Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1217279

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: Pete Volmer
Purchaser: Central Crude Corporation

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 #:

04/22/2014	04/30/2014	07/24/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-023-21389-00-00
Spot Description:
N2 - S2 - SW - SW Sec. 17 Twp. 1 S. R. 37 ☐ East ☑ West
610 Feet from ☐ North / ☑ South Line of Section
660 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: Vada Well #: 2-17
Field Name: Jones Canyon South
Producing Formation: Pawnee
Elevation: Ground: 3119 Kelly Bushing: 3132
Total Vertical Depth: 4660 Plug Back Total Depth: 4605
Amount of Surface Pipe Set and Cemented at: 312 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: 600 ppm Fluid volume: 1500 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: 08/07/2014
☑ **Confidential Release Date:** 08/06/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 08/11/2014

[redacted] 1217279

Operator Name: BEREXCO LLC Lease Name: Vada Well #: 2-17

Sec. 17 Twp. 1 S. R. 37 ☐ 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:

Radiation Guard Log
Microresisitivity Log

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

Name: Attached Top: Attached Datum: 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	312	Common	225	3%cc, 2% gel
Production	7.875	5.50	15.5	4650	Lite & Common	700	10% salt,2% gel,4# Gilsonite

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
4	4500 - 4504 Pawnee	1000 gals 15% MCA, 3% solvent	4500 - 4504
		3000 gals 15% gelled acid, 1000 gals NEFE	4500 - 4504

TUBING RECORD: Size: 2.875 Set At: SN @ 4512 Packer At: no pkr

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 07/24/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10	0	2		36

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:
4500 -= 4505

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Vada 2-17
Doc ID	1217279

Tops

Name	Top	Datum
Stone Corral Anhydrite	3094	+38
Anydrite (base)	3128	+4
Neva	3548	-416
Foraker	3668	-536
Wabaunsee	3820	-688
Topeka	3884	-752
Oread	4020	-888
Lansing/KS City A	4102	-970
LKC B	4162	-1030
LKC C	4216	-1084
LKC D	4256	-1124
LKC E	4216	-1177
LKC F	4346	-1214
Pawnee	4500	-1368
Cherokee	4559	-1426
RTD	4660	
LTD	4646	

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Vada 2-17
Doc ID	1217279

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	312	Common	225	3%cc, 2% gel
Production	7.875	5.50	15.5	4650	Lite & Common	700	10% salt,2% gel,4# Gilsonite

ALLIED OIL & GAS SERVICES, LLC 063477

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE 4-22-13	SEC 17	TWP. 1	RANGE 37	CALLED OUT	ON LOCATION 12:00 p.m.	JOB START 2:30pm	JOB FINISH 3:00p.m.
LEASE Vada	WELL # 2-17		LOCATION Bird City N to 702 2E, 3S, Einto			COUNTY Cheyenne	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Beredco 2
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 312'
CASING SIZE 8 5/8 DEPTH 310'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 18.79 bbl water

EQUIPMENT

PUMP TRUCK # 120 CEMENTER Paul Beaver
HELPER Tyler Flipse
BULK TRUCK # 891/308 DRIVER Juan Z (Gus)
BULK TRUCK # DRIVER

OWNER Same

CEMENT
AMOUNT ORDERED 225 sks Com 3% CC 2% gel

COMMON	225 sks	@ 17.90	4027.50
POZMIX		@	
GEL	4 sks	@ 23.40	93.60
CHLORIDE	8 sks	@ 64.00	512.00
ASC		@	
		@	
		@	
Material Total		@	4,633.10
(1,247.26/28%)		@	
		@	
Service		@	
HANDLING	243.30 ft3	@ 2.48	603.38
MILEAGE	11.10 ton x 50 mi	x 2.60	1443.00
		TOTAL	

REMARKS:
mix 225 sks Com 3%2
Displace w/ water
cement did circulate
Thank You!
Paul & Tyler

DEPTH OF JOB	312'		
PUMP TRUCK CHARGE			1,512.25
EXTRA FOOTAGE		@	
MILEAGE	mi HV 50	@ 7.70	385.00
MANIFOLD	swedge	@	275.00
	mi LV 50	@ 4.40	N/C
		@	
(1,181.00/28%)		TOTAL	4,318.63

CHARGE TO: Beresco
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
0%		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.

SALES TAX (If Any)
TOTAL CHARGES 8,831.73
DISCOUNT 2,478.48 (28%) IF PAID IN 30 DAYS
6,313.24 Net

PRINTED NAME Mylo Salinas
SIGNATURE

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Pete Vollmer

17-1S-37W Cheyenne, KS

Vada #2-17

Job Ticket: 56831 **DST#: 1**

Test Start: 2014.04.26 @ 11:20:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:23:30
Time Test Ended: 19:20:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66

Interval: 3976.00 ft (KB) To 4039.00 ft (KB) (TVD)
Total Depth: 4039.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

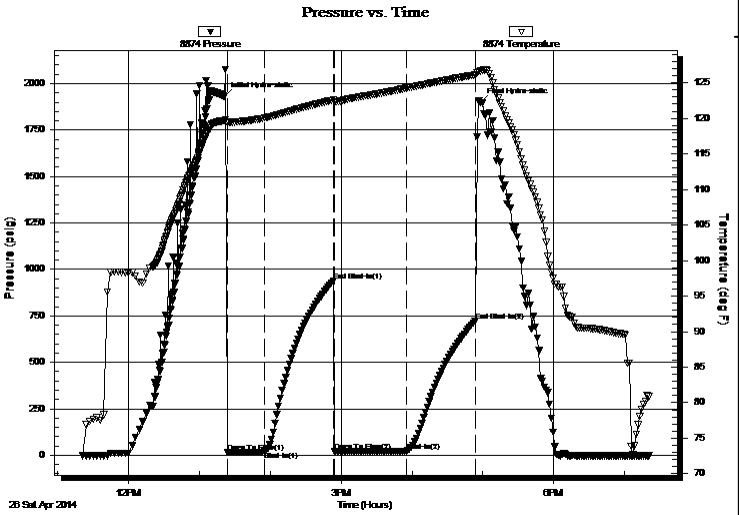
Reference Elevations: 3132.00 ft (KB)
3119.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 21.45 psig @ 3977.00 ft (KB)
Start Date: 2014.04.26 End Date: 2014.04.26
Start Time: 11:21:00 End Time: 19:20:30

Capacity: 8000.00 psig
Last Calib.: 2014.04.26
Time On Btm: 2014.04.26 @ 13:21:00
Time Off Btm: 2014.04.26 @ 16:58:00

TEST COMMENT: 30 - IF- 1/4" Blow did not build or die
60 - ISI- No Return
60 - FF- No Blow
60 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1931.40	119.72	Initial Hydro-static
3	15.11	119.36	Open To Flow (1)
34	18.78	120.04	Shut-In(1)
93	936.36	122.57	End Shut-In(1)
94	18.76	122.32	Open To Flow (2)
155	21.45	124.24	Shut-In(2)
213	721.88	126.10	End Shut-In(2)
217	1899.38	126.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Pete Vollmer

17-1S-37W Cheyenne, KS

Vada #2-17

Job Ticket: 56831 **DST#: 1**

Test Start: 2014.04.26 @ 11:20:00

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:	148.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	4.80 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

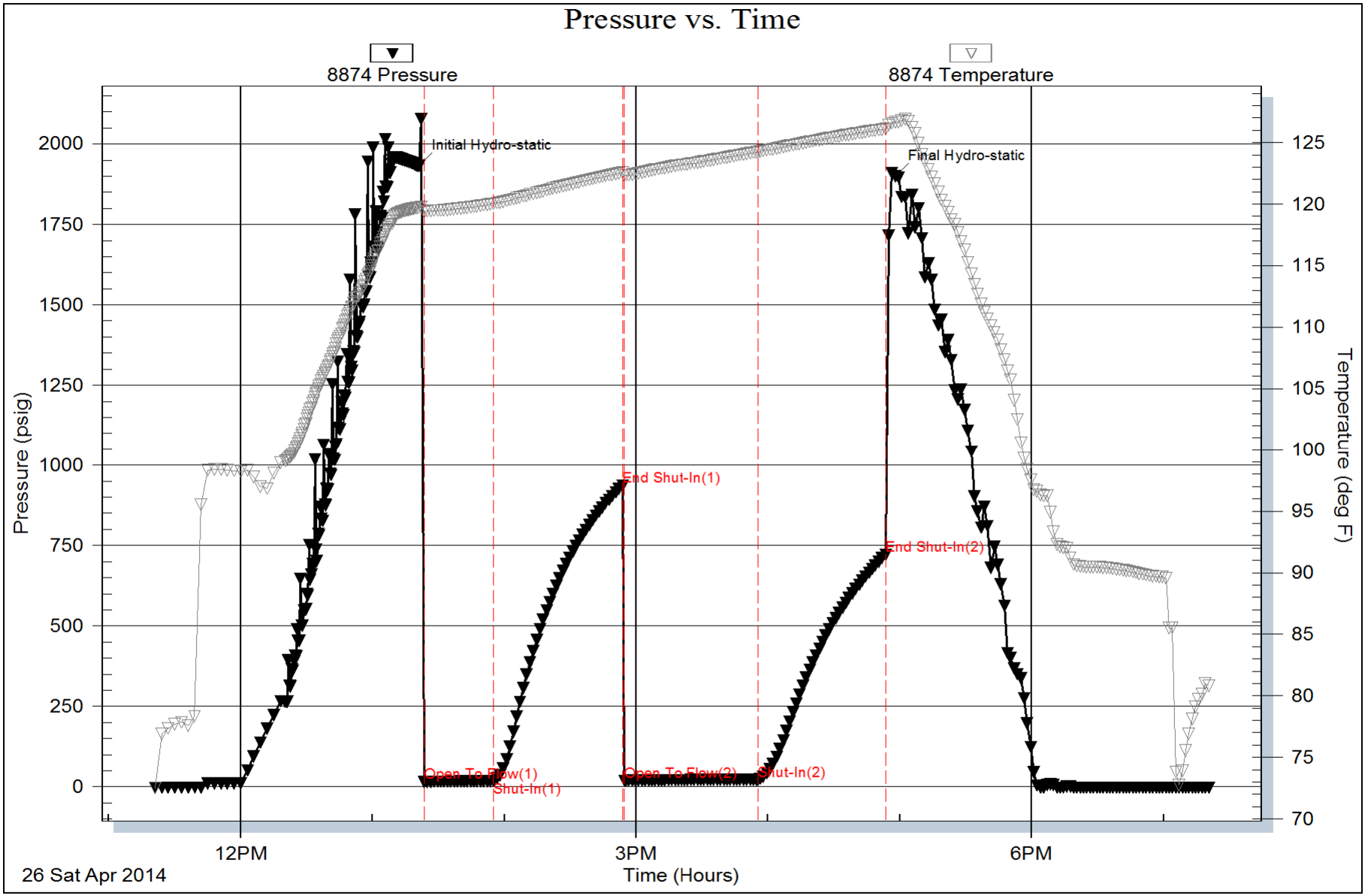
Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8874 **Inside** Berexco, LLC. Vada #2-17 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 56831 Printed: 2014.04.26 @ 22:43:42

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Pete Vollmer

17-1S-37W Cheyenne, KS

Vada #2-17

Job Ticket: 56831 **DST#: 2**

Test Start: 2014.04.27 @ 10:00:00

GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:25:30
Time Test Ended: 19:47:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66

Interval: 4122.00 ft (KB) To 4195.00 ft (KB) (TVD)
Total Depth: 4195.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

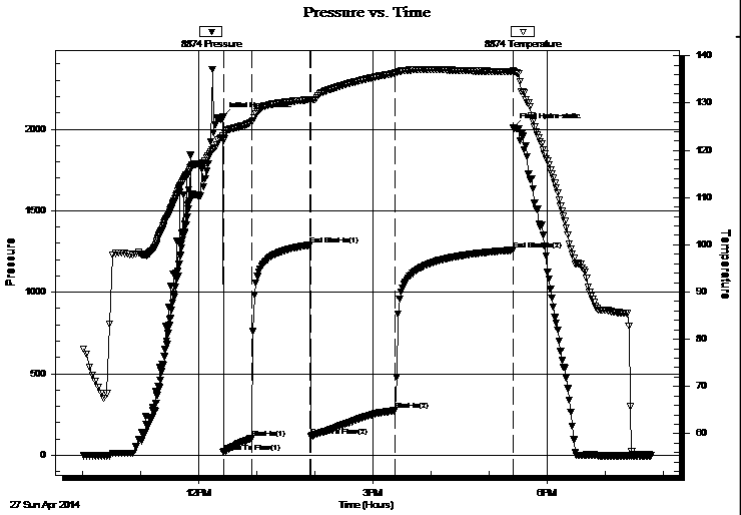
Reference Elevations: 3132.00 ft (KB)
3119.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 273.93 psig @ 4123.00 ft (KB)
Start Date: 2014.04.27 End Date: 2014.04.27
Start Time: 10:01:00 End Time: 19:47:00

Capacity: 8000.00 psig
Last Calib.: 2014.04.27
Time On Btm: 2014.04.27 @ 12:25:00
Time Off Btm: 2014.04.27 @ 17:25:00

TEST COMMENT: 30 - IF- 1/2" Blow built to 7"
60 - ISI- No Return
90 - FF- Surface Blow started at 5 min. Built to 11"
120 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.90	122.55	Initial Hydro-static
1	19.63	122.09	Open To Flow (1)
30	104.67	125.97	Shut-In(1)
90	1288.63	130.74	End Shut-In(1)
91	114.66	130.59	Open To Flow (2)
178	273.93	136.35	Shut-In(2)
300	1258.36	136.71	End Shut-In(2)
300	2010.13	136.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW 20M 80W	0.89
180.00	MW 30M 70W	0.89
180.00	WM 60M 40W	0.96
40.00	OSWM 90M 10W (oil spots)	0.56

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Pete Vollmer

17-1S-37W Cheyenne, KS

Vada #2-17

Job Ticket: 56831 **DST#: 2**

Test Start: 2014.04.27 @ 10:00:00

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:	60000 ppm
Viscosity:	148.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	4.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MW 20M 80W	0.885
180.00	MW 30M 70W	0.885
180.00	WM 60M 40W	0.958
40.00	OSWM 90M 10W (oil spots)	0.561

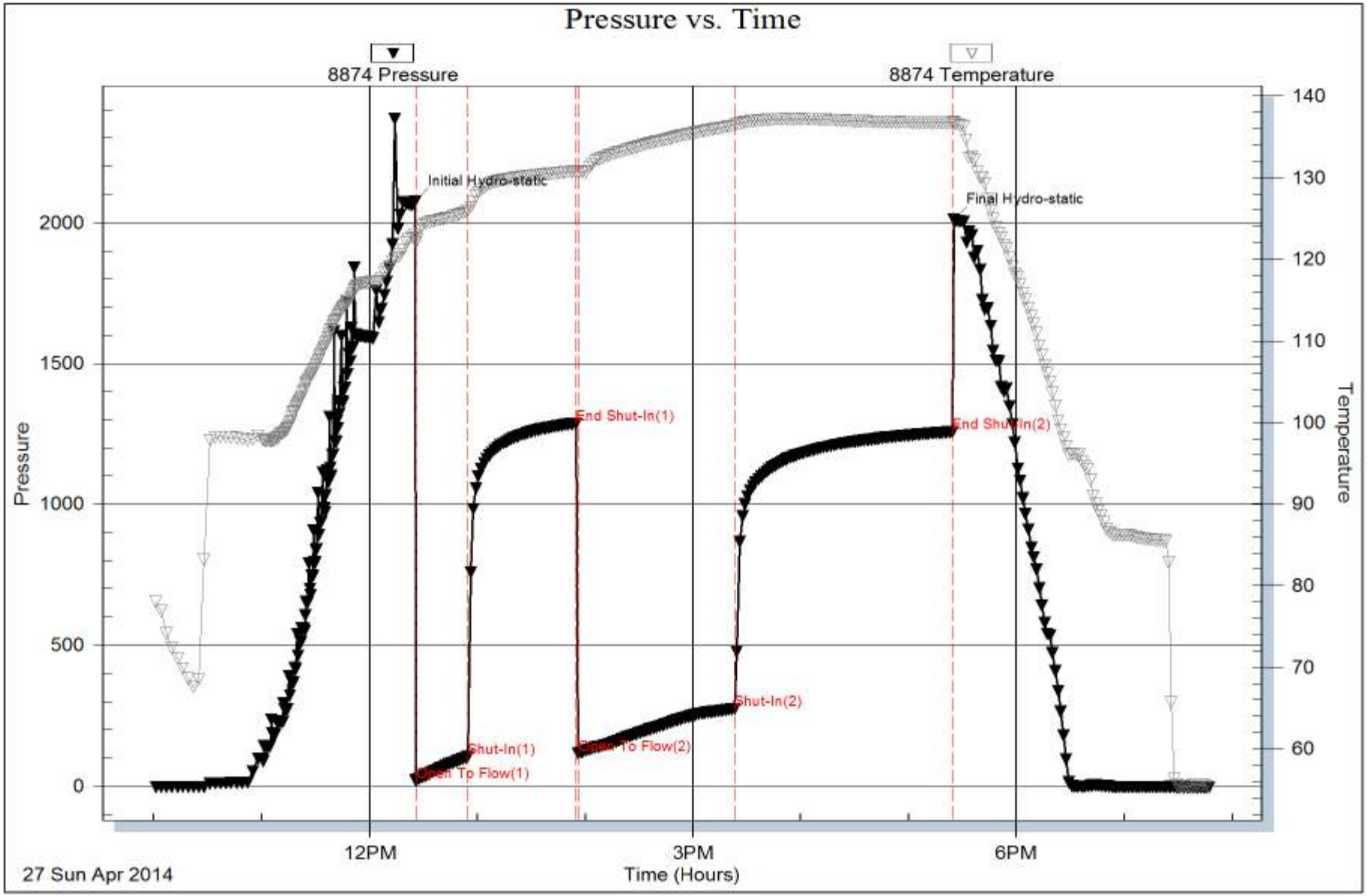
Total Length: 580.00 ft Total Volume: 3.289 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .13 @ 72 deg = 60,000ppm

Serial #: 8874 **Inside** Berexco, LLC. Vada #2-17 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 56831 Printed: 2014.04.29 @ 11:58:01

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Pete Vollmer

17-1S-37W Cheyenne, KS

Vada #2-17

Job Ticket: 58130 **DST#: 3**

Test Start: 2014.04.28 @ 23:40:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:09:30
Time Test Ended: 09:52:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Quintana
Unit No: 66

Interval: 4470.00 ft (KB) To 4518.00 ft (KB) (TVD)
Total Depth: 4518.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

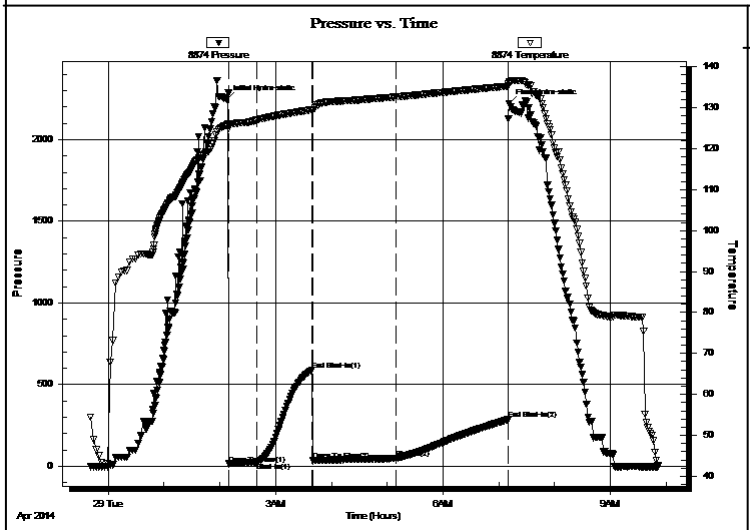
Reference Elevations: 3132.00 ft (KB)
3119.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 47.47 psig @ 4471.00 ft (KB)
Start Date: 2014.04.28 End Date: 2014.04.29
Start Time: 23:41:00 End Time: 09:52:00

Capacity: 8000.00 psig
Last Calib.: 2014.04.29
Time On Btm: 2014.04.29 @ 02:07:30
Time Off Btm: 2014.04.29 @ 07:11:30

TEST COMMENT: 30 - IF - Opened w / surface blow built to 1"
60 - ISI - No Return
90 - FF - Surface blow built to 2"
120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.84	125.76	Initial Hydro-static
2	14.80	124.81	Open To Flow (1)
32	26.88	126.98	Shut-In(1)
92	591.32	129.54	End Shut-In(1)
93	34.39	129.42	Open To Flow (2)
183	47.47	132.66	Shut-In(2)
303	285.52	135.28	End Shut-In(2)
304	2221.99	136.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 70%m, 30%o	0.15
40.00	GO 90%o, 10%g	0.20

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Pete Vollmer

17-1S-37W Cheyenne, KS

Vada #2-17

Job Ticket: 58130 **DST#: 3**

Test Start: 2014.04.28 @ 23:40:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	63.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 70%m, 30%o	0.148
40.00	GO 90%o, 10%g	0.197

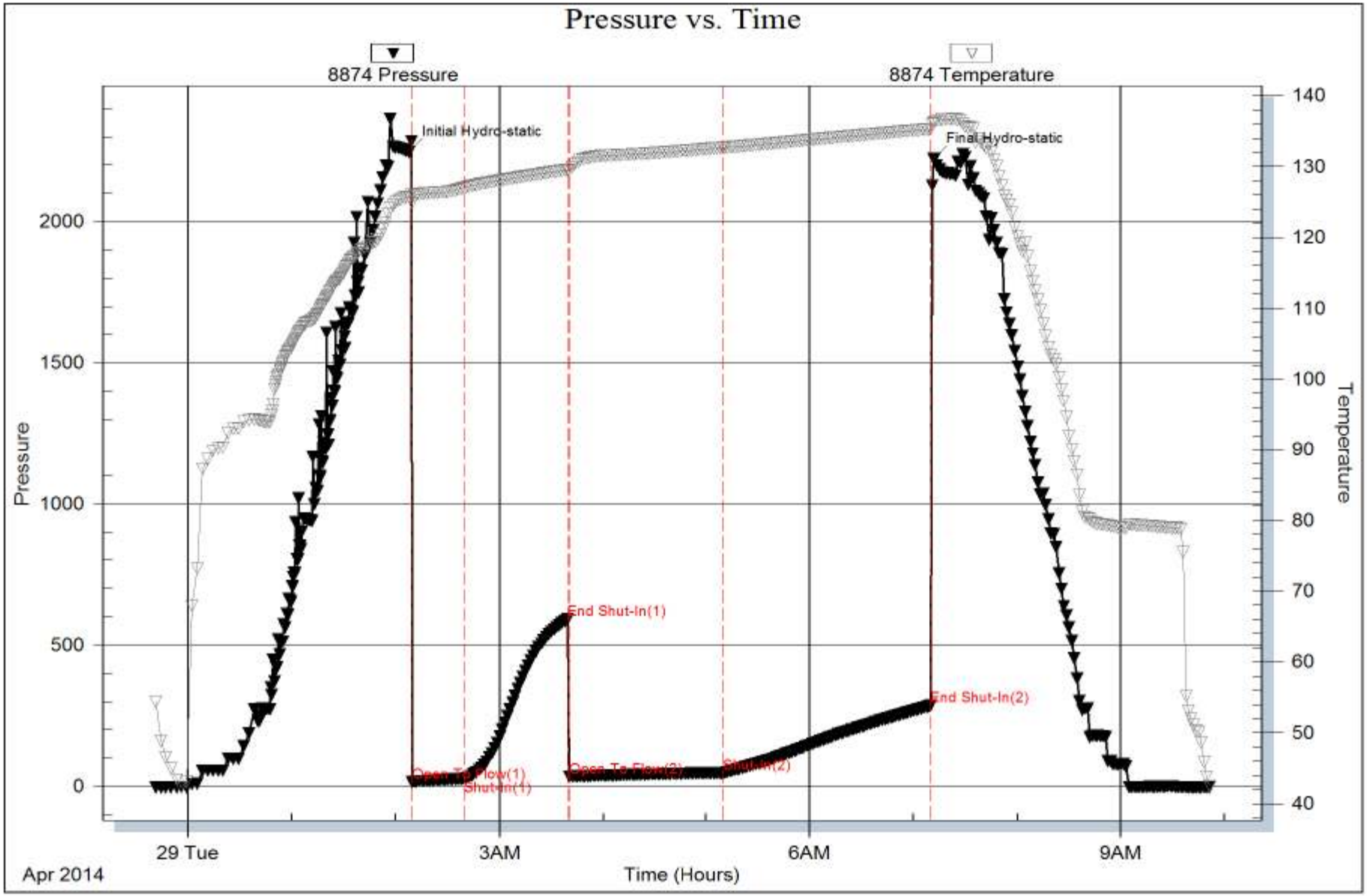
Total Length: 70.00 ft Total Volume: 0.345 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 60 @ 40 Corrected 58

Serial #: 8874 **Inside** Berexco, LLC. Vada #2-17 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 58130 Printed: 2014.04.29 @ 11:57:17

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 063430

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: McKinney, KS

4-30-14 5-1-14 5-1-14

DATE 4-30-14	SEC. 17	TWP. 15	RANGE 37 W	CALLED OUT	ON LOCATION 6:45PM	JOB START 3:00AM	JOB FINISH 3:30PM
LEASE Vada	WELL # 2-17	LOCATION Bird City N to St. line				COUNTY Cheyenne	STATE KS
OLD OR (NEW) (Circle one)		2E 3S E into					

CONTRACTOR Beredco #2
TYPE OF JOB Prod
HOLE SIZE 7 7/8 T.D. 4660
CASING SIZE 5 1/2 15.5# DEPTH 4620
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 42.56
CEMENT LEFT IN CSG. 42.56'
PERFS.
DISPLACEMENT 108 bbl

OWNER Same

CEMENT
AMOUNT ORDERED 450sks Lite 3/4# Flo-seal 250sks Com 10%salt 2%gel 5#kol-seal Sonite

EQUIPMENT

PUMP TRUCK # 431 CEMENTER Kelly G
HELPER Wayne M
BULK TRUCK # 386424 DRIVER Scott (TWS)
BULK TRUCK # 566-595 DRIVER Ramiro (TWS)

COMMON	250sks	@ 17.90	4475.00
POZMIX		@	
GEL	5sks	@ 23.40	117.00
CHLORIDE		@	
ASC		@	
Lite	450sks	@ 15.95	7177.50
Flo-seal	338#	@ 2.97	1003.86
Salt	26sks	@ 26.35	685.10
Gilsonite	1250#	@ .98	1225.00
		@	
Material Total		@	14,683.46
(4,111.36/28%)		@	
		@	
HANDLING	825.28cuft	@ 2.45	2021.59
MILEAGE	37.327ton x 50 x 2.60		4846.54

REMARKS:

Rigged up, plugged RH & MH mixed cement + down center with 400sks lite & tailed in with 250sks common, released plug & displaced with 108bbl water with a lift of 1200#, plug landed @ 2500#, released pressure, float held, had good returns through out displacement, cemented & circulate. Thank You Kelly & crew

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			2765.25
EXTRA FOOTAGE		@	
MILEAGE	M.HV 50	@ 7.70	385.00
MANIFOLD	Head	@ 275.00	N.C.
	M.LV 50	@ 4.40	N.C.
		@	
(2,704.66/28%)		TOTAL	9,659.48

CHARGE TO: Beredco
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

AFU Float Shoe		@	232.00
Latchdown		@	184.00
Centralizers (14)		@ 37.00	518.00
Scratchers (28)		@ 46.00	1288.00
		@	
		TOTAL	2,222.00

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.

SALES TAX (If Any)
TOTAL CHARGES 26,564.94
DISCOUNT 6,816.02 (28%) IF PAID IN 30 DAYS
19,748.91 Net

PRINTED NAME Ryan Pfeifer

SIGNATURE

BEREXCO LLC

VADA 2-17

N/2 S/2 SW SW SEC 17 T1S R37W

CHEYENNE COUNTY, KANSAS

SUMMARY

The Berexco LLC Vada 2-17 in Cheyenne County, Kansas spud April 22, 2014 and reached a total depth of 4660' on April 29, 2014. Wellsite geological supervision commenced at 3000'. The primary objective was the Pennsylvanian Pawnee Limestone (Marmaton Group), which produces in South Jones Canyon field. Secondary zones of interests were the Foraker, Oread, and Lansing-Kansas City limestones. The Vada 2-17 was drilled using seismic and nearby well control.

On-site evaluation was by drill stem testing after sample analysis. Three DSTs were run.

Foraker, Oread and Lansing-Kansas City

The Foraker was clean non-porous limestone with dead oil staining.

DST 1 in the Oread recovered 10 ft of mud. Samples were fossiliferous packstone with traces of interparticle and vuggy porosity, scattered oil staining, and good cuts.

The Lansing A was circulated out but only rare oil shows with no visible porosity were noted. No drill stem test was warranted in the Lansing A.

DST 2 in the Lansing B recovered 580 ft of watery mud with oil spots in the top 40 ft. Samples exhibited fair interparticle porosity with spotty black stain.

The Lansing C samples were chalky mudstone with occasional very poor shows of spotty live black and brown oil stain, fluorescence, and cut. The Lansing D samples were mudstone with only a trace of black asphaltic staining and no visible porosity. The Lansing E was nonporous chalky limestone with very spotty oil stain and fair fluorescence and cut. The Lansing F was nonporous limestone with no sample shows. No drill stem testing was warranted in the Lansing, C, D, E or F.

Pawnee

DST 3 in the Pawnee recovered 40 ft of gassy oil and 30 ft of oil cut mud with very poor flow pressures. Samples were grainstone heavily occluded with lime mud. Scattered oil shows with good fluorescence and cuts were noted in vuggy parts of the limited-porosity limestone.

Oil Well Completion

5 ½" production casing was run to complete the Vada 2-17 as an oil producer.

Peter J. Vollmer
Consulting Wellsite Geologist, WPG #3369
April 2014

WELL DATA

OPERATOR:	Berexco LLC 2020 North Bramblewood Drive Wichita, Kansas 67206
WELL NAME:	Vada 2-17
SURFACE LOCATION:	610’ FSL & 660’ FWL N/2 S/2 SW SW Sec. 17, T1S, R37W Cheyenne County, Kansas
LATITUDE & LONGITUDE:	39.9611398, -101.5018218 (From State, calculated from footages)
BOTTOM HOLE LOCATION:	Vertical hole
ELEVATIONS:	3119’ GL 3132’ KB
API NUMBER:	15-023-21389
BASIN:	Mid-Continental Arch
FIELD:	Jones Canyon South
HOLE SIZE:	12 ¼” to 310’; 7 7/8” to 4660’
CASING:	8 5/8” J-55 24# STC set to 310’ KB
SPUD DATE:	April 22, 2014
TD DATE:	April 29, 2014
TOTAL DEPTH:	4660’ Rig TD 4646’ Log TD
LAST FORMATION:	Pennsylvanian Cherokee
WELL STATUS:	Ran 5 1/2” production casing
OPERATOR REPRESENTATIVE:	Dana Wreath - Vice President
WELLSITE GEOLOGIST:	Peter J. Vollmer

FORMATION TOPS

Formation	Sample Top	Log Top	Log TVD	Log Datum
KB				3132
Pierre Sh	Cased	Cased	N/A	N/A
Niobrara Fm	N/A	1030	1030	+2102
Fort Hays Ls Mbr	N/A	1529	1529	+1603
Carlile Sh	N/A	1622	1622	+1510
Dakota	N/A	2010	2010	+1122
Cheyenne	N/A	2583	2583	+549
Blaine	N/A	2954	2954	+178
Stone Corral Anhydrite	3094	3094	3094	+38
Base Anhydrite	3129	3128	3128	+4
Neva	3537	3548	3548	-416
Foraker	3662	3668	3668	-536
Wabaunsee	3816	3820	3820	-688
Topeka	3876	3884	3884	-752
Deer Creek Sand	N/A	N/A	N/A	N/A
Oread	4023	4020	4020	-888
Lansing-Kansas City				
"A"	4105	4102	4102	-970
"B"	4170	4162	4162	-1030
"C"	4222	4216	4216	-1084
"D"	4262	4256	4256	-1124
"E"	4310	4309	4309	-1177
"F"	4351	4346	4346	-1214
Pawnee	4506	4500	4500	-1368
Cherokee	4562	4558	4558	-1426
TD Driller	4660			
TD Logger		4646	4646	-1514

LITHOLOGY AND SHOWS

The following descriptions are interpretive. Rig crew members collected unlagged samples from 3500' to 4660' TD. Depths are rig depths except where noted as wireline.

3500' - 3537'	SHALE: light reddish brown to reddish orange, firm to soft, fissile to blocky, very silty, sandy in part, non to slightly calcareous.

NEVA	SAMPLE TOP: 3537'	LOG TOP: 3548'	SUBSEA: -416'

3537' - 3544'	LIMESTONE: white to light gray, hard, cryptocrystalline, slightly chalky, scattered black Algal stain (dead oil), no visible porosity, no show.
3544' - 3552'	SANDSTONE: very light gray to off white, friable to firm, very fine grained, sub rounded to rounded, well sorted, calcareous cement, occasional clay filled, glauconite, no visible porosity, no shows.
3552' - 3574'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty, well/trace interbedded LIMESTONE: white to light gray, firm to hard, cryptocrystalline, tight, no shows.
3574' - 3584'	Silty Sandstone: reddish brown, soft to very friable, very fine grained grading to silt, angular, moderately sorted, non to slightly calcareous, argillaceous to clay matrix, no visible porosity, no show.
3584' - 3616'	SHALE: reddish brown, firm to hard, fissile to blocky, very silty, sandy in part, non to slightly calcareous, trace light gray Limestone.
3616' - 3626'	SANDSTONE: light gray to reddish brown, friable to firm, very fine grained grading to silt, sub rounded to rounded, well sorted, calcareous cement, occasional clay filled, no visible porosity, no shows.
3626' - 3662'	LIMESTONE: light gray to gray to grayish brown, hard, cryptocrystalline, occasional slightly argillaceous, occasional reddish brown SHALE, tight, no shows.

FORAKER	SAMPLE TOP: 3662'	LOG TOP: 3668'	SUBSEA: -536'

3662' - 3672'	LIMESTONE: white to light gray, firm to hard, cryptocrystalline, chalky, fossil fragment, patchy black asphalt oil stain, tight, faint yellow grain fluorescence, good pale greenish white cuts.
3672' - 3680'	SHALE: gray to greenish gray, firm, blocky, non to slightly calcareous, fossil fragments, medium gray Limestone stringers.

LITHOLOGY AND SHOWS

3680’ - 3692’	LIMESTONE: white to light gray, firm to hard, cryptocrystalline, chalky, fossil fragment, algal stain, tight to trace intercrystalline porosity, no shows.
3692’ - 3702’	SANDSTONE: very light gray to white, friable, very fine grained, subangular to subrounded, well sorted, calcareous cement, clay fill, black specks, tight to trace porosity, no shows.
3702’ - 3754’	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional moderately to very silty, occasional light gray Limestone stringers.
3754’ - 3762’	LIMESTONE: white to light gray, occasional reddish brown mottled, firm to hard, cryptocrystalline, chalky, slightly argillaceous in part, reddish brown Shale partings, tight, no show.
3762’ - 3816’	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty, occasional light gray chalky Limestone stringers.

WABAUNSEE	SAMPLE TOP: 3816’	LOG TOP: 3820’	SUBSEA: -688’

3816’ - 3850’	LIMESTONE: white to light gray, with light reddish brown mottled, soft to firm, cryptocrystalline, chalky texture, reddish brown SHALE partings, occasional fossil fragment, trace black heavy oil material, faint yellow grain fluorescence, slow pale greenish white cut.
3850’ - 3876’	SHALE: reddish brown, maroon, gray, mottled in part, soft to firm, blocky, non calcareous, moderately to very silty in part.

TOPEKA	SAMPLE TOP: 3876’	LOG TOP: 3884’	SUBSEA: -752’

3876’ - 3892’	LIMESTONE: light gray to white, hard to firm, cryptocrystalline, fossil fragment (Fusulinid, Brachiopod), sparry calcareous, gray Shale partings, occasional black dead oil, tight, no shows.
3892’ - 3902’	SHALE: gray, firm, platy to fissile, non to slightly calcareous, dull.
3902’ - 3920’	LIMESTONE: light gray to white, hard to firm, cryptocrystalline, fossil fragment, opaque chert, tight, no shows.
3920’ - 3954’	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty, clayey.

LITHOLOGY AND SHOWS

3954’ - 3982’	LIMESTONE: white to light red brown, mottled, firm to hard, mudstone, very chalky, slightly argillaceous in part, interbedded reddish brown Shale partings, tight, no shows.
3982’ - 4023’	SHALE: red brown, brownish maroon, firm, blocky, occasional slightly calcareous, non to slightly silty in part, clayey to sticky.

OREAD SAMPLE TOP: 4023’ LOG TOP: 4020’ SUBSEA: -888’

4023’ - 4039’	LIMESTONE: cream to white, firm to hard, mudstone to packstone, fossil fragments, scattered black oil stain, tight to trace interparticle and vuggy porosity, bright yellowish white fluorescence, immediate blooming yellowish white cuts, with slow streaming cuts, fair show.
4039’ - 4048’	LIMESTONE: gray to light gray, occasional dark gray, firm to hard, mudstone, occasional fossil, slightly argillaceous in part, tight, no show.
4048’ - 4064’	SHALE: dark gray to gray, firm, fissile, slightly carbonaceous in part, non to slightly calcareous, fossil fragments.
4064’ - 4078’	LIMESTONE: gray to light gray, firm to hard, mudstone, occasional fossil, becoming argillaceous in part at base, tight, no show.
4078’ - 4105’	SHALE: gray to reddish brown to maroon, firm, blocky, non to slightly calcareous, sub waxy to earthy.

LANSING-
KANSAS CITY “A” SAMPLE TOP: 4105’ LOG TOP: 4102’ SUBSEA: -970’

4105’ - 4122’	LIMESTONE: white to light gray, hard, mudstone, fossil fragments, spotty black oil stain, no visible porosity, bright yellowish white fluorescence, instant blooming yellowish white cuts, fair show, but lacks porosity.
4122’ - 4134’	LIMESTONE: gray to light gray, hard, mudstone, occasional fossil, slightly argillaceous in part, rare black oil stain, tight, predominantly no show.
4134’ - 4140’	SANDSTONE: white to light gray, firm to friable, very fine grained, well rounded, well sorted, calcareous cement, clay filled, clean, no visible porosity, no show.
4140’ - 4170’	SHALE: gray to reddish brown, soft to firm, subblocky, non to slightly calcareous, clayey, occasional argillaceous LIMESTONE stringers.

LITHOLOGY AND SHOWS

LANSING- KANSAS CITY "B"	SAMPLE TOP: 4170'	LOG TOP: 4162'	SUBSEA: -1030'

4170' - 4184'	LIMESTONE: white to very light gray, firm to hard, mudstone to wackestone, occasional fossil fragments, pyrite, occasional free live heavy black oil, predominant tight with trace intergranular porosity and fair vuggy porosity, bright yellowish white fluorescence, instant blooming bright yellowish white cuts, good show.
4184' - 4196'	LIMESTONE: white to light gray, hard, mudstone, occasional fossil, chalky texture, clean, tight, two pieces black oil stain and cut, tight, predominantly no show.
4196' - 4222'	SHALE: gray to dark gray, firm, sub blocky to fissile, non to slightly calcareous, fossil fragment, pyrite, occasional carbonaceous.

LANSING- KANSAS CITY "C"	SAMPLE TOP: 4222'	LOG TOP: 4216'	SUBSEA: -1084'

4222' - 4238'	LIMESTONE: light gray to white, firm, mudstone to wackestone, fossil fragments, predominantly chalky texture, occasional spotty black oil specks in tight rock, no visible porosity, dull yellow fluorescence, dull yellowish white cut, very poor show.
4238' - 4262'	SHALE: gray to dark gray, firm, sub blocky, non to slightly calcareous, fossil fragments, pyrite.

LANSING- KANSAS CITY "D"	SAMPLE TOP: 4262'	LOG TOP: 4256'	SUBSEA: -1124'

4262' - 4276'	LIMESTONE: light gray to white, firm, mudstone to wackestone, fossil fragments, chalky texture, trace spotty black oil specks (2 pieces), no visible porosity, dull yellow fluorescence, dull yellowish white cut, very poor show.
4276' - 4290'	SHALE: gray to dark gray, firm, blocky to fissile, non to slightly calcareous, occasional Limestone stringers.
4290' - 4310'	SHALE: dark reddish brown, soft to firm, blocky to platy, non calcareous, moderately to very silty, sticky;

LITHOLOGY AND SHOWS

LANSING- KANSAS CITY "E"	SAMPLE TOP: 4310'	LOG TOP: 4309'	SUBSEA: -1177'

4310' - 4326'	LIMESTONE: white, firm to soft, mudstone, very chalky, fossil fragments, occasional patchy brown oil stain, predominantly very tight, trace poor vuggy porosity, bright yellowish white fluorescence, immediate blooming yellowish white cuts, poor show.
4326' - 4336'	SHALE: dark gray to gray, firm, blocky, calcareous, fossil (Brachiopod), very to slightly carbonaceous in part, plant remains, trace pyrite.
4336' - 4351'	SHALE: dark reddish brown to reddish brown to gray, firm, blocky to platy, non calcareous, moderately to very silty.

LANSING- KANSAS CITY "F"	SAMPLE TOP: 4351'	LOG TOP: 4346'	SUBSEA: -1214'

4351' - 4364'	LIMESTONE: cream to white to light gray, firm to hard, mudstone to wackestone, very chalky texture, occasional fossil fragments, very tight, no shows.
4364' - 4376'	SHALE: gray to dark gray, firm, platy, non to slightly calcareous, occasional slightly carbonaceous, pyrite.
4376' - 4387'	LIMESTONE: white, hard, mudstone, chalky, dense, tight, no show.
4387' - 4414'	HALE: brownish red, firm, blocky, non calcareous, with interbedded Limestone stringers.
4414' - 4428'	LIMESTONE: white to cream, with reddish brown mottled, mudstone, occasional red shale partings, trace dark gray shale, occasional embedded medium grained white to black sand grains, tight, no shows.
4428' - 4444'	SHALE: dark reddish brown to reddish brown to dark gray, firm, blocky to platy, non calcareous, moderately to very silty.
4444' - 4464'	SHALE: gray, firm, blocky, n to slightly calcareous, thin Limestone stringers.
4464' - 4478'	LIMESTONE: gray, hard, cryptocrystalline, fossil fragments, dense, tight, no shows.
4478' - 4506'	SHALE: gray to dark gray to dark gray green, hard to firm, sub blocky, non calcareous.

LITHOLOGY AND SHOWS

PAWNEE	SAMPLE TOP: 4506’	LOG TOP: 4500’	SUBSEA: -1368’

4506’ - 4518’	LIMESTONE: white to cream to very light gray, firm to hard, grainstone to mudstone, peloids in part, fossil fragments, scattered live black oil stain, trace to fair vuggy porosity, occasional interparticle porosity, occasional oil in vugs, bright yellowish white fluorescence, instant blooming yellowish white cuts, good show.
4518’ - 4528’	LIMESTONE: white to very light gray, hard, mudstone, slightly chalky, fossil fragments, tight, no shows.
4528’ - 4540’	SHALE: black to dark gray to gray, firm, blocky to fissile, occasional carbonaceous, trace pyrite, fossil fragments, occasional black pellets.
4540’ - 4562’	LIMESTONE: white to light gray, firm to hard, mudstone, occasional black pellets, rare fossil, tight, no shows.

CHEROKEE	SAMPLE TOP: 4562’	LOG TOP: 4558’	SUBSEA: -1426’

4562’ - 4575’	SHALE: black to dark gray to gray, firm, blocky to fissile, occasional carbonaceous, trace pyrite, plant remains, thin black boney Coal stringers.
4575’ - 4596’	LIMESTONE: white to light gray to gray, firm to hard, mudstone to wackestone, rare fossil fragment, black Algal stain, tight, occasionally sandy, no shows.
4596’ - 4604’	SHALE: black to dark gray, firm, blocky to fissile, occasionally carbonaceous at top, plant remains, disseminated pyrite.
4604’ - 4630’	LIMESTONE: brownish gray to light gray, firm to hard, mudstone to wackestone, occasional fossil fragment (Brachiopod), slightly sandy in part, slightly argillaceous in part, opaque chert, tight, no shows.
4630’ - 4639’	SHALE: gray to dark gray, firm, platy, non to slightly calcareous, occasional slightly carbonaceous, pyrite.
4639’ - 4660’ TD	LIMESTONE: light gray to gray, firm to hard, mudstone, occasional fossil fragment, occasional dark gray carbonaceous SHALE partings, scattered opaque chert, tight, no shows.

SERVICES

CONTRACTOR:	Beredco Drilling Inc., Rig 2	
Toolpusher:	Milo Salinas	
DRILLING FLUIDS:	Morgan Mud, Inc.	McCook, ND
Mud Type:	Freshwater Chemical	308-340-5946
Engineers:	Dave Lines, Dave Korte	
MUD LOGGING:	None	
WELLSITE GEOLOGY:	T. M. McCoy & Co., Inc. Peter J. Vollmer	Wilson, WY 307-733-4332
DRILL STEM TESTING:	Trilobite Testing, Inc. Kevin Mack, Brandon Quintana DST 1: 3976’ - 4039’ Oread DST 2: 4122’ - 4195’ LKC “B” DST 3: 4470’ - 4518’ Pawnee	Hays, KS 785- 625-4778
DIRECTIONAL DRILLING:	None	
WIRELINE LOGS:	Pioneer Wireline Services RAG: Surface casing - TD Micro: 3500’ - TD Engineer: Jerod Long	Hays, KS 785-625-3858