[redacted]

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1249723

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: Evan Mayhew
Phone: (316) 265-3311
CONTRACTOR: License # 34318
Name: BEREXCO LLC
Wellsite Geologist: William B. 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 #:

12/19/2014 — Spud Date or Recompletion Date
01/03/2015 — Date Reached TD
03/31/2015 — Completion Date or Recompletion Date

API No. 15 - 15-153-21088-00-00
Spot Description:
NE - NW - SE - NW Sec. 22 Twp. 1 S. R. 36 ☐ East ☑ West
1400 Feet from ☑ North / ☐ South Line of Section
1970 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: Michael Well #: 9-22
Field Name: East Fork
Producing Formation: Lansing/KS City
Elevation: Ground: 3103 Kelly Bushing: 3114
Total Vertical Depth: 4396 Plug Back Total Depth: 4334
Amount of Surface Pipe Set and Cemented at: 296 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: 3800 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: 04/16/2015
☑ **Confidential Release Date:** 04/15/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 04/16/2015

[redacted]

1249723

Operator Name: BEREXCO LLC Lease Name: Michael Well #: 9-22

Sec. 22 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	296	Common	225	2% gel. 3% CC
Production	7.875	4.50	11.6	4382	Lite & Common	500	10%salt,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:	Set At:	Packer At:	Liner Run:
	2.375	SN @ 4248	no packer	☐ 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
	5				

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:
4044 - 4260

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 9-22
Doc ID	1249723

Tops

Name	Top	Datum
Anhydrite	3018	+96
Anhydrite (Base)	3052	+62
Foraker	3612	-498
Topeka	3836	-722
Oread	3948	-834
Lansing A	4046	-932
Lansing B	4102	-988
Lansing C	4164	-1050
Lansing D	4209	-1095
Lansing E	4250	-1136
Lansing F	4288	-1174
RTD	400	-1286
LTD	4396	-1282

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 9-22
Doc ID	1249723

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	4252 - 4260 E	1000 gals 15% MCA, 3% solvent	4252 - 4260
6	4210 - 4218 D	1000 gals 15% MCA, 3% solvent	4210 - 4218
6	4164 0 4174 C	1000 gals 15% MCA, 3% solvent	4164 - 4170
6	4101 - 4113 B	1000 gals 15% MCA, 3% solvent	4101 - 4113
6	4044-4048, 4056-4064, 4068-4074 A	1500 gals 15% MCA, 3% solvent, RS/BF Plug	4044 - 4074
		4000 gals 15% galled acid, 3% solvent	4044 - 4074

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 9-22
Doc ID	1249723

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	296	Common	225	2% gel. 3% CC
Production	7.875	4.50	11.6	4382	Lite & Common	500	10%salt,2 %gel,5#Gil sonite

Berexco, LLC
Michael # 9-22
N2N2 SENW Section 22 1S-36W
Rawlins County, Kansas

GEOLOGIST
William B. Bynog

RESUME

OPERATOR:	Berexco, LLC
WELL NAME & NUMBER:	Michael # 9-22
LOCATION:	N2N2 SENW Section 22 1S-36W
COUNTY:	Rawlins
STATE:	Kansas
SPUD DATE:	12-19-2014
COMPLETION DATE:	1-3-2014
ELEVATIONS:	GL: 3103 KB: 3114
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 3870-3975, DST#2 3980-4080, DST#3 4060-4140, DST#4 4120-4185, DST#5 4182-4275
WELL STATUS:	Ran 4 ½ Production Casing

DISCUSSION

Michael #9-22 1S-36W was drilled a total depth of 4400 feet testing the Lansing Kansas City formation in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control.

Structurally, Michael #9-22 1S-36W came in only two feet low to the prognosis and Michael #4-22 1S-36W.

Michael #9-22 was spud on 12-19-2014 drilling 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 Deer Creek sand zone formation at 3904 feet, encountering live oil shows with fair porosity development. This zone was tested on drill stem test #1 recovering 1076 feet of muddy water or watery mud, no oil shows. Drilling continued to the Lansing A zone at 4046 feet encountering a porous grainstone associated with a very good drilling break and good live oil shows. The A zone was tested on drill stem test #2 recovering 6 feet of free oil and 249 feet of oil cut mud with good pressures. Drilling continued to the B zone encountering a fair sample show in another porous grainstone. Drill stem test #3 on the B zone recovered 248 feet of watery mud with oil spots. The C zone had poor sample shows with poor porosity development and was tested on drill stem test #4 recovering only 6 feet of oil spotted mud with low pressures indicating depletion. The D and E zones had poor sample shows and poor porosity development. Drill stem test #5 recovered 73 feet of oil spotted mud with fair pressure data.

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 4 ½ production casing based on the favorable drill stem test on the Lansing A zone.

MICHAEL #9-22 SAMPLE DESCRIPTIONS
BEREDCO DRILLING, RIG 10 DRILLING 7 7/8 HOLE

3550-3613 SHALE red,firm,argillaceous,slightly silty in part

FORAKER

3613-20 GRAINSTONE white,firm,chalky,poor intergranular porosity,spotty live brown stain,good cut,fair show free oil

3620-30 LIMESTONE buff,slightly hard,slightly fossils,poor porosity,blocky,dense,no shows

3630-40 SHALE green green,firm,waxy,abundant pyrite

3640-52 LIMESTONE white,firm,very sandy,very fine grained,chalky,poor vis porosity,no shows

3652-74 SANDSTONE pale red,friable,very fine grained,wsrtd,clay filled,poor vis porosity,no shows with thin SHALE as above

3674- 96SHALE gray green,some red,firm,waxy

3696-3710 LIMESTONE buff,very hard,dense,no shows

3710-40 SHALE red,soft,very argillaceous

3740-3808 SHALE as above with thin LIMESTONE buff,hard,chalky in part,trace black dead stain,no free oil

3808-3838 SHALE as above with very thin LIMESTONE as above,no shows

TOPEKA

3838-70 LIMESTONE buff,hard,dense,blocky,no shows with thin SHALE as above

3870-88 LIMESTONE white,firm,microcrystalline,sbchky,poor vis porosity,no shows

3888-3914 SHALE red,very soft,very argillaceous

DEER CREEK SAND

3914-34 SANDSTONE translucent,slightly hard,fine to m grained,wsrtd,sbrnd, sileous cement,fair intergranular porosity,spotty live thick stain,very good cut,fair show free oil

3934-54 SHALE red,green,firm,waxy

OREAD

3954-66 LIMESTONE buff,very hard,blocky,very dense,no shows

3966-72 LIMESTONE buff,firm,microcrystalline,chalky in part,poor vis porosity,no shows

3972-96 LIMESTONE pale tan,very hard,dense,blocky,crptoxln,no shows

MICHAEL #9-22 SAMPLE DESCRIPTIONS

3996-4010 SHALE dark gray,gray black,firm,abundant pyrite

4010-50 SHALE red,very soft,very argillaceous with thin LIMESTONE pale gray,hard,dense,no shows

LANSING A

4050-56 GRAINSTONE white,firm,very oolitic,fair to good oomoldic porosity,spotty to even live black stain,very good milky cut,good show free oil

4056-74 LIMESTONE pale gray,hard,dense,blocky,no shows with thin SHALE aaa

4074-80 SANDSTONE white,firm,vgr,wsrtd,dense calcareous cement,poor porosity,no shows

4080-4103 SHALE red,soft,very argillaceous

B ZONE

4103-4106 GRAINSTONE white,firm,very oolitic,chalky in part,fair intergranular porosity,spotty live brown stain,gd cut,poor show free oil

4106-30 LIMESTONE buff.pale gray,very hard,dense,very chalky in part,no shows with thin SHALE green,firm,waxy

4130-68 SHALE green,red,soft,argillaceous

C

4168-81 PACKSTONE white,firm, oolitic,slightly chalky,fair intergranular and oomoldic porosity,spotty live brown stain,very good cut,good show free oil

4181-4213 to SHALE green,red,firm,argillaceous,chnky

D

4213-24 LIMESTONE buff,hard,slightly fossils,chalky in part,poor pinpoint vuggy porosity,very spotty live brown stain,good cut,poor show free oil

4224-32 LIMESTONE white,buff,hard,chalky,poor vis porosity,no shows with thin SHALE as above

4232-45 SHALE as above

4245-56 SANDSTONE pale yell,green,firm,very fine grained,caly filled,poor porosity,no shows with thin SHALE as above

E

4256-65 LIMESTONE white,firm,very chalky,slightly fossils,poor pinpoint vuggy porosity,very spotty live brown stain,fair cut,no free oil

4265-91 SHALE green,red,firm,chnky,argillaceous

F

4291-4300 LIMESTONE white,firm,chalky,slightly oolitic,poor porosity,no shows

MICHAEL #9-22 SAMPLE DESCRIPTIONS

4300-08 SHALE green,red,firm,waxy

4308-40 LIMESTONE buff,pale gray,very hard,dense,blocky,crprtoxln,no shows with interbedded SHALE as above

4340-60 SHALE as above some sandy

4360-4400 SHALE and LIMESTONE as above,no shows

RTD 4400'

LTD 3996'

Dec. 22. 2014 1:49PM WELL FILE No. 4839 P. 21 2115C

ALLIED OIL & GAS SERVICES, LLC 063807

Federal Tax I.D. # 20-8651475

11.31

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

SERVICE POINT: Oakley Ks

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
12/19/14	22	1	30			10:00 pm	10:30 pm

LEASE Michael WELL # 9-22 LOCATION McDonald N 77 Rd 1½ E N Thompson Rd E & N into
COUNTY Rawlins STATE Ks

OLD OR NEW (Circle one)

CONTRACTOR Brelco
OWNER 10
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 300
CASING SIZE 8 5/8 DEPTH 300
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 18.15

EQUIPMENT

PUMP TRUCK # 373-281 CEMENTER Alan Ryan
HELPER Kevin Ryan
BULK TRUCK # 818 DRIVER Trent (TWS)
BULK TRUCK # DRIVER

CEMENT

AMOUNT ORDERED 225 Com 3% CC 2% gel

		@		
COMMON	225 SK	@	17.90	4027.50
POZMIX		@		
GEL	423	@	.50	211.50
CHLORIDE	636	@	1.10	698.50
ASC		@		
		@		
Material Total		@		4,937.50
(1530.62/31%)		@		
		@		
		@		
		@		
HANDLING	243 236	@	2.48	603.53
MILEAGE	2.25 ton/mile		11.104 ton	2442.88

TOTAL

REMARKS:

Run Csg, Cir, Mix Cement, Displace Cement
Shut in
Cement Did Circulate

Thank You
Alan, Kevin, Trent

SERVICE

		@		
DEPTH OF JOB	300			
PUMP TRUCK CHARGE				1512.25
EXTRA FOOTAGE		@		
MILEAGE	50 miles	@	7.70	385.00
MANIFOLD	2.75	@	NC	
Lite/Check	N.C.	@	4.40	N.C.
		@		

(1532.53/31%) TOTAL 4,943.66

CHARGE TO: Brecker
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
	@		

TOTAL

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 9,881.16
DISCOUNT 3,063.15 (31%) IF PAID IN 30 DAYS
6,818.00 Net.

PRINTED NAME Fred R Grimm
SIGNATURE [signature]

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 12/15/14 District Oakley Ticket No 063897
Company Bruce Rig Arade 10
Lease Michael Well No. 9-22
County State
Location Field

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

Casing Depths: Top 26 Bottom 209

Drill Pipe: Size 4 1/2 Weight Collars
Open Hole: Size 12 1/4 T.D. 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 Class A 3%CC 2%gel
Excess
Amt. 225 Sks Yield 1.74 ft³/sk Density 15 PPG
TAIL: Pump Time hrs. Type
Excess
Amt. 1 Sks Yield ft³/sk Density PPG
WATER: Lead 6.5 gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 32-391
Bulk Equip. 818

Float Equip: Manufacturer
Shoe: Type Depth
Float: Type Depth
Centralizers: Quantity Plugs Top Btm.
Stage Collars
Special Equip.
Disp. Fluid Type H2O Amt. 12.15 Bbls. Weight 8.33 PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE
CEMENTER

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
						On location, SFTY mtg, Setup
						Rig up, Conduct
				32.0	3.0	Mix Cement
				18.15	5.0	Displace Cement
						Shut in
10:30 pm						Job Complete

TRIAL PRESSURES PSI PUMP PSI TO PSI BLEEDBACK BBLS THANK YOU

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita Ks, 67206

ATTN: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61022 **DST#: 1**

Test Start: 2014.12.27 @ 17:28:00

GENERAL INFORMATION:

Formation: **Deer Creek & Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:33:00
Time Test Ended: 03:47:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54

Interval: 3870.00 ft (KB) To 3975.00 ft (KB) (TVD)
Total Depth: 3975.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

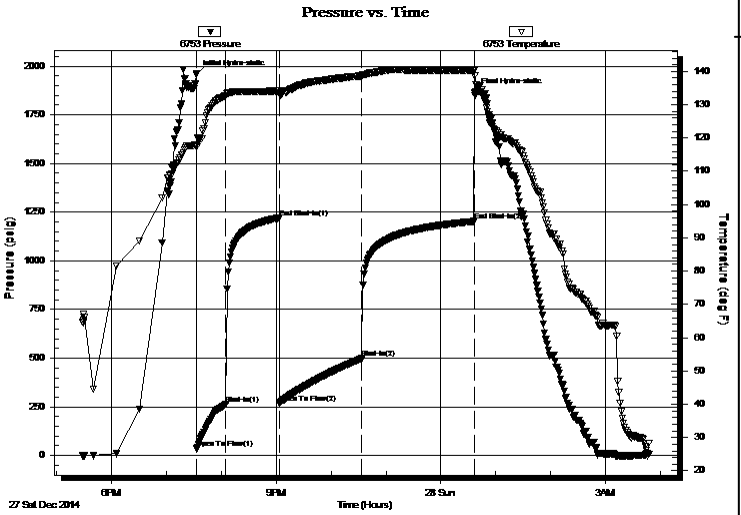
Reference Elevations: 3114.00 ft (KB)
3103.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6753 **Outside**

Press@RunDepth: 498.62 psig @ 3871.00 ft (KB)
Start Date: 2014.12.27 End Date: 2014.12.28
Start Time: 17:28:05 End Time: 03:47:45

Capacity: 8000.00 psig
Last Calib.: 2014.12.28
Time On Btm: 2014.12.27 @ 19:32:45
Time Off Btm: 2014.12.28 @ 00:36:45

TEST COMMENT: 30 - IF - Surface blow built to bottom of the bucket in 13 mins.
60 - ISI - No Return
90 - FF - Surface blow built to bottom of the bucket in 13 mins.
120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1955.72	117.80	Initial Hydro-static
1	34.83	117.45	Open To Flow (1)
32	262.93	132.67	Shut-In(1)
91	1220.59	134.10	End Shut-In(1)
91	268.95	133.61	Open To Flow (2)
181	498.62	138.72	Shut-In(2)
304	1202.59	140.14	End Shut-In(2)
304	1864.59	140.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	MW - 5M - 95W	4.60
189.00	MW - 25M - 75W	2.65
257.00	WM - 85M - 15W	3.61

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: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61022 **DST#: 1**

Test Start: 2014.12.27 @ 17:28:00

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:	62000 ppm
Viscosity:	44.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	MW - 5M - 95W	4.604
189.00	MW - 25M - 75W	2.651
257.00	WM - 85M - 15W	3.605

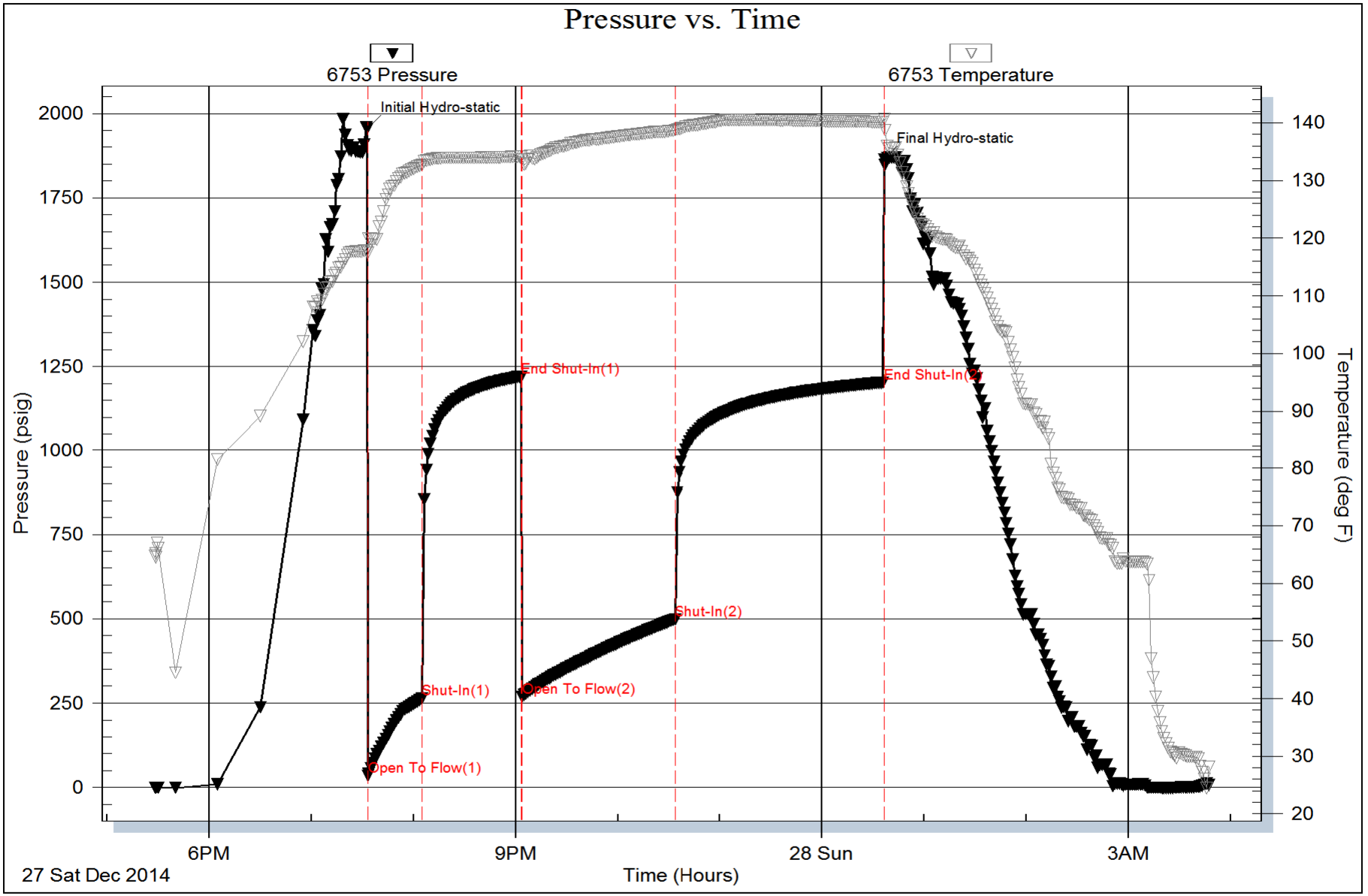
Total Length: 1076.00 ft Total Volume: 10.860 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6753 **Outside** Berexco LLC Michael #9-22 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61022 Printed: 2014.12.28 @ 06:45:40

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita Ks, 67206

ATTN: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61023 **DST#: 2**

Test Start: 2014.12.28 @ 18:33:00

GENERAL INFORMATION:

Formation: **Lans. - 'A'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:19:30
Time Test Ended: 06:01:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54

Interval: 3980.00 ft (KB) To 4080.00 ft (KB) (TVD)
Total Depth: 4080.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

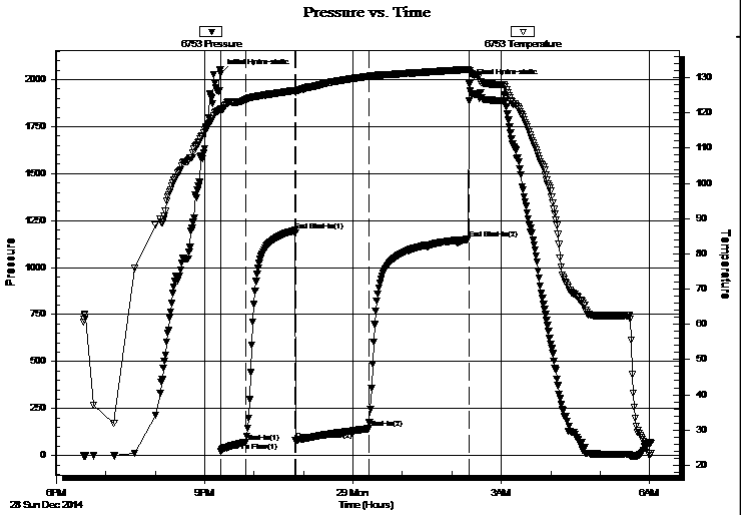
Reference Elevations: 3114.00 ft (KB)
3103.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6753 **Outside**

Press@RunDepth: 142.64 psig @ 3981.00 ft (KB)
Start Date: 2014.12.28 End Date: 2014.12.29
Start Time: 18:33:05 End Time: 06:01:45

Capacity: 8000.00 psig
Last Calib.: 2014.12.29
Time On Btm: 2014.12.28 @ 21:19:15
Time Off Btm: 2014.12.29 @ 02:21:15

TEST COMMENT: 30 - IF - Surface blow built to 8"
60 - ISI - No Return
90 - FF - Surface blow built to 4"
120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2032.63	121.27	Initial Hydro-static
1	23.10	120.57	Open To Flow (1)
31	71.82	123.77	Shut-In(1)
91	1197.06	126.35	End Shut-In(1)
91	79.45	125.88	Open To Flow (2)
180	142.64	130.36	Shut-In(2)
301	1150.91	132.36	End Shut-In(2)
302	1976.16	131.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	OCM - 95M - 5o	0.62
123.00	OCM - 90M - 10o	0.60
6.00	Free Oil - 100o	0.03

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: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61023 **DST#: 2**

Test Start: 2014.12.28 @ 18:33:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	26 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	69.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.00 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1400.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

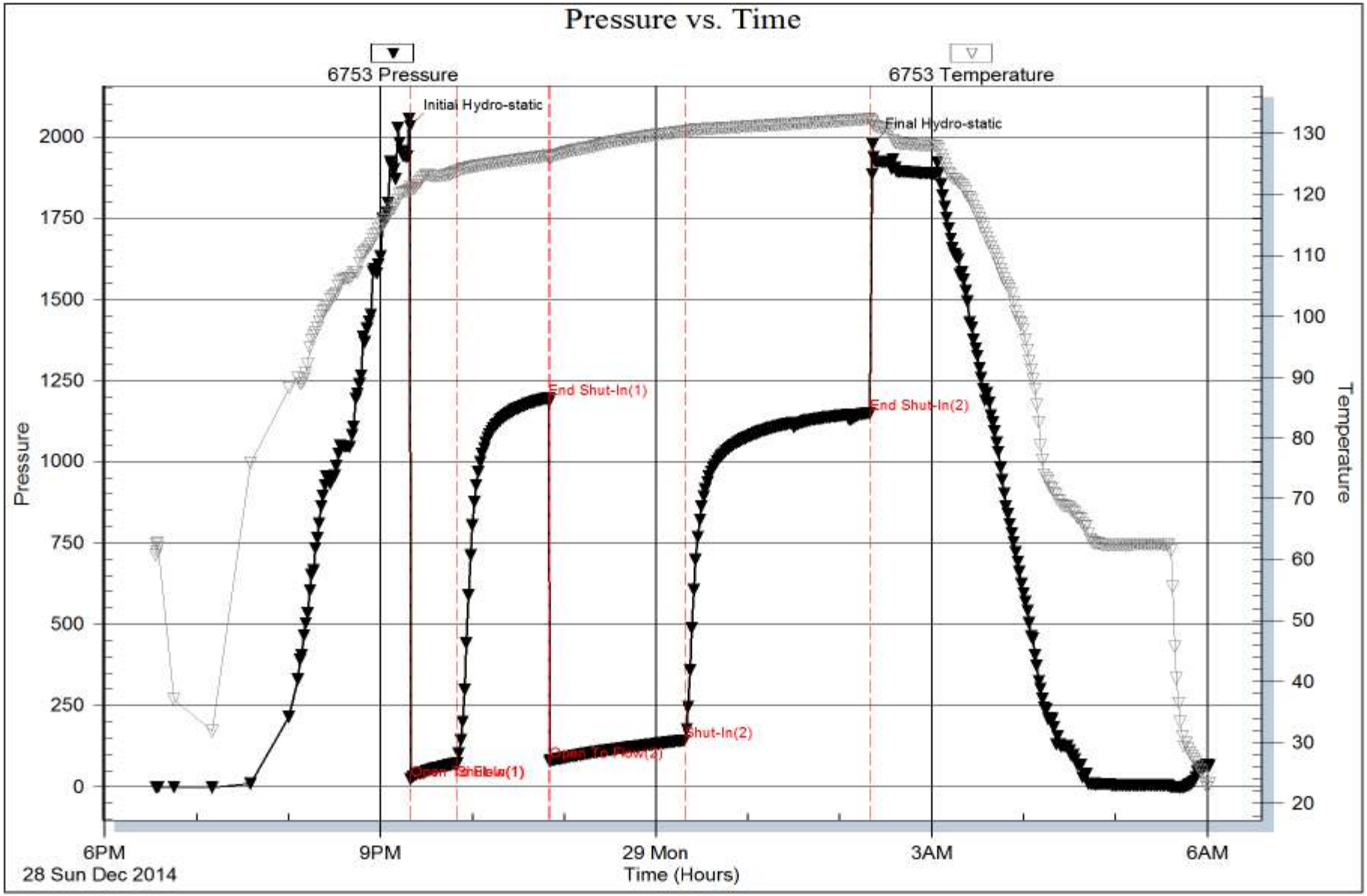
Recovery Table

Length ft	Description	Volume bbl
126.00	OCM - 95M - 5o	0.620
123.00	OCM - 90M - 10o	0.605
6.00	Free Oil - 100o	0.030

Total Length: 255.00 ft Total Volume: 1.255 bbl

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

Serial #: 6753 **Outside** Berexco LLC Michael #9-22 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 61023 Printed: 2014.12.29 @ 07:58:13

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita Ks, 67206

ATTN: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61024 **DST#: 3**

Test Start: 2014.12.29 @ 19:43:00

GENERAL INFORMATION:

Formation: **Lans. - 'B'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:55:15
Time Test Ended: 06:47:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54

Interval: 4060.00 ft (KB) To 4140.00 ft (KB) (TVD)
Total Depth: 4140.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

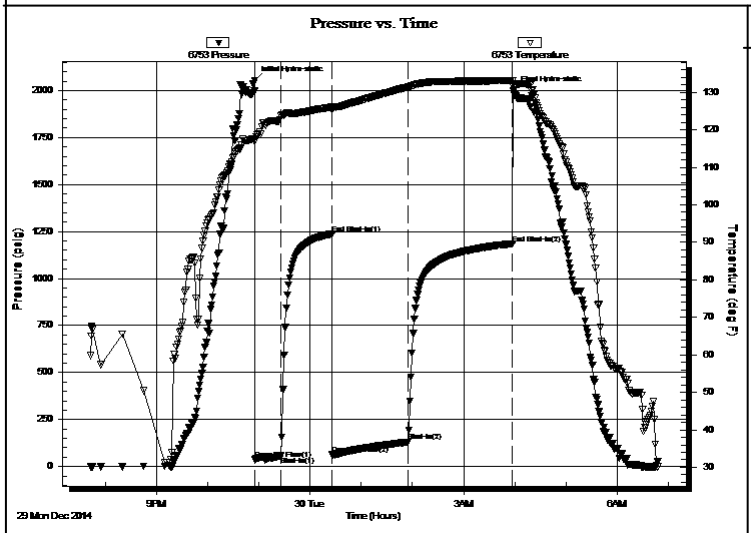
Reference Elevations: 3114.00 ft (KB)
3103.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6753 **Outside**

Press@RunDepth: 131.81 psig @ 4061.00 ft (KB)
Start Date: 2014.12.29 End Date: 2014.12.30
Start Time: 19:43:05 End Time: 06:47:45

Capacity: 8000.00 psig
Last Calib.: 2014.12.30
Time On Btm: 2014.12.29 @ 22:55:00
Time Off Btm: 2014.12.30 @ 03:58:30

TEST COMMENT: 30 - IF - Surface blow built to 4 1/4"
60 - ISI - No Return
90 - FF - Surface blow built to 3"
120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.80	117.55	Initial Hydro-static
1	38.74	116.80	Open To Flow (1)
32	57.03	123.89	Shut-In(1)
91	1237.56	126.05	End Shut-In(1)
92	63.12	125.40	Open To Flow (2)
181	131.81	131.42	Shut-In(2)
303	1182.69	133.17	End Shut-In(2)
304	1997.00	131.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OSWM - 50M - 50W - Oil Spots	0.61
124.00	OSWM - 70M - 30W - Oil Spots	0.61

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: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61024 **DST#: 3**

Test Start: 2014.12.29 @ 19:43:00

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:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	OSWM - 50M - 50W - Oil Spots	0.610
124.00	OSWM - 70M - 30W - Oil Spots	0.610

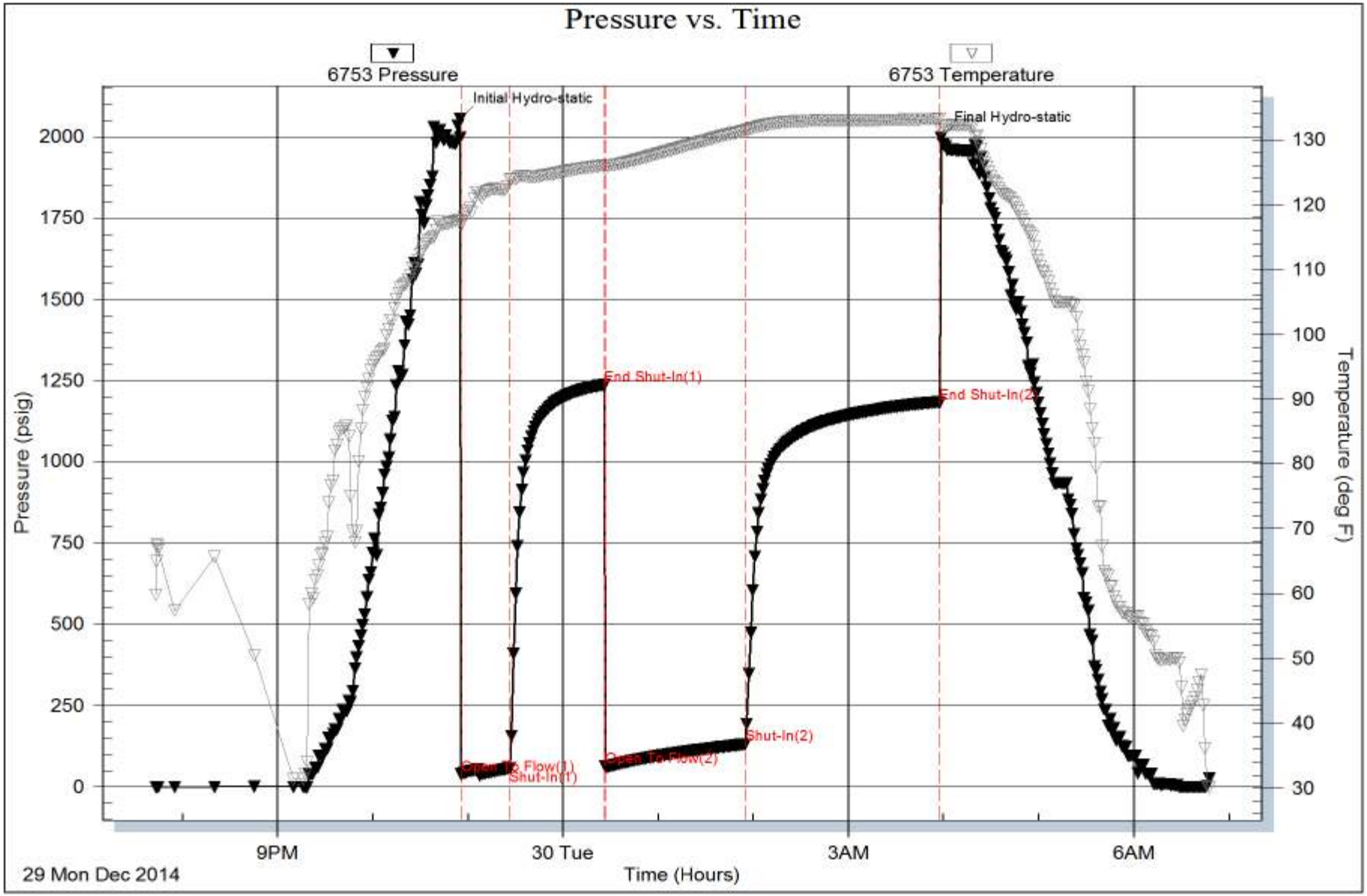
Total Length: 248.00 ft Total Volume: 1.220 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6753 **Outside** Berexco LLC Michael #9-22 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61024 Printed: 2014.12.30 @ 08:37:00

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita Ks, 67206

ATTN: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61025 **DST#: 4**

Test Start: 2014.12.31 @ 00:43:00

GENERAL INFORMATION:

Formation: **Lans. - 'C'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:41:15
Time Test Ended: 14:14:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54

Interval: 4120.00 ft (KB) To 4185.00 ft (KB) (TVD)
Total Depth: 4185.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

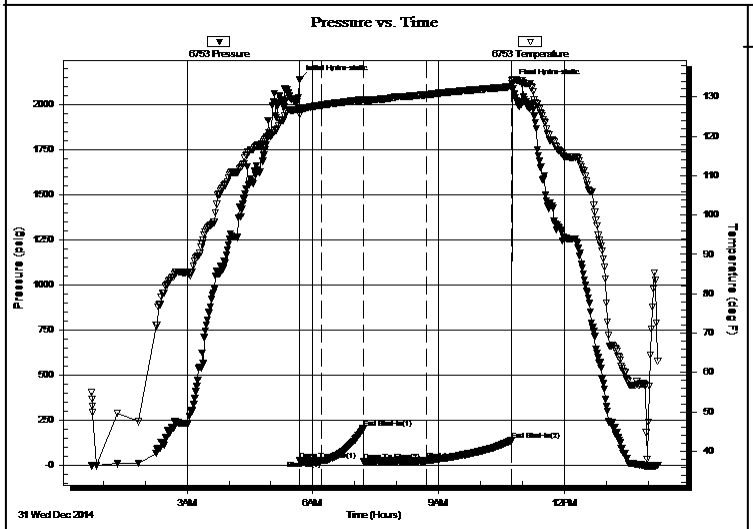
Reference Elevations: 3114.00 ft (KB)
3103.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6753 **Outside**

Press@RunDepth: 27.59 psig @ 4121.00 ft (KB)
Start Date: 2014.12.31 End Date: 2014.12.31
Start Time: 00:43:05 End Time: 14:14:45

Capacity: 8000.00 psig
Last Calib.: 2014.12.31
Time On Btm: 2014.12.31 @ 05:41:00
Time Off Btm: 2014.12.31 @ 10:45:15

TEST COMMENT: 30 - IF - Surface blow built up to 1"
60 - ISI - No Return
90 - FF - A faint Surface blow started in 30 mins. and stayed at a faint blow
120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.23	127.05	Initial Hydro-static
1	27.41	125.60	Open To Flow (1)
32	27.69	127.94	Shut-In(1)
91	204.50	129.28	End Shut-In(1)
92	22.46	129.22	Open To Flow (2)
181	27.59	130.55	Shut-In(2)
303	137.61	132.59	End Shut-In(2)
305	2117.42	134.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	OSM - 100M - Oil Spots	0.03

Gas Rates

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

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita Ks, 67206

ATTN: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61025 **DST#: 4**

Test Start: 2014.12.31 @ 00:43:00

GENERAL INFORMATION:

Formation: **Lans. - 'C'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:41:15
Time Test Ended: 14:14:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54

Interval: 4120.00 ft (KB) To 4185.00 ft (KB) (TVD)
Total Depth: 4185.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

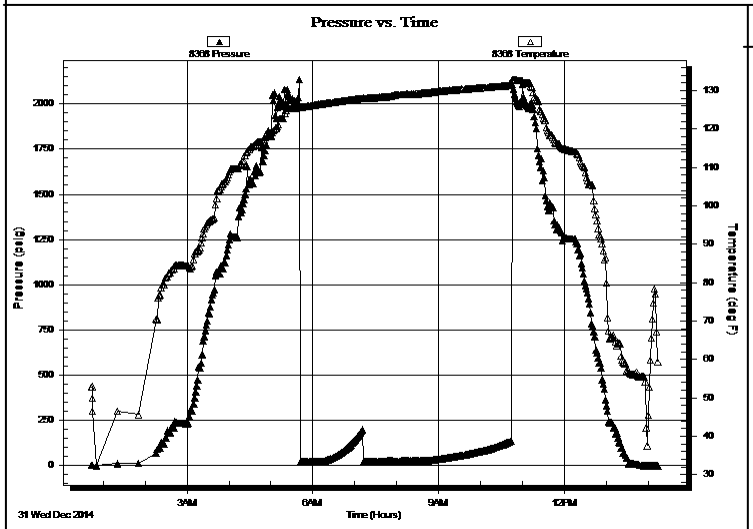
Reference Elevations: 3114.00 ft (KB)
3103.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8368

Press@RunDepth: psig @ ft (KB)
Start Date: 2014.12.31 End Date: 2014.12.31
Start Time: 00:43:05 End Time: 14:14:45

Capacity: 8000.00 psig
Last Calib.: 2014.12.31
Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built up to 1"
60 - ISI - No Return
90 - FF - A faint Surface blow started in 30 mins. and stayed at a faint blow
120 - FSI - No Return



PRESSURE SUMMARY

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

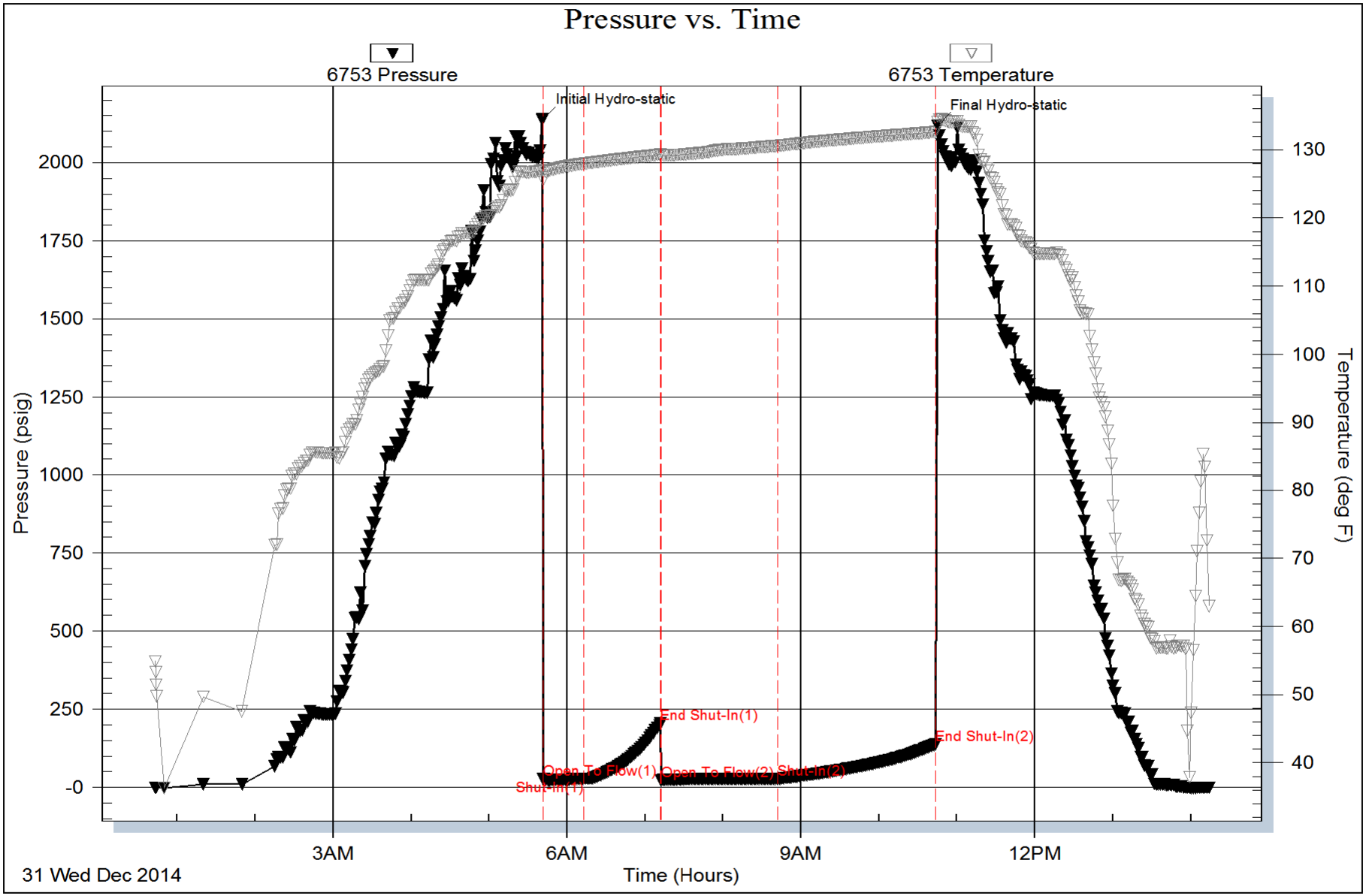
Recovery

Length (ft)	Description	Volume (bbl)
6.00	OSM - 100M - Oil Spots	0.03

Gas Rates

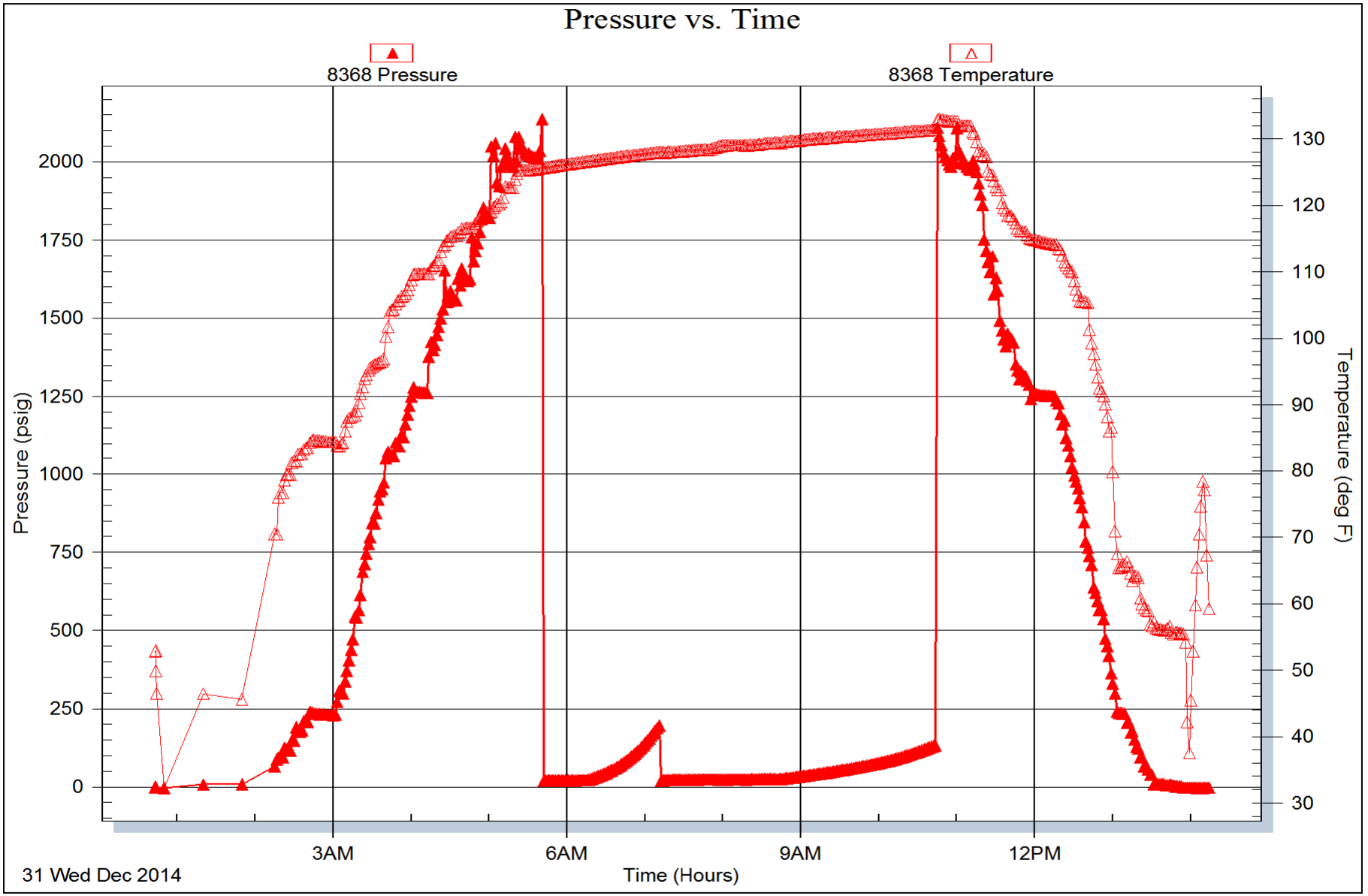
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 6753 **Outside** Berexco LLC Michael #9-22 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 61025 Printed: 2015.01.01 @ 01:25:08

Serial #: 8368 Berexco LLC Michael #9-22 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 61025 Printed: 2015.01.01 @ 01:25:08

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita Ks, 67206

ATTN: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61076 **DST#: 5**

Test Start: 2015.01.01 @ 07:32:00

GENERAL INFORMATION:

Formation:
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:18:15
Time Test Ended: 19:03:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54

Interval: 4182.00 ft (KB) To 4275.00 ft (KB) (TVD)
Total Depth: 4275.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

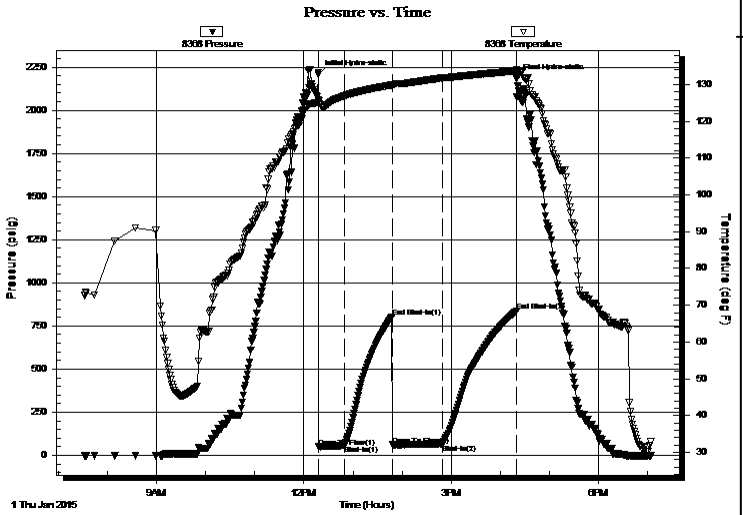
Reference Elevations: 3114.00 ft (KB)
3103.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8368 **Inside**

Press@RunDepth: 65.69 psig @ 4183.00 ft (KB)
Start Date: 2015.01.01 End Date: 2015.01.01
Start Time: 07:32:05 End Time: 19:03:45

Capacity: 8000.00 psig
Last Calib.: 2015.01.01
Time On Btm: 2015.01.01 @ 12:18:00
Time Off Btm: 2015.01.01 @ 16:20:15

TEST COMMENT: 30 - IF - Surface blow built to 1"
60 - ISI - No Return
60 - FF - No Surface blow
90 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.16	125.78	Initial Hydro-static
1	48.79	124.83	Open To Flow (1)
32	56.83	126.90	Shut-In(1)
90	802.90	129.91	End Shut-In(1)
91	60.81	129.70	Open To Flow (2)
151	65.69	131.82	Shut-In(2)
242	835.21	133.72	End Shut-In(2)
243	2182.82	133.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
73.00	OSM - 100M - Oil Spots	0.36

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: Bryan Bynog

22 - 1S - 36w

Michael #9-22

Job Ticket: 61076 **DST#: 5**

Test Start: 2015.01.01 @ 07:32:00

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:	69.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.00 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

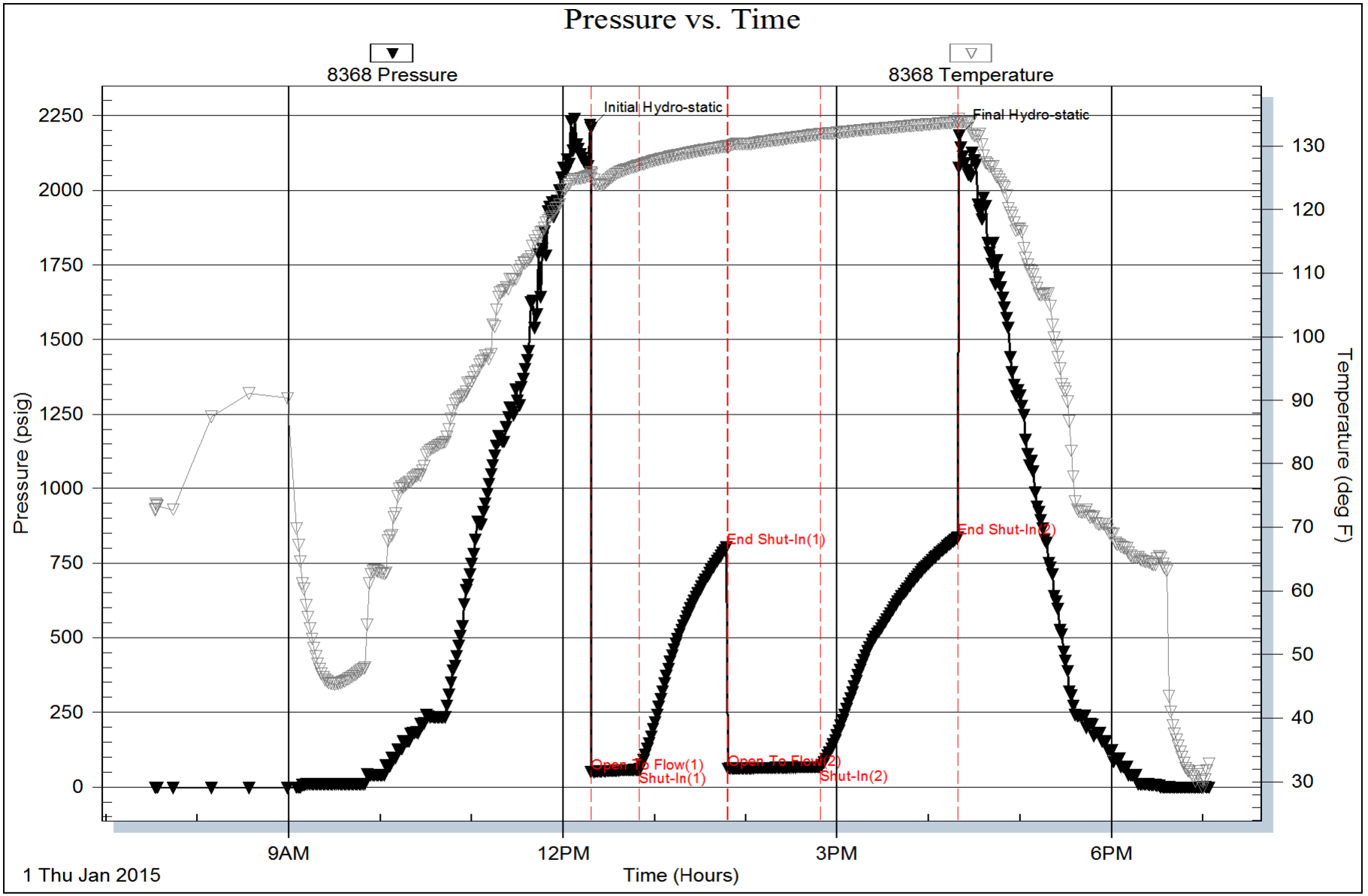
Recovery Table

Length ft	Description	Volume bbl
73.00	OSM - 100M - Oil Spots	0.359

Total Length: 73.00 ft Total Volume: 0.359 bbl

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

Serial #: 8368 **Inside** Berexco LLC Michael #9-22 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 61076 Printed: 2015.01.01 @ 23:03:48

WELL FIL

ALLIED OIL & GAS SERVICES, LLC 064634

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, KS

DATE 1-3-15	SEC. 24	TWP. 1	RANGE 34	CALLED OUT	ON LOCATION 11:00pm	JOB START 1:15am	JOB FINISH 11:00am
LEASE Michael	WELL # 9-22		LOCATION McDonald N to AA, 1½ E to Farmstead, N, E, N, into			COUNTY Rawlins	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Beredco 10
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 4466'
CASING SIZE 4½ DEPTH 4386'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 44'
CEMENT LEFT IN CSG. 44'
PERFS.
DISPLACEMENT 67.34 bbl

OWNER Same

EQUIPMENT

PUMP TRUCK #373/281 CEMENTER Kabre Eckart
HELPER Brandon Wilkinson
BULK TRUCK #891/310 DRIVER Juan Tamez (Tex)
BULK TRUCK #600 DRIVER Wayne Marsolle

CEMENT

AMOUNT ORDERED 350 sks Lite 3/4# flo-seal
200 sks Com 16% 3-04 2% gel
5# gilsonite

COMMON	200 sks	@	17.90	3580.00
POZMIX		@		
GEL	326#	@	.50	163.00
CHLORIDE		@		
ASC Lite	350 sks	@	19.89	6961.50
		@		
		@		
Flo-seal	263#	@	2.97	781.11
Salt	1020#	@	.68	693.60
Gilsonite	1000#	@	.98	980.00
Mileage Table		@		12,382.21
(5813.58 / 31%)		@		
HANDLING	648.28 sx	@	2.48	1607.73
MILEAGE	76.88 ton x 50 x 2.75			3911.13
			TOTAL	

REMARKS:

Pump ball through 400# Plug M.H. 15sks
Plug R.H. 30sks, Pump 300 sks Lite,
Mix 200 sks com, Displace with
water, Cement did not circulate
Land plug # Float held
Thank you

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE 2765.75
EXTRA FOOTAGE @
MILEAGE MIRU 50 @ 7.70 385.00
MANIFOLD Head @ 275.00 N.C.
MRD 50 @ 4.40 N.C.
@
(3620.57 / 31%) TOTAL 3150.75

CHARGE TO: Berexco
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

Industrial Rubber
AFU Float Shoe @ 219.00
Latchdown plug @ 155.00
(10) Centralizers @ 35.00 350.00
(20) Basic Scratchers @ 35.00 700.00
@
(1424.83 / 31%) TOTAL 1424.00

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 22193.82
DISCOUNT (3880.08 / 31%) IF PAID IN 30 DAYS
15,313.73 Net

PRINTED NAME
SIGNATURE

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 1-3-15 District Oakley, KS Ticket No. 64634
Company Berexco Rig Beredco 10
Lease Michael Well No. 9-22
County Rawlins State KS
Location 22-1-36 Field
Beardsley N to A 5 1/2 W, 1 E N into

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☐ Intermediate ☐ Production ☑ Liner ☐
Size 4 1/2 Type New Weight 11.6# Collar

Casing Depths: Top K.B Bottom 4396'

Drill Pipe: Size Weight Collars
Open Hole: Size 7 7/8 T.D. 4400 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

LEAD: Pump Time hrs. Type Lite 3/4#
Flo-Seal Excess
Amt. 350 Sks Yield 1.9 ft³/sk Density 12.2 PPG
TAIL: Pump Time hrs. Type Comm 10% salt
2 Bags 5# gilsonite Excess
Amt. 200 Sks Yield 1.49 ft³/sk Density 14.56 PPG
WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 373/281 - Brandon
Bulk Equip. 891/310 - Juan T.
600 - Wayne.

Float Equip: Manufacturer Industrial Rubber
Shoe: Type AFU Depth
Float: Type Latchdown plug Depth
Centralizers: Quantity 10 Plugs Top Btm.
Stage Collars
Special Equip. 20 Resin scratchers
Disp. Fluid Type Water Amt. 62.3 Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE
CEMENTER LaRue

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
10:30						Held Safety meeting
						Rig up thru a.
						Circ Hole.
						Plug M.H. 20 sks
						Plug R.H. 30 sks
				50		Start water spacer.
						Start cement 300 sks Lite
						Weigh cement 12.2 #.
						Start cement 200 sks Comm
						Weigh cement 14.5 #
						Stop cement. Release plug.
						Wash up pump & lines
	0			2000		Start water displacement
	400#			200		
	780#			100		
	1100#			100		
	1200#			7.3		
11:30	1500#					Stop water
						Land plug. Float held.
						Thank You
						Hold safety meeting

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