



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1192158  
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: \_\_\_\_\_

1192158

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Craig 1-35
Doc ID	1192158

All Electric Logs Run

Spectral Density Dual Spaced Neutron Log
Array Compensated True Resistivity Log
Borehole Compensated Sonic Array Log
Microlog

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Craig 1-35
Doc ID	1192158

Tops

Name	Top	Datum
Heebner (base)	3900	-971
Lansing	3942	-1013
Lansing B	3978	-1049
Lansing C	3997	-1068
Lansing D	4030	-1101
Lansing F	4098	-1169
Lansing G	4123	-1194
Lansing H	4142	-1213
Swope/KS City A	4229	-1300
Hertha	4268	-1339
Kansas City (base)	4314	-1385
Pawnee	4448	-1519
Ft. Scott	4482	-1553
Cherokee	4496	-1567
Mississippi	4588	-1659
RTD	4695	
LTD	4695	



# ALLIED OIL & GAS SERVICES, LLC 052510

Federal Tax ID.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Cibera, KS

DATE <u>1-30-14</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>3:30pm</u>	JOB START <u>6:00pm</u>	JOB FINISH <u>1:00pm</u>
LEASE <u>Craig</u>	WELL# <u>1-35</u>	LOCATION <u>Vcc Scott City</u>			COUNTY <u>Scott City</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Beredco #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 424

CASING SIZE 8 5/8 DEPTH 422

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 40.40

CEMENT LEFT IN CSG. 2.5661

PERFS.

DISPLACEMENT 24601

OWNER

CEMENT

AMOUNT ORDERED Class A 30%cc 2%gel  
1/4 # flo seal

COMMON	<u>2600sk</u>	@	<u>17.90</u>	<u>4654.00</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>23.40</u>	<u>93.60</u>
CHLORIDE	<u>9</u>	@	<u>64.00</u>	<u>576.00</u>
ASC		@		
<u>Flo seal</u>	<u>65#</u>	@	<u>2.97</u>	<u>193.05</u>
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>276</u>	@	<u>2.48</u>	<u>684.48</u>
MILEAGE	<u>643.17</u>	@	<u>2.60</u>	<u>1672.24</u>
			<b>TOTAL</b>	<u>7873.32</u>

EQUIPMENT

PUMP TRUCK CEMENTER Cenny Baeza

# 549-550 HELPER Jamie Maldonado

BULK TRUCK

# B69-B41 DRIVER Ricardo Landa

BULK TRUCK

# DRIVER

REMARKS:

20 bags of cement to surface

CHARGE TO: Berco LLC

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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 Gilbert Davila Jr

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB 0-500

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE 50 @ 7.70 385.00

MANIFOLD @

TOTAL 1897.25

PLUG & FLOAT EQUIPMENT

NA @

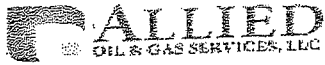
TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \$ 9770.62

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

NET \$ 7034.84



# CEMENTING JG

Date 1/30/2014 District Liberal # 21 Ticket No. 52510  
 Company Berexco Rig Beredco #1  
 Lease Craig Well No 1-35  
 County Scott City State KS  
 Location \_\_\_\_\_  
 Field \_\_\_\_\_  
 Casing Data  Conductor  PTA  Squeeze  Misc.  
 Surface  Intermediate  Production  Liner  
 Size 8 5/8 Type \_\_\_\_\_ Weight 24# Collar \_\_\_\_\_

CEMENT DATA  
 Spacer Type H2O  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Time \_\_\_\_\_ hrs. Type Class A 3% CC 2% Gel  
1/4 # Flo Seal Excess \_\_\_\_\_  
 Amt. 260 Sks Yield 1.38 ft<sup>3</sup>/sk Density 14.8 PPG  
 TAIL: Time \_\_\_\_\_ hrs. Type \_\_\_\_\_ Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER Lead 6.5 Gal/sk Tail \_\_\_\_\_ Gal/sk Total \_\_\_\_\_ BBLS

Casing Depths Top \_\_\_\_\_ Bottom 424

Pump Trucks Used: 549-550  
 Bulk Equipment 869-841

Drill Pipe: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBLS \_\_\_\_\_  
 Open Hole: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBLS \_\_\_\_\_  
 Capacity Factors: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBLS \_\_\_\_\_  
 Casing: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBLS \_\_\_\_\_  
 Open Holes: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBLS \_\_\_\_\_  
 Drill Pipe: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBLS \_\_\_\_\_  
 Annulus: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBLS \_\_\_\_\_  
 Perforations From \_\_\_\_\_ ft to \_\_\_\_\_ ft Amt \_\_\_\_\_

Float Equipment: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Bottom \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equipment \_\_\_\_\_  
 Disp: Fluid Type \_\_\_\_\_ Amt \_\_\_\_\_ bbls Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_

COMPANY REPRESENTATIVE \_\_\_\_\_ CEMENTER Lenny Baeza

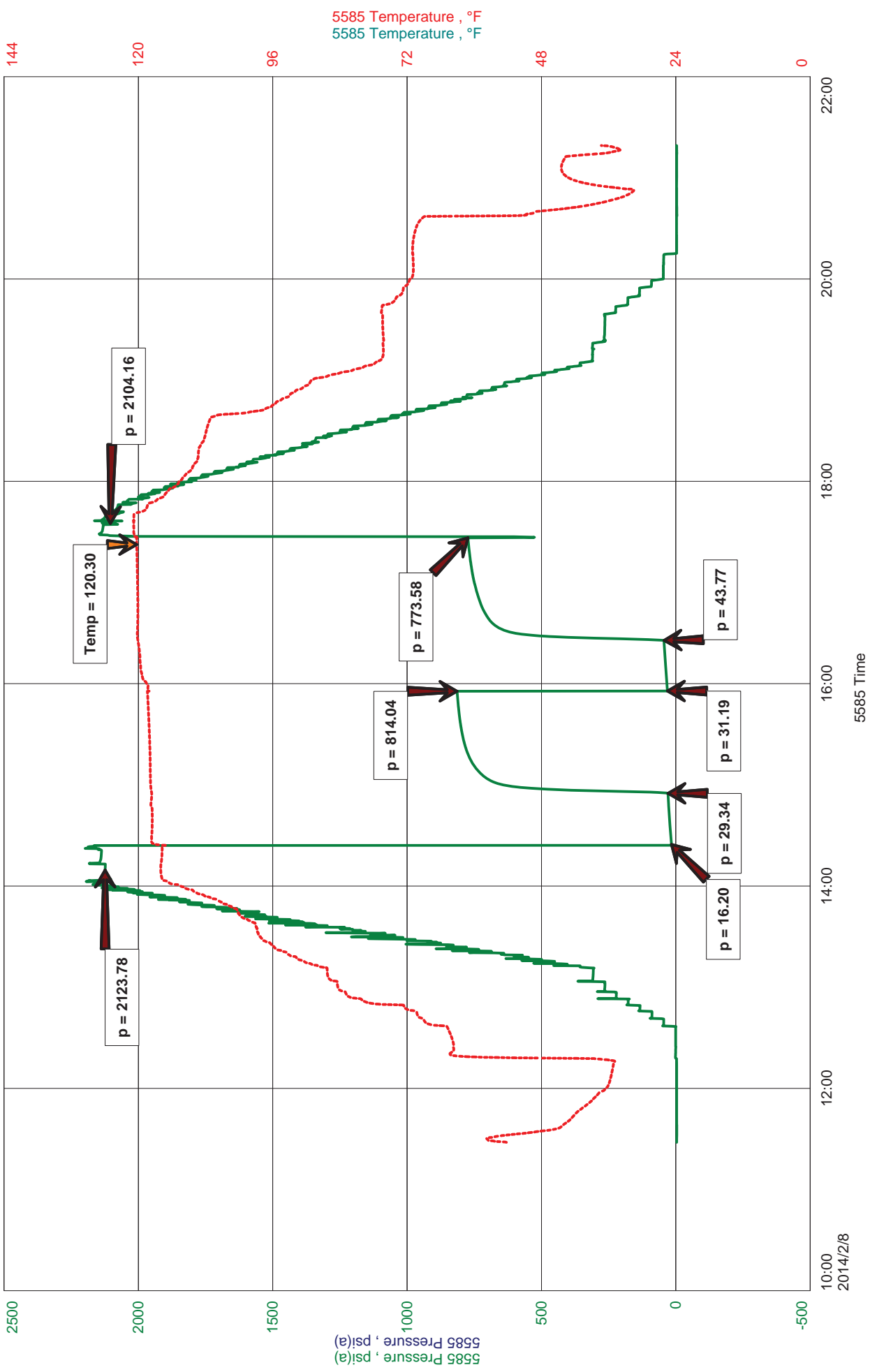
TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBL/MIN	
4:30pm						On location
5:30pm						Rigging up to well head
6:45pm	200		10		3	10 bbls of water ahead
6:52pm	230		79		5	260 sk of cement @ 14.8# total of 64bbls of slurry
7:15pm	180		103			Displacement of 24 bbls behind cement
7:20	270		103		0	NOT BUMPING PLUG NO INSERT FLOAT OR BAFFLE PLATE LEAVING 20 FEET OF CEMENT IN THE CASING LEAVING HEAD AND MANIFOLD WITH 250 PSI IN THE CASING
						LEAVING LOCATION @ 8:00PM

FINAL DISP. PRESS. 270 PSI BUMP PLUG TO \_\_\_\_\_ PSI BLEEDBACK \_\_\_\_\_ BBLS **THANK YOU**

BEREXCO LLC.  
DST#1 MARMATON 4357-4391  
Start Test Date: 2014/02/08  
Final Test Date: 2014/02/08

CRAIG #1-35  
Formation: DST#1 MARMATON 4357-4391  
Pool: WILDCAT  
Job Number: A014

# CRAIG #1-35





# DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA  
CELL # 620-617-7202

## General Information

Company Name	BEREXCO LLC.	EVIN MAYHEW	Job Number	A014
Contact		CRAIG #1-35	Representative	ANDY CARREIRA
Well Name		DST#1 MARMATON 4357-4391	Well Operator	BEREXCO LLC.
Unique Well ID		SEC35-17S-31W SCOTTCNTY,KS	Report Date	2014/02/08
Surface Location			Prepared By	ANDY CARREIRA
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

## Test Information

Test Type	CONVENTIONAL
Formation	DST#1 MARMATON 4357-4391
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/02/08	Start Test Time	11:28:00
Final Test Date	2014/02/08	Final Test Time	21:19:00

Gauge Name	5585
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## Test Results

RECOVERY:  
30' M 100%M

TOOL SAMPLE:  
5%O 95%M



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: CRAIG 1-35 DST1

TIME ON: 11:28  
TIME OFF: 21:19

Company BEREXCO LLC. Lease & Well No. CRAIG #1-35  
Contractor BEREDCO RIG 1 Charge to BEREXCO LLC.  
Elevation 2930 Formation MARMATON Effective Pay \_\_\_\_\_ Ft. Ticket No. A014  
Date 2-8-14 Sec. 35 Twp. 17 S Range 31 W County SCOTT State KANSAS  
Test Approved By \_\_\_\_\_ Diamond Representative ANDY CARREIRA

Formation Test No. 1 Interval Tested from 4357 ft. to 4391 ft. Total Depth 4391 ft.  
Packer Depth 4352 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4357 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4338 ft. Recorder Number 5585 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4359 ft. Recorder Number 8471 Cap. 10,000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 48 Drill Collar Length 618.23 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 4000 P.P.M. Drill Pipe Length 3706.77 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 34 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1" BLOW (NObb)  
2nd Open: NO BLOW (NObb)

Recovered 30 ft. of M  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 5%OIL 95%MUD	Total

Time Set Packer(s) 2:25 PM A.M. P.M. Time Started Off Bottom 5:25 PM A.M. P.M. Maximum Temperature 120

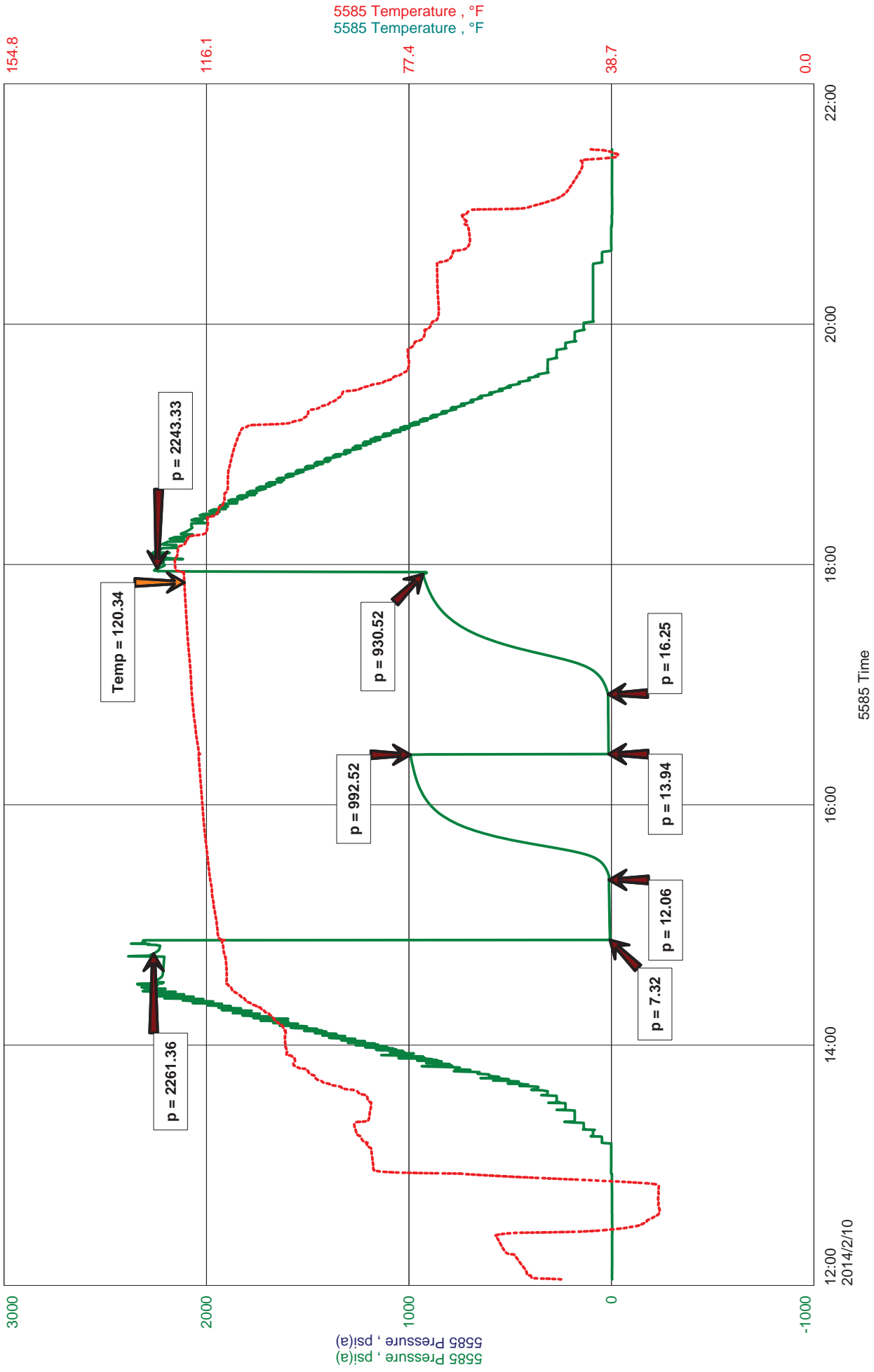
Initial Hydrostatic Pressure..... (A) 2124 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 29 P.S.I.  
Initial Closed In Period..... Minutes 60 (D) 814 P.S.I.  
Final Flow Period..... Minutes 30 (E) 31 P.S.I. to (F) 44 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 774 P.S.I.  
Final Hydrostatic Pressure..... (H) 2104 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

BEREXCO LLC.  
DST#2 JOHNSON 4538-4580  
Start Test Date: 2014/02/10  
Final Test Date: 2014/02/10

CRAIG #1-35  
Formation: DST#2 JOHNSON 4538-4580  
Pool: WILDCAT  
Job Number: A015

# CRAIG #1-35



# DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA  
CELL # 620-617-7202

## General Information

Company Name	BEREXCO LLC.	EVIN MAYHEW	Job Number	A015
Contact		CRAIG #1-35	Representative	ANDY CARREIRA
Well Name		DST#2 JOHNSON 4538-4580	Well Operator	BEREXCO LLC.
Unique Well ID		SEC35-17S-31W SCOTTCNTY,KS	Report Date	2014/02/10
Surface Location			Prepared By	ANDY CARREIRA
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

## Test Information

Test Type	CONVENTIONAL
Formation	DST#2 JOHNSON 4538-4580
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/02/10	Start Test Time	12:03:00
Final Test Date	2014/02/10	Final Test Time	21:28:00

Gauge Name	5585
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## Test Results

RECOVERY:  
10' M

TOOL SAMPLE:  
TRACE OIL, MUD



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: CRAIG 1-35 DST2

TIME ON: 12:03  
TIME OFF: 21:28

Company BEREXCO LLC. Lease & Well No. CRAIG #1-35  
Contractor BEREDCO RIG 1 Charge to BEREXCO LLC.  
Elevation 2930 Formation JOHNSON Effective Pay \_\_\_\_\_ Ft. Ticket No. A015  
Date 2-10-14 Sec. 35 Twp. 17 S Range 31 W County SCOTT State KANSAS  
Test Approved By IAN BOSMEIJER Diamond Representative ANDY CARREIRA

Formation Test No. 2 Interval Tested from 4538 ft. to 4580 ft. Total Depth 4580 ft.  
Packer Depth 4533 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4538 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4519 ft. Recorder Number 5585 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4540 ft. Recorder Number 8471 Cap. 10,000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 57 Drill Collar Length 618.23 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 4900 P.P.M. Drill Pipe Length 3887.77 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 42 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/2" BLOW. DIED IN 20 MIN. (NObb)  
2nd Open: NO BLOW (NObb)

Recovered <u>10</u> ft. of <u>M</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>TRACE OIL, MUD</u>	Total

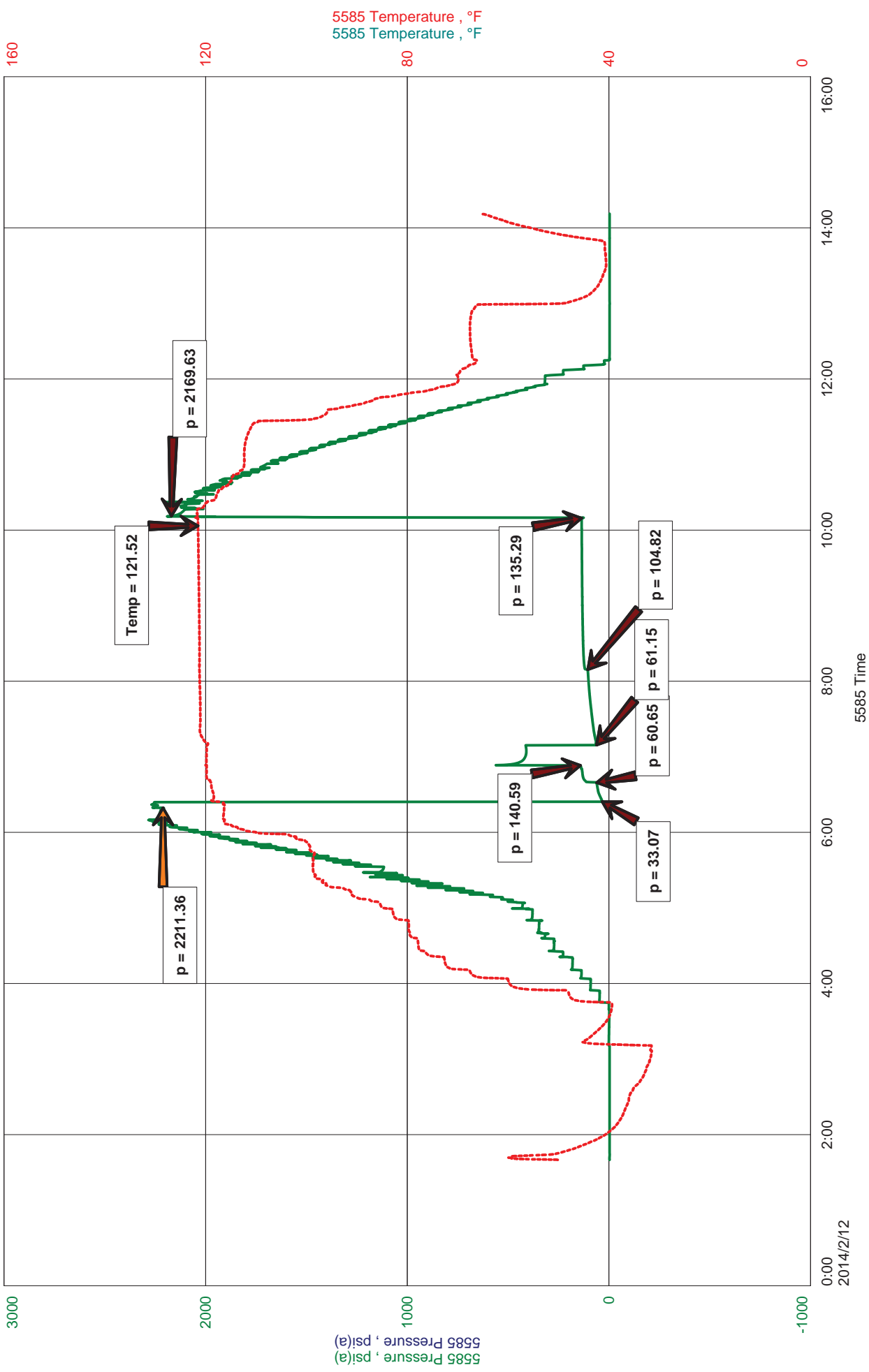
Time Set Packer(s) 2:53 PM A.M. P.M. Time Started Off Bottom 5:53 PM A.M. P.M. Maximum Temperature 120  
Initial Hydrostatic Pressure..... (A) 2261 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 12 P.S.I.  
Initial Closed In Period..... Minutes 60 (D) 993 P.S.I.  
Final Flow Period..... Minutes 30 (E) 14 P.S.I. to (F) 16 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 931 P.S.I.  
Final Hydrostatic Pressure..... (H) 2243 P.S.I.

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BEREXCO LLC.  
DST#3 LKC"B" 4252-4274  
Start Test Date: 2014/02/12  
Final Test Date: 2014/02/12

CRAIG #1-35  
Formation: DST#3 LKC"B" 4252-4274  
Pool: WILDCAT  
Job Number: A016

# CRAIG #1-35





# DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA  
CELL # 620-617-7202

## General Information

Company Name	BEREXCO LLC.	EVIN MAYHEW	Job Number	A016
Contact		CRAIG #1-35	Representative	ANDY CARREIRA
Well Name		DST#3 LKC"B" 4252-4274	Well Operator	BEREXCO LLC.
Unique Well ID		SEC35-17S-31W SCOTTCNTY,KS	Report Date	2014/02/12
Surface Location			Prepared By	ANDY CARREIRA
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

## Test Information

Test Type	STRADDLE
Formation	DST#3 LKC"B" 4252-4274
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/02/12	Start Test Time	01:40:00
Final Test Date	2014/02/12	Final Test Time	14:12:00

Gauge Name	5585
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## Test Results

RECOVERY:

10' GO	10%G, 90%O
130'G&OCMW	5%G,10%O,50%W,35%M
140' TOTALFLUID	
	CHLORIDES 10000PPM
	PH 7
	RW .8 @ 59
	GRAVITY 35

TOOL SAMPLE: 2% OIL, 80% WATER, 18% MUD



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: CRAIG 1-35 DST3

TIME ON: 01:40  
TIME OFF: 14:12

Company BEREXCO LLC. Lease & Well No. CRAIG #1-35  
Contractor BEREDCO RIG 1 Charge to BEREXCO LLC.  
Elevation 2930 Formation LKC "B" Effective Pay \_\_\_\_\_ Ft. Ticket No. A016  
Date 2-12-14 Sec. 35 Twp. 17 S Range 31 W County SCOTT State KANSAS  
Test Approved By IAN BOSMEIJER Diamond Representative ANDY CARREIRA

Formation Test No. 3 Interval Tested from 4252 ft. to 4274 ft. Total Depth 4695 ft.  
Packer Depth 4247 ft. Size 6 3/4 in. Packer depth 4274 ft. Size 6 3/4 in.  
Packer Depth 4252 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set 4252-4274

Top Recorder Depth (Inside) 4233 ft. Recorder Number 5585 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4254 ft. Recorder Number 8471 Cap. 10,000 P.S.I.  
Below Straddle Recorder Depth 4692 ft. Recorder Number 13819 Cap. 5400 P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 618.23 ft. I.D. 2 1/4 in.  
Weight 9.7 Water Loss 7.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 4000 P.P.M. Drill Pipe Length 4220 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 22 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 3" BLOW IN 5 MIN. BUILT TO 5" (NObb)  
2nd Open: 3" BLOW IN 21 MIN. BUILT TO 6" (NObb)

Recovered 10 ft. of GO 10%G,90%O  
Recovered 130 ft. of G&OCMW 5%G, 10%O, 50%W, 35%M  
Recovered 140 ft. of TOTAL FLUID CHLORIDES 10000PPM  
Recovered \_\_\_\_\_ ft. of PH 7

Recovered _____ ft. of <u>RW .8 @ 59</u>	Price Job
Recovered _____ ft. of <u>GRAVITY 35</u>	Other Charges
Remarks: _____	Insurance
<u>TOOL SAMPLE: 2%OIL, 89% WATER, 18% MUD</u>	Total

Time Set Packer(s) 6:25 AM A.M. P.M. Time Started Off Bottom 10:10 AM A.M. P.M. Maximum Temperature 122

Initial Hydrostatic Pressure..... (A) 2211 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 33 P.S.I. to (C) 61 P.S.I.  
Initial Closed In Period..... Minutes 60 (D) 141 P.S.I.  
Final Flow Period..... Minutes 30 (E) 61 P.S.I. to (F) 104 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 135 P.S.I.  
Final Hydrostatic Pressure..... (H) 2170 P.S.I.

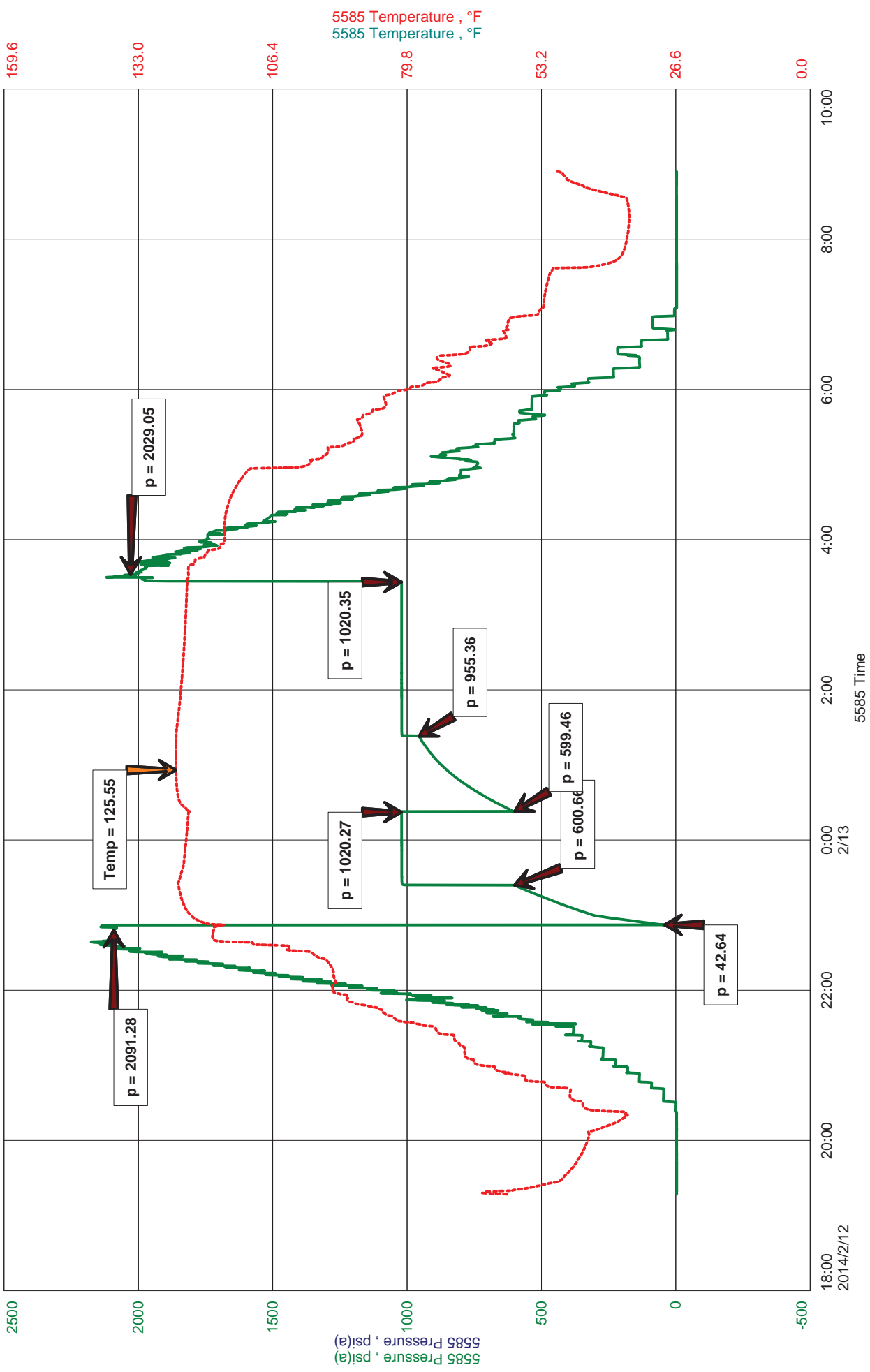
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



BEREXCO LLC.  
DST4 LANS"E-F" 4028-4060  
Start Test Date: 2014/02/12  
Final Test Date: 2014/02/13

CRAIG 1-35  
Formation: DST4 LANS"E-F" 4028-4060  
Pool: WILDCAT  
Job Number: A017

# CRAIG 1-35



# DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA  
CELL # 620-617-7202

## General Information

Company Name	BEREXCO LLC.	EVAN MAYHEW	Job Number	A017
Contact		CRAIG 1-35	Representative	ANDY CARREIRA
Well Name		DST4 LANS"E-F" 4028-4060	Well Operator	BEREXCO LLC.
Unique Well ID		SEC35-17S-31W SCOTT CNTY KS	Report Date	2014/02/12
Surface Location			Prepared By	ANDY CARREIRA
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

## Test Information

Test Type	STRADDLE
Formation	DST4 LANS"E-F" 4028-4060
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/02/12	Start Test Time	
Final Test Date	2014/02/13	Final Test Time	19:17:00

Gauge Name	5585
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## Test Results

RECOVERY: 2720' MW

CHLORIDES 22000 Ppm  
Ph 6  
RW .34 @ 60

TOOL SAMPLE: 100% WATER



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: CRAIG 1-35 DST4

TIME ON: 19:17  
TIME OFF: 08:49

Company BEREXCO LLC. Lease & Well No. CRAIG #1-35  
Contractor BEREDCO RIG 1 Charge to BEREXCO LLC.  
Elevation 2930 Formation LANS "E-F" Effective Pay \_\_\_\_\_ Ft. Ticket No. A017  
Date 2-12-14 Sec. 35 Twp. 17 S Range 31 W County SCOTT State KANSAS  
Test Approved By IAN BOSMEIJER Diamond Representative ANDY CARREIRA

Formation Test No. 4 Interval Tested from 4028 ft. to 4060 ft. Total Depth 4695 ft.  
Packer Depth 4023 ft. Size 6 3/4 in. Packer depth 4060 ft. Size 6 3/4 in.  
Packer Depth 4028 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set 4028-4060

Top Recorder Depth (Inside) 4009 ft. Recorder Number 5585 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4030 ft. Recorder Number 8471 Cap. 10,000 P.S.I.  
Below Straddle Recorder Depth 4692 ft. Recorder Number 13819 Cap. 5400 P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 618.23 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 7.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 4000 P.P.M. Drill Pipe Length 3996 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 32 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB IN 2 MIN (NObb)  
2nd Open: BOB IN 3 MIN (NObb)

Recovered 2720 ft. of MW 95%w,5%m  
Recovered \_\_\_\_\_ ft. of CHLORIDES 22000 ppm  
Recovered \_\_\_\_\_ ft. of Ph 6  
Recovered \_\_\_\_\_ ft. of RW .34 @ 60

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 100% water	Total

Time Set Packer(s) 10:47 PM A.M. P.M. Time Started Off Bottom 3:17 PM A.M. P.M. Maximum Temperature 126

Initial Hydrostatic Pressure..... (A) 2091 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 43 P.S.I. to (C) 601 P.S.I.  
Initial Closed In Period..... Minutes 60 (D) 1020 P.S.I.  
Final Flow Period..... Minutes 60 (E) 599 P.S.I. to (F) 955 P.S.I.  
Final Closed In Period..... Minutes 120 (G) 1020 P.S.I.  
Final Hydrostatic Pressure..... (H) 2029 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.



**EARTH TECH OGL, INC**  
 PO BOX 683 8918th st  
 HOOKER, OK 73945 GREAT BEND, KANSAS 67531  
 1-888-543-8378

**COMPANY:** Berexco LLC  
**WELL:** Craig #1-35  
**FIELD:** Manning Northwest **COUNTY:** Scott **STATE:** KS  
**LOCATION:** SW NE SW SE Sec 35, Twnp 17S, Rng 31W  
925 FNL, 1674 FWL  
**Interval Logged:** 3700 **To:** 4695 **G.L.:** 2917' **K.B:** 2929'  
**Date Logged:** 2/5/2014 **To:** 2/13/2014 **Spud Date:** 1/30/2014  
**Rig:** Beredco Rig #1 **Unit No.:**       
**Loggers:** Ian Bosmeijer  
**Api No.:** 15-171-21024-00-00  
**Filename:** craig-1-35u.mlw  
**Geologist:** Pete Wilson

**Abbreviations:**

NB...New Bit      DST...Drill Stem Test  
 CO...Circ Out    DS...Directional Survey  
 NR...No Returns   CG...Connection gas  
 TG...Trip Gas    LAT...Logged After Trip  
 WOB...Wt on Bit   PP...Pump Pressure  
 RPM...Rev/Min    SPM...Strokes/Min  
 SG...Survey Gas   DTG...Down Time Gas

**Mud Data**

WT..Weight      V..Viscosity  
 PH..Acidity    F..Filtrate  
 CHL..Chlorides   SC..Solids Content

**Lithology Symbols:**

Anhydrite	Salt	Granite
Siltstone	Chert	Sandstone
Dolomite	Conglomerate	Limestone
Coal	Shale	Bentonite
Carb Shale	Granite Wash	Quartz Wash
Red Sh	Org Sh	Green Sh
Cust Sh1	Cust Sh2	Cust Sh3
Cust Sh4	Cust Sh5	Cust Sh6

**Gas Chromatograph Analysis:**

HW

C1

C2

C3

IC4

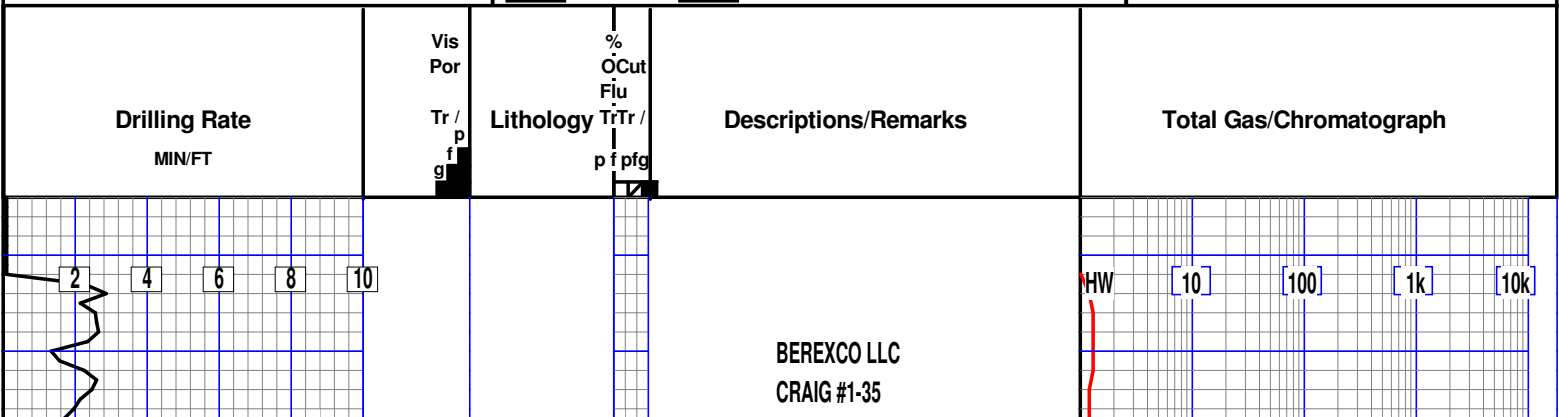
NC4

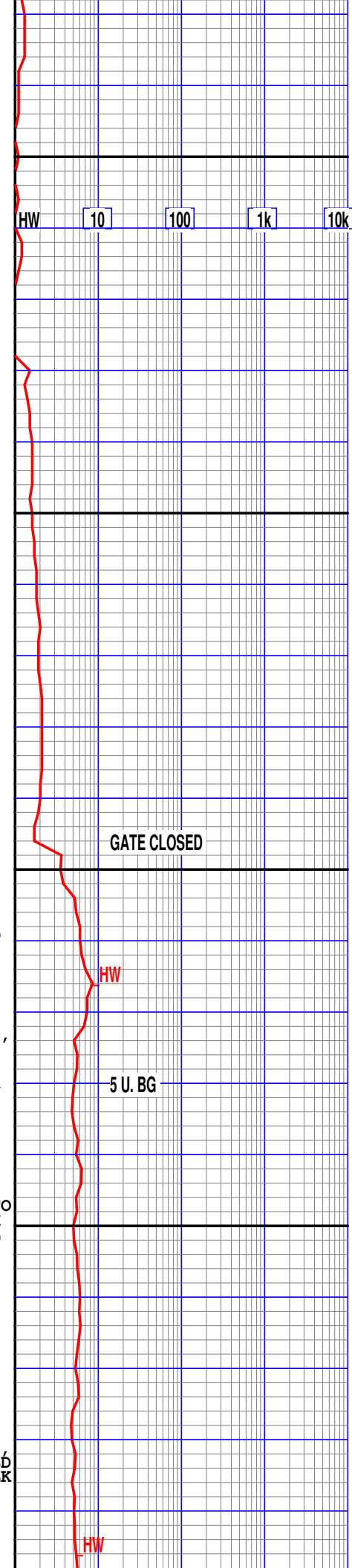
IC5

**Accessories**

Glauconite    Pyrite    Fossils    Oolites

Fractures    Cement





3600

2 4 6 8 10

50

3700

WOB 27-32  
RPM 70-80  
PP 900  
SPM 57

WT 8.7  
VIS 42  
LCM 1#

c

50

c

c

START 24 HR MANNED UNIT 2/5/14

GATE CLOSED

SH-LT GY TO BLK, FRM BKLY TO SPLNTY, SLI CALC IP, SMTH TXT

HW

LS- OFF WHT TO LT CRM, HD DNST TO BRITT, F-XLN TO TT SUCRO, SUB CHLKY IP, TR IMBD SH IP, TR IMBD F-GRN QRTZ IP, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

5 U. BG

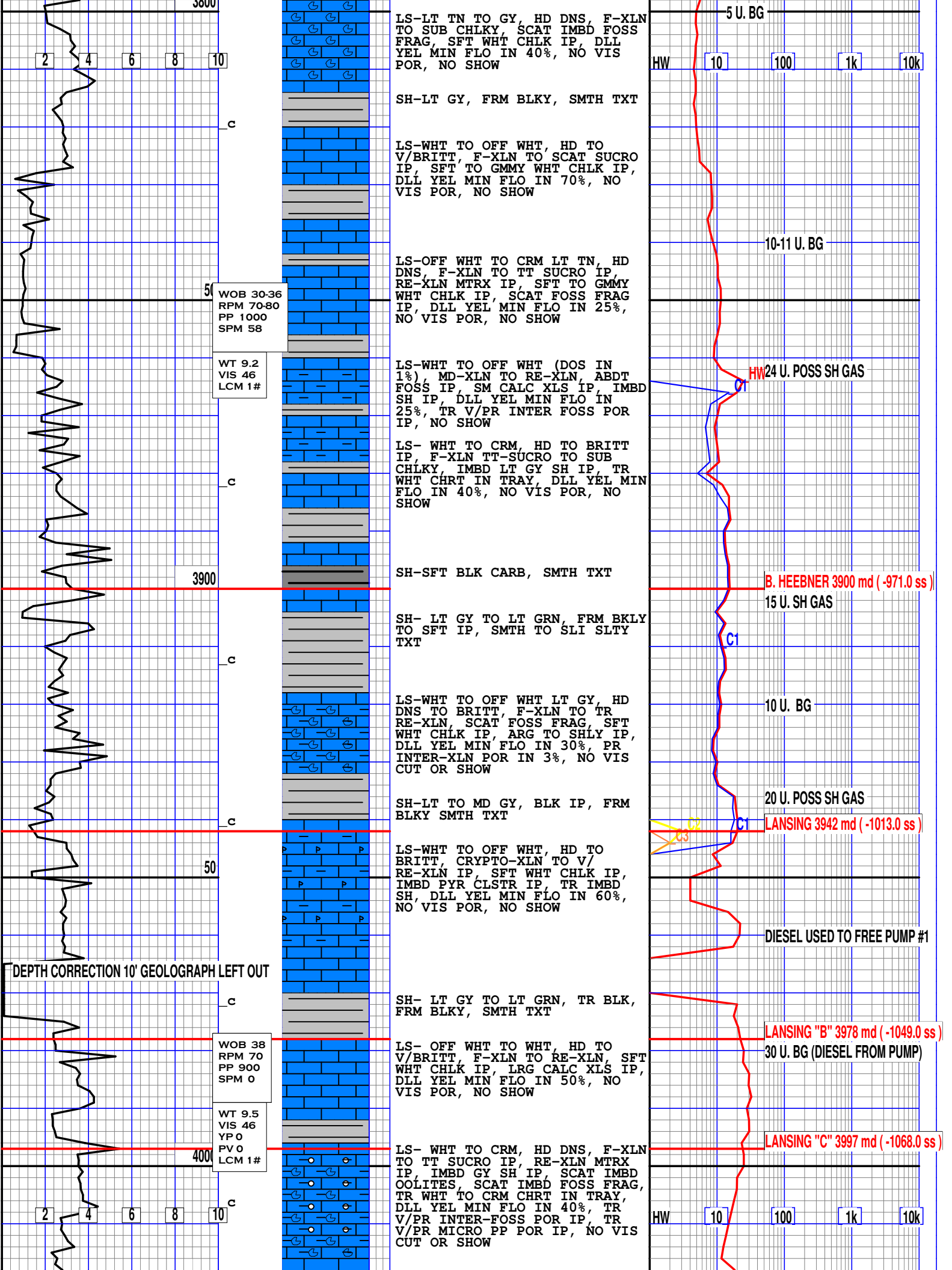
SH- LT GY TO LT RD, FRM BKLY TO SFT IP, SMTH TXT

LS- WHT TO OFF WHT, HD DNS TO BRITT, F-XLN, TR RE-XLN MTRX IP, SFT WHT CHLK IP, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW

SH-LT TO MD GY, FRM BKLY TO SPLNTY, SMTH TXT

LS-OFF WHT TO LT CRM, HD DNS, MD TO F-XLN TR TT SUCRO, IMBD FOSS FRAG IP, TR SFT WHT CHLK IP, DLL YEL MIN FLO IN 60%, NO VIS POR, NO SHOW

HW



LS-LT TN TO GY, HD DNS, F-XLN TO SUB CHLKY, SCAT IMBD FOSS FRAG, SFT WHT CHLK IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

SH-LT GY, FRM BLKY, SMTH TXT

LS-WHT TO OFF WHT, HD TO V/BRITT, F-XLN TO SCAT SUCRO IP, SFT TO GMMY WHT CHLK IP, DLL YEL MIN FLO IN 70%, NO VIS POR, NO SHOW

LS-OFF WHT TO CRM LT TN, HD DNS, F-XLN TO TT SUCRO IP, RE-XLN MTRX IP, SFT TO GMMY WHT CHLK IP, SCAT FOSS FRAG IP, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS-WHT TO OFF WHT (DOS IN 1%), MD-XLN TO RE-XLN, ABDT FOSS IP, SM CALC XLS IP, IMBD SH IP, DLL YEL MIN FLO IN 25%, TR V/PR INTER FOSS POR IP, NO SHOW

LS- WHT TO CRM, HD TO BRITT IP, F-XLN TT-SUCRO TO SUB CHLKY, IMBD LT GY SH IP, TR WHT CRT IN TRAY, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

SH-SFT BLK CARB, SMTH TXT

SH- LT GY TO LT GRN, FRM BKLY TO SFT IP, SMTH TO SLI SLTY TXT

LS-WHT TO OFF WHT LT GY, HD DNS TO BRITT, F-XLN TO TR RE-XLN, SCAT FOSS FRAG, SFT WHT CHLK IP, ARG TO SHLY IP, DLL YEL MIN FLO IN 30%, PR INTER-XLN POR IN 3%, NO VIS CUT OR SHOW

SH-LT TO MD GY, BLK IP, FRM BLKY SMTH TXT

LS-WHT TO OFF WHT, HD TO BRITT, CRYPTO-XLN TO V/RE-XLN IP, SFT WHT CHLK IP, IMBD PYR CLSTR IP, TR IMBD SH, DLL YEL MIN FLO IN 60%, NO VIS POR, NO SHOW

SH- LT GY TO LT GRN, TR BLK, FRM BLKY, SMTH TXT

LS- OFF WHT TO WHT, HD TO V/BRITT, F-XLN TO RE-XLN, SFT WHT CHLK IP, LRG CALC XLS IP, DLL YEL MIN FLO IN 50%, NO VIS POR, NO SHOW

LS- WHT TO CRM, HD DNS, F-XLN TO TT SUCRO IP, RE-XLN MTRX IP, IMBD GY SH IP, SCAT IMBD OOLITES, SCAT IMBD FOSS FRAG, TR WHT TO CRM CRT IN TRAY, DLL YEL MIN FLO IN 40%, TR V/PR INTER-FOSS POR IP, TR V/PR MICRO PP POR IP, NO VIS CUT OR SHOW

WOB 30-36  
RPM 70-80  
PP 1000  
SPM 58

WT 9.2  
VIS 46  
LCM 1#

WOB 38  
RPM 70  
PP 900  
SPM 0

WT 9.5  
VIS 46  
YP 0  
PV 0  
LCM 1#

DEPTH CORRECTION 10' GEOLOGRAPH LEFT OUT

HW 24 U. POSS SH GAS

B. HEEBNER 3900 md (-971.0 ss)  
15 U. SH GAS

10 U. BG

20 U. POSS SH GAS  
LANSING 3942 md (-1013.0 ss)

DIESEL USED TO FREE PUMP #1

LANSING "B" 3978 md (-1049.0 ss)  
30 U. BG (DIESEL FROM PUMP)

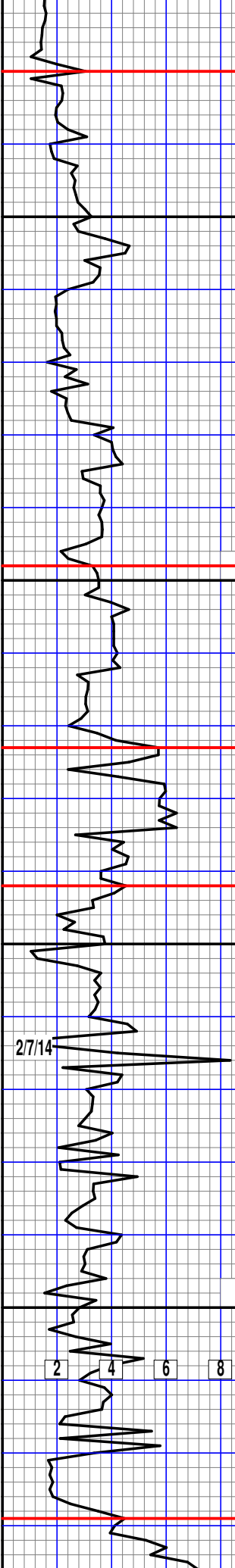
LANSING "C" 3997 md (-1068.0 ss)

5 U. BG

10-11 U. BG

HW 10 100 1k 10k





50 #

c

4100

WOB 38-40  
RPM 70  
PP 950  
SPM 0

WT 9.2  
VIS 46  
LCM 1.5

c

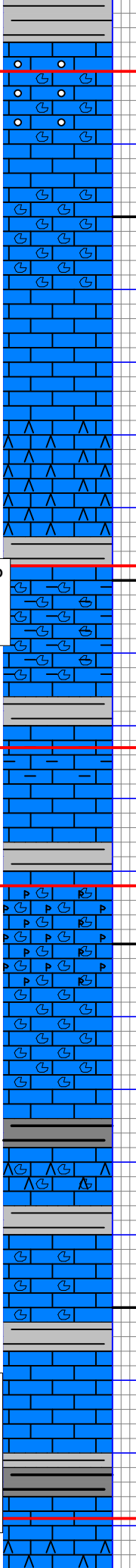
50

c

4200

WOB 42  
RPM 70  
PP 750  
SPM 57

WT 9.4  
VIS 42  
PH 10.5  
CHL 2000  
FIL 6.2  
FIL/CK 1  
SOL 7.6  
YP 15  
PV 16  
LCM 1#



LS- OFF WHT TO LT TN (TR SPOTTED OIL STN), HD TO BRITT, V/RE-XLN, IMBD OOLITES, SFT WHT CHLK IP, TR IMBD FOSS FRAG, GD OOMOLDIC POR IN 10%, SPOTTED GOLD FLO IP, NO VIS CUT OR SHOW, SLI SULFUR ODOR

LS- WHT TO OFF WHT, SFT BRITT, SUB-CHLKY TO TT SUCRO IP, TR RE-XLN, ABDT SFT WHT CHLK, TR FOSS FRAG IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

LS- WHT TO OFF WHT, SFT BRITT, SUB CHLKY TO CRYPTO-XLN, RE-XLN IP, TR IMBD SH IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

LS- OFF WHT TO LT GY TR LT TN, HD TO V/ SFT BRITT, F-XLN TO TT SUCRO SUB CHLKY IP, ABDT SFT WHT CHLK IP, SCAT WHT TO TN CHRT IN TRAY, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS- OFF WHT TO LT TN, HD TO V/BRITT, RE-XLN TO SUB CHLKY, F-XLN IP, TR FOSS FRAG, TR IMBD BRN SH IP, ABDT SFT WHT CHLK, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

LS- CRM TO OFF WHT, HD DNS, CRYPTO-XLN TO RE-XLN IP, TR SFT WHT CHLK, TR IMBD BLK CARB SH IP, DLL YEL MIN FLO IN 50%, NO VIS POR, NO SHOW

LS- OFF WHT TO WHT, HD TO BRITT IP, RE-XLN TO SURCO, SUB CHLKY IP, IMBD FOSS FRAG, IMBD PYR CLSTR, TR IMBD SH, DLL YEL MIN FLO IN 60%, NO VIS POR, NO SHOW

LS- OFF WHT TO CRM, HD DNS TO BRITT IP, CRYPTO-XLN TO F-XLN, IMBD FOSS FRAG IP, TR SFT WHT CHLK, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

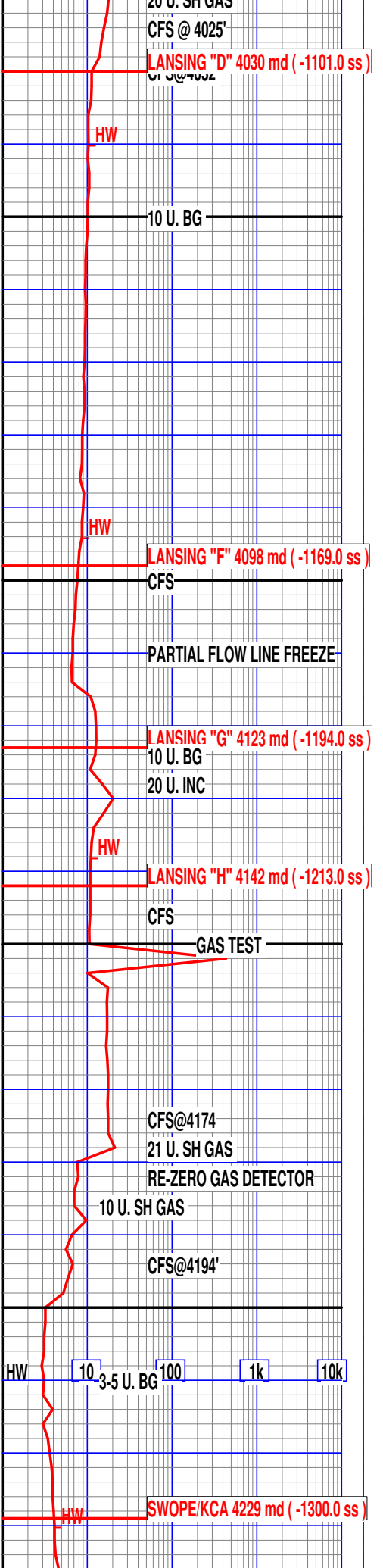
SH- LT GY TO BLK, FRM BLKY, CARB IP,

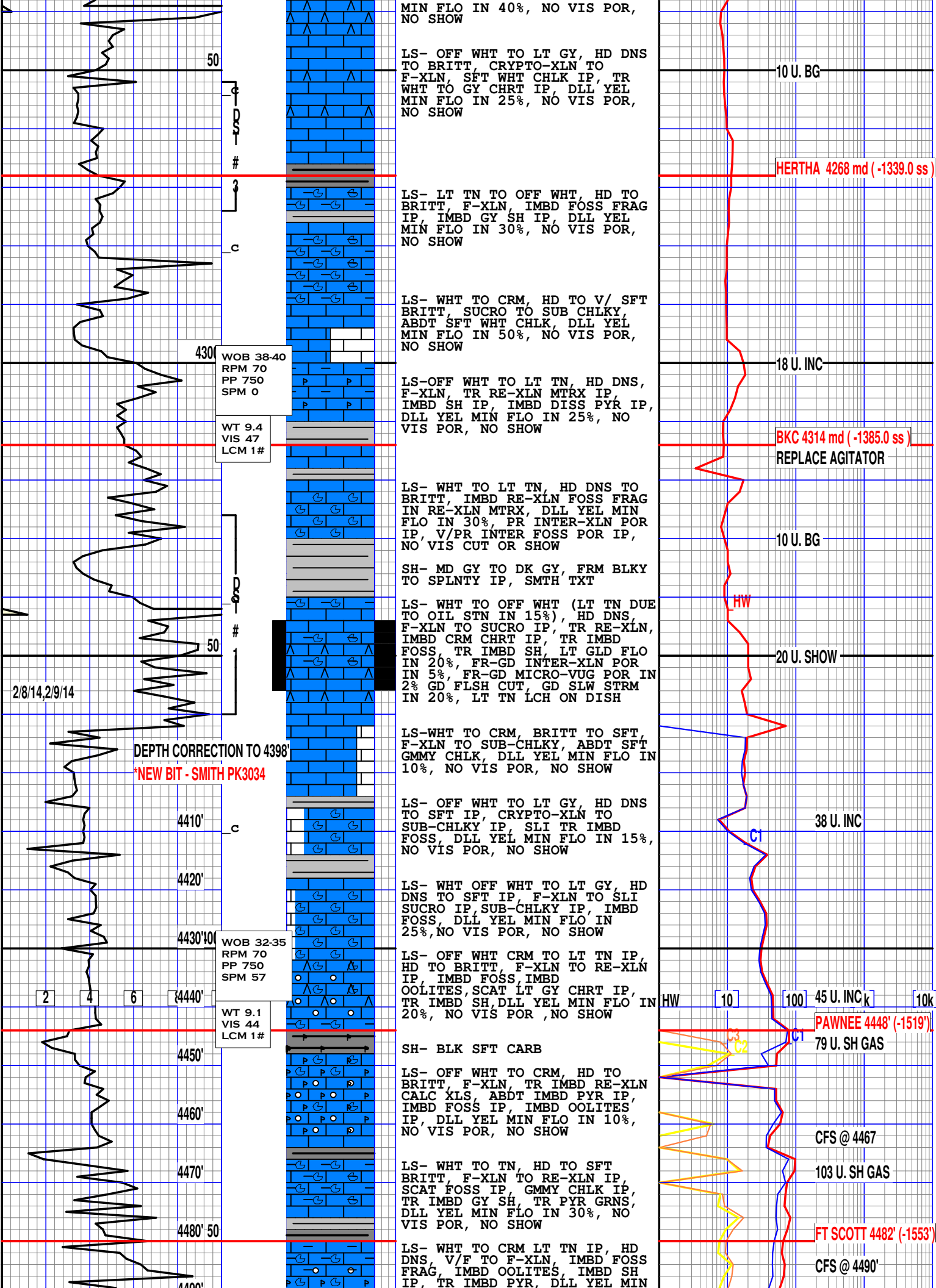
LS-LT GY TO GY TR WHT, HD DNS, F-XLN TO MD-XLN, SUCRO IP, TR FOSS FRAG, TR WHT CHRT IN TRAY, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS- WHT TO OFF WHT, HD DNS, V/F- F-XLN TR RE-XLN IP, TR FOSS FRAG, TR SFT WHT CHLK, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS-WHT TO CRM, HD DNS TO SFT, F-XLN TO SUB-CHLKY, IMBD SH IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

LS- LT GY TO OFF WHT, LT TN IP, HD DNS TO BRITT, F-XLN TO TT SUCRO, TR RE-XLN MTRX IP, SFT WHT CHLK IP, SCAT LT GY CHRT IP, IMBD SH IP, DLL YEL





MIN FLO IN 40%, NO VIS POR, NO SHOW

LS- OFF WHT TO LT GY, HD DNS TO BRITT, CRYPTO-XLN TO F-XLN SFT WHT CHLK IP, TR WHT TO GY CHRT IP, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

10 U. BG

HERTHA 4268 md (-1339.0 ss)

LS- LT TN TO OFF WHT, HD TO BRITT, F-XLN, IMBD FOSS FRAG IP, IMBD GY SH IP, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW

LS- WHT TO CRM, HD TO V/ SFT BRITT, SUCRO TO SUB CHLKY ABDT SFT WHT CHLK, DLL YEL MIN FLO IN 50%, NO VIS POR, NO SHOW

18 U. INC

BKC 4314 md (-1385.0 ss)  
REPLACE AGITATOR

LS-OFF WHT TO LT TN, HD DNS, F-XLN, TR RE-XLN MTRX IP, IMBD SH IP, IMBD DISS PYR IP, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS- WHT TO LT TN, HD DNS TO BRITT, IMBD RE-XLN FOSS FRAG IN RE-XLN MTRX, DLL YEL MIN FLO IN 30%, PR INTER-XLN POR IP, V/PR INTER FOSS POR IP, NO VIS CUT OR SHOW

10 U. BG

SH- MD GY TO DK GY, FRM BLKY TO SPLNTY IP, SMTH TXT

LS- WHT TO OFF WHT (LT TN DUE TO OIL STN IN 15%), HD DNS, F-XLN TO SUCRO IP, TR RE-XLN, IMBD CRM CHRT IP, TR IMBD FOSS, TR IMBD SH, LT GLD FLO IN 20%, FR-GD INTER-XLN POR IN 5%, FR-GD MICRO-VUG POR IN 2% GD FLSH CUT, GD SLW STRM IN 20%, LT TN LCH ON DISH

HW

20 U. SHOW

2/8/14, 2/9/14

DEPTH CORRECTION TO 4398'  
\*NEW BIT - SMITH PK3034

LS-WHT TO CRM, BRITT TO SFT, F-XLN TO SUB-CHLKY, ABDT SFT GMMY CHLK, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

LS- OFF WHT TO LT GY, HD DNS TO SFT IP, CRYPTO-XLN TO SUB-CHLKY IP, SLI TR IMBD FOSS, DLL YEL MIN FLO IN 15%, NO VIS POR, NO SHOW

38 U. INC

LS- WHT OFF WHT TO LT GY, HD DNS TO SFT IP, F-XLN TO SLI SUCRO IP, SUB-CHLKY IP, IMBD FOSS, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS- OFF WHT CRM TO LT TN IP, HD TO BRITT, F-XLN TO RE-XLN IP, IMBD FOSS, IMBD OOLITES, SCAT LT GY CHRT IP, TR IMBD SH, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

HW 10 100 45 U. INC 10k  
PAWNEE 4448' (-1519')  
79 U. SH GAS

SH- BLK SFT CARB

LS- OFF WHT TO CRM, HD TO BRITT, F-XLN, TR IMBD RE-XLN CALC XLS, ABDT IMBD PYR IP, IMBD FOSS IP, IMBD OOLITES IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

CFS @ 4467

LS- WHT TO TN, HD TO SFT BRITT, F-XLN TO RE-XLN IP, SCAT FOSS IP, GMMY CHLK IP, TR IMBD GY SH, TR PYR GRNS, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW

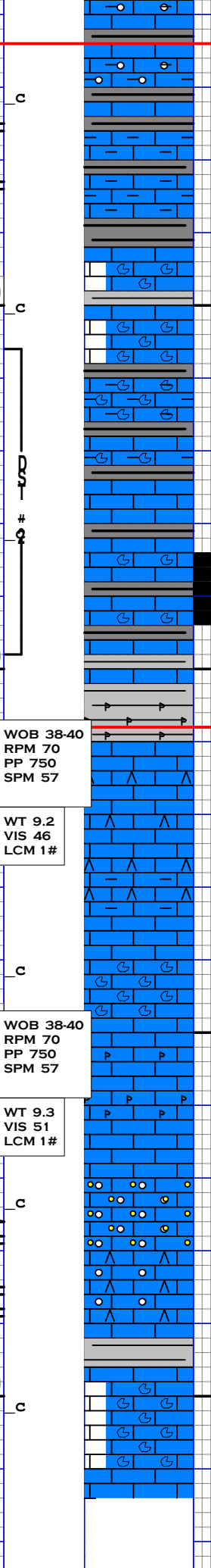
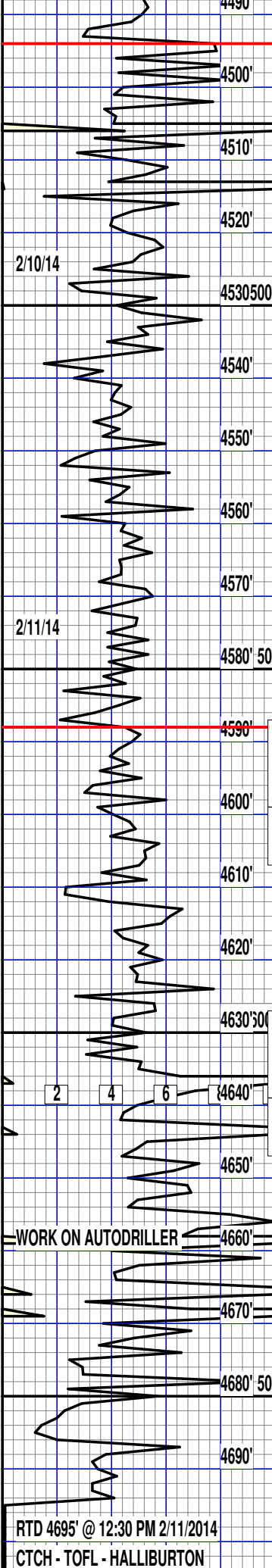
103 U. SH GAS

FT SCOTT 4482' (-1553')

LS- WHT TO CRM LT TN IP, HD DNS, V/F TO F-XLN, IMBD FOSS FRAG, IMBD OOLITES, IMBD SH IP, TR IMBD PYR, DLL YEL MIN

CFS @ 4490'





FLO IN 20%, NO VIS POR, NO SHOW

LS- WHT TO SFT BRITT IP, F-XLN TO SLI SUB-CHLKY IP, IMBD OOLITES, ABDT CARB SH IN TRAY, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS- LT GY TO LT TN, HD DNS, F-XLN TO CRYPTO-XLN TR RE-XLN MTRX, TR IMBD CARB SH IP, DLL YEL FLO IN 10%, NO VIS POR, NO SHOW

SH- BLK, SFT, CARB, IMBD PYR CLSTR IP

LS- WHT TO LT GY, HD DNS, F-XLN TO RE-XLN IP, ABDT FOSS FRAG, SFT WHT CHLK IP, V/DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

LS- WHT TO LT GY, HD DNS TO BRITT, V/F TO F-XLN, SFT WHT CHLK IP, IMBD MICRO FOSS IP, TR IMBD SH IP, TR PYR CLSTR IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

4570- LS- LT GY TO WHT (TN TO BLK OIL STN IN 5%), F-XLN RE-XLN TO V/ SUCRO IP, IMBD FOSS FRAG IP, TR SPOTTED GLD FLO, PR INTER XLN POR IN 5%, FR MICRO PP POR IN 5%, FR FLSH CUT, GD TO EXCEL SLOW STRM IN 10%, SLI OIL ODOR, OIL ON SAMPLE

SH- LT GY TO BLK, FRM BLKY, IMBD PYR CLSTR IP, SMTH TXT

LS- WHT TO CRM, HD DNS TO SFT, V/F-XLN TO SUB CHLKY, SFT WHT CHLK IP, TR WHT CHRT IN TRAY, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS- OFF WHT TO LT TN, HD DNS TO BRITT, V/F-XLN TO SLI SUCRO IP, TR RE-XLN IP, SFT WHT CHLK IP, TR IMBD GY SH IP, TR WHT TO LT TN CHRT IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

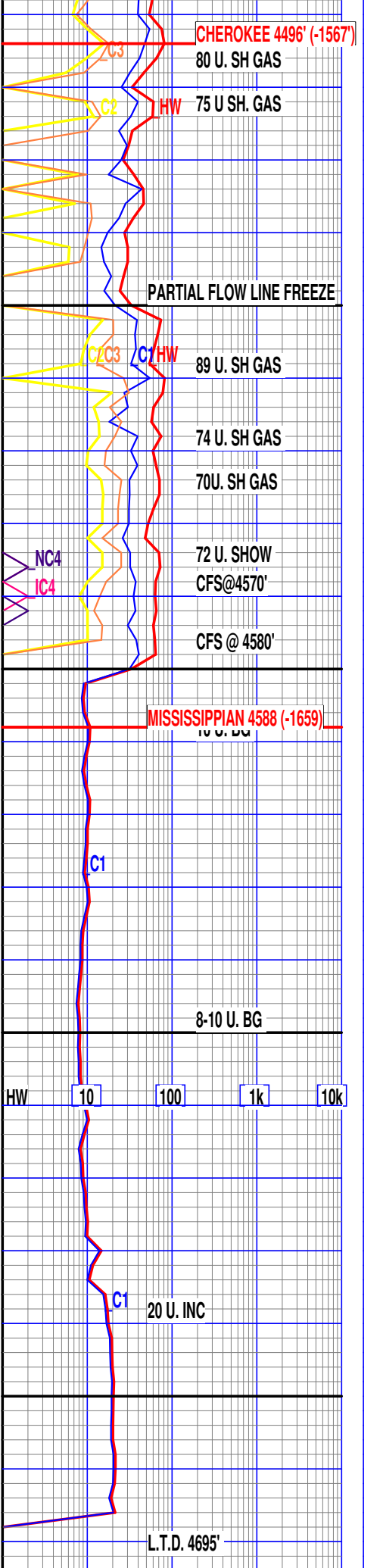
LS- OFF WHT TO LT TN IP, HD DNS TO BRITT, F-XLN TO SUCRO IP, TR RE-XLN, TR FOSS FRAG, DLL YEL MIN FLO IN 20%, TR PR INTER-XLN POR IP, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM LT TN (DOS IN 1%), HD DNS TO BRITT, MD-F-XN TT SUCRO IP, IMBD PYR CLSTR IP, TR SFT WHT CHLK, TR CRM CHRT IN TRAY, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS- LT GY TO BUFF OFF WHT IP, HD TO BRITT, MD XLN TO F-XLN, IMBD OOLITES IP, TR IMBD F-GRN QRTZ IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

LS- BUFF TO LT TN WHT IP, HD TO BRITT, MD XLN TO V/F-XLN IP, TR RE-XLN IP, TR IMBD OOLITES, TR WHT TO CRM CHRT IP, NO FLO, NO VIS POR, NO SHOW

LS- OFF WHT TO CRM, HD TO BRITT, F-XLN TO SUCRO SUB-CHLKY IP, V/ FOSS IP, IMBD SH IP, DLL YEL MIN FLO IN 25%, PR INTER-XLN POR IN 3%, NO VIS CUT OR SHOW



RTD 4695' @ 12:30 PM 2/11/2014  
CTCH - TOFL - HALLIBURTON

LOG COMPLETED BY IAN BOSMEIJER

L.T.D. 4695'

DST NO.: 1 From: 4325 TO: 4359

FORMATION: MARMATON

	PRESSURE (psi)	TIME (min)
INITIAL HYD:	2124	
INITIAL FLOW:	16-29	30
INITIAL SHUT IN:	814	60
FINAL FLOW:	30-44	30
FINAL SHUT IN:	744	60
FINAL HYD:	2104	

DRILL PIPE RECOVERY:

30' MUD

SAMPLER RECOVERY:

5%OIL 95% MUD

COMMENTS:

1ST OPEN 1" BLOW (NO BB), 2ND OPEN NO BLOW  
BHT 120

DST NO.: 2 From: 4538 TO: 4580

FORMATION: JOHNSON

	PRESSURE (psi)	TIME (min)
INITIAL HYD:	2267	
INITIAL FLOW:	7-12	30
INITIAL SHUT IN:	993	60
FINAL FLOW:	14-16	30
FINAL SHUT IN:	931	60
FINAL HYD:	2243	

DRILL PIPE RECOVERY:

10' MUD

SAMPLER RECOVERY:

TR OIL, MUD

COMMENTS:

1ST BLOW BUILD TO 0.5" DIED IN 20 MIN, NO BB,  
2ND BLOW - NO BLOW  
BHT 120

DST NO.: 3 From: 4252 TO: 4274

FORMATION: LCK "B"

	PRESSURE (psi)	TIME (min)
INITIAL HYD:	2211	
INITIAL FLOW:	33-61	15
INITIAL SHUT IN:	141	30
FINAL FLOW:	61	104
FINAL SHUT IN:	135	120
FINAL HYD:	2170	

DRILL PIPE RECOVERY:

140 TF, 10' GO (10%G, 90%OIL)

130' G&OCMW (5%G, 10%OIL, 50%WATER 35% MUD)

SAMPLER RECOVERY:

2% OIL, 80% WATER 18% MUD

COMMENTS:

1ST OPEN: 3" BLOW IN 5 MIN BUILD TO 5", 2ND OPEN 3" BLOW IN 21 MIN BUILD TO 6"  
STRADDLE TEST, BHT 122\*, CHLORIDES - 10,000PPM, PH 7, RW .8@ 59, GRAVITY 35

DST NO.: 4 From: 4028 TO: 4060

FORMATION: LANSING E

	PRESSURE (psi)	TIME (min)
INITIAL HYD:	2091	
INITIAL FLOW:	43-601	30
INITIAL SHUT IN:	1020	60
FINAL FLOW:	599-955	60
FINAL SHUT IN:	1020	120
FINAL HYD:	2029	

DRILL PIPE RECOVERY:

2720' MW (95% W, 5% M)

SAMPLER RECOVERY:

100% W

COMMENTS:

1ST BLOW - BOB IN 2 MIN (NO BB), 2ND BLOW - BOB IN 3 MIN (NO BB)

CHLORIDES - 22,000 PPM, PH 6, RW 0.34@60

BHT 126

# ALLIED OIL & GAS SERVICES, LLC 062662

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Grest Bend

DATE <u>2-13-14</u>	SEC. <u>35</u>	TWP. <u>17</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>8pm</u>	JOB FINISH <u>9pm</u>
LEASE <u>Craig</u>		WELL# <u>1-35</u>		LOCATION <u>Scotty - East Vanomed - 3N -</u>		COUNTY <u>Scott</u>	STATE <u>TX</u>
OLD OR NEW (Circle one)				<u>IE - Van - Minto</u>			

CONTRACTOR Bredia  
 TYPE OF JOB Rotary plug  
 HOLE SIZE 12 1/2 T.D.  
 CASING SIZE 8 1/2 DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH 2280  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. All  
 PERFS.  
 DISPLACEMENT Fresh water

OWNER  
 CEMENT  
 AMOUNT ORDERED 300 SKS 60/40 4 bagged  
1/4 flb

EQUIPMENT  
 PUMP TRUCK CEMENTER Jos L / Joel  
 # 398 HELPER Jos L Ellis  
 BULK TRUCK  
 # 6/0-170 DRIVER Brian Lang  
 BULK TRUCK  
 # DRIVER

COMMON	<u>180</u>	@ <u>17.90</u>	<u>3,222.00</u>
POZMIX	<u>120</u>	@ <u>9.35</u>	<u>1,122.00</u>
GEL	<u>10</u>	@ <u>23.40</u>	<u>234.00</u>
CHLORIDE		@	
ASC		@	
<u>Flas coal</u>	<u>75</u>	@ <u>2.97</u>	<u>222.75</u>
		@	
		@	
		@	
		@	
HANDLING	<u>322.20</u>	@ <u>2.48</u>	<u>799.05</u>
MILEAGE	<u>13.45 x 50 x</u>	<u>2.60</u>	<u>1,748.50</u>
TOTAL			<u>7,348.80</u>

**REMARKS:**

On location - Rig up - had safety meeting  
Run 4 1/2 drill pipe - fill hole w/ rig mud  
#1 - 2280 ft - 50 SKS  
#2 - 1550 - 81 RH - 30 SKS  
#3 - 750 - 50 MH - 20  
#4 - 450 - 50  
#5 - 50 - 20  
Plug down 8:30pm Rig down

**SERVICE**

DEPTH OF JOB			
PUMP TRUCK CHARGE		<u>2249.89</u>	
EXTRA FOOTAGE	@		
MILEAGE <u>Hum 50</u>	@ <u>7.70</u>		<u>385.00</u>
MANIFOLD	@		
	@		
	@		

TOTAL 2,634.89

CHARGE TO: Brexco LLC  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

	@		
	@		
	@		
	@		
	@		
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 Gilbert Davila JR

SIGNATURE X Gilbert Davila JR

Thank you!

SALES TAX (If Any)	_____
TOTAL CHARGES	<u>9,983.14</u>
DISCOUNT	<u>2,795.22</u>
	IF PAID IN 30 DAYS
	<u>7,187.86</u>



Date 2-13-14 District Greasbend Ticket No. 62662  
 Company Breco Rig Fraser 1  
 Lease Craig Well No. 1-35  
 County Schoff State KS  
 Location Salt City Exp + Winnie Rd Field 351731  
30 1E 4W Winto

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size \_\_\_\_\_ Type \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

Drill Pipe: Size 4 1/2 Weight 167 Collars A-hole  
 Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

**CAPACITY FACTORS:**

Casing: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

**CEMENT DATA:**

Spacer Type: Freshwater  
 Amt. 5651 sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time Thicken Time hrs. Type 60/40 4 1/2 4 1/2  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Skis Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_

Amt. \_\_\_\_\_ Skis Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 398 - Josh Ellis

Bulk Equip. - Brian Long

Float Equip: Manufacturer \_\_\_\_\_

Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_

Float: Type \_\_\_\_\_ Depth \_\_\_\_\_

Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

Stage Collars \_\_\_\_\_

Special Equip. \_\_\_\_\_

Disp. Fluid Type Freshwater Amt. \_\_\_\_\_ Bbls. Weight \_\_\_\_\_ PPG

Mud Type Native Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Josh Isaac

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						On location - log up
						had safety meeting
						run 4 1/2" drill pipe
						fill hole w/ log mud
						#1 - 2280 ft - 50 sks
						#3 - 1550 - 80
						#3 - 750 - 50
						#4 - 450 - 50
						#5 - 50 - 20
						PH - 30 SKS
						MH - 20 SKS
						plug down
						log down