



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1104106
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
-----------------------------------	-----------------	---

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: _____



1104106

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Katheryn 1-29
Doc ID	1104106

Tops

Name	Top	Datum
Heebner	3966	-1550
Lansing	4009	-1593
Marmaton	4446	-2030
Pawnee	4532	-2116
Ft. Scott	4554	-2138
Cherokee	5671	-2255
Mississippi	4740	-2324
RTD	4800	-2384
LTD	4789	-2373



CONSOLIDATED
Oil Well Services, LLC

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

W.P. ROY
W.P. ROY

TICKET NUMBER 37293
LOCATION Oakley, Ks
FOREMAN Walt Dunkel

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-25-12	1707	Katherine 1-29	29	235	43W	Haskell
CUSTOMER Berecoco Inc			Jetmore			
MAILING ADDRESS			South to			
CITY			Rd 6			
STATE			1E-W			
ZIP CODE			E+N			
TRUCK #		DRIVER		TRUCK #		DRIVER
399		Damon Miller		530-T129		Jordan Lowden

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 315' CASING SIZE & WEIGHT 8 5/8
 CASING DEPTH 315' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 1.5'
 DISPLACEMENT 19 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Safety Meeting, Rig up on Berecoco #2, circ casing on bottom
Mix 250 SKs com, 3% cf - 2% Gel, release Plug + Displace 19 BBL H2O
shut in

Cement Dial Care

Approx 6 BBL to RT

Thank You
Walt & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1,085.00	1,085.00
5406	40	MILEAGE	5.00	200.00
11045	250 SKs	Class A Cement	17.65	4,412.50
1102	705 #	Calcium Chloride	1.89	1,332.45
11183	470 #	Gel	1.25	587.50
5407A	11.75	Ton Mileage Delivery	16.9	198.42
4432	1	8 5/8 Wooden Plug	96.00	96.00
				7,323.27
Less 10% Disc				- 732.33
				6,590.94
SALES TAX				352.24
ESTIMATED TOTAL				6,943.16

Completed

AUTHORIZATION: Walter Williams 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

25UN32



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

Well Name: KATHERYN #1-29
 Location: SE NE NW SW SECTION 29 23S 23W
 License Number: 34317, API# 15-083-21859
 Spud Date: 10/25/2012
 Surface Coordinates: 2280' FROM SOUTH LINE OF SECTION
 1000' FROM EAST LINE OF SECTION
 Bottom Hole Coordinates: 2280' FROM SOUTH LINE OF SECTION
 1000' FROM EAST LINE OF SECTION
 Ground Elevation (ft): 2403' K.B. Elevation (ft): 2416'
 Logged Interval (ft): 3900 To: 4800 Total Depth (ft): 4800
 Formation: MISSISSIPPI
 Type of Drilling Fluid: CHEMICAL, ANDY'S MUD
 Region: HODGEMAN CO. KS.
 Drilling Completed: 1/05/2012

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

OPERATOR

Company: BEXEXCO
 Address: 2020 NORTH BRAMBLEWOOD
 WICHITA, KANSAS 67206

GEOLOGIST

Name: DAVID GOULD (LOGGER)
 Company: DMT COMPANY
 Address: 532 SUNRISE
 PRATT, KANSAS 67124

Well Name & No.: Katheryn #1 Company: Berexco Test No.: 1 Interval Tested: 4671 - 4678

Zone Tested: Cherokee Times: 15-30 Pull Test

Blow Description: IFP: BOB in 45 Sec. ISI: BOB in 4 Min. FFP: Pulled Test FSI: Pulled Test

Rec: 155 Feet of GO 40% Gas 60% Oil, 809 Feet of WGOCM 30% Gas 67% Oil 1% Water 2% Mud, 186 Feet of WGOCM 15% Gas 20% Oil 5% Water 60% Mud, 315 Feet of GIP Rec. Total: 1150', BHT: 121 Gravity: 37.2

Initial Hydrostatic: 2368 First Initial Flow: 103 First Final Flow: 406 Initial Shut-In: 1397

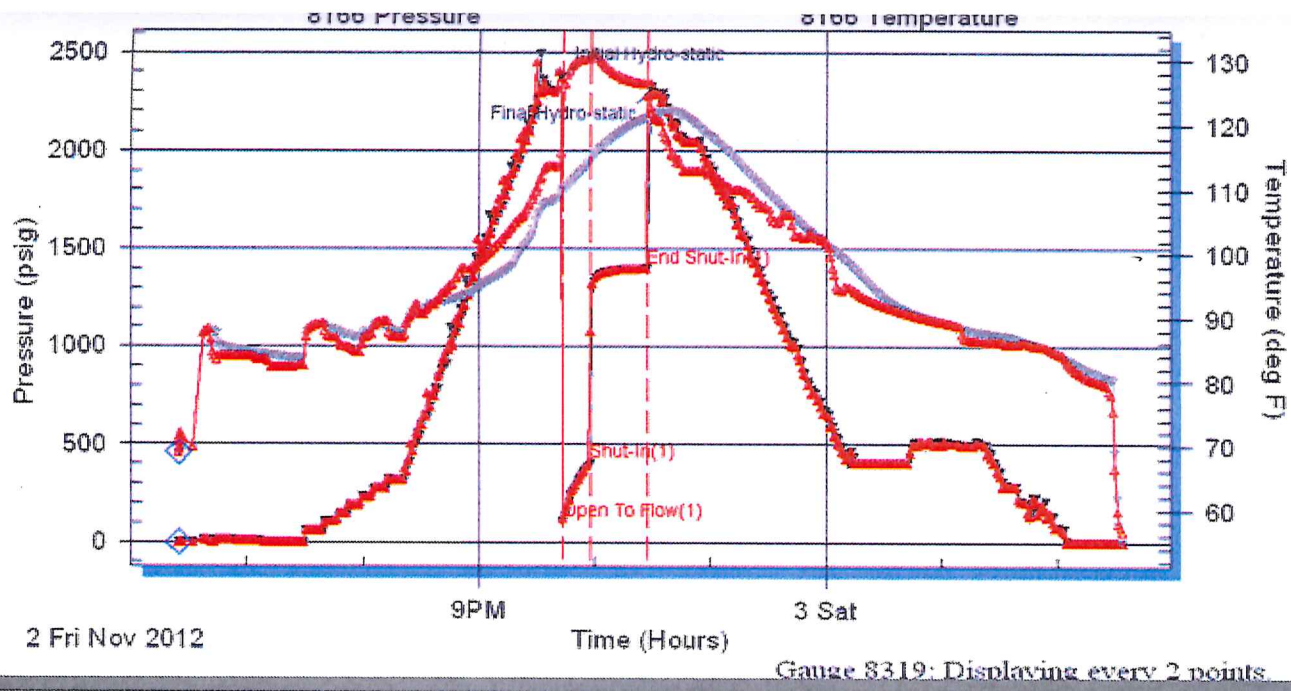
Second Initial Flow: N/A Second Final Flow: N/A Final Shut-In: N/A Final Hydrostatic: 2306

11/2/2012 21:48, 2276.232

Pressure vs. Time

8319 Pressure
 8166 Pressure

8319 Temperature
 8166 Temperature



Comments

CONTRACTOR:
BEREDCO RIG #2

BIT RECORD:

- #1 12 1/4 R7 RR 0 TO 310'
- #2 7 7/8 F27IY PX9046 310' TO 4678'
- #3 7 7/8 F27IY 4678' TO 4800'

SURVEYS;



- 310 0 DEGREES
- 1657' 1 1/4 DEGREES
- 2681' 1 1/4 DEGREES
- 4678' 3/4 DEGREES

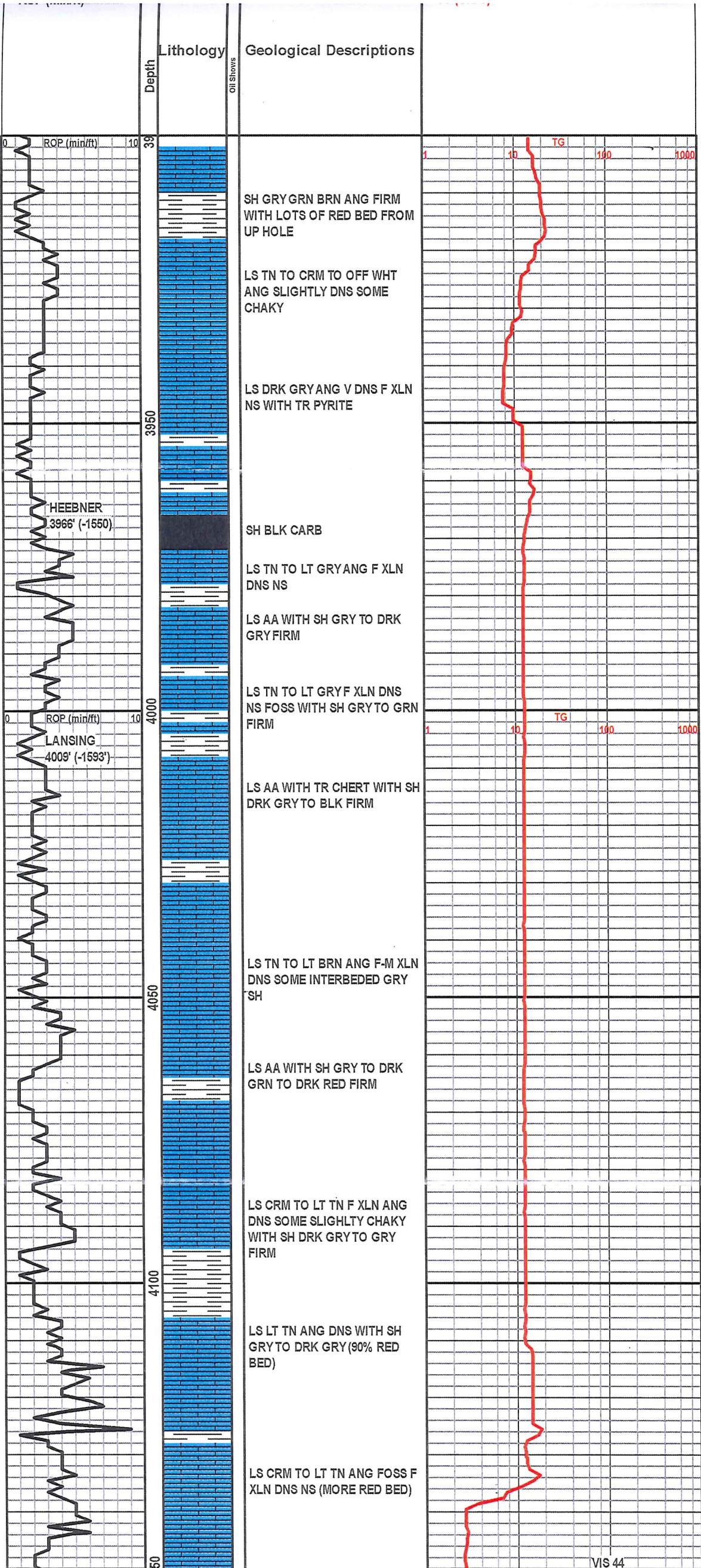
DAILY STATUS @ 7:00 AM:

- 10/25/2012, SPUD
- 10/26/2012, SET 310' SURFACE DRILL AHEAD TO 1490'
- 10/27/2012, 2550' DRILL AHEAD
- 10/28/2012, 3150' DRILL AHEAD
- 10/29/2012, 3600' DRILL AHEAD
- 10/30/2012, 4125' DRILL AHEAD
- 10/31/2012, 4340 DRILL AHEAD
- 11/01/2012, 4640 DRILL AHEAD & DST #1
- 11/02/2012, 4678' DST #1
- 11/03/2012, 4678 DRILL AHEAD
- 11/04/2012, 4800'

ROCK TYPES

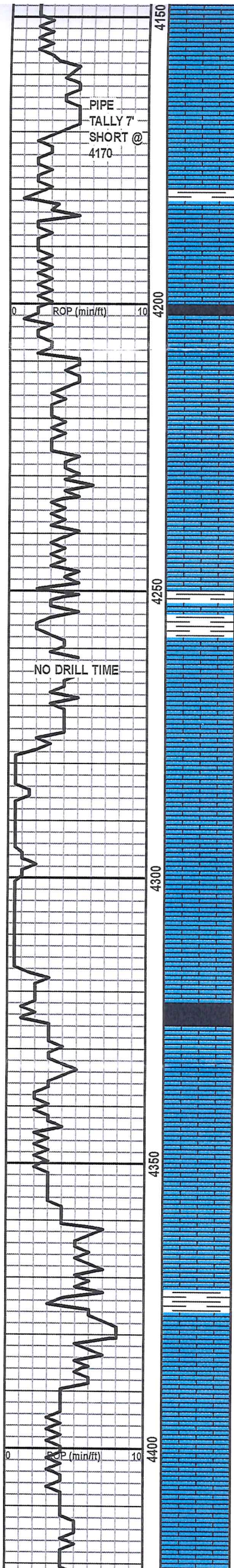
 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

Curve Track 1				
ROP (min/ft) 			TG (Units) 	TG



HEEBNER
3966' (-1550)

LANSING
4009' (-1593')



MOSTLY RED BED 95% WITH LS
LT TN ANG F XLN F POR DNS
NS

LS AA WITH 95 % RD BED

LS TN TO BRN ANG F XLN DNS
NS WITH LS OFF WHT F XLN
CHAKY SOFT FOSS

SH BLK CARB

LS TN TN TO BRN ANG F-M XLN
DNS WITH LS OFF WHT AA

LS TN TO CRM TO LT GRY ANG
F XLN WITH INTERBEDDED
PYRITE DNS NS

LS CRM TO LT TN ANG F XLN
SLIGHTLY CHAKY SH GRY TO
LT GRY FIRM

LS AA WITH SOME SLIGHTLY
VUGGY WITH CHERT DRK BRN
SHARP V DNS WITH TR PYRITE

LS LT TN TO LT GRY ANG F XLN
DNS WITH SOME SLIGHTLY
OOLICATIC NS N FLOR N CUT
N ODOR

LS LT TN ANG G OOLIC POR F
XLN N FLOR N CUT N ODOR NS
WITH LS DRK BRN FOSS ANG F
XLN DNS

SH BLK CARB

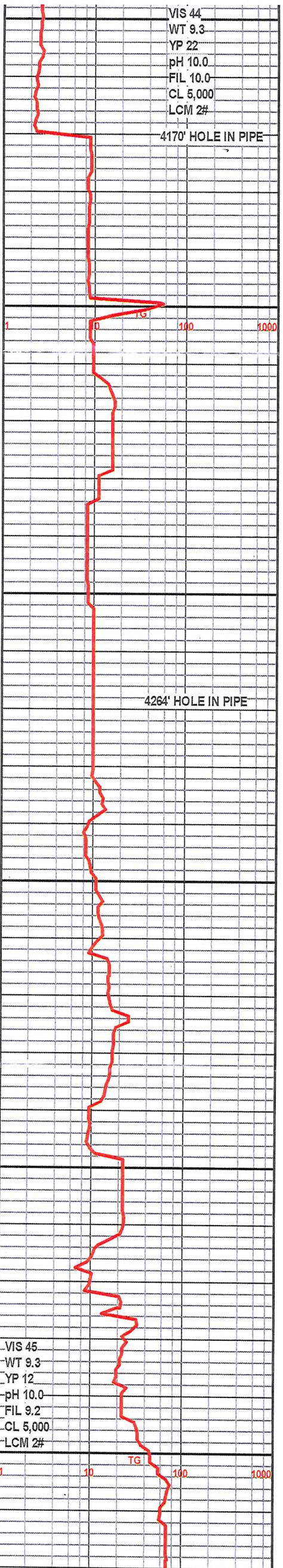
LS TN TO LT GRY ANG F XLN
SLIGHTLY VUGGY DNS NS WITH
LS OFF WHT TO LT TN CHAKY

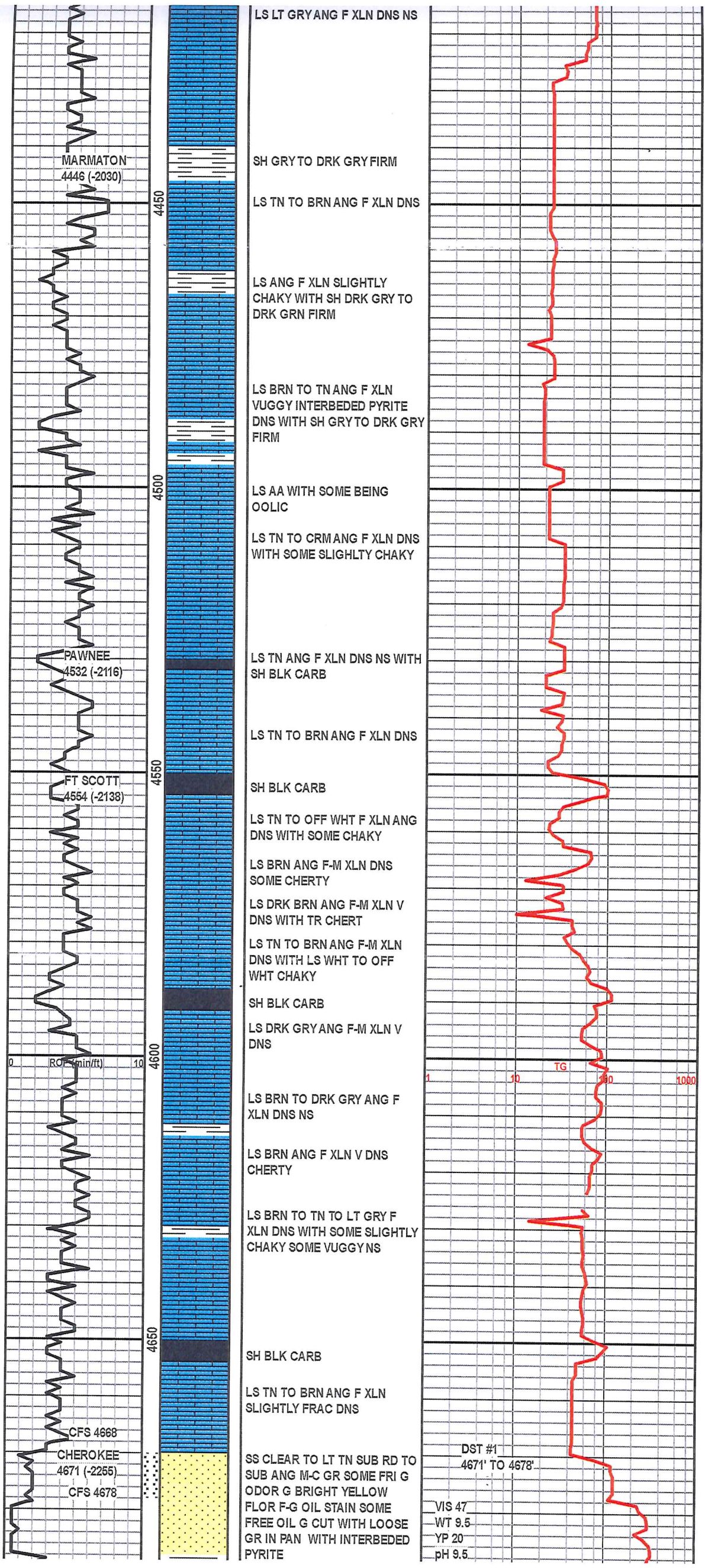
LS AA WITH LS DRK BRN ANG
V DNS WITH SH GRY TO DRK
GRY FIRM

LS CRM TO TN ANG FXLN DNS
WITH TR CHERT WHT SHARP V
DNS

LS TN ANG OOLIC VUGGY F
XLN DNS WITH LS BRN TO DRK
GRY ANG F XLN DNS WITH
SOME LS TN TO CRM CHAKY

LS LT GRY ANG F XLN DNS NS





MARMATON
4446 (-2030)

4450

SH GRY TO DRK GRY FIRM

LS TN TO BRN ANG F XLN DNS

LS ANG F XLN SLIGHTLY
CHAKY WITH SH DRK GRY TO
DRK GRN FIRM

LS BRN TO TN ANG F XLN
VUGGY INTERBEDED PYRITE
DNS WITH SH GRY TO DRK GRY
FIRM

LS AA WITH SOME BEING
OOLIC

LS TN TO CRM ANG F XLN DNS
WITH SOME SLIGHTLY CHAKY

4500

PAWNEE
4532 (-2116)

4550

LS TN ANG F XLN DNS NS WITH
SH BLK CARB

LS TN TO BRN ANG F XLN DNS

SH BLK CARB

LS TN TO OFF WHT F XLN ANG
DNS WITH SOME CHAKY

LS BRN ANG F-M XLN DNS
SOME CHERTY

LS DRK BRN ANG F-M XLN V
DNS WITH TR CHERT

LS TN TO BRN ANG F-M XLN
DNS WITH LS WHT TO OFF
WHT CHAKY

SH BLK CARB

LS DRK GRY ANG F-M XLN V
DNS

4600

0 ROF (min/ft) 10

LS BRN TO DRK GRY ANG F
XLN DNS NS

LS BRN ANG F XLN V DNS
CHERTY

LS BRN TO TN TO LT GRY F
XLN DNS WITH SOME SLIGHTLY
CHAKY SOME VUGGY NS

4650

SH BLK CARB

LS TN TO BRN ANG F XLN
SLIGHTLY FRAC DNS

CFS 4668

CHEROKEE
4671 (-2255)

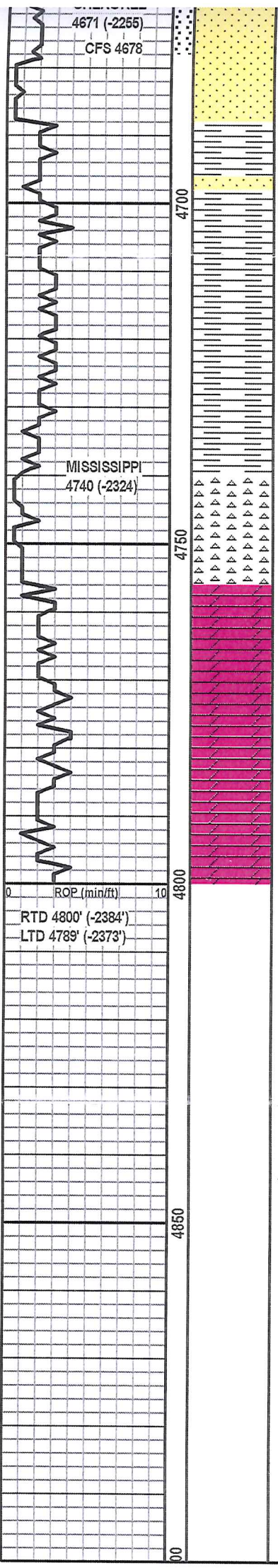
CFS 4678

SS CLEAR TO LT TN SUB RD TO
SUB ANG M-C GR SOME FRI G
ODOR G BRIGHT YELLOW
FLOR F-G OIL STAIN SOME
FREE OIL G CUT WITH LOOSE
GR IN PAN WITH INTERBEDED
PYRITE

DST #1
4671' TO 4678'

VIS 47
WT 9.5
YP 20
pH 9.5

1 10 TG 100 1000



SS CLEAR TO LT IN SUB RD TO
 SUB ANG M-C GR SOME FRI G
 ODOR G BRIGHT YELLOW
 FLOR F-G OIL STAIN SOME
 FREE OIL G CUT WITH LOOSE
 GR IN PAN WITH INTERBEDED
 PYRITE

SS AA WITH SH BRIGHT GRN
 SOFT TO FIRM WITH
 INTERBEDED PYRITE WITH
 SOME SH GRY TO DRK GRY
 SILTY SOFT

SH GRY TO DRK GRY TO GRN
 TO BLK FIRM

SH AA WITH SH BRIGHT GRN
 FIRM WITH TR PYRITE

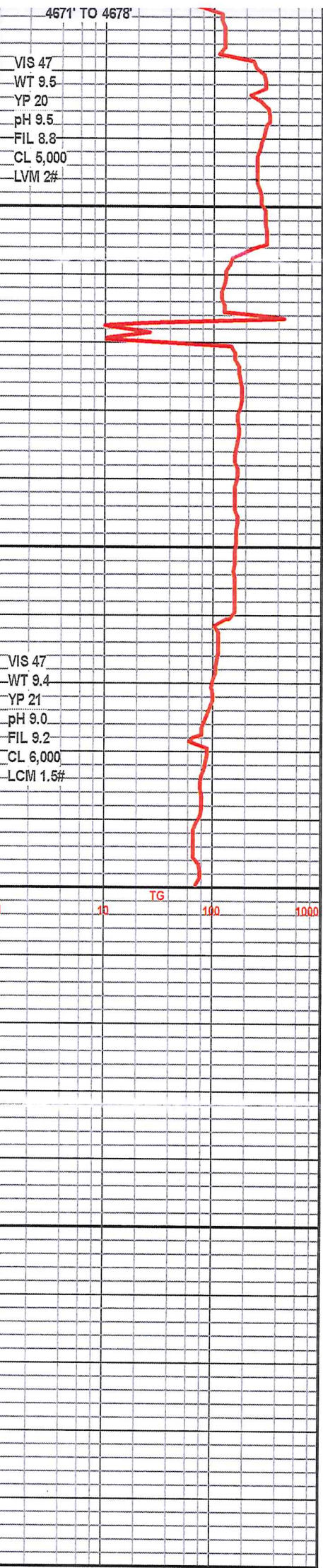
CHERT WHT TO TN TO LT GRY
 MOSTY SHARP WITH SOME
 BEING WHEATHERED SOME OIL
 STAIN N FLOR N CUT N FREE
 OIL DNS

DOL BRN TO DRK BRN
 SLIGHTLY LIMMY ANG F XLN
 DNS NS

DOL TN ANG F-M XLN DNS NS

DOL AA WITH TR PYRITE

DOL TN ANG F-VF XLN DNS N
 FLOR N CUT NS



4671 TO 4678

VIS 47
 WT 9.5
 YP 20
 pH 9.5
 FIL 8.8
 CL 5,000
 LVM 2#

VIS 47
 WT 9.4
 YP 21
 pH 9.0
 FIL 9.2
 CL 6,000
 LCM 1.5#

ROP (min/ft)

RTD 4800' (-2384')

LTD 4789' (-2373')

TG



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

TICKET NUMBER 37244
LOCATION Oakley
FOREMAN Fuzz4
miles 5

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-4-12	1707	KATHERYN 1-29	29	23	23	Hodgeman
CUSTOMER Bevexo LLC			Jct move			
MAILING ADDRESS			S. Rd G			
CITY			STATE			
ZIP CODE			16			
			1W			
			2.1N			
			TRUCK #			
			DRIVER			
			TRUCK #			
			DRIVER			
			399			
			Damon M			
			460			
			Jordan L			
			528-127			
			Mike M			
			Jeremy Ride along			

JOB TYPE 2 stage HOLE SIZE 7 7/8 HOLE DEPTH 4800' CASING SIZE & WEIGHT 5 1/2 15.5 35
CASING DEPTH 4792 DRILL PIPE _____ TUBING _____ OTHER DU Tool @ 1598
SLURRY WEIGHT 13.8-12.5 SLURRY VOL 1.42 . 1.89 WATER gal/sk _____ CEMENT LEFT in CASING 87 5'
DISPLACEMENT 111.9 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on Bevexo #2 Float equip costs 10' up #1
2,3,5,7,10,11,87 Baskets #2,75,73,89 DU Tool #24. Circ 1/2 hr
1/2 way in. Rig up circ 1 hr Pump 5 BBL water. Mix 200SKS 60/40 pos
800' 1/4" floeal w/ 5" Kolseal Tail with 125SKS OWC w/ 5" Kol-Seal. Wash
pump and lines. Drop plug and displace 70 BBLs water 40 1/2 BBLs mud
800' lift hand plug @ 1500' Drop DU Bomb @ pit 10 min open tool @ 1200'
Pump 5 BBL water mix 20SKS in MH, 30SKS RH mix 325SKS 60/40 pos
800' 1/4" floeal down 5 1/2 csg. wash pump and lines Drop plug and displace
38 BBL water. 600' lift Close DU Tool @ 1700'. Cement did
circulate approx 15 BBL @ pit & Thanks Fuzz4 & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54012	1	PUMP CHARGE	3020.00	3020.00
5406	40	MILEAGE	5.00	200.00
5407A	30.6	Tow mileage Delivery	16.7	2044.40
1126	125 SKS	OWC	22.55	2818.75
1131	200 SKS	60/40 pos (Bottom)	15.10	3020.00
1131	375 SKS	60/40 pos (Top)	15.10	5662.50
110A	1625 #	Kolseal	.56	910.00
1113B	3960 #	Bentonite	.25	990.00
1107	144 #	Floeal	2.82	406.08
4159	1	5 1/2 - AFU Floatshop (w)	413.00	413.00
4283	1	5 1/2 - DU Tool	3850.00	3850.00
4136	8	5 1/2 - Turbolizers (w)	72.00	576.00
4104	4	5 1/2 - Baskets (w)	276.00	1104.00
4309	1	5 1/2 - Limit Clamp (w)	41.00	41.00
4454	1	5 1/2 - Latchdown plug & basket	303.00	303.00
		subtotal		25358.73
		less 1090		2535.87
		subtotal		23822.86
		SALES TAX		1347.34
		ESTIMATED TOTAL		24170.20

AUTHORIZATION Mark Zuhl 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.

2542108

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

December 10, 2012

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

Re: ACO1
API 15-083-21859-00-00
Katheryn 1-29
SW/4 Sec.29-23S-23W
Hodgeman 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



DRILL STEM TEST REPORT

Prepared For: **Berexco LLC.**

2020 N Bramblewood
Wichita KS 67206

ATTN: David Gould

Katheryn #1

29-23s-23w Hodgeman,KS

Start Date: 2012.11.02 @ 18:25:00

End Date: 2012.11.03 @ 02:34:00

Job Ticket #: 51084 DST #: 1

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

Printed: 2012.11.21 @ 13:12:27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.

29-23s-23w Hodgeman, KS

2020 N Bramblewood
Wichita KS 67206

Katheryn #1

Job Ticket: 51084

DST#: 1

ATTN: David Gould

Test Start: 2012.11.02 @ 18:25:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:43:30

Time Test Ended: 02:34:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 59

Interval: 4671.00 ft (KB) To 4678.00 ft (KB) (TVD)

Reference Elevations: 2416.00 ft (KB)

Total Depth: 4678.00 ft (KB) (TVD)

2403.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8319 Outside

Press @ Run Depth: 405.96 psig @ 4617.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.02

End Date:

2012.11.03

Last Calib.: 2012.11.03

Start Time: 18:25:05

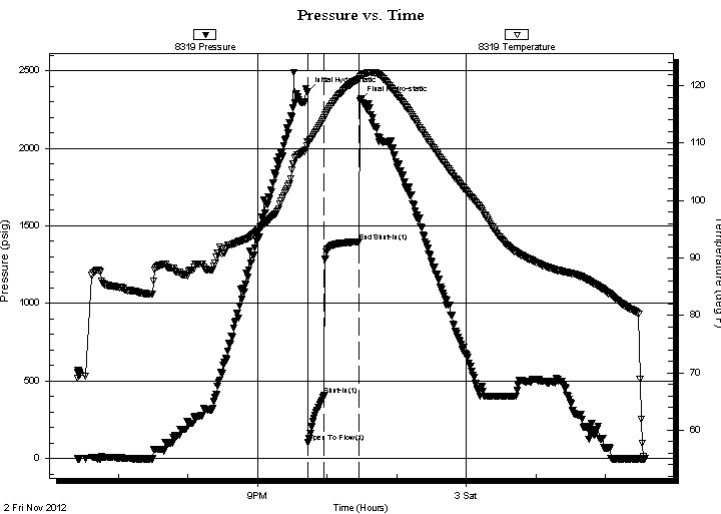
End Time:

02:33:59

Time On Btm: 2012.11.02 @ 21:43:00

Time Off Btm: 2012.11.02 @ 22:28:30

TEST COMMENT: 15 IF; BOB in 45 sec
30 IS; BOB in 4 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2367.92	110.20	Initial Hydro-static
1	103.06	109.95	Open To Flow (1)
15	405.96	114.33	Shut-In(1)
45	1396.65	121.20	End Shut-In(1)
46	2305.74	121.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	WOGCM 5%W 15%G 20%O 60%M	0.91
809.00	Rev out WMGCO 1%W 2%M 30%G 67%O	7.25
155.00	GO 40%G 60%O	2.17
0.00	315' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco LLC.

29-23s-23w Hodgeman,KS

2020 N Bramblewood
Wichita KS 67206

Katheryn #1

Job Ticket: 51084

DST#: 1

ATTN: David Gould

Test Start: 2012.11.02 @ 18:25:00

Tool Information

Drill Pipe:	Length: 3961.00 ft	Diameter: 3.80 inches	Volume: 55.56 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: 636.00 ft	Diameter: 2.25 inches	Volume: 3.13 bbl	Weight to Pull Loose: 108000.0 lb
			<u>Total Volume: 58.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 99000.00 lb
Depth to Top Packer:	4616.00 ft			Final 104000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4589.00	
Shut In Tool	5.00			4594.00	
Hydraulic tool	5.00			4599.00	
Jars	5.00			4604.00	
Safety Joint	2.00			4606.00	
Packer	5.00			4611.00	28.00 Bottom Of Top Packer
Packer	5.00			4616.00	
Stubb	1.00			4617.00	
Recorder	0.00	8166	Inside	4617.00	
Recorder	0.00	8319	Outside	4617.00	
Perforations	3.00			4620.00	
Bullnose	3.00			4623.00	7.00 Bottom Packers & Anchor

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

29-23s-23w Hodgeman,KS

2020 N Bramblewood
Wichita KS 67206

Katheryn #1

Job Ticket: 51084

DST#: 1

ATTN: David Gould

Test Start: 2012.11.02 @ 18:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	WOGCM 5%W 15%G 20%O 60%M	0.915
809.00	Rev out WMGCO 1%W 2%M 30%G 67%O	7.249
155.00	GO 40%G 60%O	2.174
0.00	315' GIP	0.000

Total Length: 1150.00 ft Total Volume: 10.338 bbl

Num Fluid Samples: 0

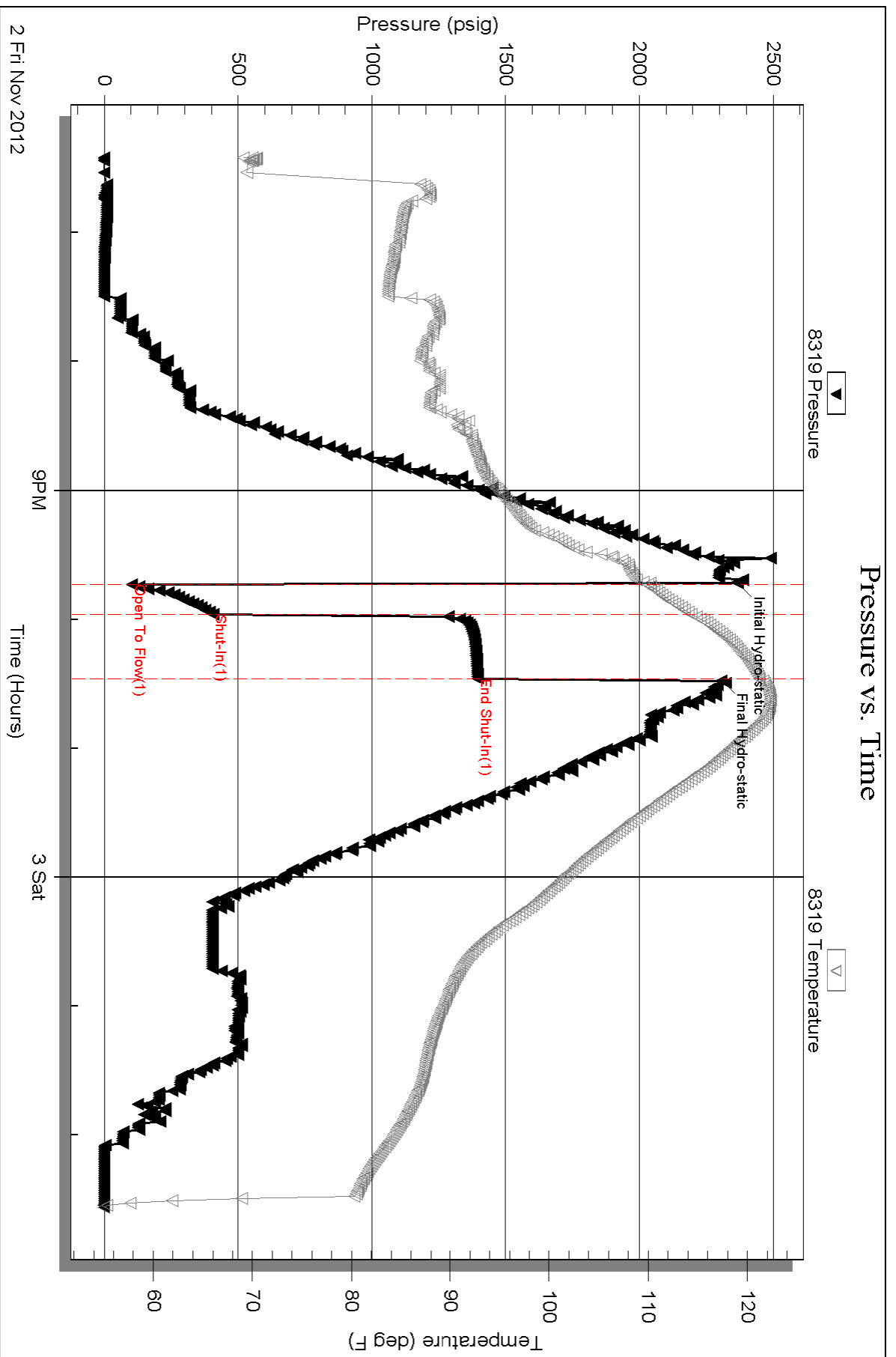
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Dropped the bar. The Reversed out % are based on 10 sample avg.



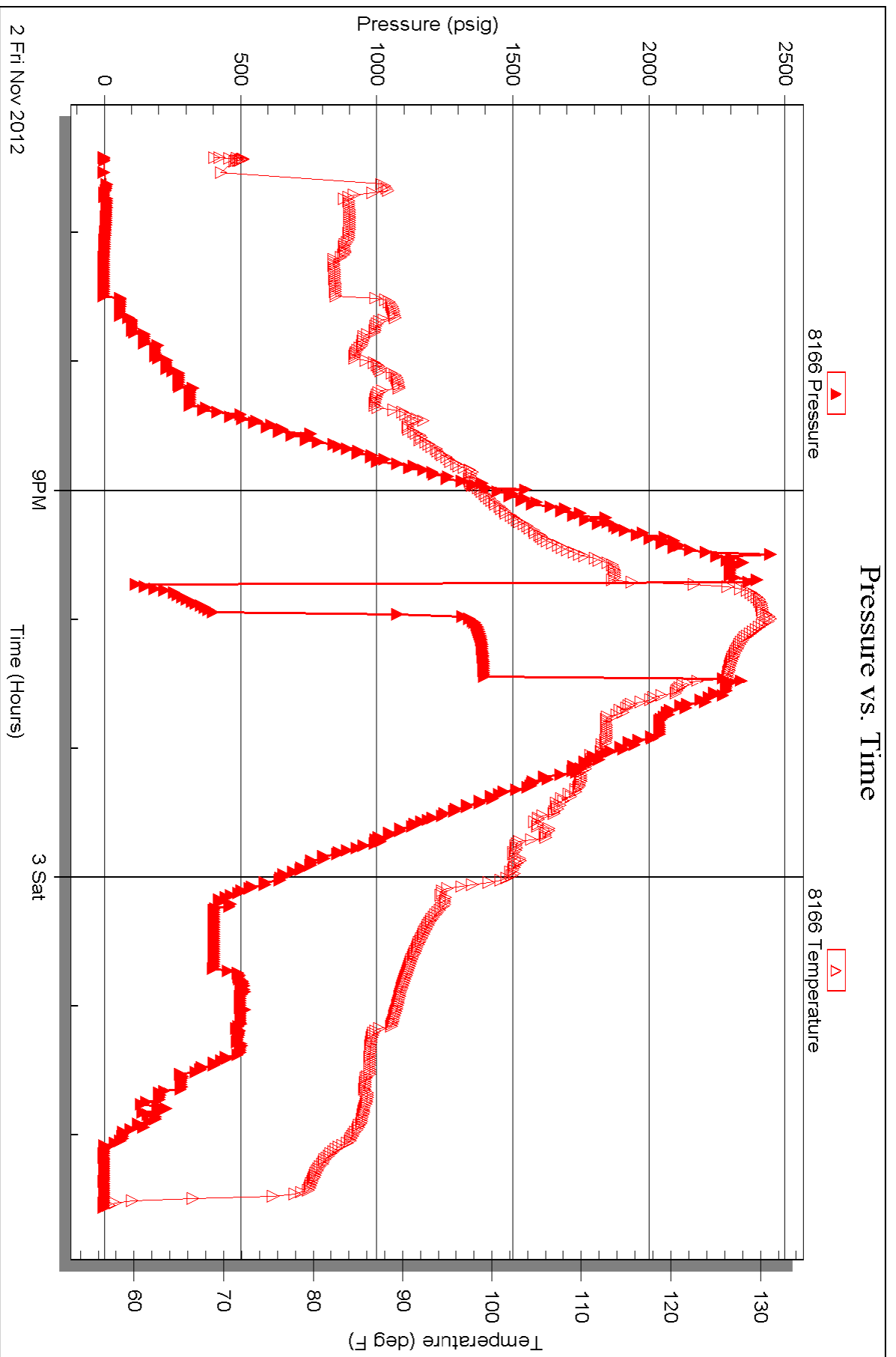
Serial #: 8166

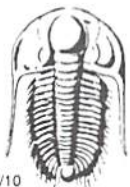
Inside

Berexco LLC.

Katheryn #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51084

Well Name & No. Kathryn 1 Test No. 1 Date 10-2-12
 Company Berco LLC Elevation 2416 KB 2403 GL
 Address 2020 N Bramblewood Wichita Ks 67206
 Co. Rep / Geo. Dan Gauld Rig Bredco 2
 Location: Sec. 29 Twp. 23S Rge. 23W Co. Hodgeman State Ks

Interval Tested 4671 4678 Zone Tested Cherokee
 Anchor Length 7 Drill Pipe Run 3961 Mud Wt. 9.5
 Top Packer Depth 4666 Drill Collars Run 636 Vis 47
 Bottom Packer Depth 4671 Wt. Pipe Run 0 WL 8.8
 Total Depth 4678 Chlorides 5000 ppm System LCM 2
 Blow Description IF; BOB in 45 sec
IF; BOB in 4min

Rec	Feet of		%gas	%oil	%water	%mud
<u>155</u>	<u>60</u>	<u>40</u>	<u>60</u>			
<u>809</u>	<u>Reversed out 809'</u>	<u>30</u>	<u>67</u>	<u>1</u>	<u>2</u>	
<u>-</u>	<u>WMGCO</u>					
<u>186</u>	<u>WGOCM</u>	<u>15</u>	<u>20</u>	<u>5</u>	<u>60</u>	
<u>315</u>	<u>Gas in PIPE</u>					

Rec Total 1150 BHT 121°F Gravity 3.8056° = 37.2 @ °F Chlorides ppm
 (A) Initial Hydrostatic 2368 Test 1250 T-On Location 14:15
 (B) First Initial Flow 103 Jars 250 T-Started 18:25
 (C) First Final Flow 406 Safety Joint 75 T-Open 21:45
 (D) Initial Shut-In 1397 Circ Sub Dropped Bar 50 T-Pulled 22:30
 (E) Second Initial Flow X Hourly Standby 1 1/2 150 T-Out 2:30
 (F) Second Final Flow X Mileage 185 RT 286.75 Comments Dropped Bar
 (G) Final Shut-In Sampler Reversed out
 (H) Final Hydrostatic 2306 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Initial Open 15 Extra Recorder Sub Total 0
 Initial Shut-In 30 Day Standby Total 2061.75
 Final Flow X Accessibility MP/DST Disc't
 Final Shut-In Sub Total 2061.75

Approved By _____ Our Representative [Signature]

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