



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1215805  
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: \_\_\_\_\_

1215805

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<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	Mears A 3-9
Doc ID	1215805

Tops

Name	Top	Datum
Anhyrite (top)	3206	+57
Anhydrite (base)	3238	+25
Foraker	3770	-507
Topeka	3996	-733
Oread	4126	-863
Lansing A	4207	-844
Lansing B	4265	-1001
Lansing C	4319	-1056
Lansing D	3262	-1099
Lansing E	4405	-1142
Lansing F	4450	-1187
Pawnee	4601	-1338
RTD	4760	
LTD	4759	

# WELL FILED ALLIED OIL & GAS SERVICES, LLC 061994

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Oakley, KS

DATE <u>3-23-14</u>	SEC. <u>9</u>	TWP. <u>19</u>	RANGE <u>37W</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00AM</u>	JOB FINISH <u>10:30AM</u>
LEASE <u>Meggs A</u>	WELL # <u>3-9</u>	LOCATION <u>Bird city N to R d A A</u>			COUNTY <u>Cherokee</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>38 2N SE into</u>			

CONTRACTOR Beredso #10  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 314  
 CASING SIZE 8 5/8 DEPTH 314  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15  
 PERFS.  
 DISPLACEMENT 19661

OWNER same  
 CEMENT  
 AMOUNT ORDERED 225 SKS com 30% cc  
20 gels

COMMON	<u>225 SKS @ 17.90</u>	<u>4027.50</u>
POZMIX	@	
GEL	<u>45 SKS @ 23.40</u>	<u>93.60</u>
CHLORIDE	<u>1.3 SKS @ 64.00</u>	<u>83.20</u>
ASC	@	
HANDLING	<u>243.3 cu ft @ 2.43</u>	<u>603.38</u>
MILEAGE	<u>10.57 ton x 50 x 2.00</u>	<u>1374.10</u>
TOTAL		<u>6930.58</u>

EQUIPMENT  
 PUMP TRUCK CEMENTER Kelly (label)  
 # 422 HELPER Wayne McElghy  
 BULK TRUCK  
 # 39 (at 306) DRIVER Juan T (105)  
 BULK TRUCK  
 # DRIVER

REMARKS:  
Rigged up.  
mixed cement  
displaced with water  
shut in  
Thank you  
Kelly & crew

CHARGE TO: Boredexco  
 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 FRED R GERMAN  
 SIGNATURE [Signature]

SERVICE  
 DEPTH OF JOB 314'  
 PUMP TRUCK CHARGE 1512.25  
 EXTRA FOOTAGE @  
 MILEAGE MILV 50 @ 7.70 385.00  
 MANIFOLD E wedge @ 275.00 NC  
MILV 50 @ 440 NC  
 TOTAL 1897.25

PLUG & FLOAT EQUIPMENT  
 @  
 @  
 @  
 @  
 @  
 TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 8,827.83  
 DISCOUNT 2,471.79 IF PAID IN 30 DAYS  
6,356.03 Net.





# WELL FILE

## ALLIED OIL & GAS SERVICES, LLC 063378

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Dallas

DATE <u>4/21/14</u>	SEC. <u>9</u>	TWP. <u>1</u>	RANGE <u>37</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30 AM</u>	JOB FINISH <u>6:30 AM</u>
LEASE <u>Mearst</u>		WELL # <u>3-9</u>		LOCATION <u>Bick City N 70 AA 3 E 2 N 9 E 70</u>		COUNTY <u>Cherokee</u>	STATE <u>Ky</u>
OLD OR NEW (Circle one)							

CONTRACTOR <u>Becker 10</u>	
TYPE OF JOB <u>Prod</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4760</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>4760</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42</u>
CEMENT LEFT IN CSG. <u>41'</u>	
PERFS.	
DISPLACEMENT <u>113.0</u>	

OWNER <u>Same</u>	
CEMENT	
AMOUNT ORDERED <u>450 Alum 3/4 Flo Seal</u>	
<u>250 Cem 1090 Salt 250 gal 5# Gilsprite</u>	

COMMON <u>2500</u>	@ <u>12.80</u>	<u>4475.00</u>
POZMIX	@	
GEL <u>5</u>	@ <u>23.40</u>	<u>117.00</u>
CHLORIDE	@	
<u>ALW 450 SK</u>	@ <u>15.25</u>	<u>7177.50</u>
<u>SALT 265K</u>	@ <u>26.35</u>	<u>6851.00</u>
<u>Gilprite 1250</u>	@ <u>2.20</u>	<u>2750.00</u>
<u>Flo Seal 338</u>	@ <u>2.92</u>	<u>1003.76</u>
HANDLING <u>24.89 CF</u>	@ <u>2.18</u>	<u>2045.73</u>
MILEAGE <u>24.22 from 4461</u>	@ <u>2.80</u>	<u>6781.60</u>
<b>2890</b>		<b>TOTAL 21190.81</b>

**REMARKS:**

Run Casing on late, mix 155K RH 10 SK MIT  
Mix of 1425 SK Down 5 1/2 Tail w/ 200  
Cem 1090 Salt 2070 gal 5# Gilsprite,  
High Truck, Dry Place Plug w/ 113  
DBL H 0' w/ 1400 P 57 1/2  
Load Plug @ 2000  
Flo at Hold  
Cement did not Circulate  
Thank You  
Alan Ryan, Juan  
Thomas

**SERVICE**

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>2765.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>50</u>	@ <u>2.20</u> <u>385.00</u>
MANIFOLD	@
<b>2890</b>	
<b>TOTAL 3190.25</b>	

**PLUG & FLOAT EQUIPMENT**

<u>AFU Float 5/8"</u>	@	<u>237.00</u>
<u>latch down</u>	@	<u>184.00</u>
<u>10 centralizers</u>	@	<u>578.00</u>
<u>20 scratchers</u>	@ <u>46.00</u>	<u>1200.00</u>
<b>090</b>		<b>TOTAL 2,227.00</b>

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 \_\_\_\_\_  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 26,568.56  
 DISCOUNT 6,815.63 (28%) IF PAID IN 30 DAYS  
19,752.92 Net



# CEMENTING LOG

STAGE NO. \_\_\_\_\_

Date 4/2/14 District Redding Ticket No. 062378  
 Company Renovo Rig Boreho 10  
 Lease Neas's A Well No. 3-9  
 County Cherokee State KS  
 Location \_\_\_\_\_ Field \_\_\_\_\_

CEMENT DATA:

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

LEAD: Pump Time \_\_\_\_\_ hrs. Type ALW 7/8" Floreal  
 Excess \_\_\_\_\_  
 Amt. 450 Skys Yield 120 ft<sup>3</sup>/sk Density 12.5 PPG \_\_\_\_\_

TAIL: Pump Time \_\_\_\_\_ hrs. Type Com 10 3/8 S&T 2 1/2 gal  
 Excess \_\_\_\_\_  
 Amt. 250 Skys Yield 148 ft<sup>3</sup>/sk Density 14.5 PPG \_\_\_\_\_

WATER: Lead 100 gals/sk Tail 62 gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 423-287  
 Bulk Equip. 566  
373

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type, AF 60 Depth \_\_\_\_\_  
 Centralizers: Quantity 14 Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. Seal stretchers 20-  
 Disp. Fluid Type H<sub>2</sub>O Amt. \_\_\_\_\_ Bbls. Weight 8.74 PPG \_\_\_\_\_  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG \_\_\_\_\_

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 5 1/2 Type Non Weight 15.12 Collar \_\_\_\_\_

Casing Depths: Top 419 Bottom 4760

Drill Pipe: Size 4 1/2 Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8 T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.038 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. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

COMPANY REPRESENTATIVE Ed Heines CEMENTER Reddy

TIME (AM/PM)	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
10:00						Location, SPR mig Setup Run Cas Circulate
				110.0	4.0	mit 15 9/16 BH 10 9/16 MH
				40.0	4.0	mit 40.5 5/16 ALW 14 1/2 to Bore 5 1/2
						Test w/ Com 10 3/8 S&T 2 1/2 gal 5" Cement
						Wash Truck
				30.0		Displace Plug w/ H <sub>2</sub> O
				40.0		
				60.0		
				70.0		
				80.0		
				100.0		
				110.0		
						Land Plug
6:30 AM						Job Complete



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**9/1s/37w Cheyenne KS**

**Mears 'A' #3-9**

Job Ticket: 56980

**DST#: 1**

Test Start: 2014.03.27 @ 18:19:00

## GENERAL INFORMATION:

Formation: **Oread**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:38:45  
 Time Test Ended: 05:56:15  
 Interval: **4095.00 ft (KB) To 4150.00 ft (KB) (TVD)**  
 Total Depth: 4150.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder  
 Unit No: 57  
 Reference Elevations: 3263.00 ft (KB)  
 3252.00 ft (CF)  
 KB to GR/CF: 11.00 ft

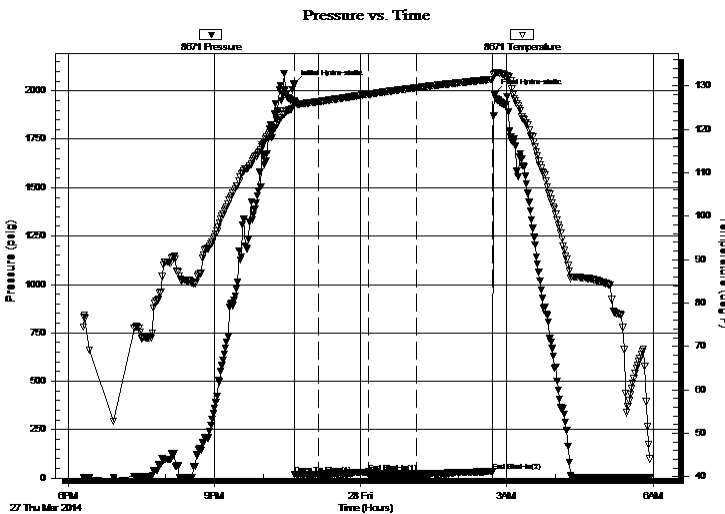
## Serial #: 8671

Inside

Press @ Run Depth: 21.96 psig @ 4096.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.27 End Date: 2014.03.28 Last Calib.: 2014.03.28  
 Start Time: 18:19:05 End Time: 05:56:15 Time On Btm: 2014.03.27 @ 22:38:15  
 Time Off Btm: 2014.03.28 @ 02:44:45

TEST COMMENT: 30 - IF: 1/8" Blow at open, died back, dead at 8 min.  
 60 - IS: No blow back  
 60 - FF: No blow  
 90 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.96	126.55	Initial Hydro-static
1	18.89	125.98	Open To Flow (1)
31	20.63	126.40	Shut-In(1)
91	31.74	128.10	End Shut-In(1)
92	19.87	128.10	Open To Flow (2)
151	21.96	129.60	Shut-In(2)
244	34.18	131.52	End Shut-In(2)
247	1984.47	132.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02
0.00	Oil spots in tool	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco, LLC

**9/1s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**Mears 'A' #3-9**

Job Ticket: 56980

**DST#: 1**

ATTN: Bryan Bynog

Test Start: 2014.03.27 @ 18:19:00

## 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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025
0.00	Oil spots in tool	0.000

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8671

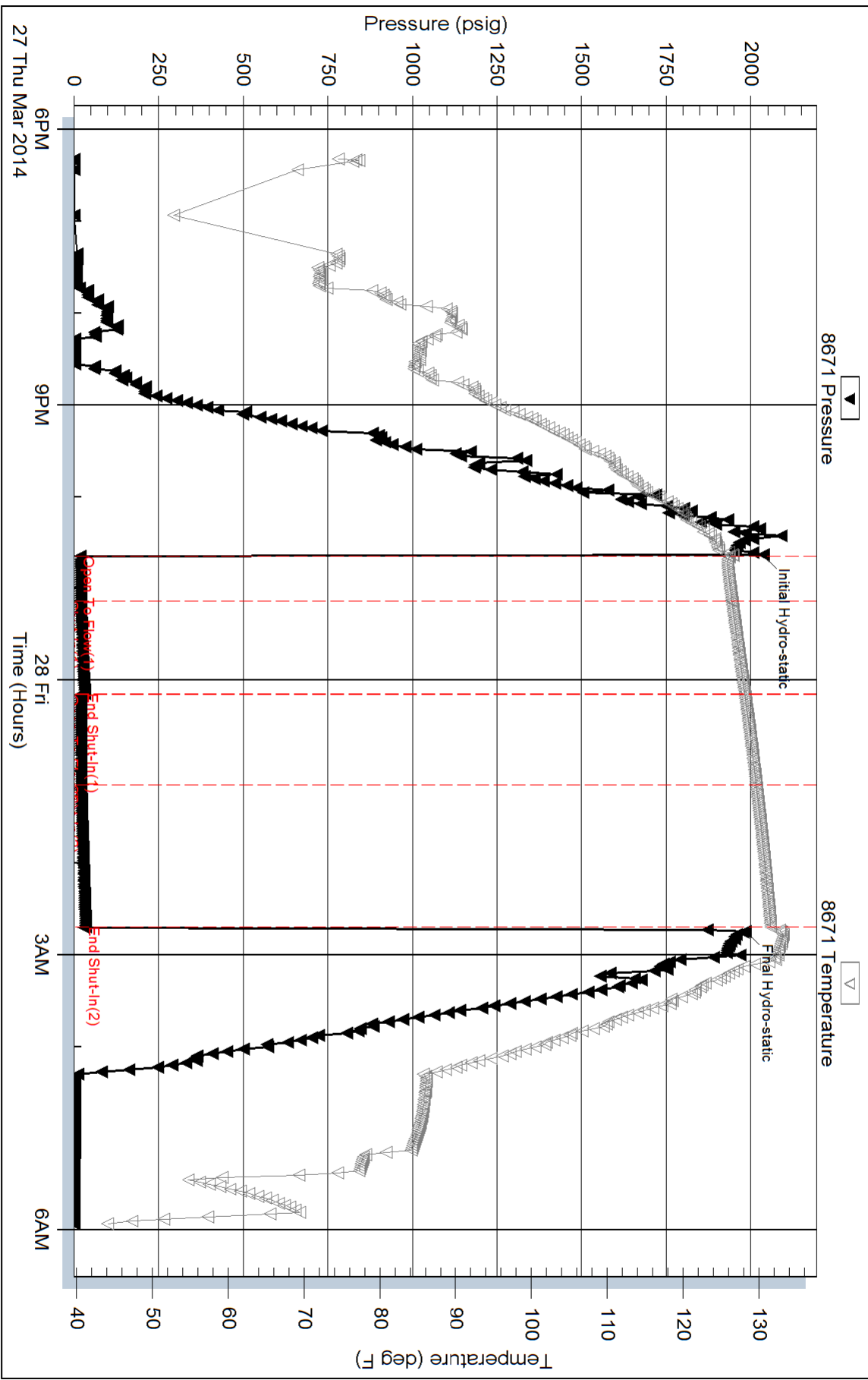
Inside

Berexco, LLC

Mears 'A' #3-9

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 56980

Printed: 2014.03.28 @ 06:55:20



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco, LLC

9/1s/37w Cheyenne KS

2020 N. Bramblewood  
Wichita, KS 67206

Mears 'A' #3-9

Job Ticket: 55978

DST#: 2

ATTN: Bryan Bynog

Test Start: 2014.03.29 @ 04:33:00

## GENERAL INFORMATION:

Formation: **LKC " B & C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:24:15

Time Test Ended: 16:29:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 57

Interval: **4230.00 ft (KB) To 4360.00 ft (KB) (TVD)**

Total Depth: 4360.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3263.00 ft (KB)

3252.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press @ Run Depth: 75.70 psig @ 4231.00 ft (KB)

Start Date: 2014.03.29

End Date:

2014.03.29

Start Time: 04:33:05

End Time:

16:29:00

Capacity: 8000.00 psig

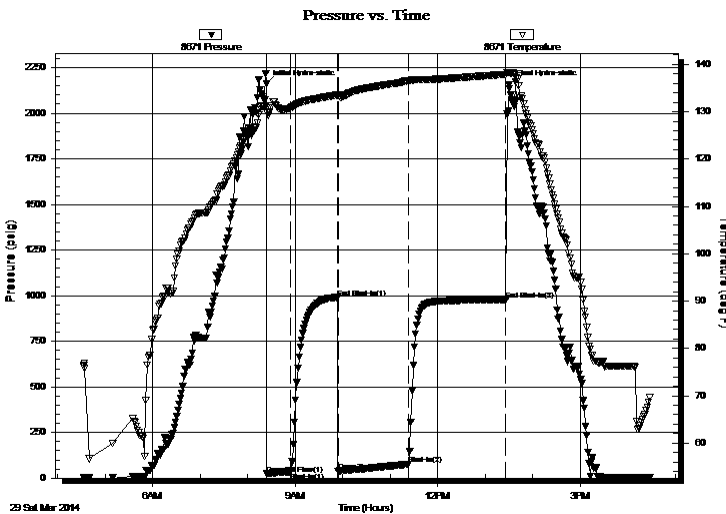
Last Calib.: 2014.03.29

Time On Btm: 2014.03.29 @ 08:24:00

Time Off Btm: 2014.03.29 @ 13:30:15

TEST COMMENT: 30-IF- Blow Built To 3/4"  
60-ISI-No Return  
60-FF-Blow Built To 1"  
120-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.07	131.22	Initial Hydro-static
1	23.23	129.92	Open To Flow (1)
30	34.65	130.73	Shut-In(1)
90	990.45	133.52	End Shut-In(1)
91	38.47	133.64	Open To Flow (2)
180	75.70	136.58	Shut-In(2)
303	977.75	137.88	End Shut-In(2)
307	2158.76	138.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
119.00	ocm 10%o 90% m	0.59
1.00	clean oil 100%o	0.00

\* 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

**9/1s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**Mears 'A' #3-9**

Job Ticket: 55978

**DST#: 2**

ATTN: Bryan Bynog

Test Start: 2014.03.29 @ 04:33:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

20 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 93.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
119.00	ocm 10%o 90%m	0.585
1.00	clean oil 100%o	0.005

Total Length: 120.00 ft      Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

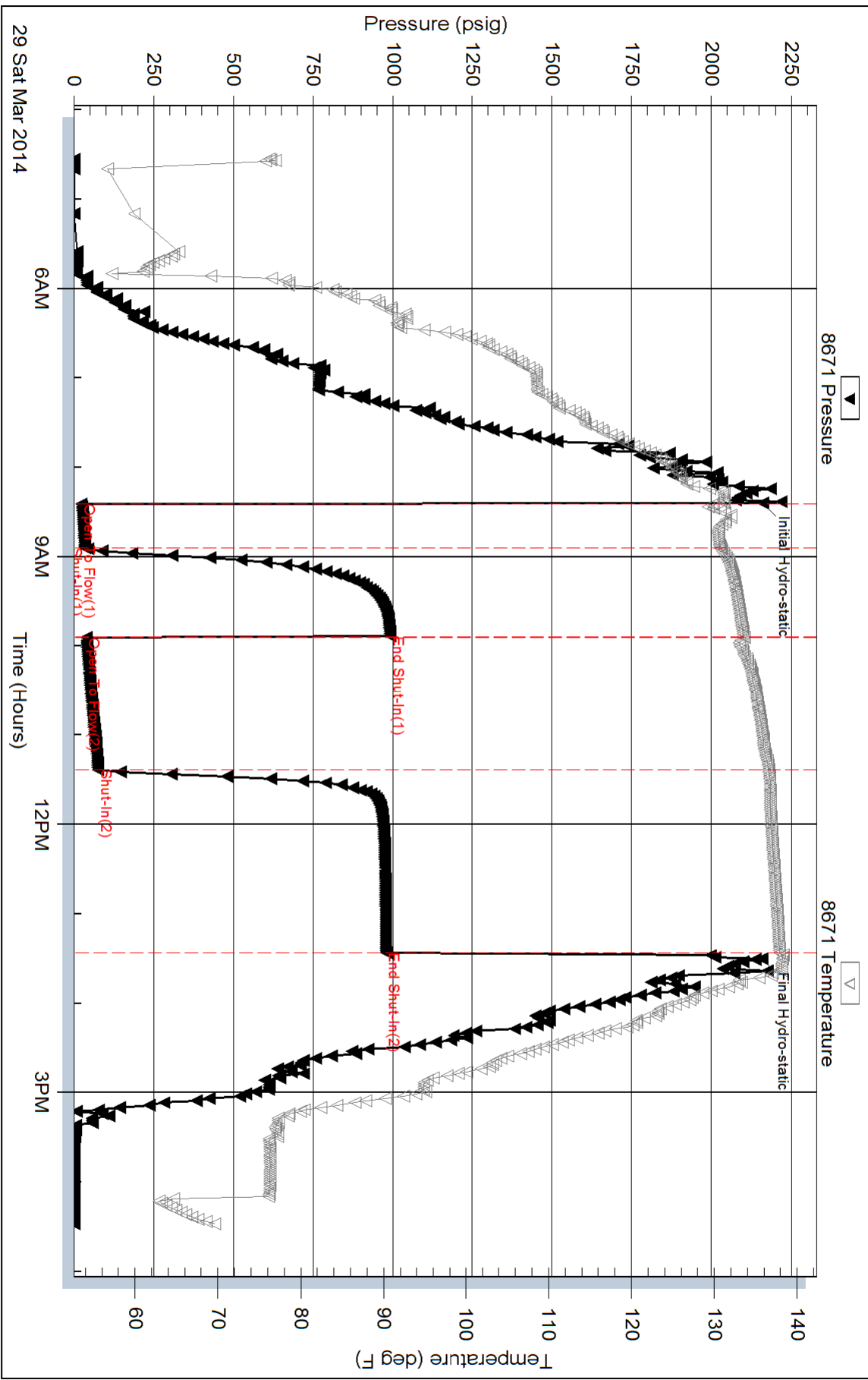
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**9/1s/37w Cheyenne KS**

**Mears 'A' #3-9**

Job Ticket: 55979

**DST#: 3**

Test Start: 2014.03.30 @ 06:55:00

## GENERAL INFORMATION:

Formation: **LKC " D&E "**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 10:22:45  
 Tester: Robert Zodrow  
 Time Test Ended: 17:16:45  
 Unit No: 57  
 Interval: **4335.00 ft (KB) To 4435.00 ft (KB) (TVD)**  
 Reference Elevations: 3263.00 ft (KB)  
 Total Depth: 4435.00 ft (KB) (TVD)  
 3252.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 11.00 ft

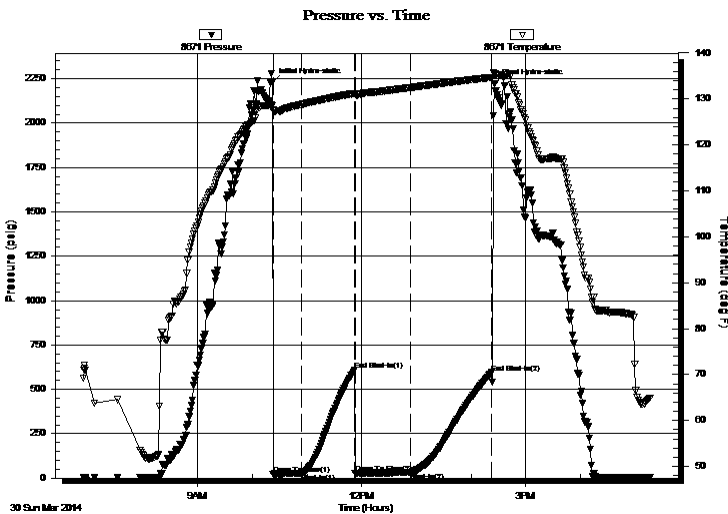
## Serial #: 8671

Inside

Press @ RunDepth: 30.15 psig @ 4336.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.30 End Date: 2014.03.30 Last Calib.: 2014.03.30  
 Start Time: 06:55:05 End Time: 17:16:45 Time On Btm: 2014.03.30 @ 10:22:30  
 Time Off Btm: 2014.03.30 @ 14:26:00

TEST COMMENT: 30-IF-Blow Built To 1/2"  
 60-ISI-No Return  
 60-FF-No Blow  
 90-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.13	128.62	Initial Hydro-static
1	22.28	127.42	Open To Flow (1)
32	26.25	128.81	Shut-In(1)
90	611.36	131.21	End Shut-In(1)
91	27.40	130.91	Open To Flow (2)
151	30.15	132.47	Shut-In(2)
240	594.12	134.70	End Shut-In(2)
244	2224.45	135.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**9/1s/37w Cheyenne KS**  
**Mears 'A' #3-9**  
 Job Ticket: 55979 **DST#: 3**  
 Test Start: 2014.03.30 @ 06:55:00

## GENERAL INFORMATION:

Formation: **LKC " D&E "**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 10:22:45 Tester: Robert Zodrow  
 Time Test Ended: 17:16:45 Unit No: 57  
**Interval: 4335.00 ft (KB) To 4435.00 ft (KB) (TVD)**  
 Reference Elevations: 3263.00 ft (KB)  
 Total Depth: 4435.00 ft (KB) (TVD) 3252.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

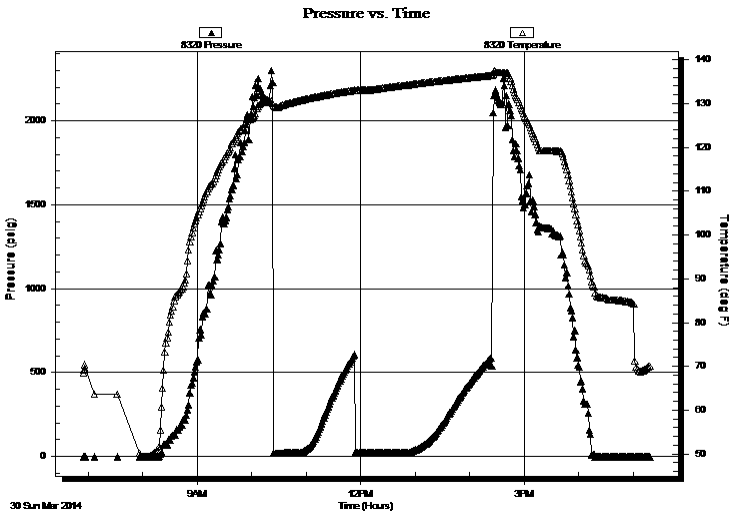
## Serial #: 8320

Outside

Press @ Run Depth: psig @ 4336.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.30 End Date: 2014.03.30 Last Calib.: 2014.03.30  
 Start Time: 06:55:05 End Time: 17:18:30 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30-IF-Blow Built To 1/2"  
 60-ISI-No Return  
 60-FF-No Blow  
 90-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco, LLC

**9/1s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**Mears 'A' #3-9**

Job Ticket: 55979

**DST#: 3**

ATTN: Bryan Bynog

Test Start: 2014.03.30 @ 06:55:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

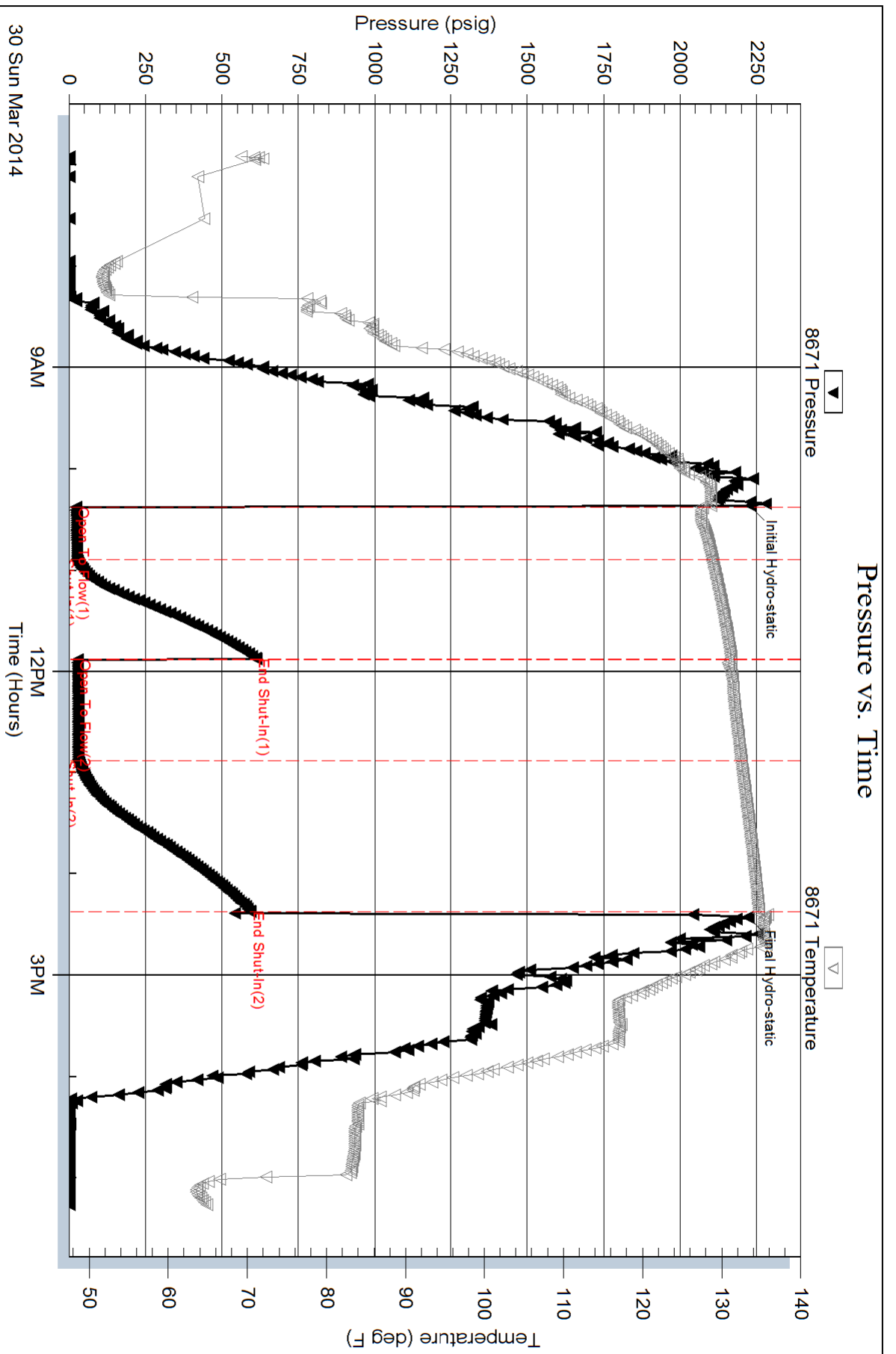
Num Gas Bombs: 0

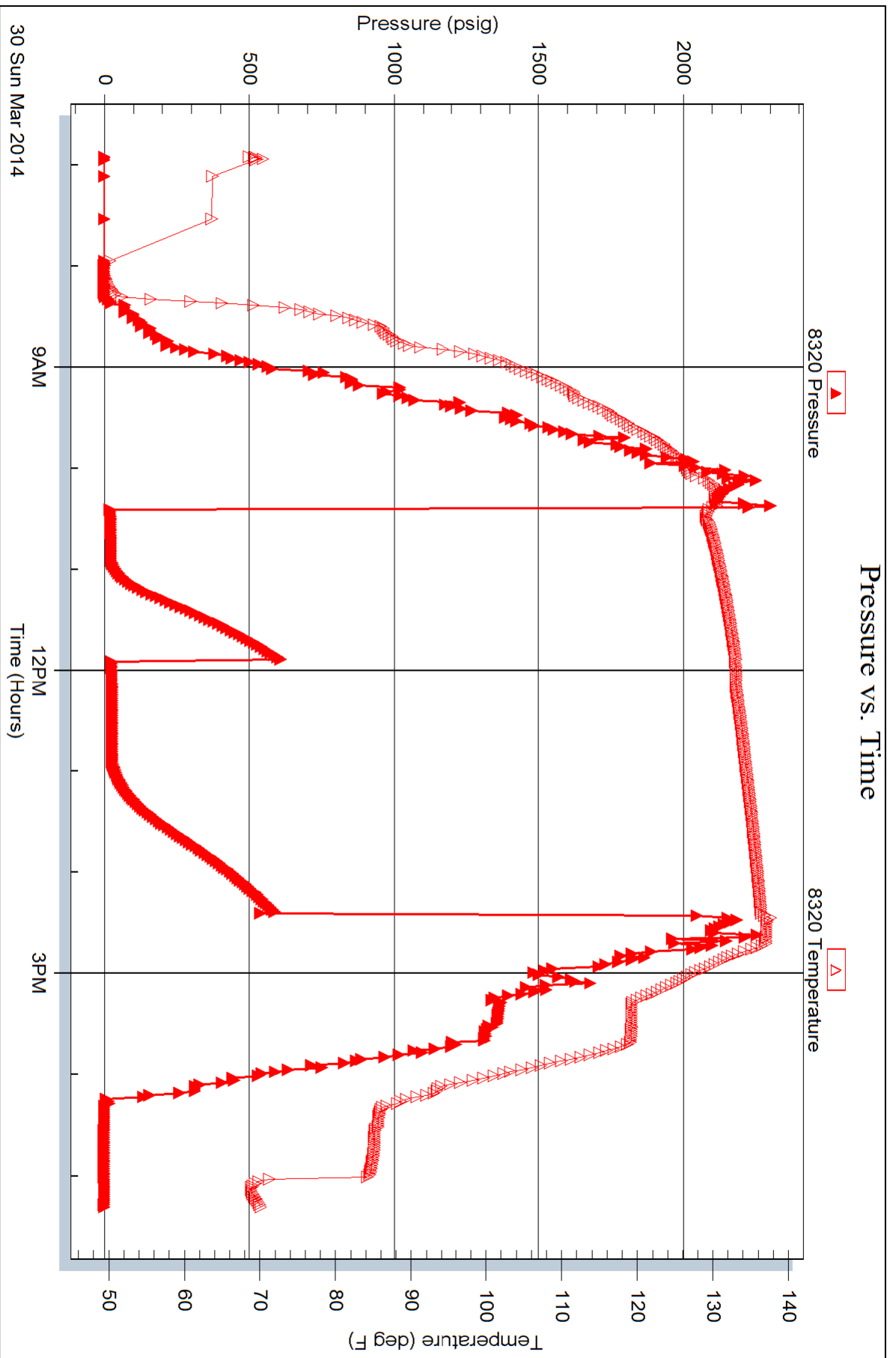
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco, LLC

**9/1s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**Mears 'A' #3-9**

Job Ticket: 55980

**DST#: 4**

ATTN: Bryan Bynog

Test Start: 2014.03.31 @ 13:30:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:08:30

Time Test Ended: 05:52:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 57

**Interval: 4585.00 ft (KB) To 4625.00 ft (KB) (TVD)**

Reference Elevations: 3263.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

3252.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 570.40 psig @ 4586.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.31

End Date:

2014.04.01

Last Calib.:

2014.04.01

Start Time: 13:30:05

End Time:

05:52:15

Time On Btm:

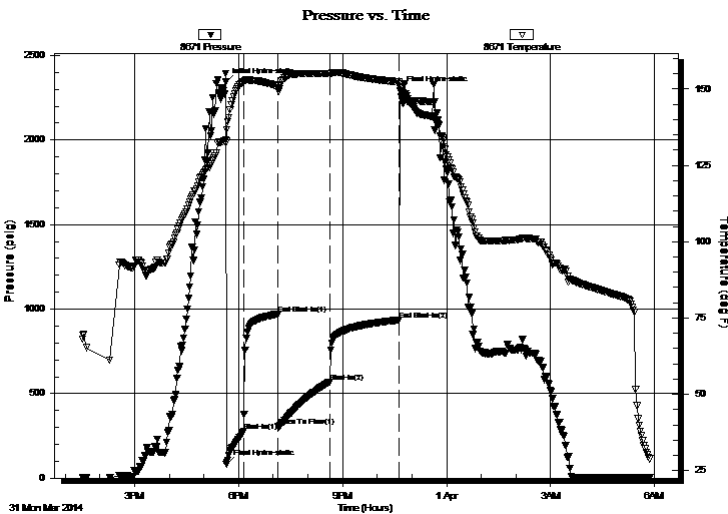
2014.03.31 @ 17:38:00

Time Off Btm:

2014.03.31 @ 17:38:30

**TEST COMMENT:** 30-IF- Bob In 3 Mins  
60-ISI- Bob In 10 Mins  
90-FF- Bob In 7 Mins  
120-FSI- Return Built To 2"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2342.12	133.25	Initial Hydro-static
1	81.88	132.87	Final Hydro-static
31	276.80	152.53	Shut-In(1)
91	967.89	150.95	End Shut-In(1)
91	308.38	150.53	Open To Flow (1)
180	570.40	155.10	Shut-In(2)
300	934.46	152.32	End Shut-In(2)
302	2293.15	150.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	gocm 20%g 35%o 45%m	0.59
1344.00	clean oil 30%g 70%o	16.21
0.00	1364 GIP	0.00

## 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

**9/1s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**Mears 'A' #3-9**

Job Ticket: 55980

**DST#: 4**

ATTN: Bryan Bynog

Test Start: 2014.03.31 @ 13:30:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 163.00 sec/qt  
Water Loss: 6.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 800.00 ppm  
Filter Cake: 2.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 36 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gocm 20%g 35%o 45%m	0.590
1344.00	clean oil 30%g 70%o	16.211
0.00	1364 GIP	0.000

Total Length: 1464.00 ft      Total Volume: 16.801 bbl

Num Fluid Samples: 0

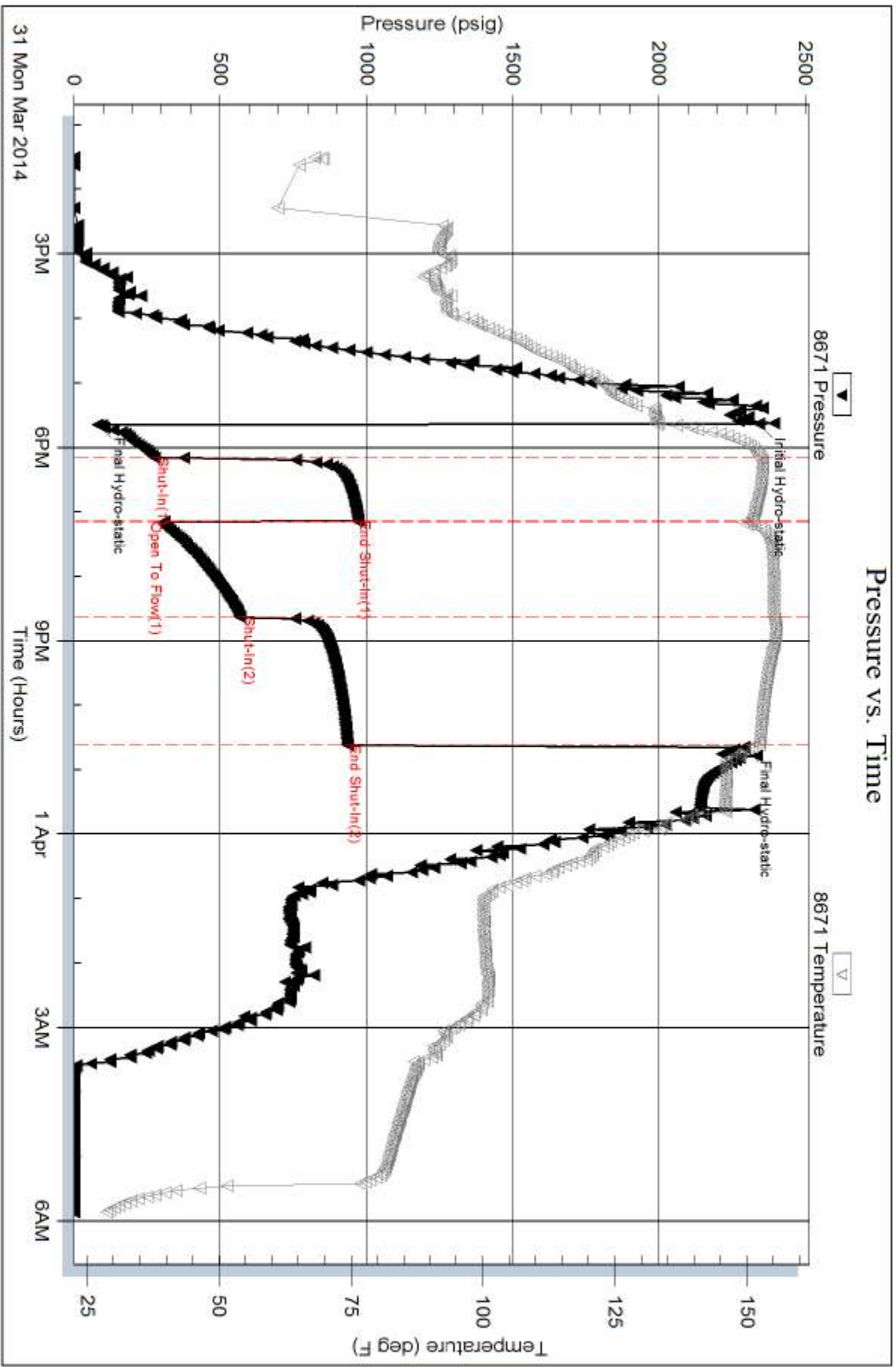
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**BEREXCO, LLC.  
MEARS A #3-9  
SWNESESE SECTION 9 1S-37W  
CHEYENNE COUNTY, KANSAS**

**GEOLOGIST  
WILLIAM B. BYNOG**

## RESUME

OPERATOR: BEREXCO, LLC.

WELL NAME & NUMBER: MEARS A#3-9

LOCATION: SWNESESE SECTION 9 1S-37W

COUNTY: CHEYENNE

STATE: KANSAS

SPUD DATE: 3-22-2014 COMPLETION DATE: 4-2-2014

ELEVATIONS: GL: 3252 KB: 3263

CONTRACTOR: BEREDCO RIG 10

LOGS: LOG TECH TYPES: RAG, MICROLOG

WELLSITE ENGINEER: NONE

MUD COMPANY: MORGAN MUD

MUD TYPE & ENGINEER: FRESH CHEMICAL

GEOLOGIST: WILLIAM B.BYNOG

HOLE SIZE: 7 7/8

MUD LOGGING BY: NONE

DRILL STEM TEST COMPANY: TRILOBITE

DRILL STEM TEST: DST#1 4095-4150, DST#2 4230-4360,  
DST#34335-4435, DST#44585-4625

WELL STATUS: RAN 5 ½ PRODUCTION PIPE



## DISCUSSION

Mears A #3-9 is a wildcat well drilled a total depth of 4760 feet testing the Lansing Kansas City, Pawnee and Cherokee formations in Cheyenne County, Kansas. This well was drilled with the help of seismic data and well control.

Structurally, Mears A #3-9 came in 7 feet high to the prognosis and other producers in the area.

As a result of running high there were fair sample shows and fair porosity development in the Oread, Lansing B, C and E zones and good development in the Pawnee zone. The Oread was tested on drill stem test #1 recovering only 5 feet of mud. Drill stem test #2 on the Lansing B and C zones had better results recovering 1 foot of free oil and 119 feet of oil cut mud. Drill stem test #3 on the D and E zones recovered only 5 feet of mud. The Pawnee is the best zone with very good porosity development and excellent oil shows in a clean grainstone. Drill stem test #4 recovered 1364 feet of gas in pipe, 1344 feet of clean oil and 120 feet of gas and oil cut mud with good permeability.

Logs agreed with sample evaluation recording fair to good porosity development with high resistivity. The Lansing Kansas City zones were tight, testing small amounts of free oil. The Pawnee zone is a very permeable grainstone with 18% porosity.

A decision was made to run 5 ½ production casing based on favorable drill stem tests and log calculations.

MEARS A 3-9 SAMPLES DESCRIPTIONS  
BREDECO DRILLING RIG 10 DRILLING 7 7/8 HOLE

3500-3700 SHALE red,dft,very argillaceous,very silty in part

3700-70 SHALE red,very silty

3770-88 LIMESTONE pale gray,hard,blocky,dense,dirty

FORAKER

3788-3806 LIMESTONE pale gray,firm,slightly oolitic,chalky,poor pinpoint vuggy porosity,spotty to even live brown stain,good milky cut,poor show free oil

3806-24 SHALE as above

3824-36 SANDSTONE pale gray,green,firm,very fine grained,calcareous cement,poor porosity,no shows

3836-70 SHALE gray,green,firm,argillaceous

3870-76 LIMESTONE pale gray,hard,slightly sandy,poor porosity,no shows

3876-3910 SHALE red,green,pale gray,firm,silty in part

## MEARS A 3-9 SAMPLES DESCRIPTIONS

3910-46 SHALE red,very soft,very argillaceous with thin LIMESTONE as above no shows

3946-62 LIMESTONE white,pale gray,slightly hard,slightly fossils,chalky,poor porosity,spotty black dead stain,no free oil

3962-4008 SHALE red,soft,very argillaceous

### TOPEKA

4008-60 LIMESTONE buff,slightly hard,slightly fossils,sandy in part,poor porosity,very spotty black dead stain,no free oil with thin SHALE as above

4060-90 SHALE as above

4090- 4106 LIMESTONE buff,very hard,dense, blocky,smth texture,no shows with thin SHALE

4106-40 SHALE green,firm,waxy,very argillaceous in part

### OREAD

4140-46 GRAINSTONE white,firm,fossils,slightly chalky,poor to fair vuggy porosity,spotty to even live brown stain,good milky cut,good show free oil

4146-60 LIMESTONE buff,hard,dense,blocky,poor poor to poor vuggy porosity,very spotty live brown stain,good cut

4160-84 LIMESTONE pale gray,very hard,dense,blocky,no shows

A

## MEARS A 3-9 SAMPLES DESCRIPTIONS

4184-4212 SHALE red,very soft,very argillaceous some dark gray,slightly hard,fissile

4212-40 LIMESTONE pale gray,tan,very hard,dense,smth texture,poor porosity,no shows

4240-70 SHALE as above with some SANDSTONE white,very fine grained,friable,chalky,very spotty black dead stain

B

4270-82 LIMESTONE white,firm,slightly fossils,chalky,poor pinpoint vuggy porosity,very spotty live brown stain,good cut,fair show free oil

4282-4300 LIMESTONE buff,very hard,dense, blocky,smth texture,no shows with thin SHALE as above

4300-21 SHALE red,very soft,very argillaceous

C

4321-25 GRAINSTONE white,firm,very fossils,fair intg and crystalline porosity,spotty to even live brown stain,very good milky cut,fair show free oil,fair odor

4325-36 LIMESTONE white,firm,chalky, slightly fossils,poor pinpoint porosity,very spotty live brown stain,fair cut

4336-50 LIMESTONE pale gray,very hard,dense,poor porosity,no shows

MEARS A 3-9 SAMPLES DESCRIPTIONS

4350-60 SHALE green,firm,waxy,fissile

4360-66 SHALE red,firm,silty some sandy in part

D

4372-92 LIMESTONE buff,very hard,dense, smth texture,no shows

4392-4408 SHALE as above

E

4408-16 GRAINSTONE white, firm,fossils,chalky,poor to fair intg and crystalline porosity,spotty live brown stain,good milky cut,fair show free oil

4416-26 LIMESTONE white,slightly hard,sub chalky,poor porosity,no shows

4426-57 SHALE red,firm,argillaceous,silty in part

F

4457-76 LIMESTONE buff,very hard,dense, chalky in part,poor porosity,no shows

4470-4500 LIMESTONE as above with interbed SHALE as above

4500-22 LIMESTONE buff,pale gray,hard,blocky,dense,chalky in part no shows

## MEARS A 3-9 SAMPLES DESCRIPTIONS

4522-78 SHALE red,firm,silty, some sandy in part with very thin LIMESTONE as above pale gray,hard,dense,no shows

4578-90 LIMESTONE pale gray,very hard,dense,no shows

4590-4604 SHALE pale gray,green,slightly hard,waxy in part

PAWNEE

4604-12 GRAINSTONE white,slightly hard,very oolitic,clean,fair intg porosity, even brown stain,good milky cut,fair show free oil

4612-62 LIMESTONE pale gray,hard,dense, chalky in part,dense,some Chert orange,no shows with very thin SHALE dark gray black,firm,fissile,carbonaceous

4664-84 SHALE red,green,firm,waxy, some black carbonaceous

4684-4710 LIMESTONE buff,gray,very hard,dense, chalky in part,poor porosity,no shows

4710-46 SHALE as above with interbed SANDSTONE pale red,white,very hard,very fine to m good,dense, sileous,no vis porosity,no shows

4746-60 LIMESTONE and SHALE as above

RTD 4760'

LTD 4759'

MEARS A 3-9 SAMPLES DESCRIPTIONS

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/>

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

August 11, 2014

Rodney Reynolds  
BEREXCO LLC  
2020 N. Bramblewood  
Wichita, KS 67206-1094

Re: ACO-1  
API 15-023-21370-00-00  
Mears A 3-9  
SE/4 Sec.09-01S-37W  
Cheyenne County, Kansas

Dear Rodney Reynolds:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 03/22/2014 and the ACO-1 was received on July 24, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department