[redacted]

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1245307

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: 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 #:

12/05/2014 Spud Date or Recompletion Date
12/14/2014 Date Reached TD
03/04/2015 Completion Date or Recompletion Date

API No. 15 - 15-153-21079-00-00
Spot Description:
N2 - SW - SW - SW Sec. 4 Twp. 1 S. R. 36 ☐ East ☑ West
500 Feet from ☐ North / ☑ South Line of Section
330 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: Rawlins
Lease Name: Moser B Well #: 5-4
Field Name: un-named Wildcat
Producing Formation: LKC, Oread
Elevation: Ground: 3055 Kelly Bushing: 3066
Total Vertical Depth: 4500 Plug Back Total Depth: 4432
Amount of Surface Pipe Set and Cemented at: 295 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: 1600 ppm Fluid volume: 500 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: 03/18/2015
☑ **Confidential Release Date:** 03/17/2017
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 03/18/2015

[redacted]

1245307

Operator Name: BEREXCO LLC Lease Name: Moser B Well #: 5-4

Sec. 4 Twp. 1 S. R. 36 ☐ East ☑ West County: Rawlins

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
Microresistivity Log

☑ 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	295	Common	225	3%cc, 2%gel
Production	7.875	5.50	15.5	4476	Lite & Common	700	10%salt,3/4#flo-seal, 2%gel, 5#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
Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.875 Set At: SN @ 4096 Packer At: no packer

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 03/04/2015

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	110	0	6		32

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:
4002 - 4066
3908 - 3913

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Moser B 5-4
Doc ID	1245307

Tops

Name	Top	Datum
Stone Corral Anhydrite	2992	+74
Anhydrite (base)	3024	+42
Foraker	3575	-509
Topeka	3792	-726
Oread	3907	-841
Lansing A	4002	-936
Lansing B	4054	-988
Lansing C	4108	-1042
Lansing D	4156	-1100
Lansing E	4200	-1134
Lansing F	4244	-1178
Pawnee	4386	-1320
RTD	4500	-1434
LTD	4500	-1434

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Moser B 5-4
Doc ID	1245307

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	perf 4412 - 4420 Ft. Scott	swabbed all water - no oil	4412 - 4420
	Set CIBP @ 4325 over Ft. Scott	1 sack cmt on top of CIBP w/ dump bailer	4325
4	perf 4054 - 4058 & 4060 - 4066 LKC	1000 gals. 15% MCA, 3% solvent	4054-4058, 4060-4066
		4000 gals 15% gelled acid	4054-4058, 4060-4066
4	perf 4002 - 4005 & 4023 - 4027 LKC	1500 gals 15% MCA, 3% solvent, 350 lbs RS/BF plug	4002-4005, 4023-4027
4	perf 3908 - 3913 Oread	750 gals 15% MCA, 3% solvent	3908 - 3913

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Moser B 5-4
Doc ID	1245307

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	295	Common	225	3%cc, 2%gel
Production	7.875	5.50	15.5	4476	Lite & Common	700	10%salt,3/4#flo-seal, 2%gel, 5#Gilsonite

ALLIED OIL & GAS SERVICES, LLC 064853

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Ogallala

DATE 12-5-14	SEC 4	TWP 1	RANGE 36	CALLED OUT	ON LOCATION 1:00Am	JOB START 2:00Am	JOB FINISH 3:30Am
LEASE Maier	WELL # 5-4		LOCATION McDonald 15N WINTO			COUNTY Rawlins	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Beredco 10
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 821'
CASING SIZE 8⅝ DEPTH 294'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 17.22 BBL

OWNER Same

1.01 1.09

EQUIPMENT

PUMP TRUCK # 431 CEMENTER Andrew Eastland
HELPER Brandon Williamson
BULK TRUCK # 891 DRIVER Ricardo (RW)
BULK TRUCK # DRIVER

REMARKS:

Cement Did Circulate

plug dn

CHARGE TO: Beredco
STREET
CITY STATE ZIP

CEMENT

AMOUNT ORDERED 225 sks com
3%cc 2%gel

COMMON	225 sks	@ 12.80	4022.50
POZMIX		@	
GEL	4 sks	@ 20.50	211.50
CHLORIDE	6 sks	@ 1.10	69.40
ASC		@	
		@	
Additional Fuel		@	4,936.40
		@	
		@	
		@	
		@	
		@	
HANDLING	243.9 cu ft	@ 2.48	602.68
MILEAGE	.24 per mile/sk	16.20 mi.	1526.25

TOTAL

555'

SERVICE

DEPTH OF JOB 294'
PUMP TRUCK CHARGE 1512.25
EXTRA FOOTAGE @
MILEAGE 50 miles @ 3.20 385.00
MANIFOLD head @ 275.00 N/C
Lightweight @ 9.40 N/C
@
(1248.33/312) TOTAL 4026.58

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	

TOTAL

SALES TAX (If Any) 389.97
TOTAL CHARGES 8,963.38
DISCOUNT 2,778.61 (31%) IF PAID IN 30 DAYS
6,184.66 Net.

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 Casey Wilson

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 12-5-14 District Oakley Ticket No. 064853
Company Bercxo Rig Beredo 10
Lease Mosey Well No. 5-4
County Republic State KS
Location 4 T 3S Field
McDonald 15W 4 1/2N

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

Casing Depths: Top KB Bottom 294

Drill Pipe: Size Weight Collars
Open Hole: Size 12 1/4 T.D. 312 ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. 10.32 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. 225 Sks Yield 1.84 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 437
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	PRESSURES PSI: ANNULUS	FLUID PUMPED DATA: TOTAL FLUID	FLUID PUMPED DATA: Pumped Per Time Period	FLUID PUMPED DATA: RATE Bbls Min.	REMARKS
2:00						start mixing cement
						Cement mixed
						start Displacement
				10		
				23		
	250					Displacement in
						Stage Down
						Shut in
2:30						Cement Did circulate

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

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita KS, 67206 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins Co, KS

Moser 5-4

Job Ticket: 58511 **DST#: 1**

Test Start: 2014.12.08 @ 14:00:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:20:30
Time Test Ended: 23:19:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Jace McKinney
Unit No: 75

Interval: 3880.00 ft (KB) To 3950.00 ft (KB) (TVD)
Total Depth: 3950.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

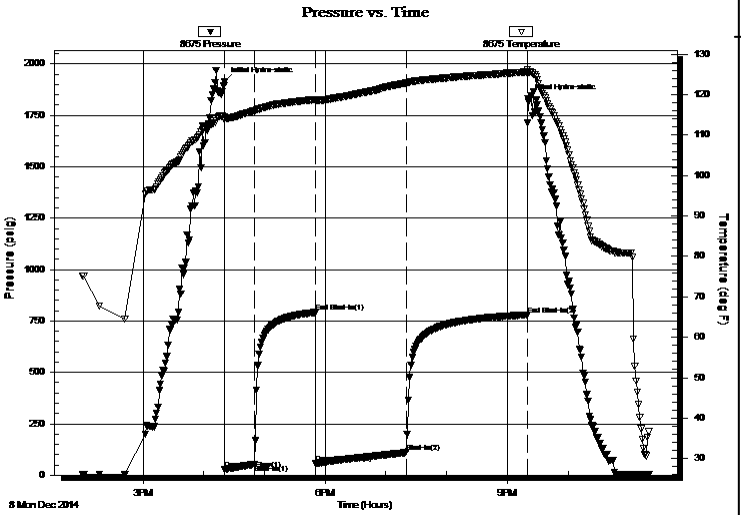
Reference Elevations: 3066.00 ft (KB)
3055.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8675 **Inside**

Press@RunDepth: 109.65 psig @ 3899.00 ft (KB)
Start Date: 2014.12.08 End Date: 2014.12.08
Start Time: 14:00:15 End Time: 23:19:45

Capacity: 8000.00 psig
Last Calib.: 2014.12.08
Time On Btm: 2014.12.08 @ 16:20:15
Time Off Btm: 2014.12.08 @ 21:20:30

TEST COMMENT: Built to 2 3/4" blow
Bled off for 3 min, No return blow
Built to 1 1/4" blow
Bled off for 3 min, No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.48	114.59	Initial Hydro-static
1	25.91	113.84	Open To Flow (1)
30	52.16	116.01	Shut-In(1)
90	791.57	118.81	End Shut-In(1)
91	55.51	118.37	Open To Flow (2)
180	109.65	122.86	Shut-In(2)
300	779.44	125.62	End Shut-In(2)
301	1830.71	125.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
116.00	100% Mud w ith oil scum	0.57
68.00	ocm 10%O 90%M	0.33

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 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins Co, KS

Moser 5-4

Job Ticket: 58511 **DST#: 1**

Test Start: 2014.12.08 @ 14:00:00

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:	ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	500.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
116.00	100% Mud w ith oil scum	0.570
68.00	ocm 10%O 90%M	0.334

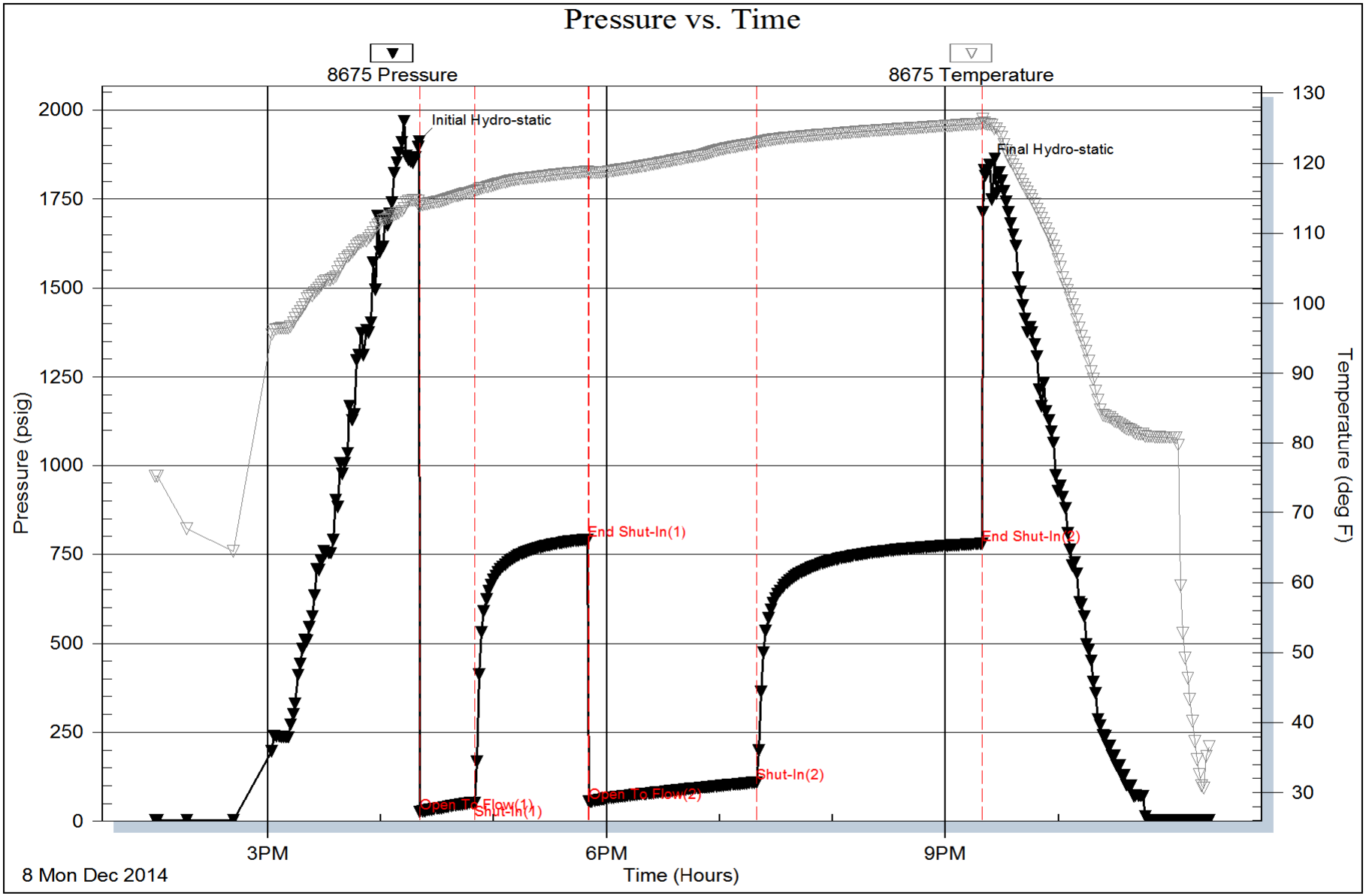
Total Length: 184.00 ft Total Volume: 0.904 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8675 **Inside** Berexco LLC Moser 5-4 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 58511 Printed: 2014.12.08 @ 23:32:27

DRILL STEM TEST REPORT

Bereco LLC

2020 N. Bramblew ood
Wichita KS, 67206 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins Co, KS

Moser 5-4

Job Ticket: 58512 **DST#: 2**

Test Start: 2014.12.09 @ 15:50:00

GENERAL INFORMATION:

Formation: **Lansing 'A'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:18:15
Time Test Ended: 01:37:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 75

Interval: 3935.00 ft (KB) To 4040.00 ft (KB) (TVD)
Total Depth: 4040.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

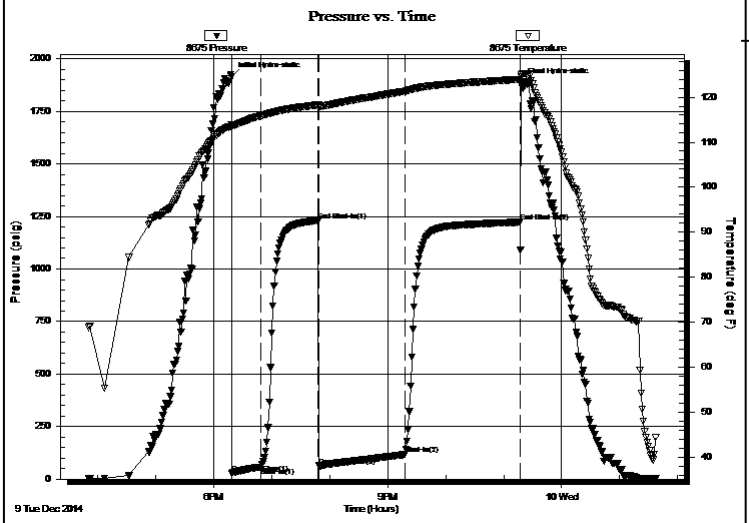
Reference Elevations: 3066.00 ft (KB)
3055.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8675 **Inside**

Press@RunDepth: 116.93 psig @ 3942.00 ft (KB)
Start Date: 2014.12.09 End Date: 2014.12.10
Start Time: 15:50:15 End Time: 01:37:45

Capacity: 8000.00 psig
Last Calib.: 2014.12.10
Time On Btm: 2014.12.09 @ 18:18:00
Time Off Btm: 2014.12.09 @ 23:18:00

TEST COMMENT: Built to 6" blow
Bled off for 3 min, No return blow
B.O.B. in 46 min
Bled off for 5 min, 1/4" return blow through out the 120 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.44	113.78	Initial Hydro-static
1	27.97	113.16	Open To Flow (1)
31	57.58	115.88	Shut-In(1)
90	1231.14	118.28	End Shut-In(1)
91	61.39	117.96	Open To Flow (2)
180	116.93	121.30	Shut-In(2)
299	1223.03	123.94	End Shut-In(2)
300	1885.60	124.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	116 Feet Weak Gas In Pipe	0.00
88.00	100% Clean Oil	0.43
116.00	mco 50%M 50%O	0.57

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Bereco LLC

2020 N. Bramblew ood
Wichita KS, 67206 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins Co, KS

Moser 5-4

Job Ticket: 58512 **DST#: 2**

Test Start: 2014.12.09 @ 15:50:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	32 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	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
0.00	116 Feet Weak Gas In Pipe	0.000
88.00	100% Clean Oil	0.433
116.00	mco 50%M 50%O	0.570

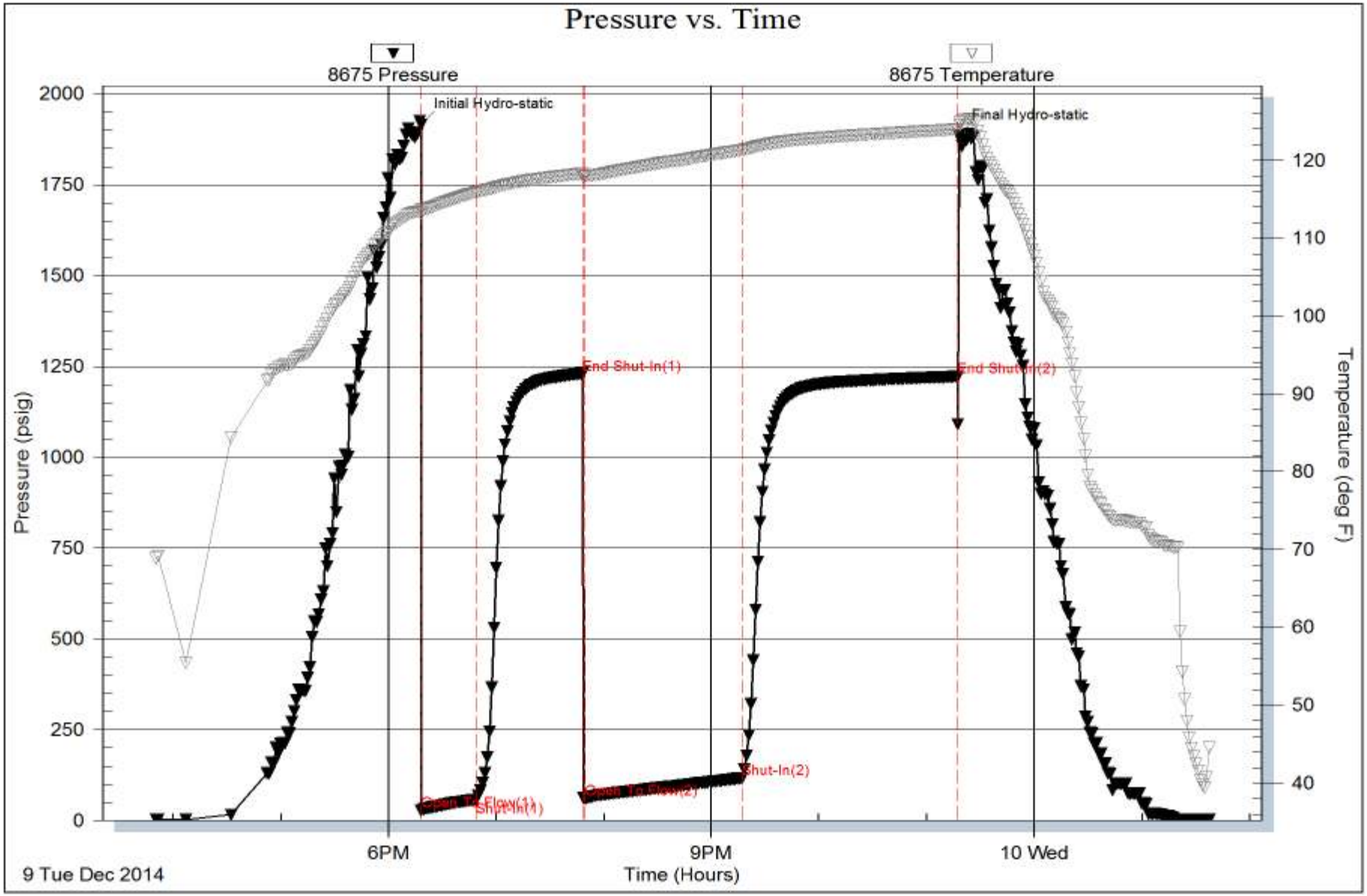
Total Length: 204.00 ft Total Volume: 1.003 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API: 29 @ 30 = 32

Serial #: 8675 **Inside** Bereco LLC Moser 5-4 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 58512 Printed: 2014.12.10 @ 08:14:15

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita KS 67206 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins,KS

Moser #5-4

Job Ticket: 61048 **DST#: 3**

Test Start: 2014.12.10 @ 13:02:00

GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:22:00
Time Test Ended: 22:39:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Quintana
Unit No: 57

Interval: 4010.00 ft (KB) To 4090.00 ft (KB) (TVD)
Total Depth: 4090.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

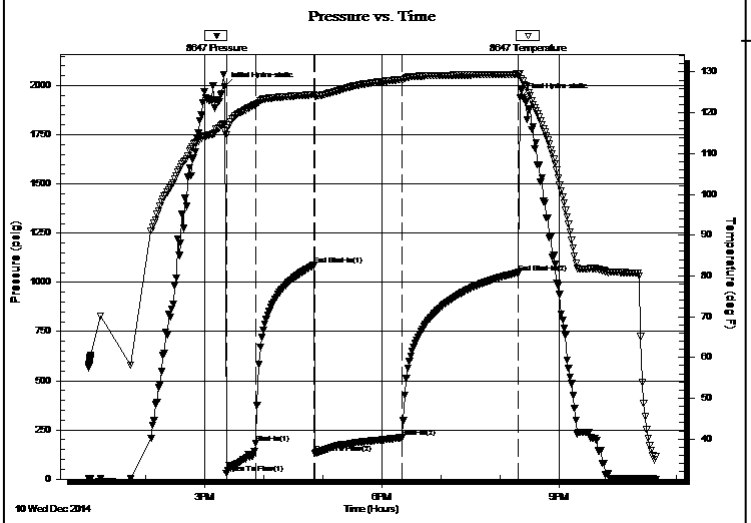
Reference Elevations: 3066.00 ft (KB)
3055.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8647 **Inside**

Press@RunDepth: 210.47 psig @ 4011.00 ft (KB)
Start Date: 2014.12.10 End Date: 2014.12.10
Start Time: 13:02:01 End Time: 22:39:00

Capacity: 8000.00 psig
Last Calib.: 2014.12.10
Time On Btm: 2014.12.10 @ 15:20:30
Time Off Btm: 2014.12.10 @ 20:20:30

TEST COMMENT: 30 - IF - Opened w / surface blow , built to 9 1/2"
60 - ISI - Return built to 1/4", died back to nothing
90 - FF - Blow built to B.o.B in 26 min.
120 - FSI - Return built to 4 1/2", died back to 2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.23	115.69	Initial Hydro-static
2	30.59	114.65	Open To Flow (1)
32	183.15	122.03	Shut-In(1)
90	1086.15	124.41	End Shut-In(1)
92	130.18	124.08	Open To Flow (2)
180	210.47	128.14	Shut-In(2)
299	1049.87	129.46	End Shut-In(2)
300	1940.03	129.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	OCM 50%m, 30%o, 20%g	1.48
60.00	GO 80%o, 20%g	0.30
137.00	100%CO	0.96

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 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins,KS

Moser #5-4

Job Ticket: 61048 **DST#: 3**

Test Start: 2014.12.10 @ 13:02:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	30 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	OCM 50%m, 30%o, 20%g	1.475
60.00	GO 80%o, 20%g	0.295
137.00	100%CO	0.959

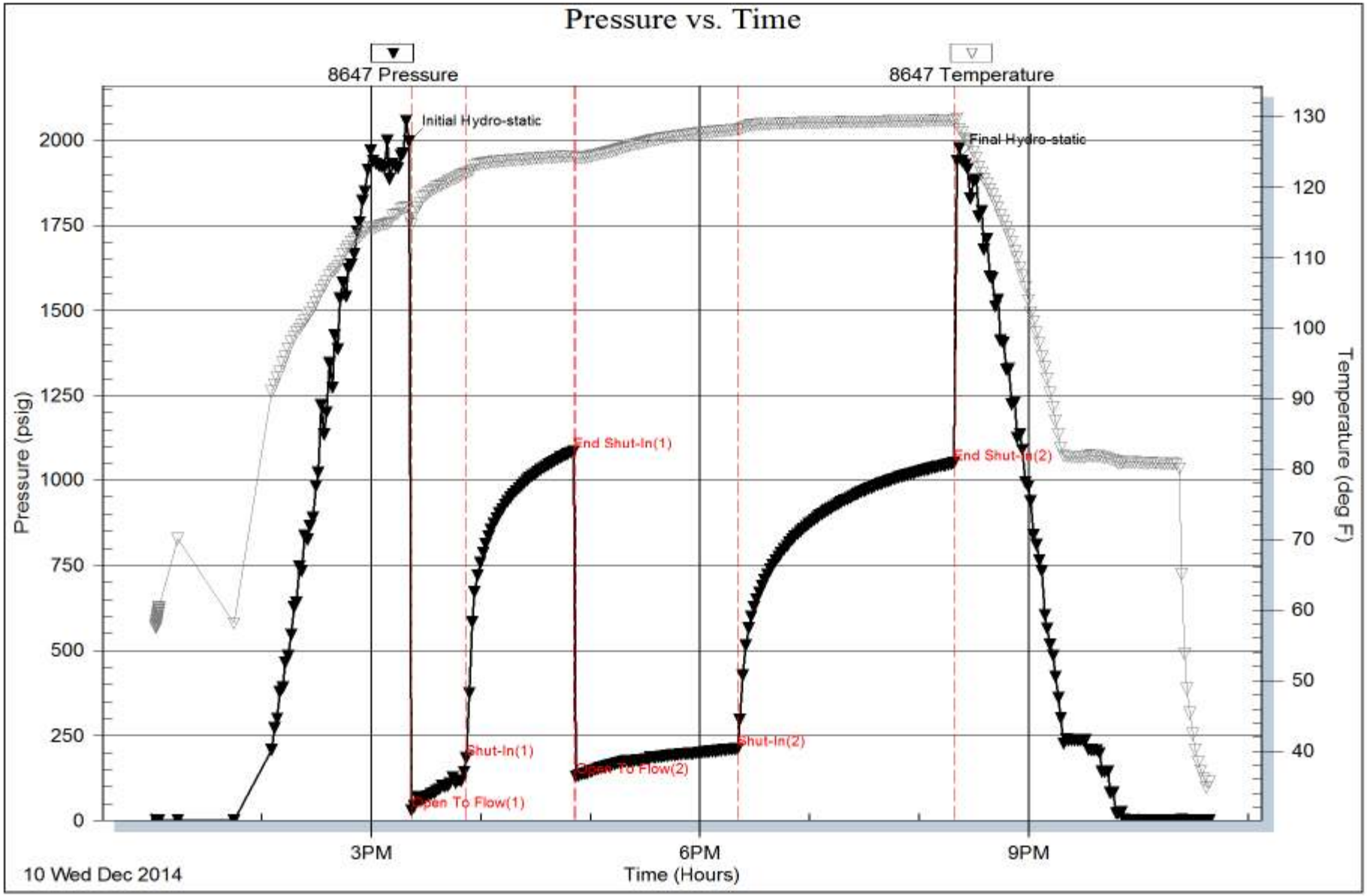
Total Length: 497.00 ft Total Volume: 2.729 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity 32 @ 80 Corrected = 30

Serial #: 8647 **Inside** Berexco LLC Moser #5-4 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61048 Printed: 2014.12.11 @ 08:13:12

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita KS 67206 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins,KS

Moser #5-4

Job Ticket: 61049 **DST#: 4**

Test Start: 2014.12.11 @ 11:19:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:54:30
Time Test Ended: 19:32:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Quintana
Unit No: 57

Interval: 4065.00 ft (KB) To 4180.00 ft (KB) (TVD)
Total Depth: 4180.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

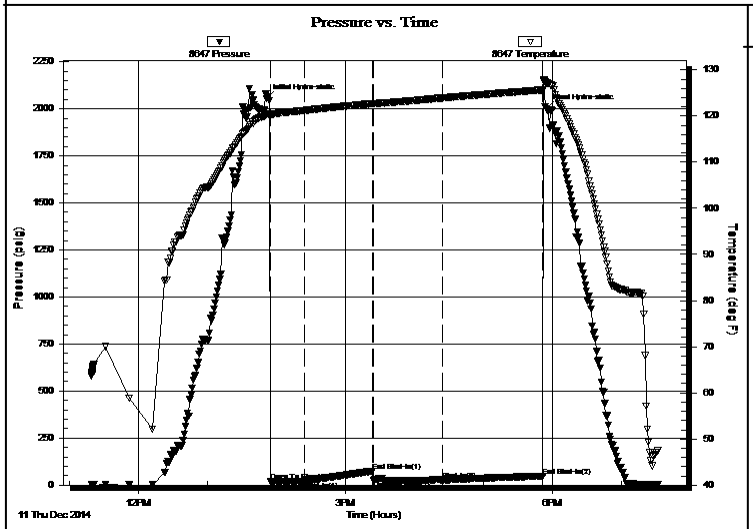
Reference Elevations: 3066.00 ft (KB)
3055.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8647 **Inside**

Press@RunDepth: 26.42 psig @ 4066.00 ft (KB)
Start Date: 2014.12.11 End Date: 2014.12.11
Start Time: 11:19:01 End Time: 19:32:00

Capacity: 8000.00 psig
Last Calib.: 2014.12.11
Time On Btm: 2014.12.11 @ 13:51:30
Time Off Btm: 2014.12.11 @ 17:54:30

TEST COMMENT: 30 - IF - Opened w / surface blow , died back to nothing
60 - ISI - No Return
60 - FF - No Blow
90 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.41	120.28	Initial Hydro-static
3	19.85	120.16	Open To Flow (1)
33	21.65	121.21	Shut-In(1)
92	72.30	122.70	End Shut-In(1)
93	25.56	122.63	Open To Flow (2)
153	26.42	123.90	Shut-In(2)
240	48.56	125.67	End Shut-In(2)
243	2001.83	127.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%mud w / oil spots	0.02

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 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins,KS

Moser #5-4

Job Ticket: 61049 **DST#: 4**

Test Start: 2014.12.11 @ 11:19:00

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:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	inches				

Recovery Information

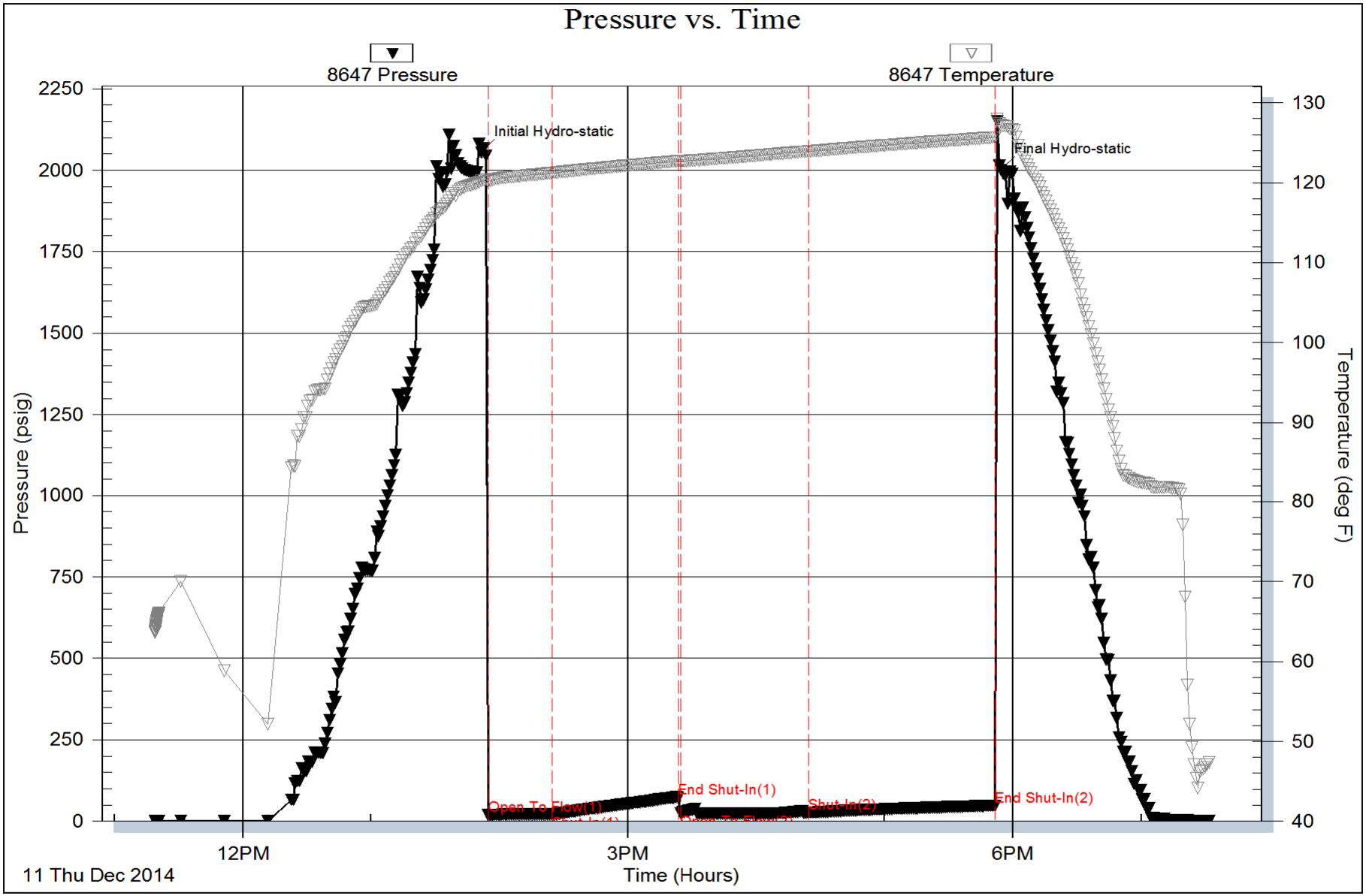
Recovery Table

Length ft	Description	Volume bbl
5.00	100%mud w / oil spots	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 #: 8647 **Inside** Berexco LLC Moser #5-4 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 61049 Printed: 2014.12.11 @ 23:20:47

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita KS 67206 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins,KS

Moser #5-4

Job Ticket: 61050 **DST#: 5**

Test Start: 2014.12.12 @ 06:15:00

GENERAL INFORMATION:

Formation: **LKC "E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:05:00
Time Test Ended: 15:12:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Quintana
Unit No: 57

Interval: 4165.00 ft (KB) To 4220.00 ft (KB) (TVD)
Total Depth: 4220.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

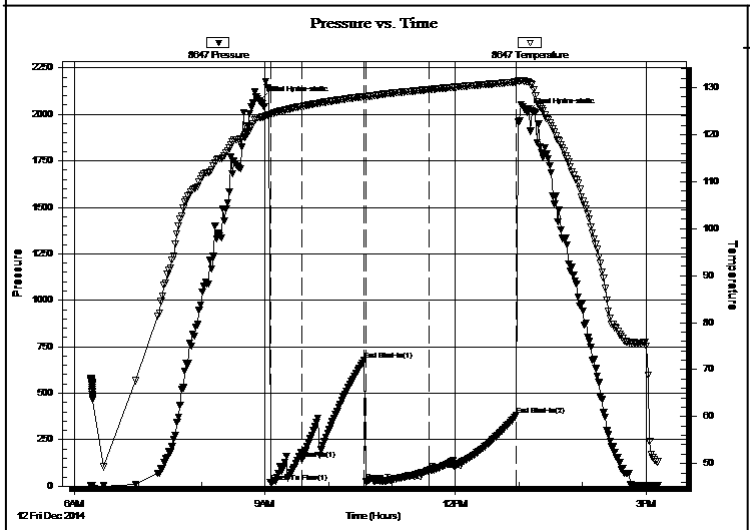
Reference Elevations: 3066.00 ft (KB)
3055.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8647 **Inside**

Press@RunDepth: 84.63 psig @ 4166.00 ft (KB)
Start Date: 2014.12.12 End Date: 2014.12.12
Start Time: 06:15:01 End Time: 15:12:00

Capacity: 8000.00 psig
Last Calib.: 2014.12.12
Time On Btm: 2014.12.12 @ 08:54:30
Time Off Btm: 2014.12.12 @ 13:08:00

TEST COMMENT: 30 - IF - Opened w / surface blow , built to 3/4" & died back 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	2072.34	123.63	Initial Hydro-static
11	20.47	124.28	Open To Flow (1)
41	142.90	126.05	Shut-In(1)
99	676.62	128.11	End Shut-In(1)
101	23.68	128.06	Open To Flow (2)
161	84.63	129.61	Shut-In(2)
243	380.15	131.22	End Shut-In(2)
254	2009.01	131.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%mud w / oil spots	0.02

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 1094

ATTN: Bryan Bynog

4-1s-36w Rawlins,KS

Moser #5-4

Job Ticket: 61050 **DST#: 5**

Test Start: 2014.12.12 @ 06:15:00

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:	62.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.00 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
5.00	100%mud w / oil spots	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:

Dec. 22. 2014 1:45PM No. 4839 P. 1

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 064842

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE 12-14-14	SEC 4	TWP 7S	RANGE 36W	CALLED OUT	ON LOCATION 10:00p.m.	JOB START 10:00am	JOB FINISH 11:00am
LEASE Moser	WELL # 5-4		LOCATION McDonald			COUNTY Rawlins	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Beredco 10
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 4500'
CASING SIZE 5 1/2 DEPTH 4500'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 42'
CEMENT LEFT IN CSG. 42'
PERFS.
DISPLACEMENT 106.10 bbl #20

OWNER Same

EQUIPMENT

PUMP TRUCK # 120 CEMENTER Paul Beaver
HELPER Tyler Flipse / Ivan (Two)
BULK TRUCK # 1600 DRIVER Shawn Tatro
BULK TRUCK # 890/241 DRIVER Jeff (Two)

CEMENT

AMOUNT ORDERED 450 sks Lite 3/4# Flo-seal, 250 sks com 10% salt 5# gilsonite, 2% gel

COMMON	250 sks	@ 17.90	4475.00
POZMIX		@	
GEL	470 #	@ .50	235.00
CHLORIDE		@	
ASC		@	
Lite (6lb+1/8)	450 sks	@ 19.89	8950.50
Gilsonite	1250 #	@ .98	1225.00
Flo-Seal	337 #	@ 2.97	1000.89
Salt	1275 #	@ .68	867.00
		@	
Material Total		@	16,753.39
(5,193.55/31%)		@	
		@	
HANDLING	824.84 ft³	@ 2.48	2645.60
MILEAGE	34.31 tons x 50 mi x	2.75	4717.62
		TOTAL	

REMARKS:

Run Pipe / Float equip / Drop ball pump through shoe @ 400# circ mix 30 sks in R.H, mix 20 sks in M.H mix 400 sks lite, tail w/ 250 sks Com, Release plug / Displace w/ water, plug did land @ 2000# w/ 1500# Lift, Float did hold, cement did circ

Thank You!
Paul + Crew

SERVICE

DEPTH OF JOB	4500'		
PUMP TRUCK CHARGE			2765.75
EXTRA FOOTAGE		@	
MILEAGE	mi/pu 50	@ 7.70	385.00
MANIFOLD	Head	@	N/C
	mi-v 50	@ 4.40	N/C
		@	
(3,259.33/31%)		TOTAL	10,513.97

CHARGE TO: Beredco llc
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

Industrial Rubber (5 1/2)

AFU Float shoe		@	232.00
Latchdown plug Assy		@	184.00
Centralizers	10	@	370.00
Scratchers	20	@	920.00
		@	
(528.86/31%)		TOTAL	1,706.00

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 28,973.36
DISCOUNT 8,981.74 (31%) IF PAID IN 30 DAYS
19,991.61 Net.

PRINTED NAME FRED RGramm
SIGNATURE

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 12-15-14 District Oakley KS Ticket No. 64842
Company Berexco Rig Beredco 10
Lease Moser Well No. 5-4
County Rawlins State KS
Location 4-1-36 Field

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☐ Intermediate ☐ Production ☒ Liner ☐
Size 5 1/2 Type New Weight 15.5# Collar

Casing Depths: Top KB Bottom 4500'

Drill Pipe: Size Weight Collars
Open Hole: Size 7 7/8 T.D. 4500 ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0238 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 60/40/8% gel 3/4# Flo-seal Excess
Amt. 450 Sks Yield 1.9 ft³/sk Density 12.5 PPG
TAIL: Pump Time hrs. Type Com 10% 1.5% (+ 5# gilsonite 2% gel Excess
Amt. 250 Sks Yield 1.56 ft³/sk Density 14.5 PPG
WATER: Lead 10.9 gals/sk Tail 6.97 gals/sk Total Bbls.

Pump Trucks Used 120 - Tyler F / Juan L
Bulk Equip. 600 - Shawn
890/841 - Jeff

Float Equip: Manufacturer Industrial
Shoe: Type AFU Depth
Float: Type Latch down Depth
Centralizers: Quantity 10 Plugs Top Btm.
Stage Collars
Special Equip. 20 Regal Scratchers
Disp. Fluid Type water Amt. 106 Bbls. Weight PPG
Mud Type 40 vis Weight PPG

COMPANY REPRESENTATIVE
CEMENTER Paul Deaver

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
						Hold Safety meeting
						Run Pipe / Float equip / Drop ball pumped ball through shoe @ 4005
						circ. 2 hrs
10:00	0		5.0	5.0	4	mix 30 sks in R.H
	0		3.0	8.0	4	mix 15 sks in M.H
	200		105	113	4	mix 405 sks Lite @ 12.5#
	200		42	155	6	mix 250 sks Com @ 14.5#
	0		10	165	4	wash up to pit / Release plug
	200		20	185	6	Displace w/ water
	400		26	205	6	
	600		30	225	6	
	800		90	245	6	
	1300		10	255	6	
	1400		10	265	6	
11:00	1500		6.0	271	4	plug did land @ 2000#
						Lift pressure 1500#
						Float did hold
						cement did circ
						Hold Safety meeting Thank you

FINAL PUMP PRESS 1500 PSI PUMP PLUG TO 2000 PSI BUMPED? 1 BBLS THANK YOU

Berexco, LLC
Moser B #5-4
N2SWSWSW Section 4 1S-36W
Rawlins County, Kansas

GEOLOGIST
William B. Bynog

RESUME

OPERATOR:	Berexco, LLC
WELL NAME & NUMBER:	Moser B #5-4
LOCATION:	N2SWSWSW Section 4 1S-36W
COUNTY:	Rawlins
STATE:	Kansas
SPUD DATE:	12-4-2014
COMPLETION DATE:	12-13-2014
ELEVATIONS:	GL: 3055 KB: 3066
CONTRACTOR:	Beredco Drilling Rig 10
LOGS: PIONEER	TYPES: Rag, Micro log
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 3880-3950. DST#2 3935-4040, DST#3 4010-4090, DST#4 4065-4180, DST#5 4165-4220
WELL STATUS:	Ran 5 ½ Production Casing

DISCUSSION

Moser B #5-4 1S-36W was drilled a total depth of 4500 feet testing the Lansing Kansas City and Pawnee formations in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control.

Structurally, Moser B #5-4 1S-36W came in eight feet low to the prognosis but seven feet high to a new producer, Vernice #15-5 1S-36W, just to the west.

Drilling continued to the Foraker and Topeka zones encountering poor sample shows with poor porosity development, none worthy of a drill stem test. The first good sample show with fair porosity development was the Oread formation at 3907 feet. The upper bench of the Oread was a chalky limestone with poor sample shows however, the second bench was a well-developed grainstone with fair porosity and very good sample shows. Drill stem test #1 recovered 68 feet of oil cut mud (10% oil) and 116 feet of mud with oil spots. The A zone also had good sample shows with fair porosity development in a permeable grainstone. This zone was tested on drill stem test #2 recovering 116 feet of gas in pipe, 88 feet of clean oil and 116 feet of mud cut oil (50% oil) with good pressures. Drilling continued to the B zone encountering a good sample show in another porous grainstone. Drill stem test #3 on the B zone recovered 137 feet of clean oil, 60 feet of gassy oil and 300 feet of gassy oil cut mud (30% oil) with good pressures. The C zone had poor sample shows with poor porosity development and the D had poor porosity development and no shows. Drill stem test #4 on both the C and D zones only recovered 5 feet of mud with oil spots. The E zone had fair sample shows but tested only 5 feet of oil spotted mud on drill stem test #5 recording low pressures, suggesting old production from surrounding wells. The Pawnee zone had no shows so drilling continued to total depth.

Logs agreed with sample evaluation recording fair porosity development and high resistivity in the upper Lansing Kansas City zones. The lower Lansing Kansas City zones were tight, testing small amounts of mud with oil spots.

A decision was made to run 5 ½ production casing based on the favorable drill stem test on the Oread, Lansing A and B zones.

MOSER B #5-4 SAMPLE DESCRIPTIONS

3500-75 SHALE red,soft,silty

FORAKER

3575-92 LIMESTONE pale gray,firm, fossils,chalky in part,sandy in part,poor pinpoint porosity,spotty to even live brns stain,good cut,fair show free oil

3592-3600 SHALE green,firm,sandy in part

3600-3612 LIMESTONE buff,pale gray,hard,dense,chalky in part

3612-32 LIMESTONE buff,pale gray,firm,very sandy,clqy filled,no shows

3632-3720 SHALE red,soft,argillaceous,silty in part with thin LIMESTONE buff,hard,blocky,dense,no shows

3720-40 LIMESTONE buff,hard,fossils,chalky in part,poor porosity,spotty black dead stain,poor cut

3740-58 LIMESTONE buff,very hard,dense,blocky slightly fossils,poor porosity,no shows with thin SHALE as above

3758-3790 SHALE red,very soft,very argillaceous with thin LIMESTONE as above

TOPEKA

3790-3800 LIMESTONE buff,pale yell,very hard, dense,slightly fossils,poor porosity,no shows

3800-24 SHALE red,soft,silty

3824-46 SANDSTONE pale gray,friable,very fine grained,clay filled,no show

3846-60 SHALE aa

3860-80 LIMESTONE buff,pale yell,hard,dense,blocky,no shows

3880-3900 SHALE red,very soft,argillaceous with thin LIMESTONE as above

OREAD

3900-10 LIMESTONE white,firm,slightly fossils,very chalky,poor vis porosity,spotty black dead stain,no free oil

3910-22 LIMESTONE buff,very hard,dense,blocky,no shows

3922-30 GRAINSTONE white,firm,very oolitic,fair intergranular and moldic porosity,spotty to even live brown stain,very good milky cut,good show free oil

3930-50 LIMESTONE buff,very hard,dense,blocky,no shows

3950-80 SHALE dark gray,gray black,firm,fissile,slightly carbonaceous

3980-4002 Shale red,very soft,very argillaceous

LANSING A

4002-08 GRAINSTONE pale gray,firm,very fossils,clean,fair intergranular porosity,spotty to even live brown stain,very gd milky cut,good show free oil

4008-20 LIMESTONE buff,hard,dense,blocky,no shows with thin SHALE as above

40020-26 SANDSTONE pale fn,firm,very fine grained,clay filled,poor porosity,no shows

4026-54 SHALE red,very soft,very argillaceous

B

4054-62 GRAINSTONE pale gray,firm,very fossils,oolites,clean,fair intergranular and vuggy porosity,spotty to even live brown stain,very good milky cut,good show free oil

4062-68 LIMESTONE buff,very hard,dense,crptoxln,abundant pyrite

4068-76 SHALE as above

4076-82 LIMESTONE buff,hard,slightly fossils,poor vuggy porosity,very spotty live brown stain,fair cut,no free oil

4082-4112 SHALE red,some green,firm,argillaceous

C

4112-18 GRAINSTONE white,firm,very fossils,clean,fair intergranular porosity,spotty brown stain,fair milky cut,no free oil

4118-30 LIMESTONE buff,very hard,dense,blocky,crptoxln,no shows

4130-55 SHALE green,red,firm,waxy in part

D

4155-72 LIMESTONE buff,hard,blocky,chalky in part.poor vis porosity,no shows abundant pyrite

4172-96 SHALE as above

E

4200-4206 LIMESTONE buff,hard,blocky,dense,no shows

4206-10 GRAINSTONE white,firm,very oolitic,fair intergranular porosity,spotty live brown stain,good milky cut,poor show free oil

4210-20 LIMESTONE buff,very hard,dense,crptoxln,no shows

4220-46 SHALE red,firm,very silty some sandy

F

4246-62 LIMESTONE buff,pale gray,very hard,dense,blocky,no shows

4262-4326SHALE red,soft,very argillaceous with thin bedded LIMESTONE as above

MOSER B #5-4 SAMPLE DESCRIPTIONS

4326-46 LIMESTONE pale gray,hard,chalky in part,poor porosity,no shows

4346-84 SHALE as above with thin LIMESTONE white,slightly hard,chalky,poor porosity,no shows

4384-4400 LIMESTONE white,pale gray,slightly hard,fossils,chalky in part,poor vis porosity,no shows

4400-12 SHALE green,firm,waxy in part,argillaceous

4412-18 LIMESTONE white,firm,slightly fossils,very chalky,slightly sandy,poor vis porosity,no shows

4418-54 LIMESTONE buff,pale gray,very hard,dense,crptoxln,no shows with thin SHALE as above

4454-60 SHALE green,firm,waxy

4460-84 LIMESTONE buff,firm,very sandy,poor porosity,no shows

4484-4500 SHALE as above

RTD 4500'

MOSER B #5-4 SAMPLE DESCRIPTIONS

LTD 4500'