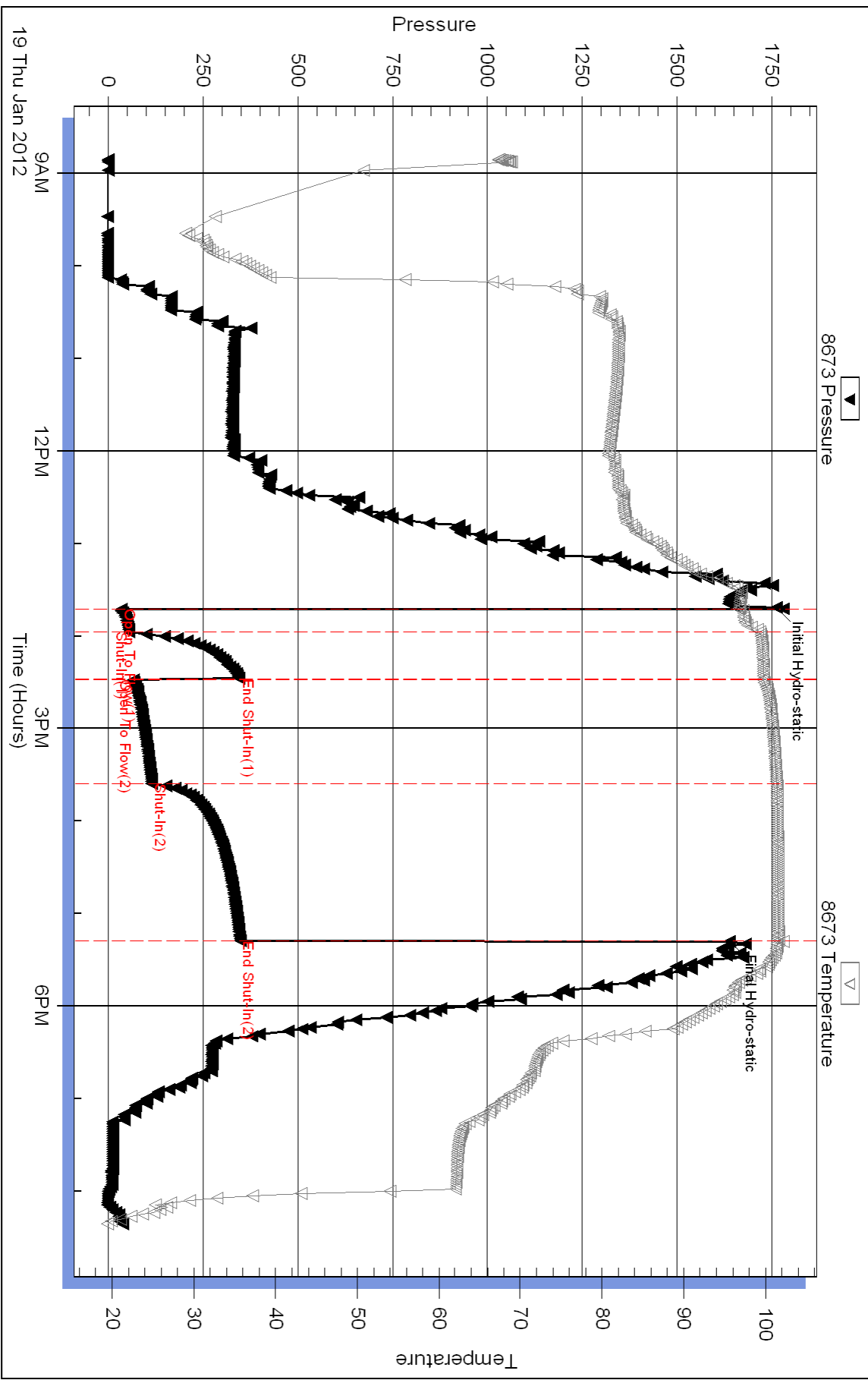
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC
 2020 N. Bramblewood
 Wichita, KS. 67206
 ATTN: Bryan Bynog

22-15s-18w-Ellis
Joseph #1
 Job Ticket: 44721 **DST#: 2**
 Test Start: 2012.01.20 @ 22:43:46

GENERAL INFORMATION:

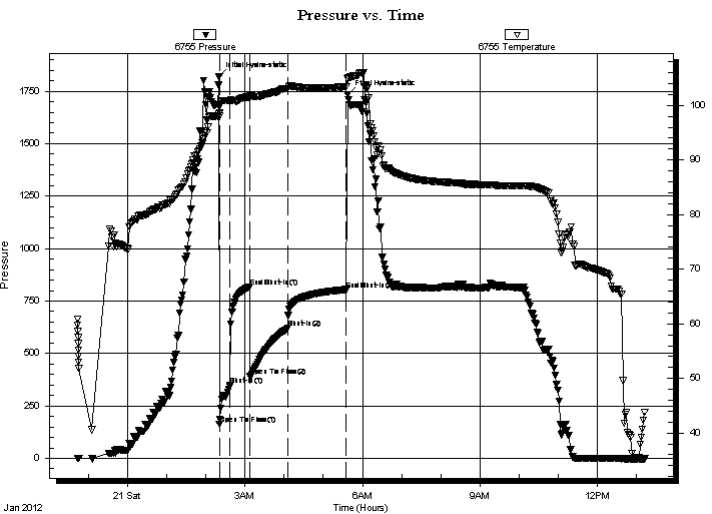
Formation: **H-I-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:20:46
 Time Test Ended: 13:12:31
 Interval: **3440.00 ft (KB) To 3540.00 ft (KB) (TVD)**
 Total Depth: 3540.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2058.00 ft (KB)
 2047.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6755

Inside

Press@RunDepth: 619.61 psig @ 3443.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.01.20 End Date: 2012.01.21 Last Calib.: 2012.01.21
 Start Time: 22:43:48 End Time: 13:12:31 Time On Btm: 2012.01.21 @ 02:20:16
 Time Off Btm: 2012.01.21 @ 05:37:01

TEST COMMENT: IFP-Strong,BOB in 1 Min.
 ISI-Blow back BOB, Strong
 FFP-Strong,BOB in 1 Min., Gas To Surface in 50 Min., Too Weak to Gauge
 FSI-Blow back BOB, Strong



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.58	98.40	Initial Hydro-static
1	163.09	98.02	Open To Flow (1)
17	347.20	100.85	Shut-In(1)
48	818.05	101.56	End Shut-In(1)
48	393.10	101.48	Open To Flow (2)
106	619.61	103.14	Shut-In(2)
195	804.28	103.45	End Shut-In(2)
197	1732.57	104.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMO-30%G-50%O-20%M	0.30
1580.00	Gassy Oil-30%G-70%O	17.86

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

22-15s-18w-Ellis

2020 N. Bramblewood
Wichita, KS. 67206

Joseph #1

Job Ticket: 44721

DST#: 2

ATTN: Bryan Bynog

Test Start: 2012.01.20 @ 22:43:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.96 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
60.00	GMO-30%G-50%O-20%M	0.295
1580.00	Gassy Oil-30%G-70%O	17.864

Total Length: 1640.00 ft

Total Volume: 18.159 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

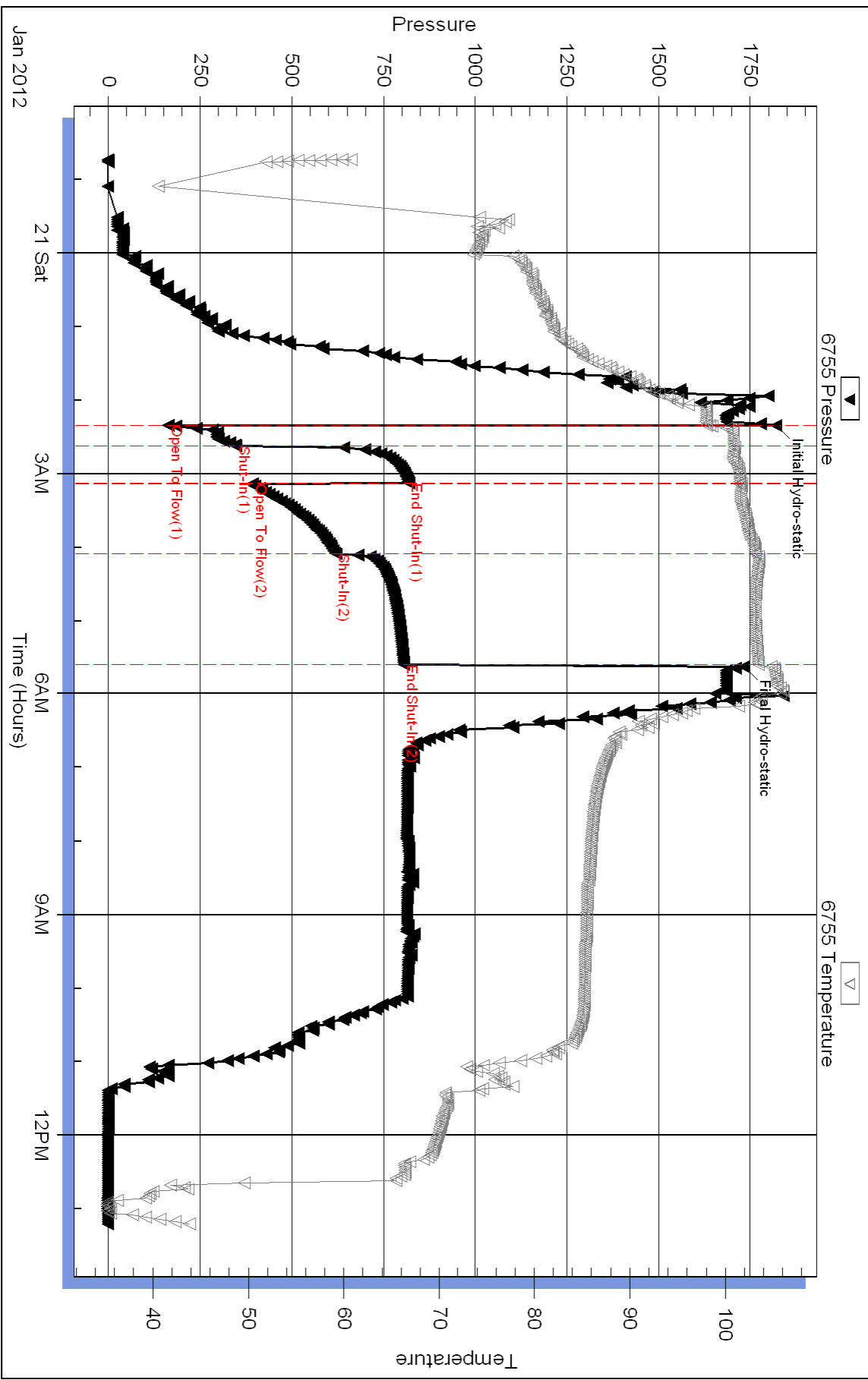
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC
2020 N. Bramblewood
Wichita, KS. 67206
ATTN: Bryan Bynog

22-15s-18w-Ellis
Joseph #1
Job Ticket: 44722 **DST#: 3**
Test Start: 2012.01.22 @ 04:31:42

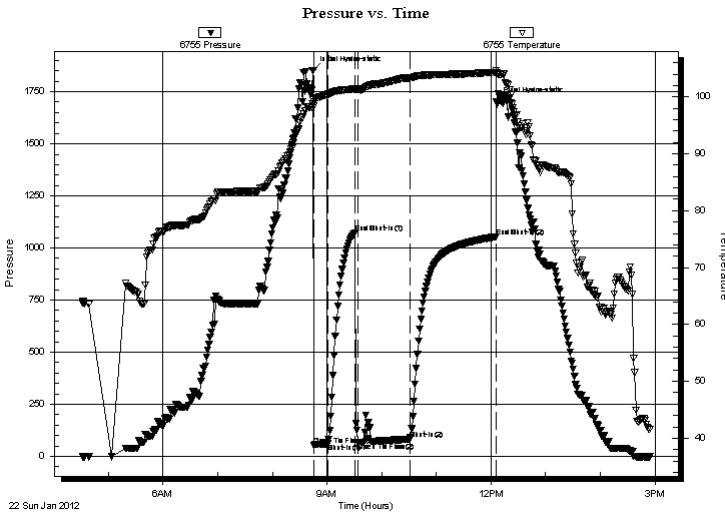
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:45:12
Time Test Ended: 14:54:57
Interval: **3538.00 ft (KB) To 3624.00 ft (KB) (TVD)**
Total Depth: 3624.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 2058.00 ft (KB)
2047.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6755 Inside
Press @ Run Depth: 82.74 psig @ 3606.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.01.22 End Date: 2012.01.22 Last Calib.: 2012.01.22
Start Time: 04:31:44 End Time: 14:54:57 Time On Btm: 2012.01.22 @ 08:44:57
Time Off Btm: 2012.01.22 @ 12:05:57

TEST COMMENT: IFP-Weak Blow , Built to 2-1/8"
ISI-Dead
FFP-Weak Blow , Built to 2-1/2"
FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.83	99.42	Initial Hydro-static
1	54.39	98.38	Open To Flow (1)
16	60.82	100.46	Shut-In(1)
46	1073.07	101.38	End Shut-In(1)
50	68.88	101.30	Open To Flow (2)
107	82.74	103.30	Shut-In(2)
201	1054.70	104.33	End Shut-In(2)
201	1702.20	104.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OCM-25%O-75%M	0.32
5.00	Free Oil	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

22-15s-18w-Ellis

2020 N. Bramblewood
Wichita, KS. 67206

Joseph #1

Job Ticket: 44722

DST#: 3

ATTN: Bryan Bynog

Test Start: 2012.01.22 @ 04:31:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	OCM-25%O-75%M	0.320
5.00	Free Oil	0.025

Total Length: 70.00 ft Total Volume: 0.345 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

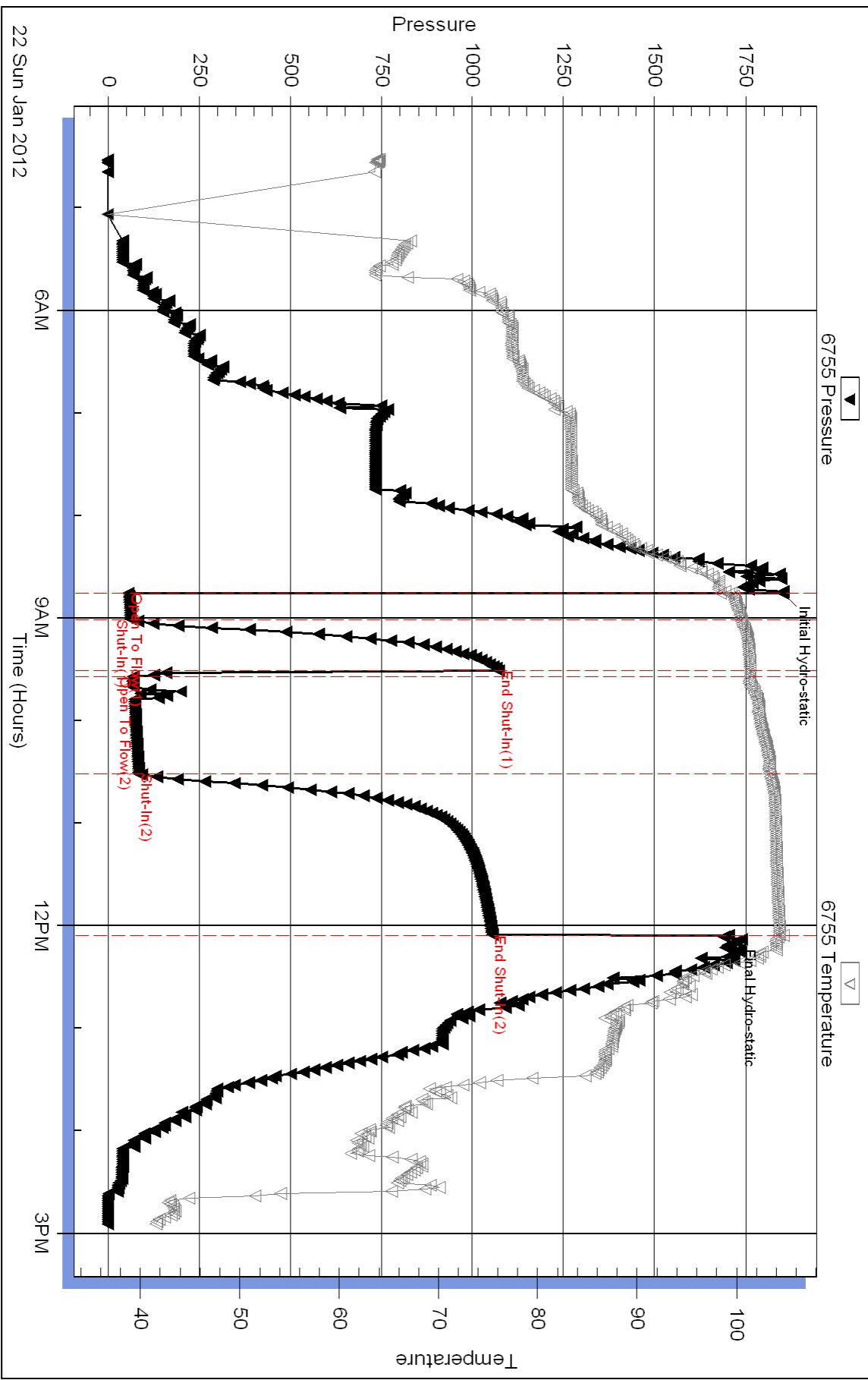
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC
2020 N. Bramblewood
Wichita, KS. 67206
ATTN: Bryan Bynog

22-15s-18w-Ellis
Joseph #1
Job Ticket: 44723 **DST#: 4**
Test Start: 2012.01.22 @ 22:19:27

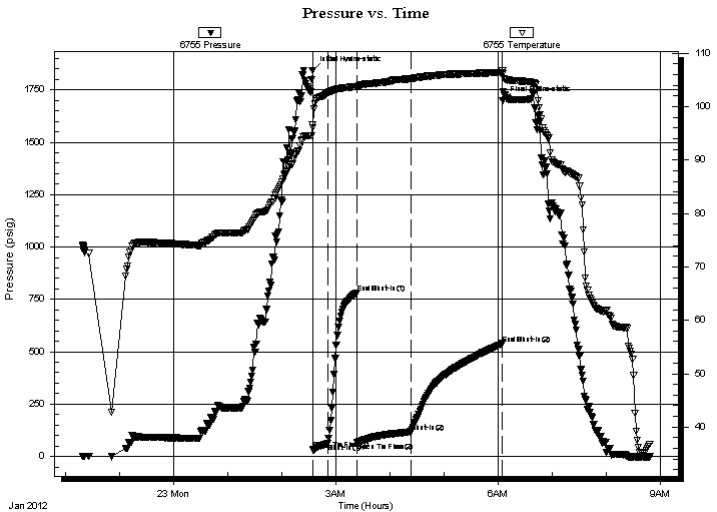
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:34:42
Time Test Ended: 08:48:42
Interval: **3624.00 ft (KB) To 3632.00 ft (KB) (TVD)**
Total Depth: 3632.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 2058.00 ft (KB)
2047.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6755 Inside
Press @ Run Depth: 117.20 psig @ 3626.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.01.22 End Date: 2012.01.23 Last Calib.: 2012.01.23
Start Time: 22:19:29 End Time: 08:48:42 Time On Btm: 2012.01.23 @ 02:34:27
Time Off Btm: 2012.01.23 @ 06:05:12

TEST COMMENT: IFP-Good Blow ,BOB in 12 Min.
ISI-Dead
FFP-Good Blow , BOB in 32 Min.
FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.61	96.61	Initial Hydro-static
1	32.44	96.06	Open To Flow (1)
17	61.17	102.58	Shut-In(1)
49	780.95	103.76	End Shut-In(1)
50	69.06	103.47	Open To Flow (2)
110	117.20	105.24	Shut-In(2)
211	538.32	106.36	End Shut-In(2)
211	1700.28	106.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM-10%O-90%M	0.15
220.00	Free Oil	1.08

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

22-15s-18w-Ellis

2020 N. Bramblewood
Wichita, KS. 67206

Joseph #1

Job Ticket: 44723

DST#: 4

ATTN: Bryan Bynog

Test Start: 2012.01.22 @ 22:19:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.96 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 bbbl
30.00	OCM-10%O-90%M	0.148
220.00	Free Oil	1.082

Total Length: 250.00 ft Total Volume: 1.230 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

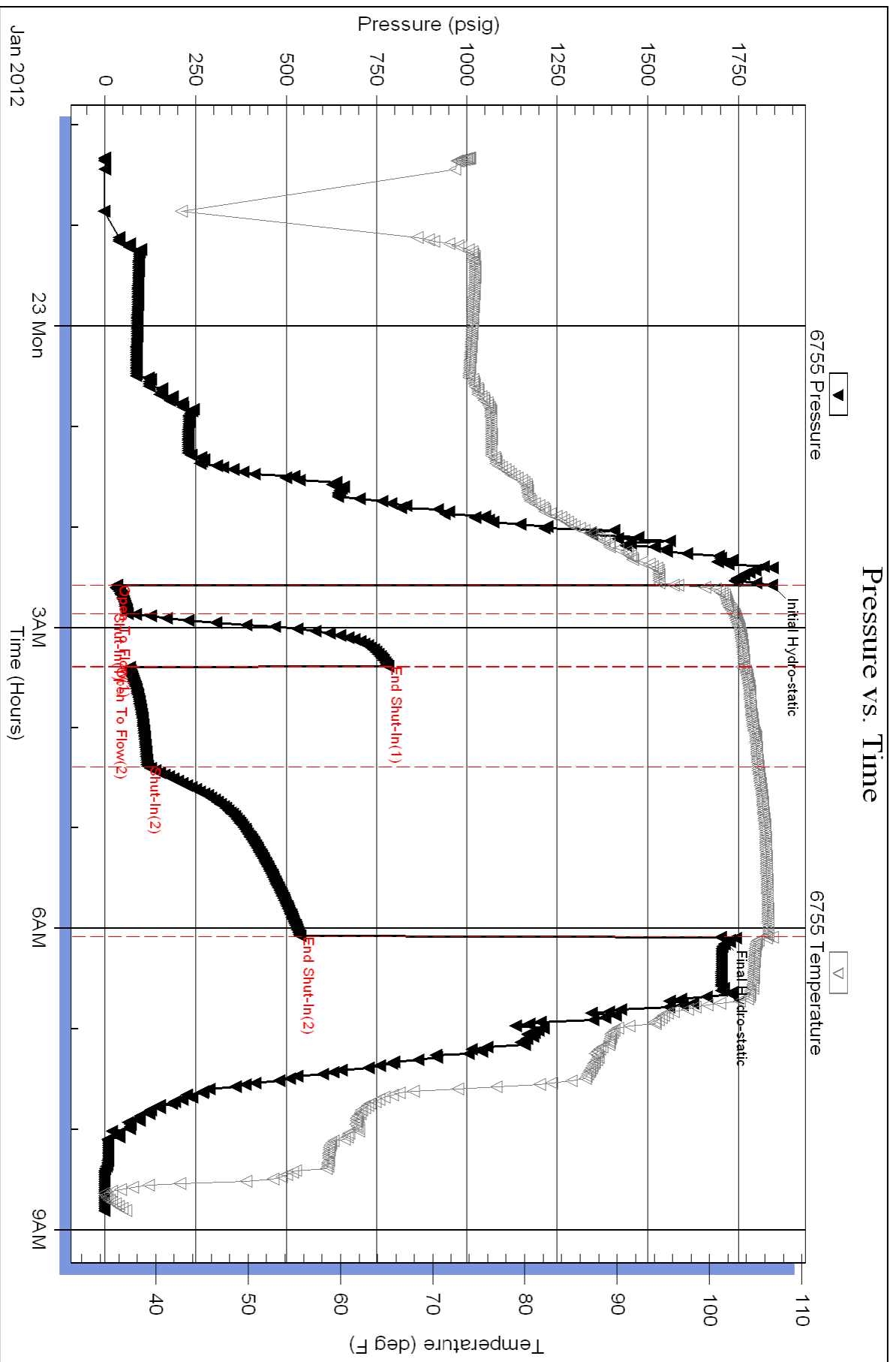
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC
2020 N. Bramblewood
Wichita, KS. 67206
ATTN: Bryan Bynog

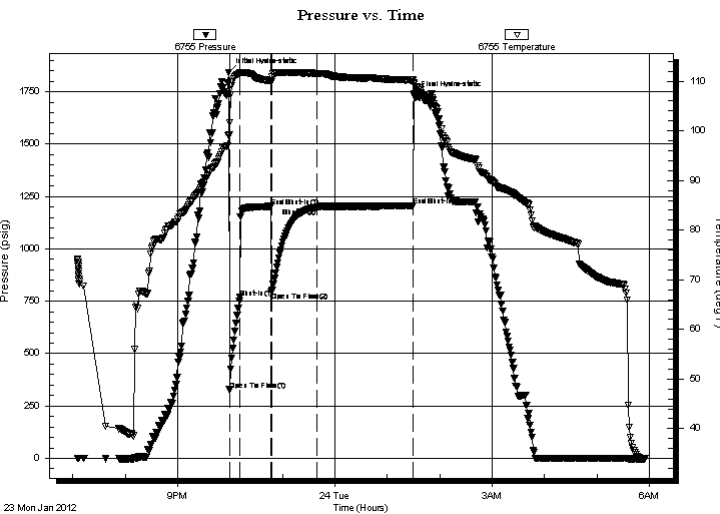
22-15s-16w-Ellis
Joseph #1
Job Ticket: 44724 **DST#: 5**
Test Start: 2012.01.23 @ 19:05:44

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:59:14
Time Test Ended: 05:54:44
Interval: **3665.00 ft (KB) To 3680.00 ft (KB) (TVD)**
Total Depth: 3680.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 2058.00 ft (KB)
2047.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6755 Inside
Press @ Run Depth: 1197.07 psig @ 3667.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.01.23 End Date: 2012.01.24 Last Calib.: 2012.01.24
Start Time: 19:05:46 End Time: 05:54:44 Time On Btm: 2012.01.23 @ 21:58:44
Time Off Btm: 2012.01.24 @ 01:30:14

TEST COMMENT: IFP-Strong, BOB in 30 Seconds
ISI-Dead
FFP-Strong, BOB in 45 Seconds
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.34	99.13	Initial Hydro-static
1	327.65	99.29	Open To Flow (1)
13	767.24	111.53	Shut-In(1)
49	1202.31	110.04	End Shut-In(1)
49	792.72	109.93	Open To Flow (2)
101	1197.07	111.57	Shut-In(2)
211	1203.91	110.25	End Shut-In(2)
212	1733.41	109.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2580.00	Muddy Water-95%W-5%M	31.34

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

22-15s-16w-Ellis

2020 N. Bramblewood
Wichita, KS. 67206

Joseph #1

Job Ticket: 44724

DST#: 5

ATTN: Bryan Bynog

Test Start: 2012.01.23 @ 19:05:44

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:

27000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.59 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
2580.00	Muddy Water-95%W-5%M	31.344

Total Length: 2580.00 ft Total Volume: 31.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

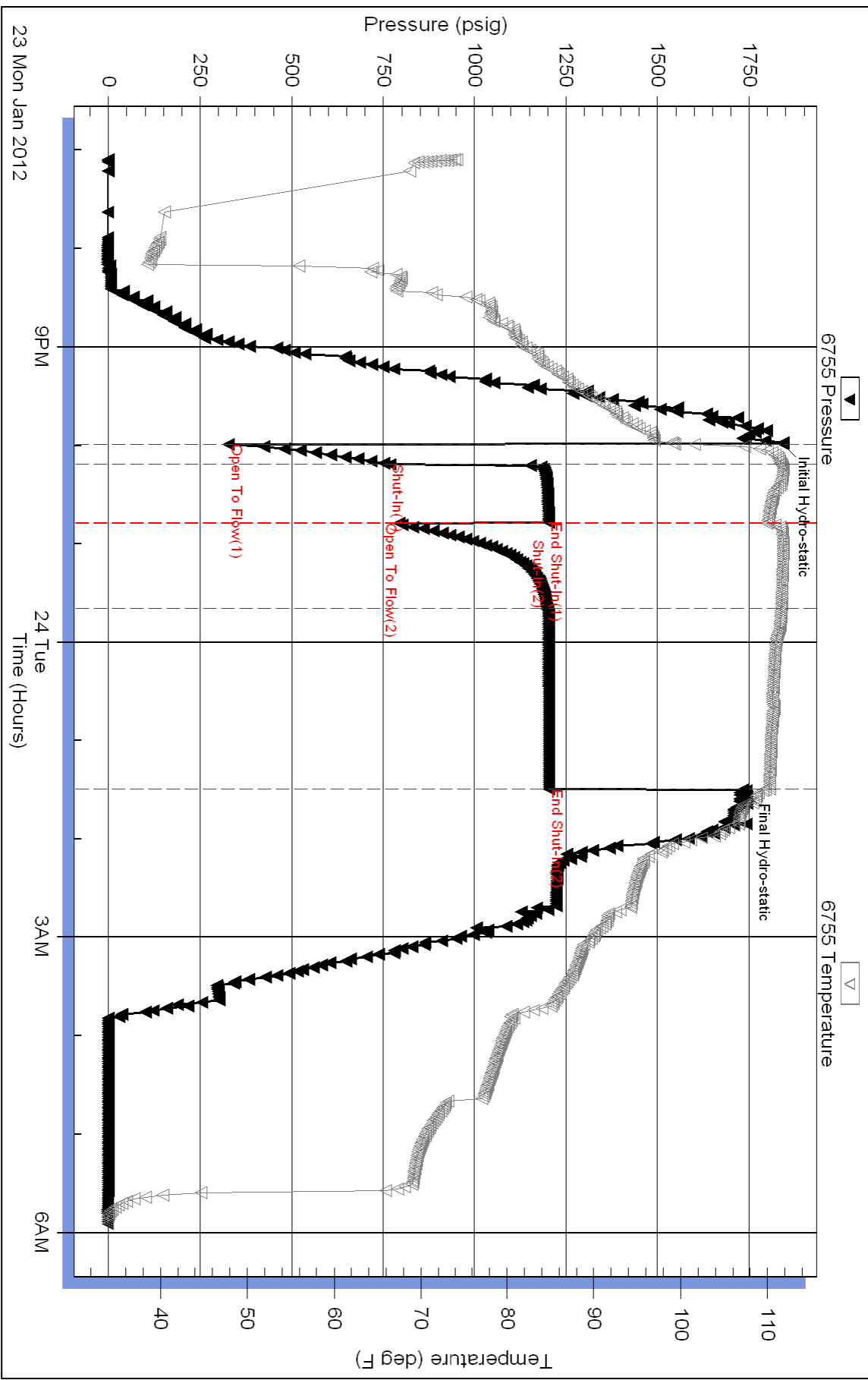
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



**BEREXCO, LLC.
JOSEPH # 1
SENEENW SECTION 22 15S-18W
ELLIS COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

DISCUSSION

Joseph # 1 was drilled a total depth of 3680 feet testing the Lansing Kansas City, Conglomerate and Arbuckle formations in Ellis County, Kansas. Our major objectives were the Lansing Kansas City A through F zones, Conglomerate and Arbuckle formations. This was a continuation of infield drilling in Schoenchen Field. There were many good shows in the Lansing B, C, G, H, I and J zones and the upper Arbuckle. Most of these zones were tested with favorable results.

Structurally, Joseph # 1 came in six feet high to the eastern offset Willard # 1 on the Lansing log top.

As a result of running high most of the zones mentioned earlier tested oil and gas, no water with the exception of drill stem test # 5 that tested 2580 feet of water out of the second Arbuckle bench.

Logs recorded fair to good porosity development with high resistivity in the zones of interest. A decision was made to set production pipe based on their structural relationship and all the porosity development with quality sample shows.

RESUME

OPERATOR: BEREXCO, LLC.

WELL NAME & NUMBER: JOSEPH # 1

LOCATION: SENENENW SECTION 22 15S-18W

COUNTY: RUSSELL

STATE: KANSAS

SPUD DATE: 1-31-2012 COMPLETION DATE: 2-7-2012

ELEVATIONS: GL: 2047' KB: 2058'

CONTRACTOR: BEREDCO RIG 10

LOGS: LOG TECH TYPES: RAG & MICROLOG

WELLSITE ENGINEER: NONE

MUD COMPANY: ANDY'S MUD

MUD TYPE & ENGINEER: FRESH CHEMICAL

GEOLOGIST: WILLIAM B.BYNOG

HOLE SIZE: 7 7/8

MUD LOGGING BY: NONE

DRILL STEM TEST COMPANY: TRILOBITE TESTING

DRILL STEM TEST: DST # 1 3344-70, DST#2 3440-3540,
DST#3 3538-3624, and DST #4 3624-32,
DST#5 3665-80

WELL STATUS: SET PRODUCTION CASING

JOSEPH #1 SAMPLES
BEREDCO RIG 10 DRILLING 7 7/8 HOLE

2500-74 SHALE red,green,very soft,

2574-2606 LIMESTONE gray,buff,hard,fossils,poor to fair porosity,no shows

2606-34 SHALE as above

2634-60 SHALE as above with thin LIMESTONE buff,gray,hard,fossils,granular,poor porosity,no shows

2660- 2750 SHALE as above var color,very soft,very argillaceous with thin LIMESTONE as above

2750-70 LIMESTONE LIMESTONE pale gray,hard, dense,no shows

2770-2830 SHALE gray,green,red,soft,argillaceous

2830-50 LIMESTONE buff,gray,slightly hard, dirty,poor porosity,no shows

2850-90 SHALE gray,firm,argillaceous

2890-2980 LIMESTONE gray,buff,slightly hard,fossils, dirty,poor porosity,no shows with thin SHALE as above

2980-3135 SHALE as above

3035-3092 LIMESTONE buff,gray,very hard,fossils, dense,dirty,no shows with thin bedded SHALE as above

3092-3100 SHALE gray,firm,silty, blocky

JOSEPH #1 SAMPLES

3100-40 LIMESTONE pale gray, buff, firm, argillaceous, slightly sandy, poor to fair porosity, no shows with thin SHALE as above

TOPEKA

3140-3220 LIMESTONE pale gray, light brown, hard, fossils, dense, poor porosity, no shows

3220-35 LIMESTONE buff, very hard, dense, crptoxln

3235-40 SHALE gray, green, red, var color, firm, fissile, slightly carbonaceous

3240-80 LIMESTONE buff, very hard, dense, some silty, argillaceous, poor porosity, no shows

3270-3290 LIMESTONE buff, very hard, very dense, blocky, no shows

HEEBNER

3290-14 SHALE dark gray black, black, firm, fissile, slightly carbonaceous

TORONTO

3306-14 LIMESTONE white, firm, chalky, poor porosity, no shows

3314-22 LIMESTONE buff, very hard, dense, smth texture

3322-36 SHALE red, gray, green, firm, fissile

LANSING A

3334- 44 LIMESTONE buff, very hard, dense, some chalky, firm, no shows

3346-56 SHALE as above

B SONE

JOSEPH #1 SAMPLES

3355-64 LIMESTONE white,firm,oolitic,very chalky,fair moldic porosity,abundant spotty dead black stain,poor cut, some(10%) fair to good moldic porosity,spotty brown live stain,good cut and odor,poor show free oil

3364-70 LIMESTONE buff,very hard,dense,blocky, no shows

3370-76 SHALE as above

C ZONE

3376-82 LIMESTONE buff,very hard,dense,poor pinpoint vuggy porosity,very spotty live brown stain,good cut,poor show free oil

3382-3410 LIMESTONE buff,very hard,very dense, smth texture

3410-15 SHALE as above

G ZONE

3416-24 LIMESTONE buff,firm,oolitic, fair intergranular porosity,spotty live brown stain,good cut and odor,fair show free oil

3424-28 LIMESTONE white,firm,very chalky, oolitic,fair intergranular and vuggy porosity,very spotty live black stain,good cut,trace free oil

3428-60 LIMESTONE buff,very hard,dense,crp crystalline,some Chert tan,pink,white with thin SHALE dark gray,fissile

3460-70 SHALE dark gray,firm,fissile,slightly carbonaceous

H ZONE

3468-85 LIMESTONE buff,hard,slightly oolitic,poor vuggy porosity,very spotty brown stain,good cut,no free oil

3485-88 SHALE as above

I ZONE

JOSEPH #1 SAMPLES

3488-3498 LIMESTONE buff,firm, oolitic,poor to fair intergranular porosity,spotty live brown stain,good cut,trace free oil

3498-3500 LIMESTONE white,buff,hard,blocky, dense, no shows

3500-04 SHALE as above

J ZONE

3508-10 LIMESTONE buff,very hard,dense

3510-20 LIMESTONE buff,firm,very fossils, oolitic,granular texture,poor to fair intergranular porosity,spotty live brown stain,good cut,poor show free oil,faint odor

3520-26 SHALE as above

K ZONE

3526-32 LIMESTONE white,buff,very fossils,chalky,poor porosity,trace dead black stain,very scattered live brown stain,poor cut ,no free oil

3532-45 LIMESTONE buff,very hard,bky,very dense

3545-55 SHALE gray,gray green,firm, fissile

3555-62 LIMESTONE buff,very hard,dense, crpxln

3562-3590 SHALE red,very soft,very argillaceous with trace LIMESTONE white,hard,oolitic, poor vuggy porosity,spotty live brown stain,good cut

3590-3610 LIMESTONE buff,very hard,dense, abundant Chert white,yell,orange,translucent with bedded SHALE as above

3610-16 SHALE as above very abundant Chert as above,trace dead black stain,no cut

ARBUCKLE

JOSEPH #1 SAMPLES

3616-20 CHERT white,yell,orange, very hard,fresh fractures,trace DOLOMITE
white,firm,poor porosity,very spotty dead stain,poor cut

3620-30 DOLOMITE buff,firm,micsuc texture,fair to good intxln porosity,even live
brown stain,very good cut and odor,good show free oil

3630-34 DOLOMITE as above,hard,poor porosity,very spotty stain,good cut

3634-38 DOLOMITE white,buff,firm,micsuc texture,fair to good intxln porosity,even
live brown stain,very good cut and odor,good show free oil

3638-65 DOLOMITE white,hard,dense,poor vuggy porosity,very spotty live brown
stain,good cut and odor,fair show free oil

3665-72 DOLOMITE white,firm,micsuc texture,fair to good intxln porosity,spotty to
even live brown stain,very good cut and odor,good show free oil

3672-76 DOLOMITE white,very hard,dense,poor porosity,no shows

3676-80 DOLOMITE white,slightly hard,micsux texture,fair to good intxln
porosity,spotty live brown stain,very good cut and odor,good show free oil

RTD 3680'

LTD 3681'

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: JOSEPH # 1
Location: SENENENW 22 15S-18W ELLIS COUNTY, KS.
License Number: 15-051-26243
Spud Date: 1-13-2012
Surface Coordinates: 575' FNL & 2075' FWL
Region: MIDCONTINENT
Drilling Completed: 1-24-2012

Bottom Hole
Coordinates:
Ground Elevation (ft): 2047
Logged Interval (ft): 2500 To: 3680
Formation: LKC & ARBUCKLE
Type of Drilling Fluid: FRESH
K.B. Elevation (ft): 2058
Total Depth (ft): 3680

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: BEREXCO,LLC.
Address: 2020 N. BRAMBLEWOOD
WICHITA, KS, 67206

GEOLOGIST

Name: WILLIAM B. BYNOG
Company:
Address: P.O. BOX 687
PINECLIFFE, CO. 80471
303-642-3681 OFFICE 303-250-0727 CELL

SURVEYS

DEPTH	ANGLE
1168	1
2071	3/4
3378	1/2

DSTS

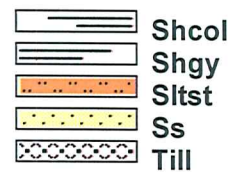
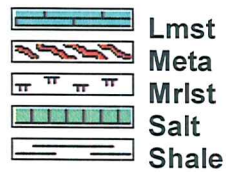
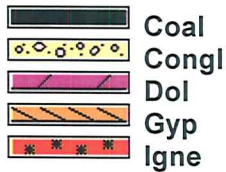
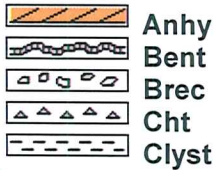
DST#13344-70',DST#2 3440-3540, DST#3 3538-3624,DST#4 3624-32', DST#5 3665-80'

Comments

ANHYDRITE 1218(+840) BASE 1250(+808)

SET PRODUCTION STRING

ROCK TYPES

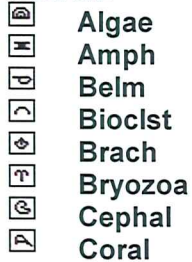


ACCESSORIES

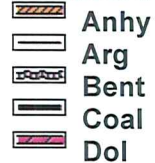
MINERAL



FOSSIL



STRINGER

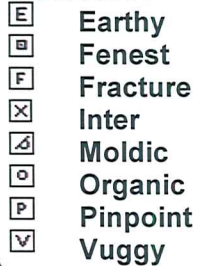


TEXTURE



OTHER SYMBOLS

POROSITY



SORTING



ROUNDING



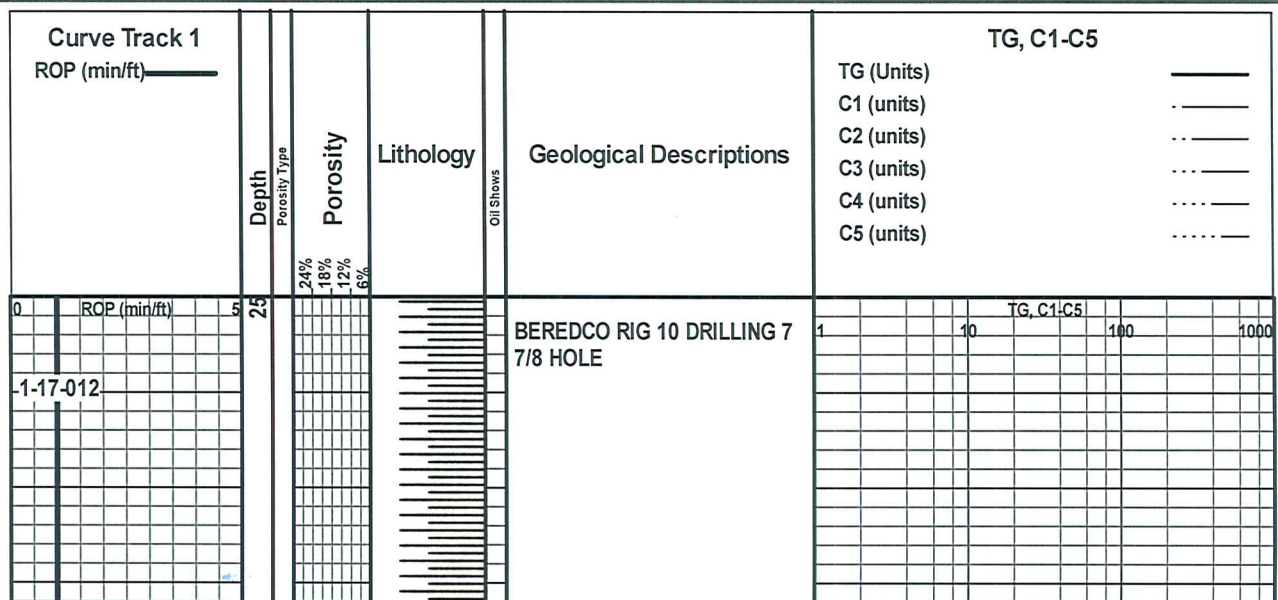
OIL SHOW

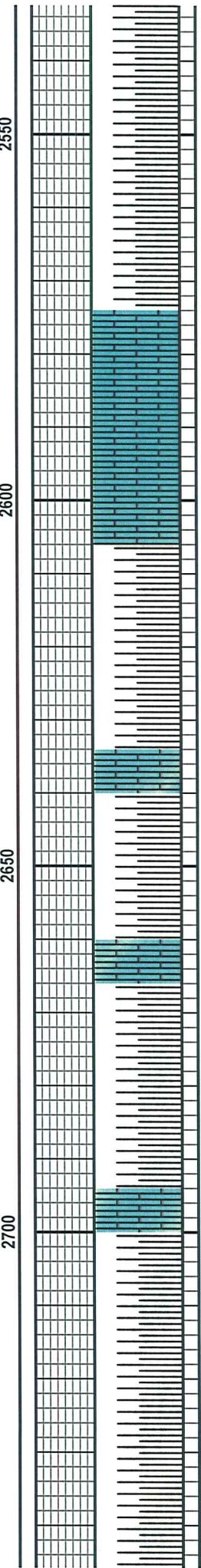
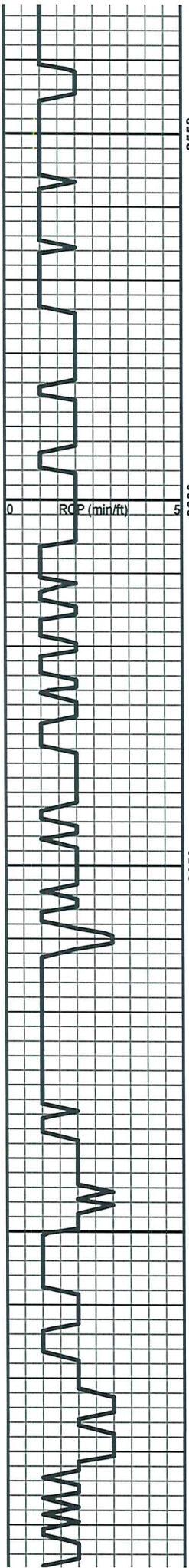


INTERVAL

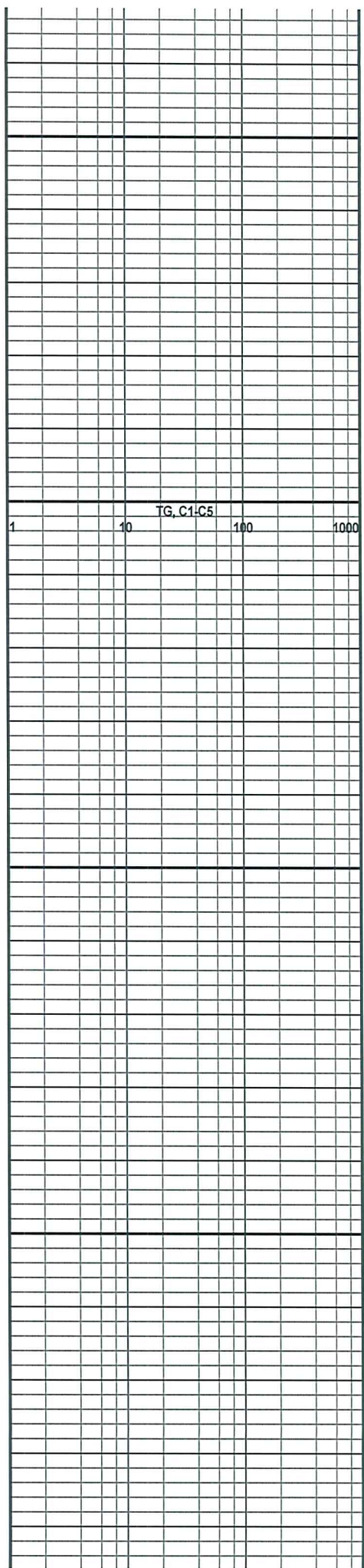


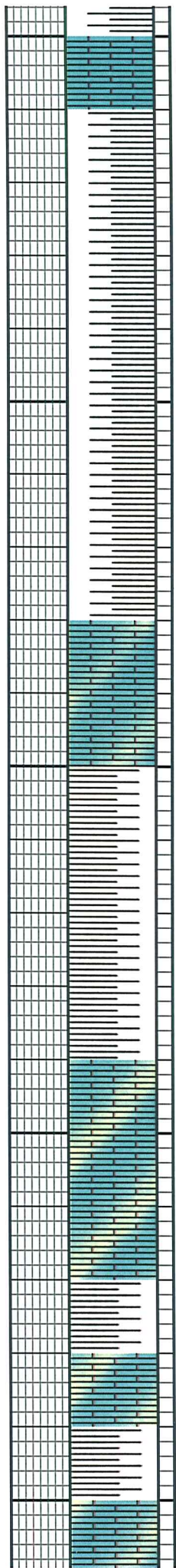
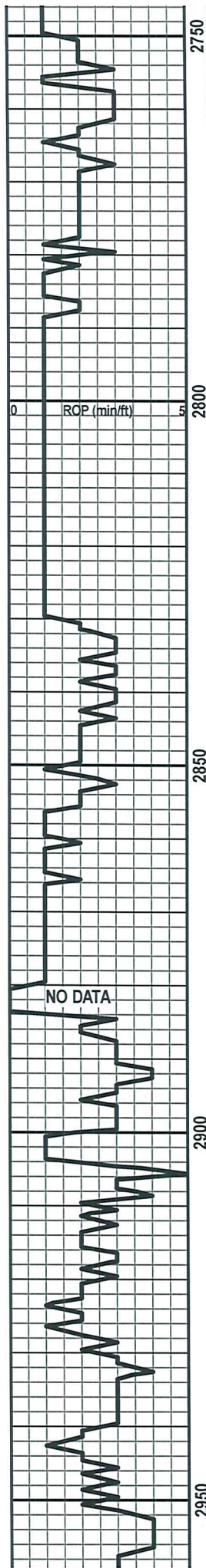
EVENT





SH red,gn,v sft,
LS gy, buff,hd, foss, p-fr por, ns
SH aa
SH aa with thin LS
buff, gy,hd, foss, gran, p por, ns
SH aa var col, v sft, v arg with
thin LS aa





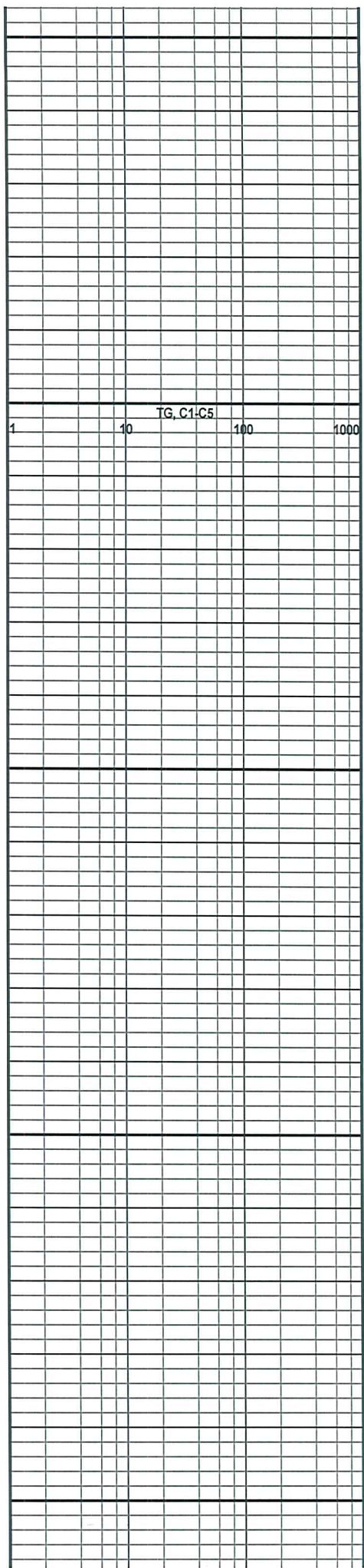
LS LS pale gy,hd,dns,ns

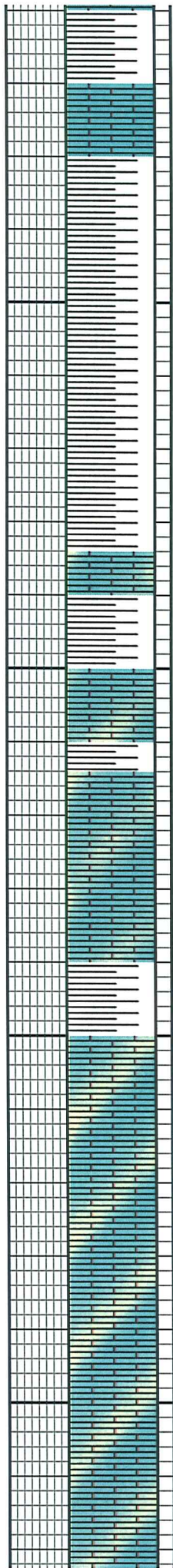
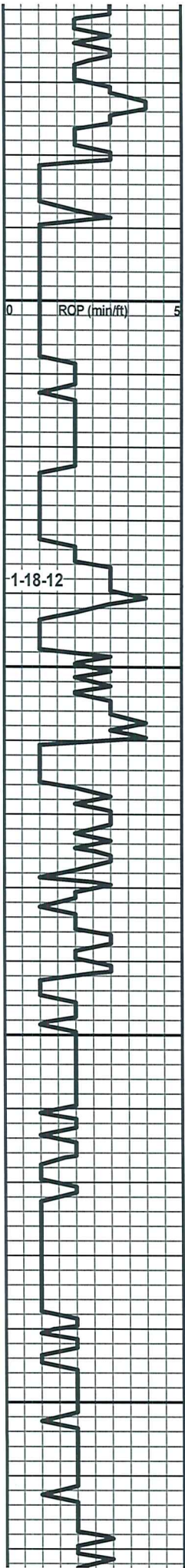
SH gy,gn,red,sft,arg

LS buff,gy,sl hd,dirty,p por,ns

SH gy,frm,arg

LS gy,buff,sl hd,foss,dirty,p por,ns with thin SH aa





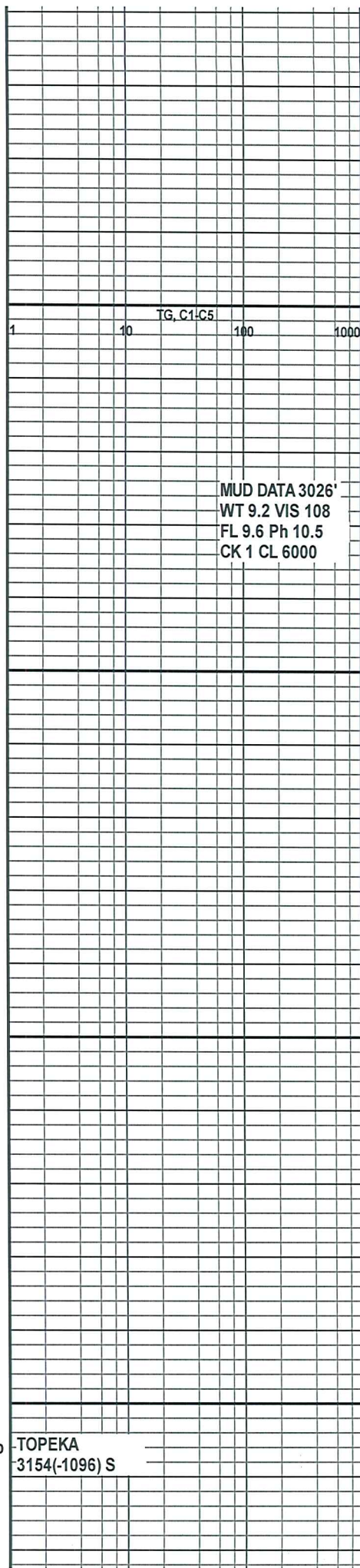
SH aa

LS buff,gy,v hd,foss,
dns,dirty,ns with thin bedded
SH aa

SH gy,frm,silty, blk

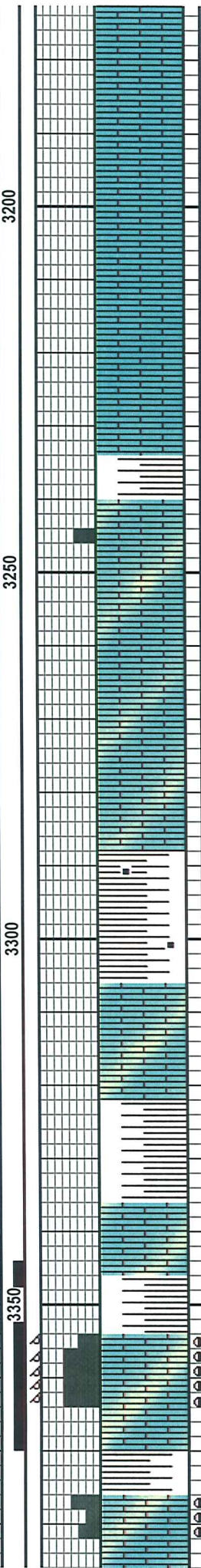
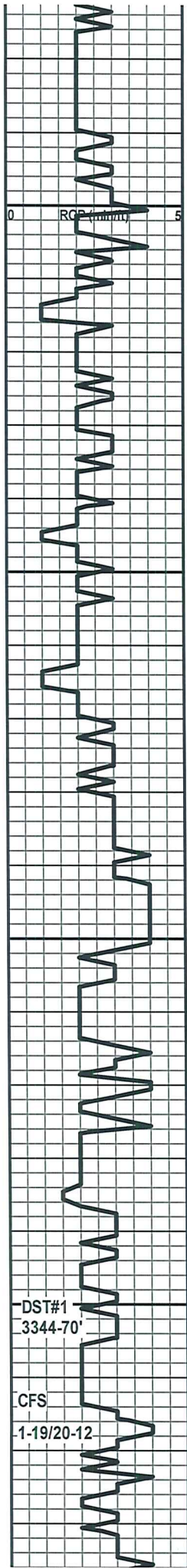
LS pale gy,buff,frm,arg, sl
sdy,p-fr por,ns with thin SH aa

LS pale gy,lt brn,hd, foss,dns,p
por,ns



MUD DATA 3026'
WT 9.2 VIS 108
FL 9.6 Ph 10.5
CK 1 CL 6000

-TOPEKA
3154(-1096) S



LS buff,v hd,dns,crptoxln

SH gy,gn,red,var col, frm,fiss,sl carb

LS buff,v hd,dns,some slty,arg,p por,ns

LS buff,v hd,v dns,blk,ns

SH dk gy blk,blk,frm,fiss, sl carb

LS wh,frm,chky,p por,ns

LS buff,v hd,dns, smth tex

SH red,gy,gn,frm, fiss

LS buff,v hd,dns, some chky,frm,ns

SH aa

LS wh,frm,oolitic,v chky,fr moldic por,abnt spty dd blk stn,p cut, some(10%) fr-g moldic por,spty brn live stn,g cut & odor,p show free oil

LS buff,v hd,dns,blk, ns

SH aa

LS buff,v hd,dns,p pp vuggy por,v spty live brn stn,g cut,p show free oil

	TG, C1-C5	1	10	100	1000
PLATTSMOUTH 3240(-1182) S					
HEEBNER					
TORONTO 3306(-1248) S					
LANSING A 3336(-1278) S					
B ZONE 3355(-1297) S					
C ZONE 3376(-1318) S					

DST#1 3344-70'
15-30-60-90"
IH 1762 IF 35-56
(op bob in 1.5")
ISI 346 FF 67-115
(op bob in 3")
FSI 348 FH 1639
REC: 1560' GIP,
125' CLN OIL &
120' OCM (25%
G,15%O & 60%
M)

