Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1333121

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 # 34318
Name: BEREXCO LLC
Address 1: 2020 N. BRAMBLEWOOD
Address 2:
City: WICHITA State: KS Zip: 67206 + 1094
Contact Person: Rodney Reynolds
Phone: (316) 265-3311
CONTRACTOR: License # 34317
Name: BEREDCO LLC
Wellsite Geologist: Bryan Bynog
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 #:

9/7/2016	9/17/2016	9/18/2016
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-023-21452-00-00
Spot Description:
_ - _ - SW - SE Sec. 27 Twp. 5 S. R. 38 ☐ East ☑ West
730 Feet from ☐ North / ☑ South Line of Section
1980 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Cheyenne
Lease Name: DELORES Well #: 1-27
Field Name:
Producing Formation: marmaton
Elevation: Ground: 3478 Kelly Bushing: 3489
Total Vertical Depth: 5200 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 377 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: 1000 ppm Fluid volume: 600 bbls
Dewatering method used: Evaporated

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: 02/08/2017
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 02/08/2017

[redacted]

1333121

Operator Name: BEREXCO LLC Lease Name: DELORES Well #: 1-27

Sec. 27 Twp. 5 S. R. 38 ☐ East ☑ West County: Cheyenne

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	377	common	250	3% CC
Production	7.875	4.5	11.6	4836	lite & common	400	3/4# floseal, 10% salt, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	DELORES 1-27
Doc ID	1333121

All Electric Logs Run

Dual Induction log
Microresitivity log
Radiation Guard log
Dual Comp Porosity
Sonic log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	DELORES 1-27
Doc ID	1333121

Tops

Name	Top	Datum
Anhydrite	3150	339
Base anhydrite	3189	300
Foraker	3814	-325
Topeka	4120	-631
Oread	4234	-745
LKC A	4310	-821
LKC B	4360	-871
LKC C	4418	-929
LKC D	4459	-970
LKC E	4508	-1019
LKC F	4545	-1056
Pawnee	4720	-1231
Cherokee	4805	-1316
Mississippian	5028	-1539
TD	5200	-1711

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	DELORES 1-27
Doc ID	1333121

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	377	common	250	3% CC
Production	7.875	4.5	11.6	4836	lite & common	400	3/4# floseal, 10% salt, 2% gel

DRILL STEM TEST REPORT

Berexco, LLC

220 N Bramblew ood
Wichita, Ks 67206

ATTN: Bryan Bynos

27 5s 38w Cheyene, Ks

Delores #1-27

Job Ticket: 65562 **DST#: 1**

Test Start: 2016.09.12 @ 11:14:00

GENERAL INFORMATION:

Formation: **LKC - A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:11:30
Time Test Ended: 21:20:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 78

Interval: 4248.00 ft (KB) To 4440.00 ft (KB) (TVD)
Total Depth: 4440.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

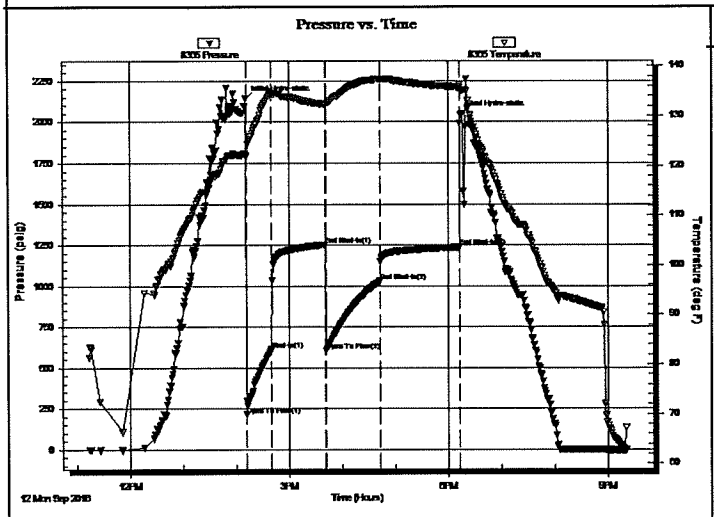
Reference Elevations: 3489.00 ft (KB)
3478.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8365 **Inside**

Press@RunDepth: 612.83 psig @ 4249.00 ft (KB)
Start Date: 2016.09.12 End Date: 2016.09.12
Start Time: 11:14:05 End Time: 21:20:45

Capacity: 8000.00 psig
Last Calib.: 2016.09.12
Time On Btm: 2016.09.12 @ 14:11:00
Time Off Btm: 2016.09.12 @ 18:13:45

TEST COMMENT: IF: BOB @ 3 min.
ISI: No return.
FF: BOB @ 3 min.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.31	122.45	Initial Hydro-static
1	213.39	121.88	Open To Flow (1)
29	612.83	134.64	Shut-In(1)
90	1252.85	132.33	End Shut-In(1)
91	605.85	132.12	Open To Flow (2)
152	1029.72	137.31	End Shut-In(2)
242	1236.30	135.71	End Shut-In(3)
243	2044.34	134.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1230.00	mcw 15m 85w (Oil spots in tool)	14.59

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

220 N Bramblew ood
Wichita, Ks 67206

ATTN: Bryan Bynos

27 5s 38w Cheyene, Ks

Delores #1-27

Job Ticket: 65562 **DST#: 1**

Test Start: 2016.09.12 @ 11:14:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	24000 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4200.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1230.00	mcw 15m 85w (Oil spots in tool)	14.594

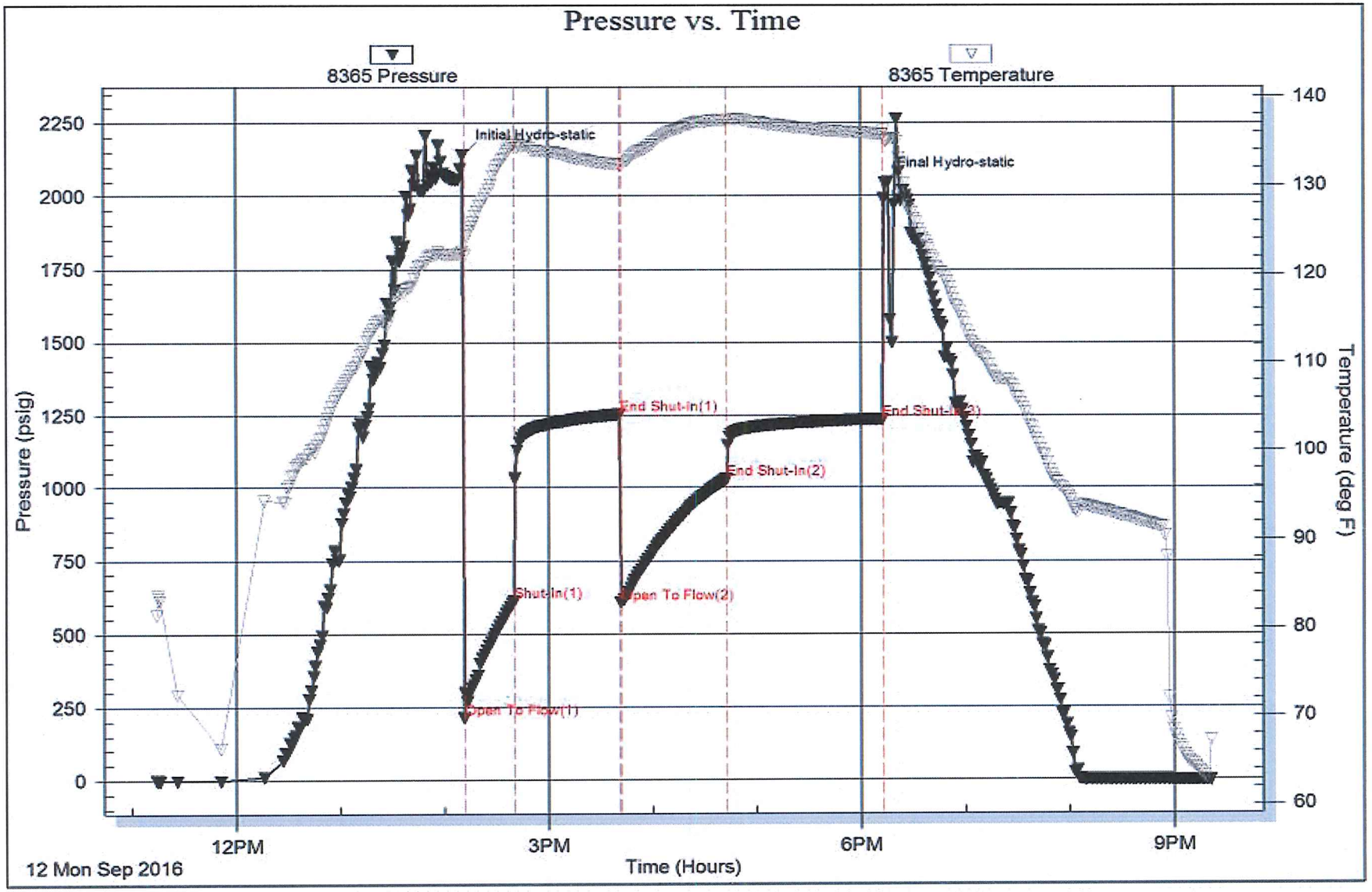
Total Length: 1230.00 ft Total Volume: 14.594 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .279 @ 74f = 24000ppm

Serial #: 8365 **Inside** Berexco, LLC Delores #1-27 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65562 Printed: 2016.09.13 @ 07:09:25

DRILL STEM TEST REPORT

Berexco, LLC

220 N Bramblew ood
Wichita, Ks 67206

ATTN: Bryan Bynos

27 5s 38w Cheyene, Ks

Delores #1-27

Job Ticket: 65563 **DST#: 2**

Test Start: 2016.09.13 @ 10:41:00

GENERAL INFORMATION:

Formation: **LKC D-E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:59:45
Time Test Ended: 18:29:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 4425.00 ft (KB) To 4540.00 ft (KB) (TVD)
Total Depth: 4540.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

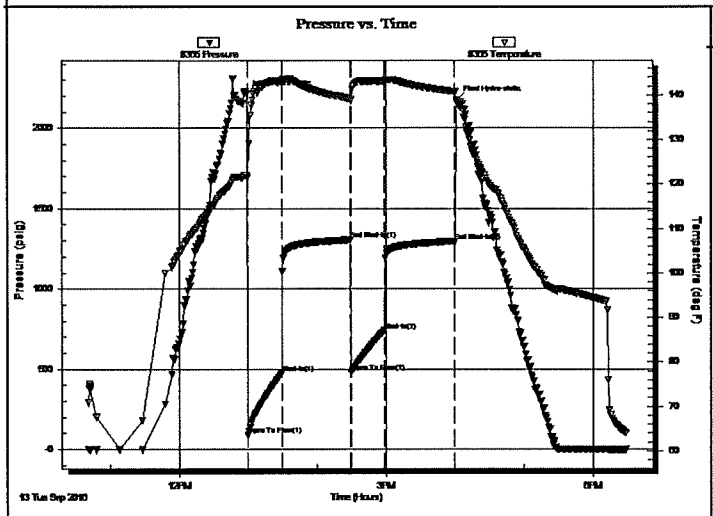
Reference Elevations: 3489.00 ft (KB)
3478.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8365 **Inside**

Press@RunDepth: 737.83 psig @ 4426.00 ft (KB)
Start Date: 2016.09.13 End Date: 2016.09.13
Start Time: 10:41:05 End Time: 18:28:59

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2016.09.13 @ 12:59:00
Time Off Btm: 2016.09.13 @ 16:02:00

TEST COMMENT: IF: BOB @ 4 minutes.
ISI: No return.
FF: BOB @ 4 minutes
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.48	121.90	Initial Hydro-static
1	87.79	121.54	Open To Flow (1)
31	474.76	143.18	Shut-In(1)
91	1305.25	139.14	End Shut-In(1)
91	479.91	138.62	Open To Flow (2)
120	737.83	143.07	Shut-In(2)
182	1296.54	140.71	End Shut-In(2)
183	2176.77	138.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1460.00	mcw 5m 95w	17.82

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

220 N Bramblew ood
Wichita, Ks 67206

ATTN: Bryan Bynos

27 5s 38w Cheyene, Ks

Delores #1-27

Job Ticket: 65563 **DST#: 2**

Test Start: 2016.09.13 @ 10:41:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	39000 ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1460.00	mcw 5m 95w	17.820

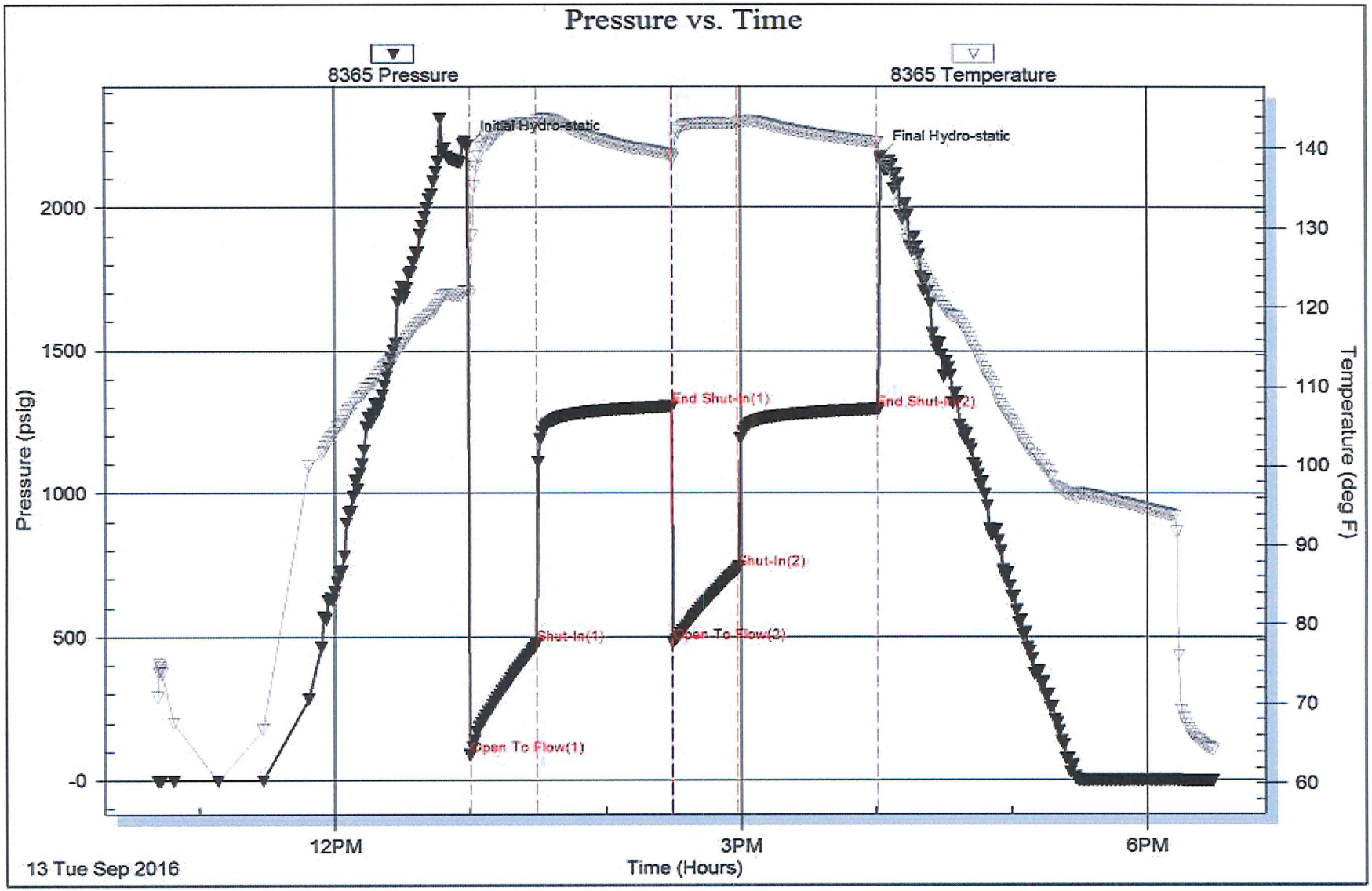
Total Length: 1460.00 ft Total Volume: 17.820 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .185 @ 71F = 39000ppm

Serial #: 8365 Inside Berexco, LLC Delores #1-27 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65563 Printed: 2016.09.13 @ 22:37:43

DRILL STEM TEST REPORT

Berexco, LLC

220 N Bramblew ood
Wichita, Ks 67206

ATTN: Bryan Bynos

27 5s 38w Cheyene, Ks

Delores #1-27

Job Ticket: 65564 **DST#: 3**

Test Start: 2016.09.14 @ 09:51:00

GENERAL INFORMATION:

Formation: **Lower Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:05:00
Time Test Ended: 20:20:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 4638.00 ft (KB) To 4682.00 ft (KB) (TVD)
Total Depth: 4638.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

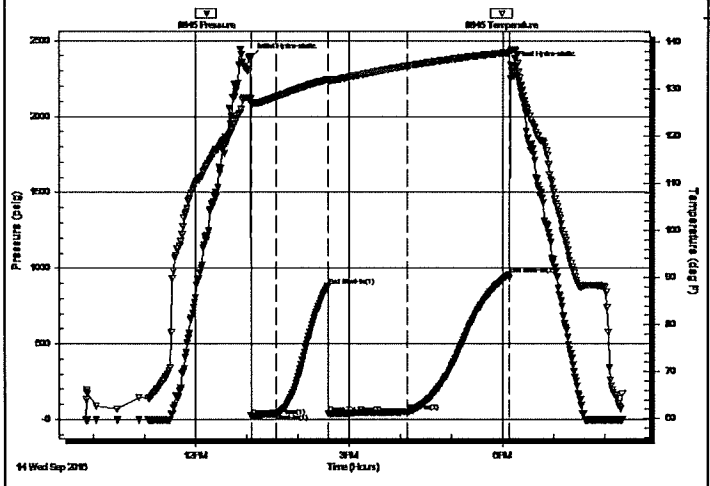
Reference Elevations: 3489.00 ft (KB)
3478.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8845 **Outside**

Press@RunDepth: 48.93 psig @ 4639.00 ft (KB)
Start Date: 2016.09.14 End Date: 2016.09.14
Start Time: 09:51:05 End Time: 20:20:30

Capacity: 8000.00 psig
Last Calib.: 2016.09.14
Time On Btm: 2016.09.14 @ 13:04:45
Time Off Btm: 2016.09.14 @ 18:09:15

TEST COMMENT: IF: 1" blow
ISI: No return
FF: 4" blow , receded to a surface blow .
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2391.62	127.86	Initial Hydro-static
1	21.63	126.90	Open To Flow (1)
30	39.62	128.26	Shut-In(1)
91	882.07	131.93	End Shut-In(1)
91	37.79	131.69	Open To Flow (2)
183	48.93	134.84	Shut-In(2)
303	958.61	137.68	End Shut-In(2)
305	2337.29	138.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	ocm 10o 90m	0.25
10.00	free oil 100o	0.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

220 N Bramblewood
Wichita, Ks 67206

ATTN: Bryan Bynos

27 5s 38w Cheyene, Ks

Delores #1-27

Job Ticket: 65564 **DST#: 3**

Test Start: 2016.09.14 @ 09:51:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	27 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5300.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	ocm 10o 90m	0.246
10.00	free oil 100o	0.049

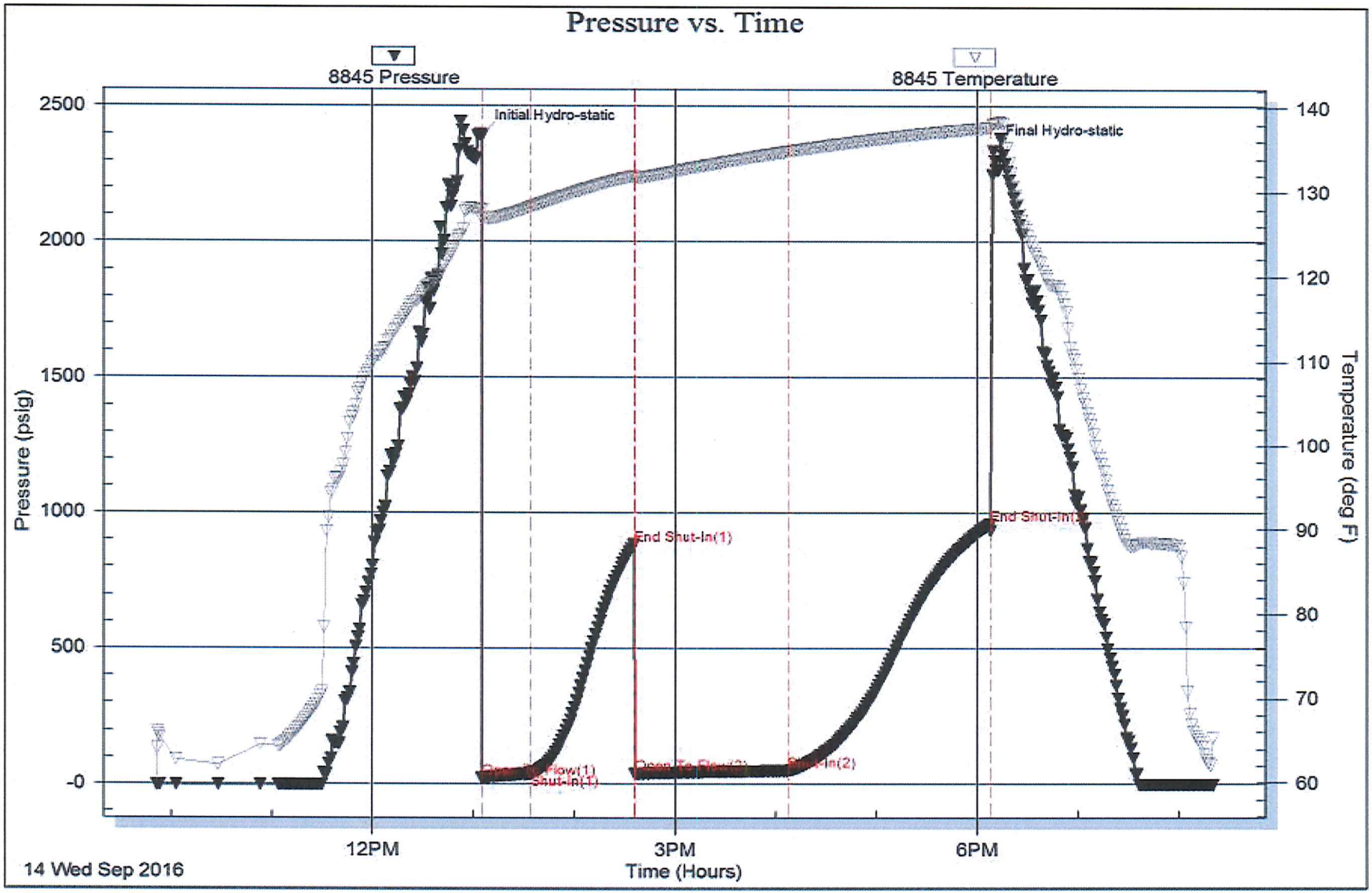
Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8845 **Outside** Berexco, LLC Delores #1-27 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 65564 Printed: 2016.09.14 @ 21:25:37

DRILL STEM TEST REPORT

Berexco, LLC

220 N Bramblewood
Wichita, Ks 67206

ATTN: Bryan Bynog

27 5s 38w Cheyene, Ks

Delores #1-27

Job Ticket: 65565 **DST#: 4**

Test Start: 2016.09.15 @ 04:41:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:40:30
Time Test Ended: 11:57:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 4664.00 ft (KB) To 4720.00 ft (KB) (TVD)
Total Depth: 4720.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

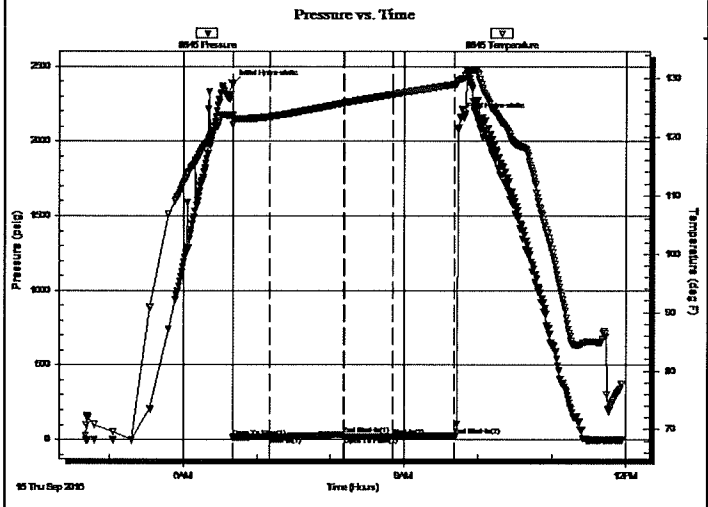
Reference Elevations: 3489.00 ft (KB)
3478.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8845 **Outside**

Press@RunDepth: 19.69 psig @ 4665.00 ft (KB)
Start Date: 2016.09.15 End Date: 2016.09.15
Start Time: 04:41:05 End Time: 11:57:44

Capacity: 8000.00 psig
Last Calib.: 2016.09.15
Time On Btm: 2016.09.15 @ 06:40:00
Time Off Btm: 2016.09.15 @ 09:45:15

TEST COMMENT: IF: Surface blow, died @ 20 minutes.
ISI: No return.
FF: No blow.
FSI: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2383.80	123.70	Initial Hydro-static
1	13.48	122.14	Open To Flow (1)
31	17.58	123.45	Shut-In(1)
91	32.88	125.74	End Shut-In(1)
91	18.01	125.79	Open To Flow (2)
131	19.69	127.24	Shut-In(2)
181	26.92	128.95	End Shut-In(2)
186	2160.36	129.81	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

220 N Bramblew ood
Wichita, Ks 67206

ATTN: Bryan Bynog

27 5s 38w Cheyene, Ks

Delores #1-27

Job Ticket: 65565 **DST#: 4**

Test Start: 2016.09.15 @ 04:41:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5300.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100m	0.025

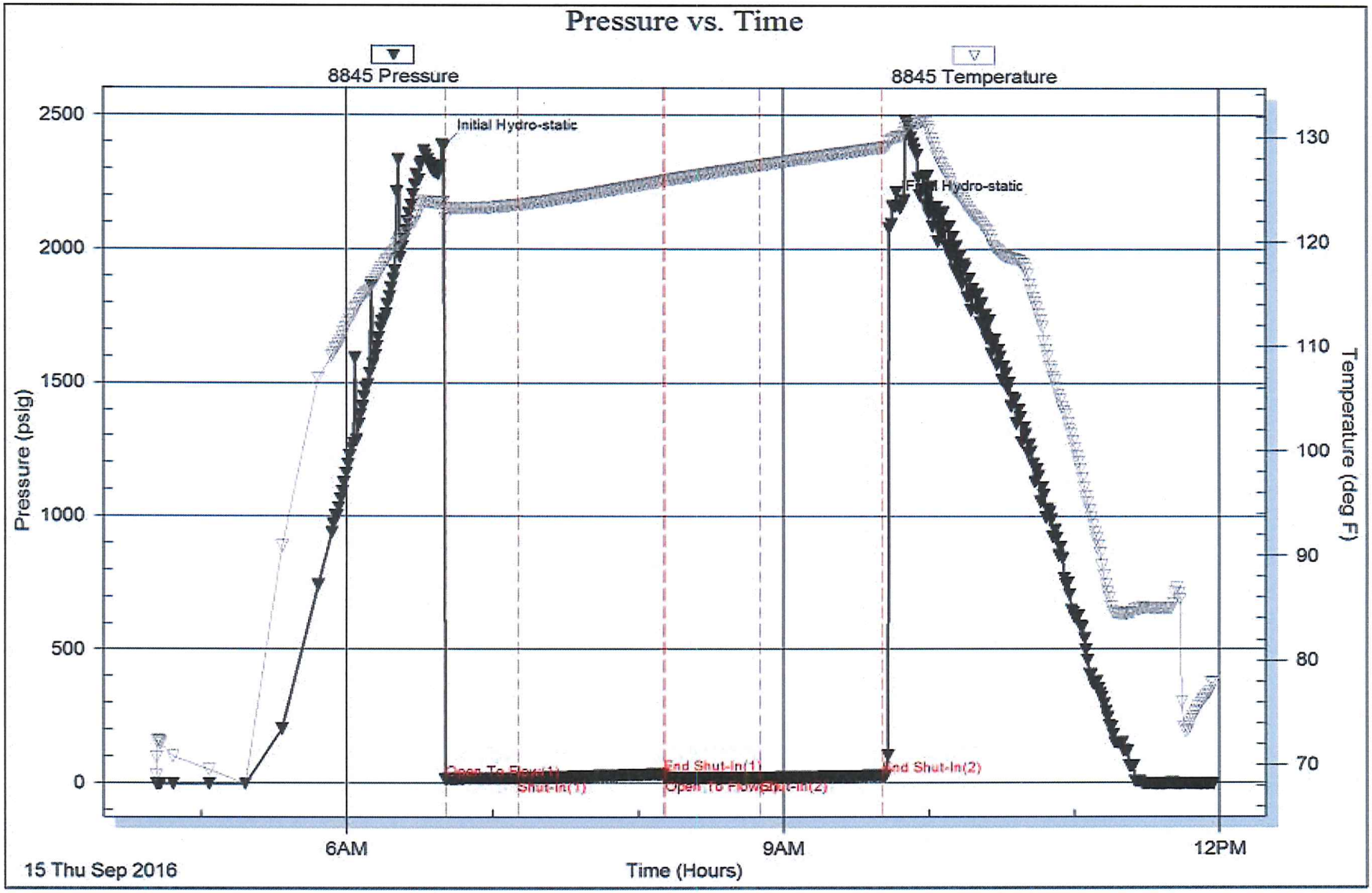
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8845 **Outside** Berexco, LLC Delores #1-27 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 65565 Printed: 2016.09.15 @ 15:24:44

Well File

BEREXCO, LLC.
DELORES #1-27
SWSE SECTION 27 5S-38W
CHEYENNE COUNTY, KANSAS

GEOLOGIST

William B. Bynog

RESUME

OPERATOR:	BEREXCO, LLC.
WELL NAME & NUMBER:	DELORES #1-27
LOCATION:	SWSE SECTION 27 5S-38W
COUNTY:	CHEYENNE
STATE:	KANSAS
SPUD DATE: 9-6-2016	COMPLETION DATE: 9-17-2016
ELEVATIONS:	GL: 3478 KB: 3489
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 4248-4440. DST#2 4425-4540, DST#3 4638-4682, DST#44664-4720
WELL STATUS:	PRODUCTIVE

DISCUSSION

Delores #1-27 5S-38W was drilled a total depth of 5200 feet testing the Lansing Kansas City, Pawnee, and Cherokee and Mississippian formations in Cheyenne County, Kansas. This well was a wildcat drilled with the help of seismic data and well control.

Structurally, Delores #1-27 came in 10 feet high to the prognosis on the Lansing A zone and 35 feet high to Donna #1-29 5S-37W.

There were minor shows of dead black stain in the lower Wabunsee and Toronto formations, none worthy of a drill stem test. The first good live oil show was encountered in the Lansing C zone at 4404-10 feet in a chalky limestone with poor porosity. The C zone was associated with a good drilling break and good sample shows. The A, B and C zones were all tested on drill stem test #1 recovering 2230 feet of mud cut water with spots oil in tool. Most of the water, perhaps all came from the wet Lansing A and B zones. Drilling continued to the E zone encountering a poor oil show in the D zone and no show in the E zone. Both zones were tested on drill stem test #2 recovering 1460 feet of mud cut water.

There was a very good drilling break, porosity development with good live oil shows in the Lower most Marmaton zone at 4654-62 feet. The Marmaton zone is an oolitic Grainstone and was tested on stem test #3 with poor results recovering only 10 feet of free oil and 50 feet of oil cut mud (10% oil).

The upper most Pawnee zone had a poor drilling break but fair live oil shows in an oolitic limestone. The Pawnee was tested recovering only 5 feet of drilling mud with low pressures. A decision was made to continue drilling to total depth with no further oil shows in the Cherokee and Mississippi formations.

Logs agreed with sample evaluation recording wet porous or tight dense limestones in the Lansing Kansas City except for the Lansing upper most C zone. The C zone has 9% porosity with 125 ohms resistivity which should be productive through simulation. The Marmaton Zone at 4654-62 feet has good porosity development with high resistivity and should have tested better, perhaps formation damage.

A decision was made to set pipe on the Lansing C and Marmaton zones. Logs indicated good porosity and permeability development in the Marmaton zone. The C zone has poor porosity, permeability but high resistivity indicating a productive zone.

3700-3760 SHALE red,firm,very silty

3760-80 LIMESTONE cream,hard,blocky,slightly fossils, sandy in part,dense,poor porosity,abundant Chert orange

3780-3812 SHALE as above

FORAKER

3812-30 LIMESTONE pale gray,firm,very sandy,slightly chalky in part,fossils in part,poor porosity,no shows

3830-34 SHALE as above

3834-54 LIMESTONE gray,very hard,dense,fossils,shaly

3854-76 LIMESTONE pale gray,firm,becoming very sandy,very fine grained,poor vis porosity,no shows with thin SHALE as above

3876-3916 SHALE red,soft,very argillaceous

3916-54 LIMESTONE pale gray,hard,sandy,some dense,blocky,very hard,poor porosity with thin SHALE as above

3954-82 SHALE red,soft,silty

3982-92 LIMESTONE pale gray,firm,very sandy,very fine grained,poor vis porosity,no shows

3992-4030 SHALE red,very soft,very argillaceous

4030-6 LIMESTONE cream,pale gray,hard,fossils,dense, poor porosity,spotty black dead,no free oil with thin SHALE as above

4066-86 LIMESTONE buff,very hard,dense,crptoxln, blocky,poor porosity,no shows

4086-4110 SHALE red,very soft,very argillaceous

TOPEKA

4110-20 LIMESTONE cream,hard,oolitic,poor pinpoint vuggy porosity,very spotty black dead stain,no free oil

4120-34 LIMESTONE pale gray,cream,very hard,dense,blocky, vfx,no shows

4134-50 LIMESTONE white,cream,firm,very chalky in part, slightly sandy,poor vis porosity,no shows

4150-70 SHALE red,green,some black carbonaceous,firm,flaky with very thin LIMESTONE as above

4170-90 SHALE dark gray,gray black,black,firm,slightly carbonaceous becoming red,soft,argillaceous at base

4190-4200 LIMESTONE buff,firm,microcrystalline,fossils in part, fair intxln porosity,no shows

4200-4210 SHALE green,black,firm,carbonaceous in part

4210-34 SHALE red,green,soft,argillaceous with thin LIMESTONE as above cream,hard,dense

OREAD

4234-50 LIMESTONE white,cream,firm,microcrystalline,very fossils,fair intxln porosity,no shows

4250-60 SHALE black,firm,blocky,carbonaceous

4260-68 LIMESTONE cream,slightly hard,blocky,chalky in part,poor vis porosity,no shows with thin SHALE as above

4268-76 SANDSTONE pale gray,green,frimvfg,clay filled,poor porosity,no shows

4276-90 SHALE red,green,soft,very argillaceous

4290-4308 LIMESTONE white,hard,fossiliferous, poor pinpoint intergranular porosity,spotty live brown stain, good fast cut

LANSING A

4308-28 GRAINSTONE white,firm,very oolitic,chalky,fair to good intergranular porosity,spotty black dead stain,poor cut,no live oil

4318-24 SHALE green,firm,waxy,abundant pyrite

4324-30 LIMESTONE cream,hard,dense,crptoxln

4330-40 SHALE red,soft,argillaceous

4340-50 LIMESTONE cream,very hard,dense,slightly fossils, very fine crystalline,no porosity

4350-62 SHALE as above

B

4362-74 LIMESTONE buff,slightly hard,microcrystalline,sandy in part,poor vis,no shows

4374-88 LIMESTONE white,buff,hard,fnly microcrystalline,chalky in part,abundant Chert white

4388-4404 SHALE red,soft,argillaceous

C

4402-06 LIMESTONE white,hard,chalky,fossils,poor porosity, spotty live dark brown stain,good cut,no free oil

4418-28 LIMESTONE white,firm,sbchky to chalky,very fnly crystalline,poor vis porosity,trace black dead stain,no free oil

4428-40 SHALE red,soft,very argillaceous with thin LIMESTONE white to

buff,hard,blocky,poor porosity,no shows

4440-56 SHALE green,gray,some black,firm,slightly carbonaceous

D

4456-68 LIMESTONE white,pale gray,hard,microcrystalline to chalky,poor vis porosity,very spotty black dead stain

4468-82 LIMESTONE pale gray,hard,dense,blocky,fn crystalline,poor porosity,no shows

4482-92 SHALE red,soft,very argillaceous,gummy

4492-4498 LIMESTONE pale gray,very hard,dense,blocky, crptoxln,no shows

4498-4504 SHALE as above

E

4504-22 LIMESTONE pale gray,very hard,dense,blocky, crptoxln,very poor porosity,no shows

4522-46 SHALE gray,green,black,firm,carbonaceous

F

4546-54 LIMESTONE pale gray,hard,dense,crptoxln, no shows

4554-56 SHALE dark gray,black,green,carbonaceous in part

4556-70 LIMESTONE cream,light tan,hard,dense,blocky, some sbchky,poor vis porosity,no shows

4570-80 SHALE red,very soft,argillaceous

4580-90 LIMESTONE cream,light tan,firm,sbchky,sandy in part,poor vis porosity,no shows

4590-4602 SHALE red,green,soft,gummy

4602-20 LIMESTONE off white,cream,slightly hard,blocky, sbchky,fossils,poor vis porosity,no shows

4620-30 SHALE red,very soft,very argillaceous,gummy

4530-44 LIMESTONE buff,light tan,very hard,fnly crystalline to crptoxln,dense,abundant Chert orange

4644-54 Shale red,soft,very argillaceous

MARMATON

4654-64 GRAINSTONE off white,firm to slightly hard,very fossils,oolitic,fair to good intergranular and vuggy oomoldic porosity,spotty to even live brown stain,very good instant cut,very good show free oil in tray and samples

4664-82 SHALE red,soft,very argillaceous

4682-86 SHALE dark gray,gray black,firm,fissile, carbonaceous

PAWNEE

4786-92 LIMESTONE off white,firm,fossils,oolitic, chalky in part,poor intergranular porosity,spotty live brown stain,good strmg cut,trace free oil

4692-14 LIMESTONE, cream,very hard,dense,crptoxln,poor porosity,no shows

4714-22 SHALE green,gray,black,firm,fissile,carbonaceous in part

4722-43 LIMESTONE pale gray,tan,very hard,very dense, crptoxln,poor porosity,no shows

4743-58 SHALE gray,green,black,fissile,carbonaceous

4758-86 LIMESTONE cream,buff,very hard,dense,blocky, crptoxln,no shows with thin SHALE as above

CHEROKEE

4786-4810 SHALE gray,green,blocky,fissile,carbonaceous in part

4810-42 LIMESTONE cream,very hard,dense,crptoxln with thin SHALE as above

4842-52 LIMESTONE light tan,very hard,very dense,blocky, crptoxln,some Chert tan

4852-4910 SHALE red,green,firm,britt with thin SANDSTONE translucent,fine to m grained,hard,siliceous,poor porosity,no shows

4910-20 LIMESTONE cream,hard,dense,blocky,crptoxln,no shows

4920-56 SHALE as above,with thin SANDSTONE pale green,firm,fine to coarse grained,angular,poor sorted,fair intergranular porosity,no shows

4956-66 LIMESTONE tan,light brown,very hard,very dense, crptoxln,no shows

4956-80 SHALE green,gray,black,firm,fissile,carbonaceous in part

4980-5000 SANDSTONE trns,friable,fine to m grained,rounded,well sorted,good intergranular porosity,no shows with thin Shale as above

5000-12 SHALE red,green,gray,yell,firm,britt

5012-24 SANDSTONE translucent,friable,fine to m grained,sorted,rounded, clean,good intergranular porosity,no shows with thin SHALE as above

5024-31 CHERT tan,white,orange,blocky, fresh

MISSISSIPIAN

5031-54 DOLOMITE light tan,hard,microsuc texture, clean,fair to good intxln porosity,no shows

5054-62 SHALE var color as above

5062-86 DOLOMITE buff,light tan,hard,microcrystalline texture,poor to fair intxln porosity,no shows abundant very hard,dense, crptoxln,abundant Chert white,orange at base

5086-5110 SHALE as above var color,fissile

5110-40 DOLOMITE buff,light tan,very hard,dense,micro crystalline,poor vis porosity,no shows abundant Chert white,becoming more calcareous at base

5140-60 LIMESTONE white,firm,chalky in part,poor vis porosity, very abundant Chert white,sharp fresh

5160-5200 LIMESTONE tan,very hard,very dense,blocky, crptoxln,no shows

RTD 5200'

LTD 5199'

ALLIED OFS, LLC

Federal Tax I.D. #81-2169190

68123

REMIT TO: Allied OFS, LLC
P.O. Box 205803
Dallas, TX 75320-5803

SERVICE POINT: Oakley, KS

DATE 9/18/16	SEC 27	TWP. 5	RANGE 38	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Peterson	WELL # 1-27		LOCATION Edson W to 28 N to Cheyenne County B 1½ W into			COUNTY Cheyenne	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Beredco 10
TYPE OF JOB Prod
HOLE SIZE 7 7/8 T.D.
CASING SIZE 4½ DEPTH
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 200 ALW/ 60/40 8% gel ¼# Flo
200 sx 10% salt 2% gel 5# Gilsonite

EQUIPMENT

PUMP TRUCK CEMENTER Allen Byan
#566-281 HELPER Kevin Byan
BULK TRUCK
#818-310 DRIVER Jade Mitten
BULK TRUCK
DRIVER

COMMON	200	@ 17.90	3580.00
POZMIX		@	
GEL	376 lb	@ 1.05	394.80
CHLORIDE		@	
ASC ALW 60/40 8%	200	@ 19.89	3978.00
		@	
Flo Seal	150 lb	@ 2.97	445.50
Gilsonite	1000 lb	@ .98	980.00
Salt	972 lb	@ .68	661.36
		@	
		@	
		@	
		@	
		TOTAL	10,042.66
		DISCOUNT 50%	5021.33

REMARKS:

Run Csg, Circ, Mix 30sk RH 20sk MH, Mix 150 60/40 8% gel ¼ lb Flo Seal, 4½ Fairfax 200 sk Cem 2% gel 10% salt 5# Gilsonite, Wash Truck, Displace Plug w/ 75 bbl w/ 1200 PSI Lift Pressure Plug @ 2600 Float Held

Thank You
Alan, Kevin, Jade

SERVICE

HANDLING	492 sx	@ 2.40	1180.80
MILEAGE 25 sx/mile	19.94 ton		2241.25
DEPTH OF JOB			
PUMP TRUCK CHARGE			2765.25
EXTRA FOOTAGE		@	
HV MILEAGE	50	@ 7.70	385.00
LV MILEAGE		@	
		@	
		@	
		TOTAL	7,065.44
		DISCOUNT 50%	3532.72

CHARGE TO: Beredco
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

AFU Float Shoe		@ 425.00	425.00
Latch Down		@ 655.00	655.00
Centralizers	15	@ 57.00	855.00
Scratchers - Resp.	30	@ 86.00	2580.00
		@	
		TOTAL	4515.00
		DISCOUNT 50%	2257.50

To: Allied OFS, 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 AWAIS GUL

SIGNATURE

SALES TAX (If Any)
TOTAL CHARGES 21,623.10
DISCOUNT 10,811.55 (50%) IF PAID IN 30 DAYS
NET TOTAL 10,811.55 IF PAID IN 30 DAYS

DRILL PRINTING CO., INC. — GREAT BEND, KS.

ALLIED OFS, LLC

CEMENTING LOG

STAGE NO.

Date 9/18/18 District Oakley Ticket No. 68128
Company Bircess Rig Berentz 10
Lease Delores Well No. 1-27
County Cheyenne State Ks
Location Field

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☐ Intermediate ☐ Production ☒ Liner ☐

Size 4 1/2 Type Weight Collar

Casing Depths: Top KB Bottom

Drill Pipe: Size Weight Collars
Open Hole: Size T.D. ft. P.B. to ft.

CAPACITY FACTORS:

Casing:	Bbls/Lin. ft. .0155	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:
Amt. Sks Yield ft³/sk Density PPG

200 ALW 60/40 8%gel 1/4Flo

LEAD: Pump Time hrs. Type
5# Gilsonite Excess
Amt. 200 Sks Yield 1.2 ft³/sk Density 12.2 PPG
TAIL: Pump Time hrs. Type
Excess
Amt. 200 Sks Yield 1.52 ft³/sk Density 14.7 PPG
WATER: Lead 10.3 gals/sk Tail 6.7 gals/sk Total Bbls.

Pump Trucks Used 566 281
Bulk Equip. 818-310

Float Equip: Manufacturer
Shoe: Type Depth
Float: Type AFU Depth
Centralizers: Quantity 15 Plugs Top Btm.
Stage Collars
Special Equip. Recip Scratchers
Disp. Fluid Type H_2O Amt. Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE CEMENTER

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
						On location, SFTY Mtg, Set up
						Run Csg, Circulate,
						Plug RH, MH
						Mix ALW 60/40 8%gel 1/4Flo
						Mix ASC
						Wash Truck
	1200					Displace Plug w/75 BBL H_2O
	2200					Land Plug @ PSI
						Job complete

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS. THANK YOU

ALLIED OFS, LLC

Federal Tax I.D. #81-2169190

WELL FILE

REMIT TO: Allied OFS, LLC
P.O. Box 205803
Dallas, TX 75320-5803

SERVICE POINT: Oakley

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
9-7-16	27	13-S	38W		12:00 noon	1:30 pm	2:00 pm
LEASE Delores	WELL # 1-27		LOCATION Bird City 12S 1½W Into			COUNTY Cheyenne	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR	Beredco 10
TYPE OF JOB	Surface
HOLE SIZE	12¼ T.D. 379'
CASING SIZE	8⅝ DEPTH 379'
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	15'
PERFS.	
DISPLACEMENT	22.8 BBL

OWNER Same

CEMENT

AMOUNT ORDERED 250 sks com 3%cc 2%gel

EQUIPMENT

PUMP TRUCK # 431	CEMENTER	Andrew Fosburg
	HELPER	Wayne McGlothlin
BULK TRUCK # 891	DRIVER	Monty Phillips
BULK TRUCK #	DRIVER	

COMMON	250 sks	@ 17.90	4475.00
POZMIX		@	
GEL	420#	@ 1.05	493.50
CHLORIDE	505#	@ 1.10	225.00
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
TOTAL			5743.50
DISCOUNT	50 %		2871.75

REMARKS:

Circulated 6 BBL to pit

Thank you

SERVICE

HANDLING	220.33 cu/ft	@ 2.48	620.41
MILEAGE	2.25 per mile 12.33 TON		1685.37
DEPTH OF JOB	379'		
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
HV MILEAGE	50 miles	@ 2.20	385.00
LV MILEAGE	50 miles	@ 4.40	N/C
Swedge		@ 225.00	N/C
		@	
TOTAL			4,263.03
DISCOUNT	50%		2131.51

CHARGE TO: Beredco

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		
DISCOUNT	%	

To: Allied OFS, 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 Gilberto Davila Jr

SIGNATURE

SALES TAX (If Any)

TOTAL CHARGES 10,006.53

DISCOUNT 5,003.26 (50%) IF PAID IN 30 DAYS

NET TOTAL 5,003.26 IF PAID IN 30 DAYS

THILL PRINTING CO., INC. — GREAT BEND, KS.

ALLIED OFS, LLC

CEMENTING LOG

STAGE NO.

Date 9-2-14 District Oakley Ticket No. 68110
Company Berexco Rig Beredco 10
Lease Dolores Well No. 1-27
County Cheyenne State KS
Location 27 5 38 Field
Bird City 12S 1W 1/2 N into

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

Casing Depths: Top KB Bottom 339'

Drill Pipe: Size Weight Collars
Open Hole: Size 12 1/4 T.D. 339' ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl.
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl.
Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.
Annulus: Bbls/Lin. ft. Lin. ft./Bbl.
Bbls/Lin. ft. Lin. ft./Bbl.
Perforations: From ft. to ft. Amt.

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

LEAD: Pump Time hrs. Type Com. 3% cc
2% gel Excess
Amt. 250 Sks Yield 1.39 ft³/sk Density 15.2 PPG
TAIL: Pump Time hrs. Type
Excess
Amt. Sks Yield ft³/sk Density PPG
WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 231
Bulk Equip. 891

Float Equip: Manufacturer
Shoe: Type Depth
Float: Type Depth
Centralizers: Quantity Plugs Top Btm.
Stage Collars
Special Equip.
Disp. Fluid Type Amt. Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE
CEMENTER Andrew

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
1930						Start mixing Cement
						Cement mixed
						Start displacement
				10		
				13.8		
						Displacement in
	325					Stop Pump
2100						Shut in
						Circulated 6 BBL to pit

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS. THANK YOU

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Kansas
Corporation Commission

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

February 08, 2017

Rodney Reynolds
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO-1
API 15-023-21452-00-00
DELORES 1-27
SE/4 Sec.27-05S-38W
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 9/7/2016 and the ACO-1 was received on February 08, 2017 (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