



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1151775
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: _____



1151775

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> _____
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Tasset 1-23 X
Doc ID	1151775

All Electric Logs Run

Compact Photo Density Compensated Neutron Microresistivity Log
Compensated Sonic with Integrated Transit Time
Array Induction Shallow Focused Electric Log
Microresistivity Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Tasset 1-23 X
Doc ID	1151775

Tops

Name	Top	Datum
Heebner (base)	4122	-1723
Toronto	4133	-1734
Lansing	4233	-1834
Lansing G	4350	-1951
Marmaton	4666	-2267
Cherokee	4798	-2399
Mississippi	4908	-2509
RTD	5050	-2651
LTD	5057	-2658

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 16, 2013

Evan Mayhew
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-057-20899-00-00
Tasset 1-23 X
NW/4 Sec.23-26S-22W
Ford 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,
Evan Mayhew

ALLIED OIL & GAS SERVICES, LLC

059825

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lake, KS

DATE <i>06-08-13</i>	SEC. <i>23</i>	TWP. <i>26s</i>	RANGE <i>22w</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>1000AM</i>
LEASE <i>Tasset</i>	WELL # <i>1-23X</i>	LOCATION <i>Ford</i>	<i>KS 1N, 14E, 8N, 20,</i>	COUNTY <i>Ford</i>	STATE <i>KS</i>		
OLD OR NEW (Circle one) <i>NEW</i>			<i>s/n to</i>				

CONTRACTOR *Berexco*
 TYPE OF JOB *Surface*
 HOLE SIZE *12 1/4* T.D. *821*
 CASING SIZE *8 5/8* DEPTH *821*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX *900* MINIMUM *—*
 MEAS. LINE SHOE JOINT *42.43*
 CEMENT LEFT IN CSG. *42'*
 PERFS.
 DISPLACEMENT *50 Bbls Fresh H₂O*

OWNER *Berexco*
 CEMENT
 AMOUNT ORDERED *22.5sx6.5:35:6 1/2% gel + 3%.cc + 1/4 # Flo Seal # 150sx class A + 3%.cc + 2% gel*

COMMON <i>class A</i>	<i>150sx@</i>	<i>17.90</i>	<i>2685.00</i>
POZMIX	<i>25@</i>		
GEL	<i>3.5x@</i>	<i>23.40</i>	<i>70.20</i>
CHLORIDE	<i>1.7 sr@</i>	<i>64.00</i>	<i>704.00</i>
ASC	<i>@</i>		
<i>Lite Weight</i>	<i>22.5sx@</i>	<i>15.95</i>	<i>3588.75</i>
<i>Flo Seal</i>	<i>56 #@</i>	<i>2.97</i>	<i>166.32</i>
	<i>@</i>		
	<i>@</i>		
	<i>@</i>		
	<i>@</i>		
	<i>@</i>		
HANDLING <i>399.44 Fr³</i>	<i>@</i>	<i>2.48</i>	<i>990.61</i>
MILEAGE <i>18.09 35</i>	<i>@</i>	<i>2.60</i>	<i>1646.49</i>
TOTAL			<i>9851.07</i>

EQUIPMENT
 PUMP TRUCK CEMENTER *D. Felio*
 # *471-265* HELPER *R. Gilley*
 BULK TRUCK
 # *381-252* DRIVER *Justin Bowyer*
 BULK TRUCK
 # DRIVER

REMARKS:
See Job Log -

*Bump Plug Float Held
Cement Did OK.*

THX ☺

CHARGE TO: *Berexco*
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB	<i>821</i>	
PUMP TRUCK CHARGE		<i>2058.50</i>
EXTRA FOOTAGE	<i>@</i>	
MILEAGE <i>35</i>	<i>@</i>	<i>269.30</i>
MANIFOLD <i>head rental</i>	<i>@</i>	<i>N/C</i>
<i>Light Vehicle 35</i>	<i>@</i>	<i>N/C</i>
TOTAL		<i>2328.00</i>

PLUG & FLOAT EQUIPMENT

<i>1-TRP</i>	<i>@</i>	<i>98.00</i>
<i>1-cement Basket</i>	<i>@</i>	<i>220.00</i>
<i>1-AFU insert</i>	<i>@</i>	<i>203.00</i>
<i>4-centralizers</i>	<i>@</i>	<i>56.00</i>
<i>1-Guide shoe</i>	<i>@</i>	<i>N/C</i>
TOTAL		<i>745.20</i>

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Daniel S. Dalrymple*

SIGNATURE *Daniel S. Dalrymple*

SALES TAX (If Any)
 TOTAL CHARGES *12924.29*
 DISCOUNT *net 9514.15* IF PAID IN 30 DAYS

2-08-13 District Med. Lodge 10 Ticket No. 59825
 Company Berex 10 Rig Berex 2
 Lease Tasset Well No. 1-23 X
 County Ford State KS
 Location Vic. Spearville / J5 Field 23-265-22

CEMENT DATA: Fresh H₂O Surface
 Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type _____ Weight _____ Collar _____

LEAD: Pump Time 3⁰⁰ + 1/4 #Floscal hrs. Type 65:35:10 logged
 Amt. 225 Skys Yield 1.97 ft³/sk Density 12.9 PPG
 TAIL: Pump Time 2⁰⁹ 4 hrs. Type class A + 3% cement
 Amt. 150 Skys Yield 1.34 ft³/sk Density 15.2 PPG
 WATER: Lead 10.8 gals/sk Tail 6.5 gals/sk Total _____ Bbls.

Casing Depths: Top _____ Bottom _____

Pump Trucks Used 471-265
 Bulk Equip. 381-252

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 821 ft. P.B. to 821 ft.

Floet Equip: Manufacturer W-G
 Shoe: Type Guide Shoe - TEX WP Depth _____
 Float: Type AFV in seat Depth _____
 Centralizers: Quantity 4 Plugs Top TRP Btm. _____
 Stage Collars _____
 Special Equip. Cement - Basket
 Disp. Fluid Type Fresh H₂O Amt. 50 Bbls. Weight _____ PPG
 Mud Type Water Weight _____ PPG

APACITY FACTORS:
 Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. .0735 Lin. ft./Bbl. _____
 Circulations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____ CEMENTER D. Felio

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						Pipe on Btm. Break Circ.
	300			3	4	Pump Spacer
	300			79	5	Mix 22.5sx 65:35 cement
	200			36	6	Mix 150sx A 3% cement
	100				5	Stop Pump - Release Plug
	200			35	5	Start Disp./ Fresh H ₂ O, Wash up on Plug
	400			40	2 1/2	See Study increase in PSI
0000h	900			50	2 1/2	Slow Rate Bump Plug
						Release PSI - Floet did hold Cement did Circ

DISP. PRESS: 700 PSI BUMP PLUG TO 960 PSI BLEEDBACK 1/4 BBLs. THANK YOU



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC

23-26-22 Ford co

2020 Bramble wood
Wichita KS 67206

Tasset # 1-23 X

Job Ticket: 47505

DST#: 1

ATTN: Evan Mayhew / Ed Grie

Test Start: 2013.06.19 @ 09:27:33

GENERAL INFORMATION:

Formation: **Marm, Altomont, Pawne**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:26:03

Time Test Ended: 21:39:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: 4685.00 ft (KB) To 4770.00 ft (KB) (TVD)

Total Depth: 4770.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2541.00 ft (KB)

2531.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8676 Outside

Press @ Run Depth: 125.80 psig @ 4686.00 ft (KB)

Start Date: 2013.06.19

End Date: 2013.06.19

Start Time: 09:27:38

End Time: 21:39:33

Capacity: 8000.00 psig

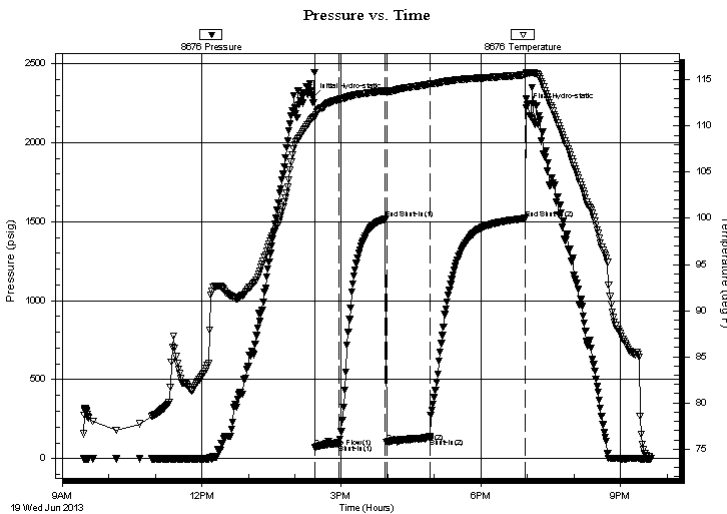
Last Calib.: 2013.06.19

Time On Btm: 2013.06.19 @ 14:23:18

Time Off Btm: 2013.06.19 @ 18:58:33

TEST COMMENT: IF: Fair blow 41/4"
IS: No blow back
FF: No blow
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.48	110.88	Initial Hydro-static
3	70.77	110.91	Open To Flow (1)
34	92.08	112.88	Shut-In(1)
93	1516.87	113.76	End Shut-In(1)
96	105.14	113.70	Open To Flow (2)
151	125.80	114.49	Shut-In(2)
274	1520.39	115.54	End Shut-In(2)
276	2223.94	115.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MUD 100%	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

23-26-22 Ford co

2020 Bramblewood
Wichita KS 67206

Tasset # 1-23 X

Job Ticket: 47505

DST#: 1

ATTN: Evan Mayhew / Ed Grie

Test Start: 2013.06.19 @ 09:27:33

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: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	MUD 100%	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

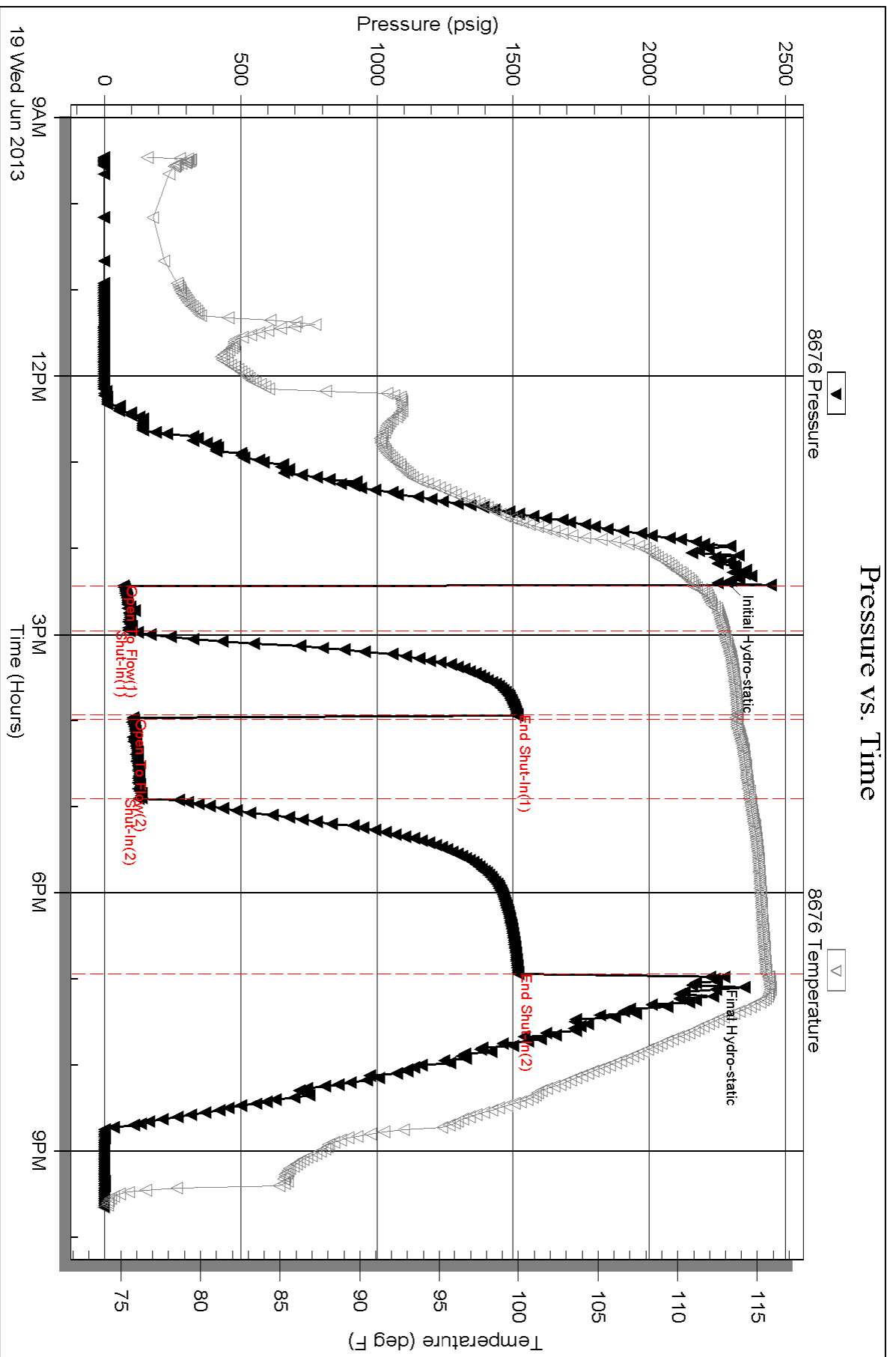
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

23-26-22 Ford co

2020 Bramblewood
Wichita KS 67206

Tasset # 1-23 X

Job Ticket: 47506

DST#: 2

ATTN: Evan Mayhew / Ed Grie

Test Start: 2013.06.21 @ 04:06:07

GENERAL INFORMATION:

Formation: **Cherokee-- Mississip**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:28:07

Time Test Ended: 14:56:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Chris Staats

Unit No: 47

Interval: 4784.00 ft (KB) To 4910.00 ft (KB) (TVD)

Total Depth: 4910.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2399.00 ft (KB)

2386.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8676 Outside

Press @ RunDepth: 71.03 psig @ 4785.00 ft (KB)

Start Date: 2013.06.21

End Date: 2013.06.21

Start Time: 04:06:12

End Time: 14:56:37

Capacity: 8000.00 psig

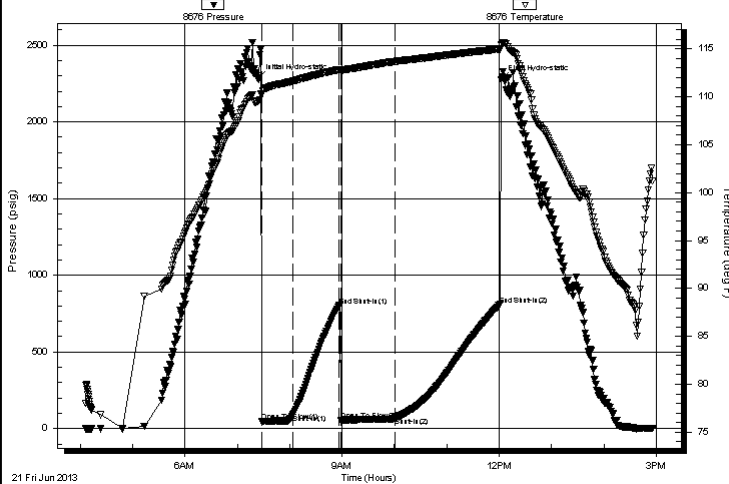
Last Calib.: 2013.06.21

Time On Btm: 2013.06.21 @ 07:23:52

Time Off Btm: 2013.06.21 @ 12:02:07

TEST COMMENT: IF: Weak blow 1"
IS: No blow back
FF: No blow
FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2282.02	109.56	Initial Hydro-static
5	45.60	110.24	Open To Flow (1)
40	90.90	111.62	Shut-In(1)
93	801.03	112.83	End Shut-In(1)
95	55.56	112.72	Open To Flow (2)
157	71.03	113.69	Shut-In(2)
277	805.42	114.98	End Shut-In(2)
279	2274.85	115.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

23-26-22 Ford co

2020 Bramblewood
Wichita KS 67206

Tasset # 1-23 X

Job Ticket: 47506

DST#: 2

ATTN: Evan Mayhew / Ed Grie

Test Start: 2013.06.21 @ 04:06:07

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	Mud	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

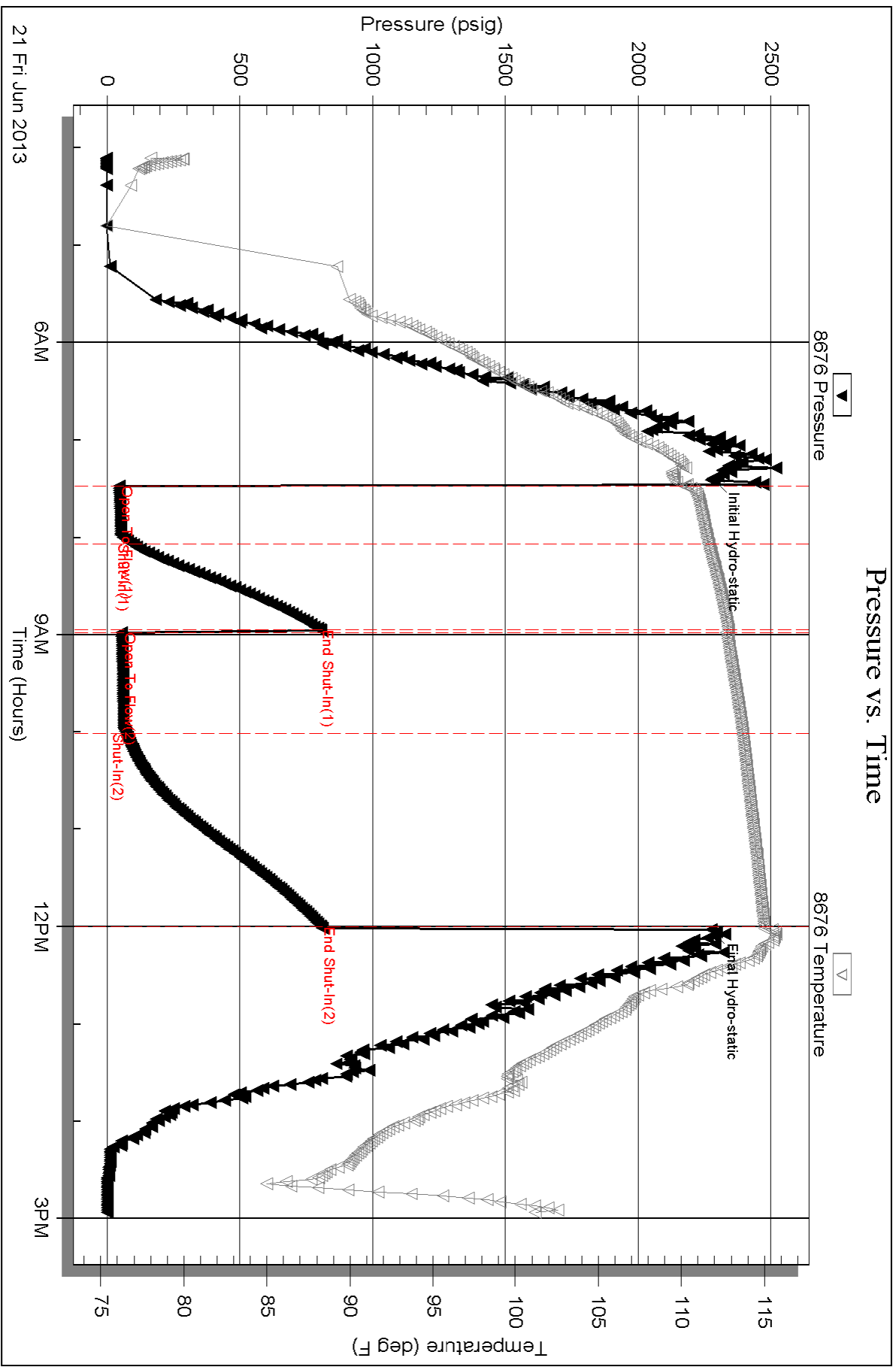
Recovery Comments:

Serial #: 8676

Outside Berexco LLC

Tasset # 1-23 X

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47506

Printed: 2013.06.21 @ 15:46:22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 Bramblewood
Wichita KS 67206
ATTN: Evan Mayhew / Ed Grie

23-26-22 Ford co
Tasset # 1-23 X
Job Ticket: 47507 **DST#: 3**
Test Start: 2013.06.22 @ 03:36:27

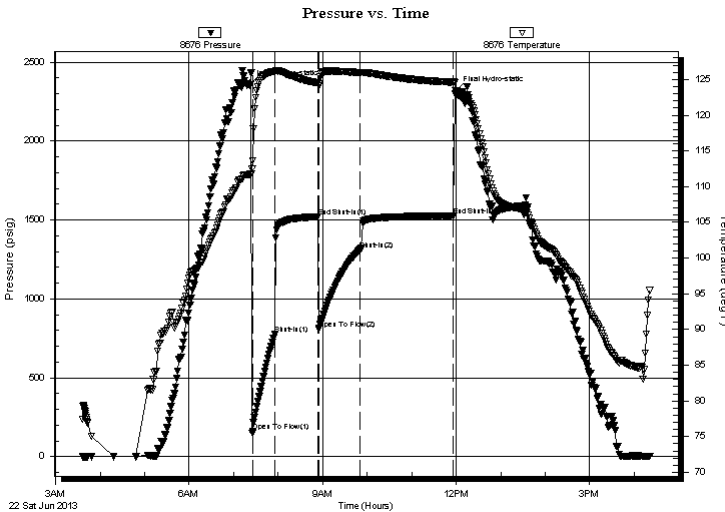
GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:25:27
Time Test Ended: 16:21:42
Interval: **4908.00 ft (KB) To 4938.00 ft (KB) (TVD)**
Total Depth: 4938.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Chris Staats
Unit No: 47
Reference Elevations: 2399.00 ft (KB)
2386.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8676 Outside
Press @ Run Depth: 1310.95 psig @ 4909.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.06.22 End Date: 2013.06.22 Last Calib.: 2013.06.22
Start Time: 03:36:32 End Time: 16:21:42 Time On Btm: 2013.06.22 @ 07:22:12
Time Off Btm: 2013.06.22 @ 11:59:27

TEST COMMENT: IF: Strong blow BOB 3 min
IS: No blow back
FF: Strong blow BOB 3 min
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2355.87	111.72	Initial Hydro-static
4	158.66	113.64	Open To Flow (1)
33	773.81	126.10	Shut-In(1)
91	1521.45	124.50	End Shut-In(1)
93	807.61	124.08	Open To Flow (2)
148	1310.95	125.95	Shut-In(2)
274	1526.09	124.61	End Shut-In(2)
278	2322.43	123.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2530.00	Water 100%	33.09
270.00	M,W 20% mud 80% water	3.79

* 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

23-26-22 Ford co

2020 Bramblewood
Wichita KS 67206

Tasset # 1-23 X

Job Ticket: 47507

DST#: 3

ATTN: Evan Mayhew / Ed Grie

Test Start: 2013.06.22 @ 03:36:27

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:

27 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2530.00	Water 100%	33.093
270.00	M,W 20% mud 80% water	3.787

Total Length: 2800.00 ft Total Volume: 36.880 bbl

Num Fluid Samples: 0

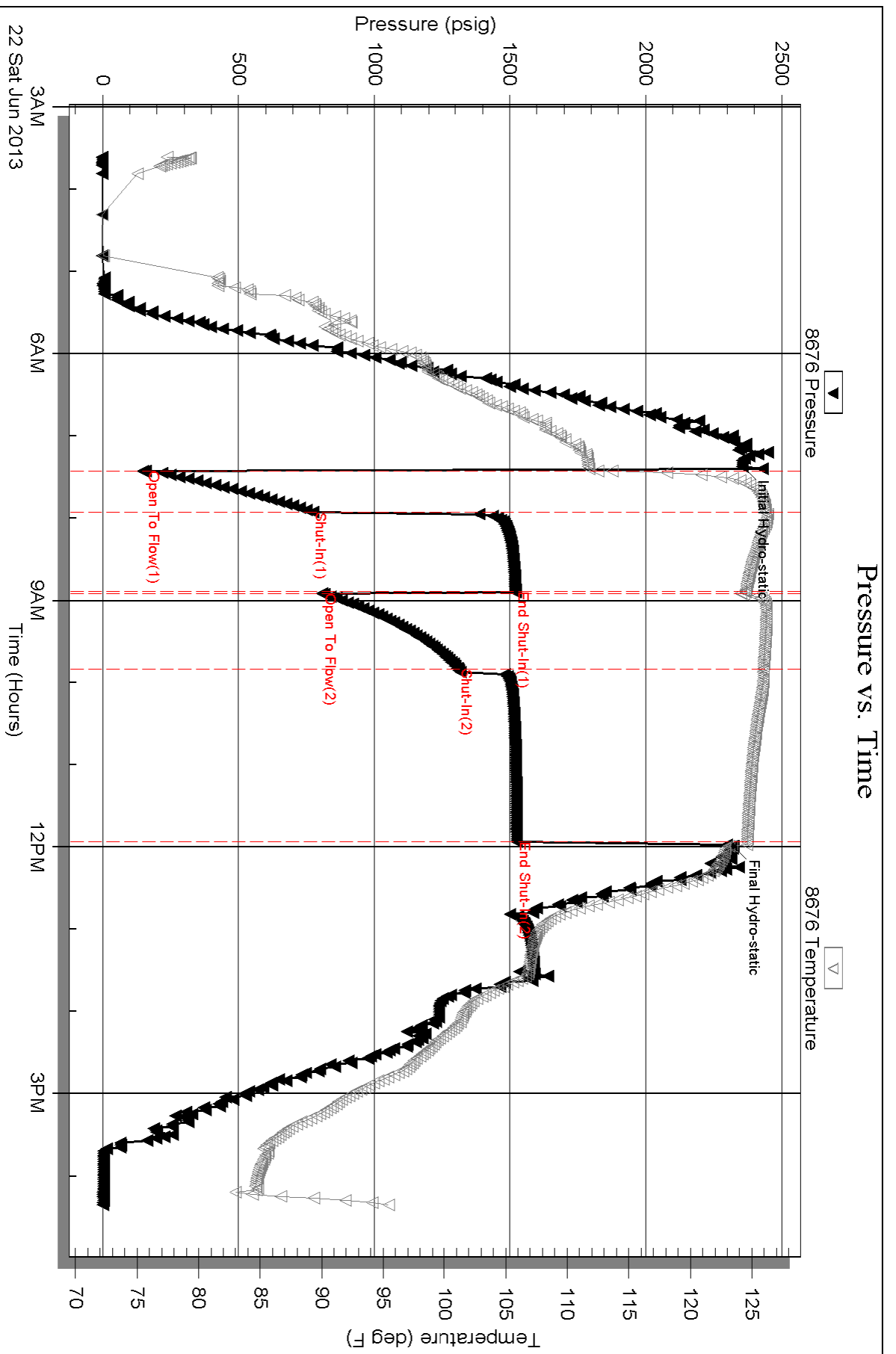
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

15-057-20899.

COMPANY **BEREXCO LLC**

LEASE **TASSET** NO. **L23X**

LOCATION **660FNL & 610FWL**

SEC. **23** TWP. **26S** RANG. **22W**

COUNTY **FORD** STATE **KANSAS**

FIELD **WILDCAT**

CONTRACTOR **BEREXCO DRILL RIG NO 2**

COMM. **6-7-2013** COMP. **6-24-2013**

RTD **5050** LTD **5057**

No. of DST'S **3** No. of CORES **NONE**

SAMPLES SAVED FROM **4000** TO **TD**

DRILLING TIME KEPT FROM **4000** TO **TD**

SAMPLES EXAMINED FROM **4000** TO **TD**

GEOLOGICAL SUPERVISION FROM **4000** TO **TD**

GEOLOGIST ON WELL **EDWIN H. GRIEVES**

FORMATION TOPS

FORMATION	SAMPLE	LOG	SUBSEA
BASE HEIBNER	4119	4121	-1723
TORONTO	4197	4133	-1734
LANISING FM.	4232	4233	-1834
LANISING 'G'	4347	4350	-1951
MARMATON	4673	4666	-2267
CHEROKEE	4821	4798	-2399
MISSISSIPPI	4898	4908	-2509
TD	5050	5057	

ELEVATIONS

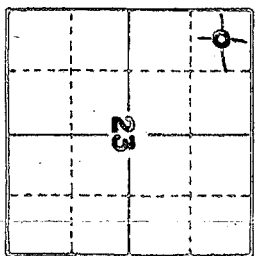
KB **2399**
DF **2396**
GL **2386**

MEASUREMENTS ARE ALL FROM **KB**

CASING RECORD

SIZE	WT.	ST.
8.625" ID	50.9	W / ST.
6.75" ID	30.9	W / ST.
5.0" ID	20.9	W / ST.

EL. LOG AND SPGR. DENNUT. GR. CALIPER ML. SONIC



API NO. 15-057-20899

REMARKS **Earth-Tech (1-888-543-8378) had an unmanned gas detection trailer on this well from 4000 to total depth.**

Thank You,
 Edwin H. Grievess
 Geologist

LITHOLOGY

SANDSTONE	SILTSTONE
LIMESTONE	DOLOMITE
SHALE	GRANITE WASH
CHERT	ANHY & GYP

CHROMATOGRAPH

HOT WIRE BY TOTAL GAS VOLUME

C1 = METHANE
 C2 = ETHANE
 C3 = PROPANE
 C4 = ISOBUTANE
 C5 = BUTANE
 C6 = ISOPENTANE
 C7 = PENTANE

DRILL TIME SCALE	SAMPLE DESCRIPTION	GAS SCALE
5 10 15	4000	10 100 1000
	<p>Interbedded Limestones (1) Faster Drilg. Lms. trs. wht. to crm - chlk + lt. tan to tan; crypto. to vv. fn. xln. v. to extrly. oolitic (tan w/ trs grx. lps), matrix sub-chlk, sub-sucro to sucro. + trspackstn, du. l. ft.</p>	<p>CHROMATOGR. S10 CRIAPS</p>

v. to extrly oolitic (tan w/ trs
gry. IP's) matrix sub-chlk, sub-sucro
to sucro. + trs packstn, dul. H.
to trs. H. yel-fluor; No Cut;
abn. pr. to fr. micro-pp. por. &
prob. interxln por

② Slower Drlg. Lms. Lt. gry, grayish
tan to tan; crypto. to v.v. fn. xln;
sub-chlk, sub-sucro + packstn;
sli trs. oolitic IP's; dul. H. yel.
fluor; No Cut; No Vis. Por.

③ trs. chert wht, gry. to tan;
opaque

4100

Sh. v. drk. gry. to black-carb
Lms. grayish tan to tan; crypto to
v.v. fn. xln; sub-sucro + packstn;
dul. H. yel. fluor; No Cut; No Vis Por.

Sh. Lt. gry. to lt. green, silty IP's

Lms. Lt. tan to tan; mottled IP's drk
tan to brown; crypto. to v.v. fn. xln;
sub-chlk, sub-sucro to sucro; dul. yel
to trs yel. fluor; No Cut; hvy. trs. to abn
pr. to fr. + trs. qd. to excel. micro-pp
& interxln por.

Interbedded Limestones + Shales
① Lms. Lt. gry. to tan; crypto to v.v. fn. xln
sub-chlk, sub-sucro + packstn;
trs. phantom oolitic; dul. H. yel.
fluor; No Cut; No Vis Por.

② Sh. med. to v. drk. gry; sli to very
calc. IP's

Sh w/ scattered interbeds Lms
similar to Shs + Lms 4154-4184

4200

Lms Lt. gry. to tan; crypto to v.v. fn.
xln; sub-chlk + packstn; trs. w/ dul. yel
fluor; No Cut; No Vis Por

Lms. abn. wht to cream-chlk + tan; crypto
to v.v. fn. xln; sub-chlk, sub-sucro to
trs. sucro. + packstn; abn. phantom
oolitic; dul. H. to trs. H. yel. fluor; No
Cut; hvy. trs. w/ pr. to fr. micro-pp por

Lms. grayish. tan to tan; crypto to v.v. fn.
xln; trs. sub-chlk, sub-sucro and
packstn. w/ trs. sub-lithogr.; dul. yel
fluor. IP's; No Cut; No Vis Por

Lms. hvy. trs. wht. to cream-chlk + H. tan
to tan; crypto. to v.v. fn. xln; sub-chlk
sub-sucro + packstn; abn. phantom
oolitic; dul. yel. fluor. IP's; No Cut
hvy. trs. poor micro-pp. porosity;
w/ trs. chert, gry to tan; opaque to
sli. trs. transsl.

Interbedded Limestones w/ trs Chert
① Faster Drlg. Lms. trs. to abn wht. to
cream-chlk + H. tan to tan; crypto to
v.v. fn. xln; mostly sli. to v. oolitic;
sub-chlk, sub-sucro to trs sucro
& trs. packstn; dul. H. yel. fluor;
No Cut; hvy. trs. poor to trs. fine
micro-pp. por

② Shower Drlg. Lms. Lt. gry, grayish.
tan to tan; crypto. to v.v. fn. xln;
trs. sub-chlk, sub-sucro + packstn;
trs. foss; trs. w/ dul. yel. fluor;
No Cut; No Vis Por

③ trs. to hvy. trs. Chert gry. to tan
opaque

Lms. Lt. gry. to tan; crypto to tanned

SHO
CRAPS

TRAP CHECK

WOB 38000
RPM 80
SPM 50
PP 1200

Base Heebner
4119-1710

SELK. SH. 1220

WOB 38000
RPM 80
SPM 54
PP 1000

SHOW 350

Toronto
4137-1738

CFS

WOB 38000
RPM 80
SPM 54
PP 300

Lausing Fa
4232-1833

TRAP CHECK

4300

Lausing "G"
4347-1948

1 in 10 3/4; crypto. to v. v. in
trs. sub-chlk; sub-sucro & packstn
trs. ferr; trs w/ dull yel. fluor;
No cut; No Vis por

② trs. to hv. trs. Chert gray to tan
opaque

Lms. lt. gray to tan; crypto to med
xln; w/ hv. trs med. to coarse
wht. calc. xls & fragm; phantom
oolitic for phantom oolitic shells
trs. ferr - Re-sized IP's; H. yel. fluor
No cut; zbn. pr. to excel. vug
p.p.; micro pp & interxln por

Lms. zbn. wht. to cream-chlk & H. gray
to tan; zbn. sub-chlk, sub-sucro
& packstn; dull yel. fluor; No cut
No Vis por; w/ v. zbn. Chert
wht. gray to tan; opaque to transl.

Lansing "G"
4347-1948

TRAP CHECK

4400

Lms. H. gray; crypto. xln; packstn to
trs. sub-lithog. v. dull H. yel. fluor
No cut; No Vis por
Sh v. drk gray to black-carb.
Lms. similar 4406-4410

BLK SH. 5U

Sh med to drk gray w/ trs black.

Lms. H. gray to tan; crypto. to v. in xln
trs. sub-chlk, sub-sucro & packstn;
trs. phantom oolitic; dull yellow
fluor; No cut; No Vis porosity

Sh. med to drk gray
Lms. H. gray, crypto xln v. to extaly
oolitic str. for v. to extaly oolitic
matrix packstn; v. dull yel. fluor
No cut; zbn. pr. to excel. oolitic
por. No Perm

Lms. lt. gray to tan; crypto to v. v. in
xln; sub-chlk, sub-sucro and
packstn; dull yel. fluor; No cut
No Vis porosity

WORKED ON DETECTION
UNIT

Interbedded Limestones w/ trs Chert

① Faster Drilg Lms. hv. trs. wht. to cream
chlk & H. to tan; cavitate to v. xln. zbn
phantom oolitic to oolitic for zbn
phantom oolitic to oolitic
matrix chlk; sub-chlk; sub-sucro
to trs. sucro & trs packstn; dull H.
to H. yel. fluor; No cut; zbn. pr. to
to qd. oolitic. p.p. to micro pp
por; Quest. Perm

4500

② Slower Drilg. Lms. lt. to tan; crypto
v. v. in xln; sub-chlk, sub-sucro, packstn
& sub-lithog.; dull yel. fluor. IP's
No cut; No Vis por

③ trs. Chert gray to tan; opaque
Sh med to v. drk. gray - slt. calc. IP's
to v. drk. gray to black-carb.

BLK SH. 22U

Lms. trs. wht. to cream-chlk & tan;
grayish IP's; crypto. to v. v. in xln;
sub-chlk, sub-sucro to trs sucro
& packstn; trs. to zbn. oolitic;
dull H. to trs. H. yel. fluor; No cut
scattered trs. poor micro pp por

RECYCLE 15U

Lms. H. gray, grayish, tan to tan
crypto. to v. v. in xln; sub-chlk,
sub-sucro, packstn & sub-lithog.
w/ dull yel. fluor; No cut; No Vis por
Sh med to drk. gray - greenish trs
to v. drk. gray to black-carb.
Lms. similar 4566-4577 & Sh med
to v. drk. gray

BLK SH. 34U

Show

Lms. zbn. wht. to cream-chlk & tan; crypto to
v. v. in xln; sub-chlk, sub-sucro to sucro
faint oil der. trs sptd. zbn oil str
gl. yel. to yel. fluor w/ zbn milky cut
to trs. flush cut & sptd. strung cut
hv. trs pr. to excel. vug. p.p.;
p.p.; micro pp por & poss interxln
por IP's

4600

Lms. trs. wht. to cream-chlk & tan; grayish IP's
crypto. to v. v. in xln; sub-chlk, sub-sucro
& packstn; sub-lithog. & dull H. yel. fluor; No cut
No Vis por

Show

Lms. zbn. wht. to cream-chlk & cream to tan;
crypto. to v. v. in xln; sub-chlk, sub-sucro to
sucro & packstn; fragm. km IP's prob
Kest material solution and
re-sized. Fair oil der. w/ zbn
sptd. drk tan to tan, oil sh; but
gl. yel. fluor; flush to excel
strung. cut; zbn. pr. to pathy trs
qd. to excel solution. vug. p.p.

Show

4594-4597
SU INCREASE
LOW MUD VOL. ON RECYCLE

28U
SHOWS
27U

PK chert & sub-lithog ridal Hyekimor; No cut
No Vis for
Lms 2 bn. whit to crm-chlk & crm to tan,
crypto. to v. fine, sub-chlk, sub-sucro to
sucro & packstn; fragm. km IP's Prob
Kzst material solution and
reylzed; fair oil oder w/abn
sp'd drk tan to brn oil sh; brt
gl'den yel-fluor; flush to excel
strung cuts; 2bn. p.r to fr thvts
gd to excel solution, vug. pp,
micro-pp por w/hv t as ph. to ind
interxln por from Resl. to suro
4625-53 Lms. lt gray-shly IP's to tan
crypto to v. fine, sub-chlk & shly
I.R.S sub-sucro to packstn; dul. yel-fluor
No cut; No Vis for

Sh lt. to med. gray, slits to extly
calc. to drk gray to blk-carb
looking & Red & Maroon trash
looking shs
Lms. lt gray to tan, crypto. to v. fine
slit. tas. sub-chlk, frs. sub-sucro, packstn
& tas sub-lithog; dul. yel-fluor; No cut
No Vis for w/hts chert gray to tan; opaque
4689-93 Lms. lt gray to tan w/abn. sp'd
drk tan to brn oil sh w/hts five oil;
crypto. to v. fine, sub-chlk, sub-sucro
to sucro & packstn; solution & Resl. to
to gl'den yel-fluor; flush to excel
strung cuts; 2bn. p.r to fr thvts
gd to exc. solution & vug. pp
por; interxln por in parts

4693-4703 Lms w/Chert similar
4673-4689
4703-4730 Lms. hv. trs to abn wht. to
CRM-chlk & Htan to tan, grayish IP's
w/abn. drk tan to brn. sp'd. oil sh;
tas. live oil; fair oil oder; crypto to
v. fine, sub-chlk, sub-sucro to
sucro, & packstn; solution & Resl. to
along frs.; fragm. km. IP's; dul.
gl'den to gl'den yel-fluor; flush to excel
strung cuts; 2bn. p.r to fr thvts
gd to exc. vug. pp, micro-pp por &
interxln por in sucro; Prob.

4730-4745 Lms. Similar 4703-30
w/extra abn chlk wht. to crm
Sh. v. drk. gray to blk-carb
Lms. abn. wht. to crm-chlk & grayish
tan w/abn. sp'd drk tan to brn. oil
sh. w/ gd to strong oil oder; crypto
to v. fine, sub-chlk, sub-sucro to
sucro, & packstn; frs. sub-lithog.
abn. phzntom colitic IP's; tas. live oil;
dul. gl'den to brt. gl'den yel-fluor; w/flush
to excel strung cuts; 2bn. p.r to fr thvts
gd to exc. excel of micro-pp & prob.
interxln por in parts; chert gray to tan; opaque
sh. v. drk gray to black-carb

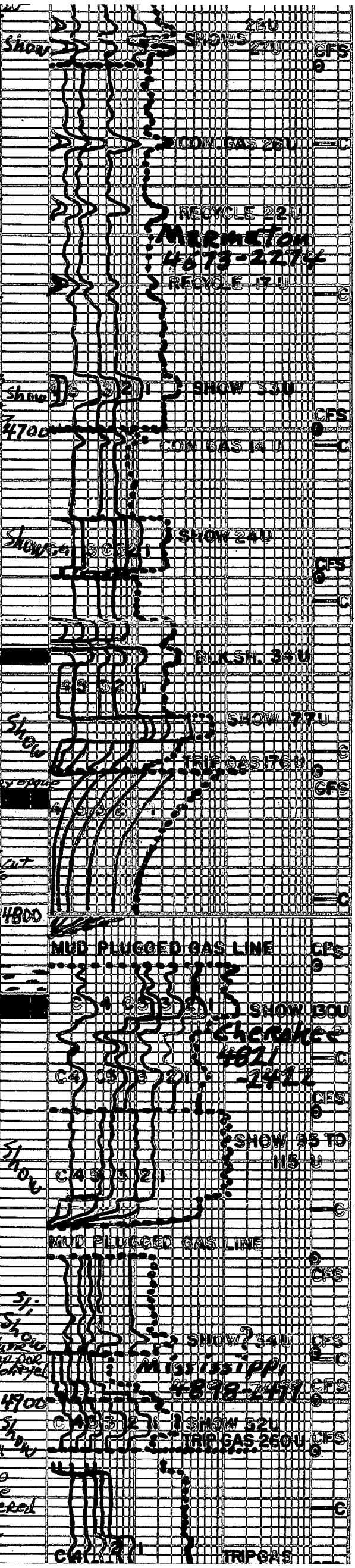
Limestones with Shales
Lms. trs to abn. wht. to crm-chlk & tan,
grayish. IP's; crypto. to v. fine, sub-chlk
sub-sucro & packstn; frs. phzntom wht
to frs colitic; dul. Htan to tan yel-fluor; No cut
No Vis for; w/hts to hv t as lms w/str
Even drk tan to brn. frs. oil sh; crypto
to v. fine, sub-chlk, sub-sucro to
sucro & packstn; frs. sub-lithog

Flush to gd strung cut w/p.r to tan p.p.,
micro-pp & poss interxln por
Sh med. to v. drk. gray-calc. IP's to
black-carb looking
Sh. med. to v. drk. gray-calc. to v. drk. gray
to black-carb

Lms. w/shs. similar 4770-4810
w/lms. becoming lt. gray IP's;
w/frs. show similar 4788-4810
4840-4857 Primarily Lms. tan,
grayish. IP's; crypto. to v. fine, sub-chlk
sub-sucro, & packstn; frs. sub-lithog; dul. yel-fluor. No cut; No Vis for
w/hts. to hv t as lms. frs. to tan, oil sh
crypto. to v. fine, sub-chlk, sub-sucro to
sucro & packstn; frs. sub-lithog; dul. yel-fluor
dul. gl'den to gl'den yel-fluor w/flush to gd
strung cuts; prob. along frs. to ind
w/abn. sh. med. to v. drk. gray to blk

Lms. & Shs similar 4840-4857
w/No Oil oder & only slits to frs
oil show, poss from uphole
Conglomerate Lms; Shs to chert
Lms. gray, tan to brn; crypto to tan, sub-chlk
frs. sub-sucro, & packstn; frs. sub-lithog; dul. yel-fluor; No cut; No Vis for
Fr & sl. frs. lms similar above w/hts
to frs sp'd. brn oil sh w/abn. sp'd. oil sh
w/flush to ind. hv t as lms w/str
overly ext shs gray, gray, frs. to tan, oil sh
Slit. frs. chert gray to tan opaque

Lms. Dolo. Lms to frs Dolo.; tan, grayish IP's
crypto to v. fine, sub-sucro to sucro &
2bn. p.r to fr thvts; fair oil oder; 2bn. sp'd
to frs even brn. oil sh; dul. gl'den to gl'den
yel-fluor. w/flush to gd. strung cuts
w/hv. frs. p.r. fr to fr thvts gd. pp, micro-pp
& prob. interxln por w/hv t as tan opaque
to frs; frs. to fr thvts; frs. to fr thvts
w/brn sp'd oil sh; gl'den yel-fluor; gd
strung cuts; frs. p.r. micro-pp por
Quest. Perm.
Dolo slit to frs. calc. IP's; extra abn wht



See Below

See Below

See Below

Kelly Show

w/brn sld oil slt; gld yel fluor; and
 strms cut str pr micro pp, box
 Quest: Perm.
 Dolo sli to faly. calc IP's; extr abn wht
 to crm-chlk + crm; H-tan totan;
 crypto to v-faxln; sub-chlk; sub-succo
 to succo; gld yel to yel fluor; No cut
 in ppt to ppt micro pp, box + totan
 gld to excel inter xll p.p.R.
 4945-52 Lms sli to faly dolo IP's

TAs. wht to crm-chlk + grayish
 tan totan; crypto to v-faxln
 trs sub-chlk; sub-succo and
 pack str; dnt yel-fluor; No cut
 No Vis for

4952-4992 Interbedded
 Dolomites + Limestones
 ① Faster Dolo. Dolo. similar 4928-45
 ② Slower Dolo. Lms sli. similar 4945-52

4992-5050 Limest. similar 4945-52
 w/ trs chert wht; gray totan;
 opque

TD 5050

7/8 inch Bit Info
 1. PDC 808-3399
 2. New Smith F.12 3399-4770
 3. Ream 2 hrs 4770-5050 TD
 3 1/2 7-1-0120

Cir. Points:
 1. 4160 6. 4730 11. 4890
 2. 4563 7. 4770 12. 4900
 3. 4601 8. 4810 13. 4910
 4. 4625 9. 4840 14. 4938
 5. 4700 10. 4870 15. 5050 TD

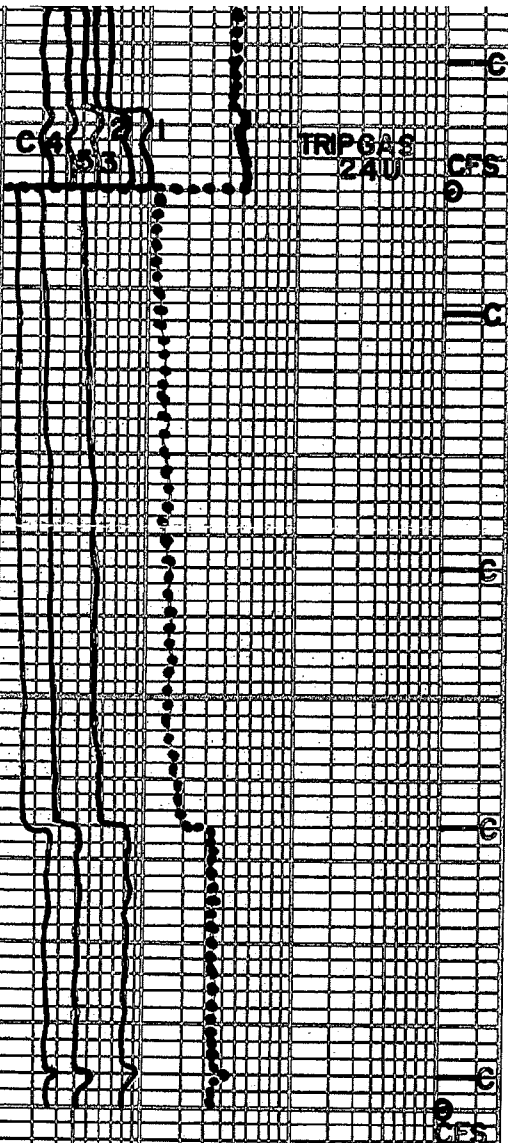
Dev. Suru.:
 1. 821 3/4 4. 2530 1° 7. 4720 1 1/2°
 2. 1318 1 1/2° 5. 2994 ?? 8. 4910 3/4°
 3. 2001 3/4 6. 3399 1 1/4° 9. 5050 1 1/4° TD

Daily Drilg. Progress:
 1. 4000 At 10:03 PM 6-16-13
 2. 4190 At 7:00 AM 6-17-13
 3. 4625 At 7:08 AM 6-18-13
 4. 4770 At 7:06 AM 6-19-13
 5. 4831 At 7:00 AM 6-20-13
 6. 4910 At 7:00 AM 6-21-13
 7. 4938 At 7:00 AM 6-22-13
 8. 5050 At 7:00 AM 6-23-13

DST#1 Marra, Alt. mont, Pawnee 4685-4770
 10. FR blow 4 1/2" FO. No Blow
 Rec 180 ft 100% Mud BHT 115°F
 IHP 2285#
 IFP 70-92# in 30 min
 ISIP 1516# in 60 min
 FFP 105-125# in 60 min
 FSIP 1520# in 120 min
 FHP 2223#

DST#2 Cherokee-Miss. 4784-4910
 10 Weak Blow 1" FO No Blow
 Rec 30 ft 100% Mud BHT 115°F
 IHP 2282#
 IFP 45-90# in 30 min
 ISIP 201# in 60 min
 FFP 55-71# in 60 min
 FSIP 805# in 120 min
 FHP 2274#

DST#3 Miss. Dolo 4908-4938



DST#2 Cherokee-Miss. 4784-4910

TO Weak Blow 1" FO No Blow
 Rec 30ft 100% Mud BHT 115°F
 IHP 2282#
 IFP 45-90# in 30 min
 1510 951# in 60 min
 FFP 55-71# in 60 min
 FSIP 805# in 120 min
 FHP 2274#

DST#3 Miss. Dolo 4908-4938

TO Strong Blow BOB 3 min
 FO Strong Blow BOB 3 min
 Rec 2800' fluid 270MW 802 Wt% 269 mud
 2530 Wt% 100 Wt%

BHT 125° Rw. 19 @ 92° F
 Chl 27000 ppm Pit Chl 8500 ppm
 IHP 2355#
 IFP 158-773# in 30 min
 1521# in 60 min
 FFP 807-1310# in 60 min
 FSIP 1526# in 120 min
 FHP 2322#

Mud Info:

Date	6-16 6:50A 1:30P	6-17 6:55A 1:5A	6-18 11:10A 7:30A	6-19 11:10A 7:30A	6-20 11:40A 12:15P	6-21 11:40A 12:15P	6-22 11:40A 12:15P	5-23 11:40A 12:15P
Depth	3650	3720	4210	4649	4770	4848	4910	4938
Wt	9.8	8.65	9.25	9.4	9.25	9.2	9.4	9.2
Vis	29	57	55	68	65	53	52	50
PV	2	16	15	18	18	14	16	16
YP	2	19	15	20	18	16	17	16
GS	2/3	1 1/2	1 1/4	2 1/4	1 1/2	1 1/4	1 1/2	1 1/2
WL	N/C	12.0	10.8	10.8	11.6	13.6	11.6	10.4
Clay	—	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.0	11.5	11.0	9.2	9.0	9.0	9.0	10.0
Chl	56000	9500	8300	5700	5800	7600	8500	5800
Ca	AVY	20	20	30	60	220	60	20
LCM	0	0	2	3	2	4	2	2

OPERATOR BEREXCO LLC LOCATION 660FNL & 610FWL
 LEASE TASSET NO. L-23X SEC. 23 TWP. 26S RANG. 22W
 ELEVATION 2399 RTD 5050 COUNTY FORD STATE KANSAS

ALLIED OIL & GAS SERVICES, LLC 059544

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge, KS

DATE <u>6-24-2013</u>	SEC. <u>23</u>	TWP. <u>26E</u>	RANGE <u>22N</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>6:30 AM</u>
LEASE <u>T9554</u>		WELL # <u>1-23X</u>		LOCATION <u>Fore, ks 1n, 1/4, 8n, 2e</u>		COUNTY <u>Fore</u>	STATE <u>Ks</u>
OLD OR <u>(NEW)</u> (Circle one)			S/into				

CONTRACTOR Berexco #2
 TYPE OF JOB Revery Pius
 HOLE SIZE 7 1/4 T.D.
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL 4 1/2 DEPTH 1400'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 3 bbls water, 14 bbls mud

OWNER Berexco
 CEMENT
 AMOUNT ORDERED 170 Sp 60! 40! 4! @ 6.67

COMMON	<u>A</u>	<u>102</u>	@	<u>17.90</u>	<u>1825.80</u>
POZMIX		<u>68</u>	@	<u>9.35</u>	<u>635.80</u>
GEL		<u>6</u>	@	<u>23.40</u>	<u>140.40</u>
CHLORIDE			@		
ASC			@		
			@		
			@		
			@		
			@		
			@		
			@		
			@		
			@		
HANDLING		<u>179.74</u>	@	<u>2.48</u>	<u>445.77</u>
MILEAGE		<u>7.60/40/2.60</u>			<u>790.64</u>
					TOTAL <u>3838.41</u>

EQUIPMENT

PUMP TRUCK CEMENTER Dgrin F
 # 471-265 HELPER JG Ke Id,
 BULK TRUCK
 # 381-252 DRIVER Dennis F
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

1st Pius - 1400 - 50sp Pump & bbls water check
mix 50sp, Displace 3 bbls water, 14 bbls mud
2nd Pius - 660 - 50 sp Pump 15 bbls water check
mix 50sp Cement, Displace 5 bbls water
3rd Pius - 60' mix 20sp Cement
Rgr hole - mix 30sp Cement
mouse hole - mix 20sp

SERVICE

DEPTH OF JOB	<u>1400'</u>		
PUMP TRUCK CHARGE	<u>2249.84</u>		
EXTRA FOOTAGE		@	
MILEAGE	<u>40</u>	@	<u>7.70</u> <u>308.00</u>
MANIFOLD		@	
<u>10 40</u>		@	<u>4.40</u> <u>N/C</u>
		@	

TOTAL 2257.84

CHARGE TO: Berexco
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>None</u>	@	
	@	
	@	
	@	
	@	

TOTAL _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Jarg T Wood
 SIGNATURE X [Signature]
Thank you!!!

SALES TAX (If Any) _____
 TOTAL CHARGES 6396.25
 DISCOUNT (Net) 4605.30 IF PAID IN 30 DAYS



CEMENTING LOG

STAGE NO. _____

Date 6-24-2013 District ML Ticket No. 54544
 Company Bereco Fig. Bereco #2
 Lease T9554 Well No. 1-23x
 County Fore State KS
 Location LIC Fore KS Field 23-26c-22n

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production LIner
 Size _____ Type _____ Weight _____ Collar _____

LEAD: Pump Time _____ hrs. Type 60!40!40!60e1
 Excess _____
 Amt. 170 Sks Yield 1.40 ft³/sk Density 14.8 PPG _____

Casing Depths: Top _____ Bottom _____

TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____
 WATER: Lead 6.7 gals/sk Tail _____ gals/sk Total 27 Bbls.

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

Pump Trucks Used 55 471-245
 Bulk Equip. 381-252

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. 70.32
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Freshwater Amt. 3 Bbls. Weight 8.34 PPG _____
 Mud Type 14 bbls mud Weight _____ PPG _____

COMPANY REPRESENTATIVE _____ CEMENTER Darin Franklin

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						1400'
	300			8	5	Pump 8 bbls water ahead
	300			12	5	mix 50 sp
	300			3	5	Displace 3 bbls water
	300			14	5	14 bbls mud
						660' - 50 sp
	100			15	5	Pump 15 bbls water ahead
	100			12	5	mix 50 sp cement
	100			5	5	Displace 5 bbls water
						60'
	100			5	5	mix 20 sp cement
						Rot hole
	100			7	3	mix 30 sp cement
						mouse hole
	100			5	3	mix 20 sp cement

MILLER PRINTERS, INC. - Great Bend, KS