[redacted]

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1251073

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: William B. Bynog
Purchaser: N/A

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 #:

01/16/2015	01/25/2015	01/26/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-153-21089-00-00
Spot Description:
NE - SE - NW - SW Sec. 22 Twp. 1 S. R. 36 ☐ East ☑ West
1830 Feet from ☐ North / ☑ South Line of Section
1070 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 #: 10-22
Field Name: East Fork Field
Producing Formation: N/A
Elevation: Ground: 3109 Kelly Bushing: 3120
Total Vertical Depth: 4400 Plug Back Total Depth: 0
Amount of Surface Pipe Set and Cemented at: 297 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: 04/29/2015
☑ **Confidential Release Date:** 04/28/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 04/29/2015

[redacted]

1251073

Operator Name: BEREXCO LLC Lease Name: Michael Well #: 10-22

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	.251	8.625	20	297	common	225	2%gel, 3%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

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

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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

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

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 10-22
Doc ID	1251073

Tops

Name	Top	Datum
Anhydrite	3032	+88
Anhydrite (base)	3064	+57
Foraker	3626	-506
Topeka	3844	-724
Oread	3960	-840
Lansing A	4057	-937
Lansing B	4112	-992
Lansing C	4176	-1056
Lansing D	4218	-1098
Lansing E	4260	-1140
Lansing F	4298	-1178
RTD	4400	1280
LTD	4395	-1275

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 10-22
Doc ID	1251073

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	.251	8.625	20	297	common	225	2%gel, 3%CC

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 064660

Federal Tax I.D. # 20-8651475

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
1-16-15	22	1	36		11:00am	11:30p	12:30a

LEASE	WELL #	LOCATION	COUNTY	STATE
Richard	10-22	Beardsley Nto AA, 5½	Rawlins	KS

OLD OR NEW (Circle one) W, S into.

CONTRACTOR Berexco 10
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 300'
CASING SIZE 8 5/8 DEPTH 299.05
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 18.18

OWNER Same

EQUIPMENT

PUMP TRUCK # 422 CEMENTER LeRoy E Wolf
HELPER Wayne McCrary
BULK TRUCK # 315/257 DRIVER Paul Beaver
BULK TRUCK # DRIVER

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

COMMON	225 sks	@ 17.90	4027.50
POZMIX		@	
GEL	4 sx	@ 50	211.50
CHLORIDE	6 sx	@ 1.10	678.50
ASC		@	
Material Taken		@	6,194.45
	(2,769.50/45%)	@	
		@	
		@	
		@	
HANDLING	243.3 sx	@ 2.48	603.38
MILEAGE	1.11 tax 50 x	2.75	1527.63
		TOTAL	

REMARKS:
Mix 225 sks cement
Displace with water
Cement did circulate
15 sks to pit
Thank you

SERVICE

DEPTH OF JOB	299.05'		
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
MILEAGE	1.11 tax 50	@ 2.70	385.00
MANIFOLD	Swage	@ 77.00	IC
MILU	50	@ 4.90	IC
Waiting time	3 hrs	@ 440.00	1320.00
	(3406.71/45%)	TOTAL	3,348.36

CHARGE TO: Berexco
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 11,302.71
DISCOUNT 3,776.21 (45%) IF PAID IN 30 DAYS
6,326.49 Net

PRINTED NAME Fred R Gamm

SIGNATURE

ALLIED
OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 1-16-15 District Oakley, KS Ticket No. 64640
Company Barex co Rig Beredco 10
Lease Michael Well No. 10-22
County Rawlins State KS
Location 22-1-36w Field
Beardsley, W to AA 5Y2 W, 5 into.

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☒ Intermediate ☐ Production ☐ Liner ☐
Size 8 5/8 Type New Weight 23# Collar

Casing Depths: Top KB Bottom 299.03

Drill Pipe: Size Weight Collars
Open Hole: Size 12 1/4 T.D. 300 ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0636 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 Comm 3% CC
2% gel Excess
Amt. 225 Sks Yield 1.34 ft³/sk Density 15.02 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 422 - Wayne
Bulk Equip. 818/287 - Paul

Float Equip: Manufacturer
Shoe: Type Depth
Float: Type Depth
Centralizers: Quantity Plugs Top Btm.
Stage Collars
Special Equip.
Disp. Fluid Type Water Amt. 15.18 Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE
CEMENTER Lafone

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
						Held Safety meeting
11:30						Start water
						Start Cement 225 sks
						Weigh Cement 15 #
						Stop Cement
				3.0		Wash up pump & lines
				15.18		Displace with water.
12:00						Cement did circulate.
						15 sks to pit
	Thank You					
						Held Safety meeting

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

BEREXCO, LLC.
MICHAEL #10-22
NESENWSW 22 1S-36W
RAWLINS COUNTY, KANSAS

GEOLOGIST
WILLIAM B. BYNOG

RESUME

OPERATOR:	BEREXCO, LLC.
WELL NAME & NUMBER:	MICHAEL #10-22
LOCATION:	NESENWSW 22-1S-36W
COUNTY:	RAWLINS
STATE:	KANSAS
SPUD DATE: 1-15-2015	COMPLETION DATE: 1-25-2015
ELEVATIONS:	GL: 3109 KB: 3120
CONTRACTOR:	BEREDCO RIG 10
LOGS: LOG TECH	TYPES: RAG, MICROLOG
WELLSITE ENGINEER:	NONE
MUD COMPANY:	MORGAN MUD
MUD TYPE & ENGINEER:	FRESH CHEMICAL
GEOLOGIST:	WILLIAM B.BYNOG
HOLE SIZE:	7 7/8
MUD LOGGING BY:	NONE
DRILL STEM TEST COMPANY:	TRILOBITE
DRILL STEM TEST:	DST # 1 3990-4100, DST#2 4075-4180, DST#3 4134-4200, DST#4 4190-4300
WELL STATUS:	P & A

DISCUSSION

Michael #10-22 1S-36W was drilled a total depth of 4400 feet testing the Lansing Kansas City in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control.

Structurally, Michael #10-22 came in 6 feet high to the prognosis and low to productive wells in the area.

As a result of running low there were poor sample shows of dead oil stain and poor porosity development in Foraker, Topeka and Oread. The Lansing A zone was the first quality show and was tested on drill stem test #1 recovering only 5 feet of mud with depleted pressures. The B zone was associated with a good drilling break and good sample shows. Drill stem test # 2 on the B zone recovered 188 feet of total fluid, 283 feet of oil cut mud (20% oil), 441 feet of oil cut mud (10% oil) and 464 feet of mud cut water. The C zone also had a good drilling break with good oil shows. Drill stem test #3 only recovered 5 feet of mud cut oil (55% oil). The D and E had poor shows and were tested on drill stem test #4 recovering 836 feet of water with some oil spots.

Logs agreed with sample evaluation recording fair porosity development but low resistive porous zones indicating water or depleted reservoirs.

A decision was made to plug and abandon due to the lack of favorable drill stem test recoveries.

MICHAEL #10-22 SAMPLE DESCRIPTIONS

BEREDCO DRILLING RIG 10 HOLE SIZE 7 7/8

3600-30 SHALE red,firm,very argillaceous,silty in part

FORAKER

3630-44 LIMESTONE white,firm,chalky,fossils,poor vis porosity,rare black dead stain,no free oil

3644-68 LIMESTONE tan,very hard,dense,slightly fossils,sandy in part,no shows with thin SHALE gray,gray green,firm,fissile

3668-80 LIMESTONE buff,firm,very sandy,chalky in part,poor vis porosity,no shows

3680-3710 SHALE gray green,red,,firm,sandy in part,with thin LIMESTONE as above

3710-24 LIMESTONE buff,very hard,dense,blocky,crptoxln

3724-3800 SHALE red,firm,silty in part with thin LIMESTONE as above very dense,no shows

3800-30 LIMESTONE buff,pale yell,hard,slightly fossils,slightly chalky in part,few pieces with poor vis pinpoint porosity,very spotty black dead stain,no free oil

3830-48 SHALE red,firm,argillaceous

TOPEKA

MICHAEL #10-22 SAMPLE DESCRIPTIONS

3848-80 LIMESTONE buff,pale yell,hard,chalky in part,microcrystalline,poor porosity,no shows

3880-88 SHALE as above

3888-3906 SANDSTONE white,friable,very fine grained,wsrtd,chalky cement,fair porosity,no shows

3906-62 SHALE red,maroon,green,firm,very silty with thin LIMESTONE buff,very hard,dense,no shows

OREAD

3962-68 LIMESTONE buff,hard,blocky,sbchky in part,poor porosity,no shows

3968-78 LIMESTONE white,firm,very chalky,slightly oolitic,sandy in part,poor vis porosity,trace rare black dead stain,no free oil

3978-4016 LIMESTONE buff,pale gray,very hard,dense,crptoxln

4016-44 SHALE dark gray black,black,slightly hard,fissile,slightly carbonaceous with thin LIMESTONE tan,very hard,very dense

4044-64 SHALE red,very soft,very argillaceous

LANSING A

4064-72 LIMESTONE,white,firm,chalky in part,fossils,poor to fair intergranular porosity,spotty live brown stain,fair strmg cut,no show free oil

4072-82 LIMESTONE buff,very hard,very dense,crptoxln texture,no shows with thin SHALE as above

4082-90 SANDSTONE white,friable,very fine grained,chalk cement,poor vis porosity,very spotty live brown stain,slightly fair cut,trace free oil

4090-4122 SHALE red,very soft,very argillaceous

B

4122-32 GRAINSTONE white,firm,oolitic,chalky,fair intergranular porosity,spotty thick live stain,slightly gd milky cut,no free oil

4132-40 LIMESTONE buff,pale gray,hard,sbchky in part,dense,poor vis porosity

4240-60 SHALE red,green,firm,waxy in part with thin LIMESTONE buff,hard,dense,no shows

4160-80 SHALE red,firm,chalky,argillaceous

C

4180-86 GRAINSTONE white,firm,oolitic,chalky in part,poor some fair intergranular porosity,spotty live brown stain,good cut,fair show free oil

4186-96 LIMESTONE buff,hard,blocky,dense,crptoxln,no shows

4196-4228 SHALE pale green,firm,argillaceous,waxy in part

D

4228-34 LIMESTONE white,slightly hard,fossils,chalky in part,poor vis porosity,no shows

4234-44 LIMESTONE buff,very hard,dense,blocky,crptoxln,no shows with thin SHALE as above

4244-66 SHALE red,firm,chalky,argillaceous

E

4266-74 LIMESTONE white,firm,chalky,slightly fossils,poor microcrystalline porosity,very spotty live brown stain,good cut,fair show free oil

4274-82 LIMESTONE white,firm,very chalky,poor vis porosity,no shows

4282-4306 SHALE red,firm,very silty in part

F

4306-36 LIMESTONE buff, hard,blocky,dense,chalky in part,poor porosity,no shows with thin SHALE as above

4336-4400 SHALE red,green,firm,chalky,silty in part with thin LIMESTONE as above

RTD 4400'

LTD 4395'

DRILL STEM TEST REPORT

Berexco LLC.

2020 Bramblew ood
Wichita, KS, 67206

ATTN: Bryan Bynog

22-1S-36W

Michael # 10-22

Job Ticket: 62144 **DST#: 1**

Test Start: 2015.01.20 @ 20:57:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:05:15
Time Test Ended: 06:35:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Donovan Baumann
Unit No: 54

Interval: 3990.00 ft (KB) To 4100.00 ft (KB) (TVD)
Total Depth: 4100.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

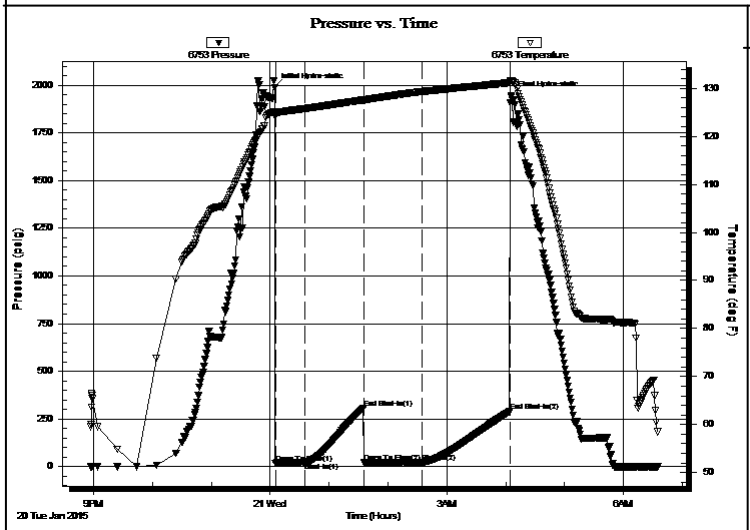
Reference Elevations: 3120.00 ft (KB)
3109.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6753 **Outside**

Press@RunDepth: 23.30 psig @ 3991.00 ft (KB)
Start Date: 2015.01.20 End Date: 2015.01.21
Start Time: 20:57:05 End Time: 06:35:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.21
Time On Btm: 2015.01.21 @ 00:05:00
Time Off Btm: 2015.01.21 @ 04:05:30

TEST COMMENT: 30 - IF - Weak surface blow built to 1/2 in. in 5 min. & stayed (In Diesel)
60 - ISI - No return
60 - FF - Weak surface blow started 10 min. in and died in 50 min.
90 - FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.63	125.04	Initial Hydro-static
1	18.64	124.31	Open To Flow (1)
30	21.17	125.76	Shut-In(1)
90	305.87	127.58	End Shut-In(1)
91	21.78	127.48	Open To Flow (2)
150	23.30	129.33	Shut-In(2)
239	288.27	131.16	End Shut-In(2)
241	1944.99	131.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

2020 Bramblew ood
Wichita, KS, 67206

ATTN: Bryan Bynog

22-1S-36W

Michael # 10-22

Job Ticket: 62144 **DST#: 1**

Test Start: 2015.01.20 @ 20:57:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

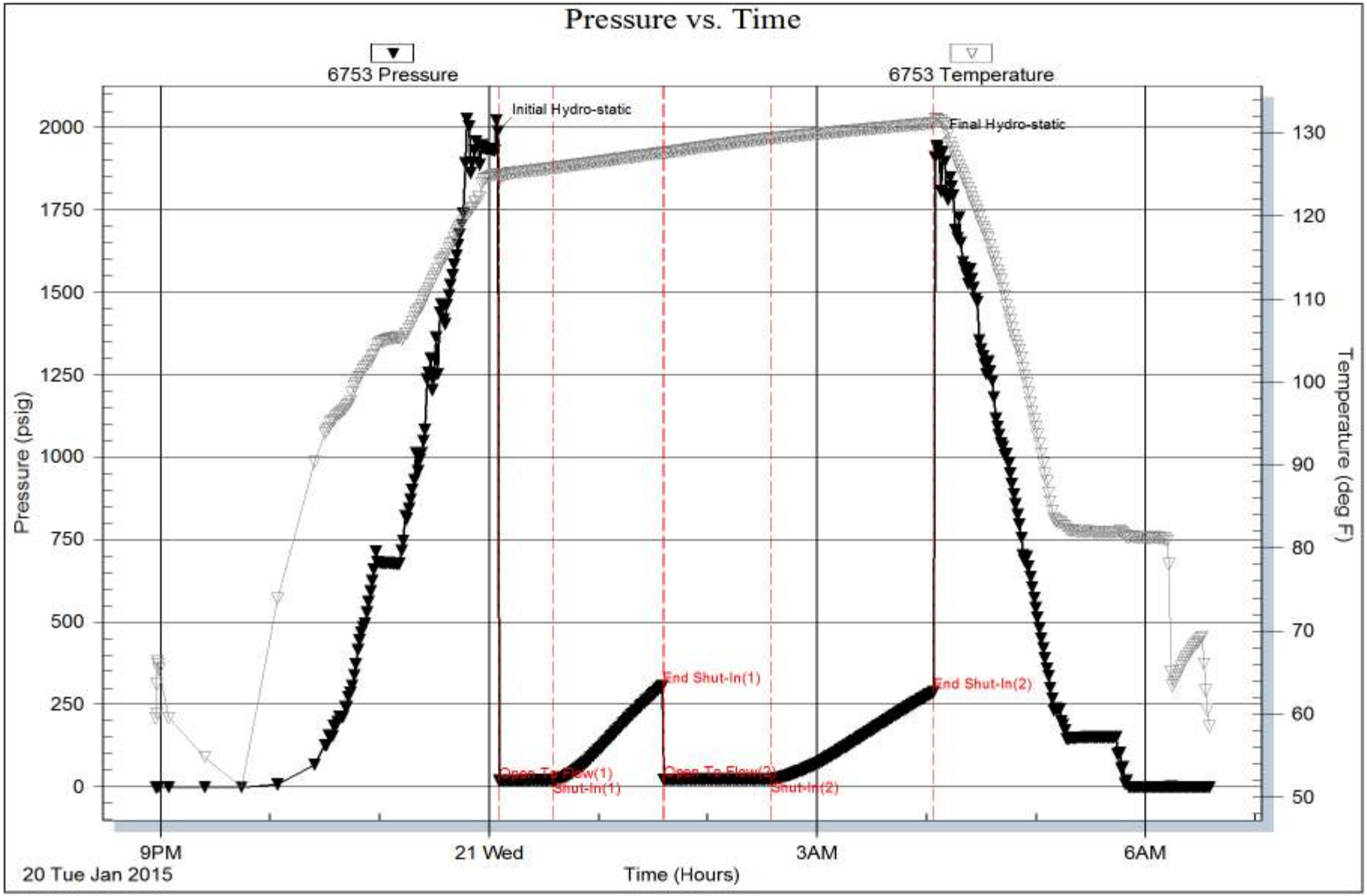
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Serial #: 6753 **Outside** Berexco LLC. Michael # 10-22 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62144 Printed: 2015.01.21 @ 08:21:20

DRILL STEM TEST REPORT

Berexco LLC.

2020 N Bramblew ood
Wichita, KS, 67206

ATTN: Bryan Bynog

22-1S-36W

Michael # 10-22

Job Ticket: 62145 **DST#: 2**

Test Start: 2015.01.21 @ 18:32:00

GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:58:45
Time Test Ended: 05:49:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Donovan Baumann
Unit No: 54

Interval: 4075.00 ft (KB) To 4160.00 ft (KB) (TVD)
Total Depth: 4160.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

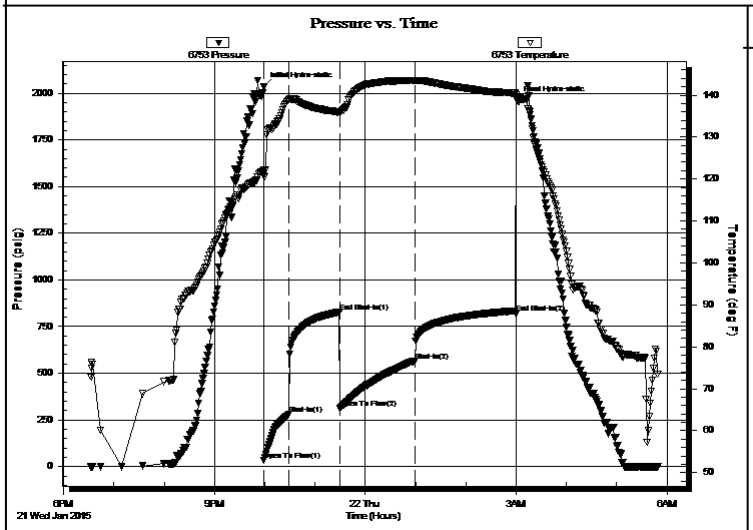
Reference Elevations: 3120.00 ft (KB)
3109.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6753 **Outside**

Press@RunDepth: 567.69 psig @ 4076.00 ft (KB)
Start Date: 2015.01.21 End Date: 2015.01.22
Start Time: 18:32:05 End Time: 05:49:00

Capacity: 8000.00 psig
Last Calib.: 2015.01.22
Time On Btm: 2015.01.21 @ 21:58:30
Time Off Btm: 2015.01.22 @ 03:01:15

TEST COMMENT: 30 - IF - Strong surface blow built to BOB in 5 min. (In Diesel)
60 - ISI - No return
90 - FF - Weak surface blow built to BOB in 6 min.
120 - FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2033.12	122.06	Initial Hydro-static
1	34.38	120.75	Open To Flow (1)
31	282.15	139.02	Shut-In(1)
91	828.47	136.03	End Shut-In(1)
91	311.23	135.80	Open To Flow (2)
181	567.69	143.42	Shut-In(2)
301	820.86	140.46	End Shut-In(2)
303	1961.21	139.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
464.00	MCW - 10M - 90W	2.28
441.00	OCM - 10o - 90M	6.18
283.00	OCM - 20o - 80M	3.97

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 # 10-22

Job Ticket: 62145 **DST#: 2**

Test Start: 2015.01.21 @ 18:32:00

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:	27000 ppm
Viscosity:	72.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 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
464.00	MCW - 10M - 90W	2.282
441.00	OCM - 10o - 90M	6.179
283.00	OCM - 20o - 80M	3.970

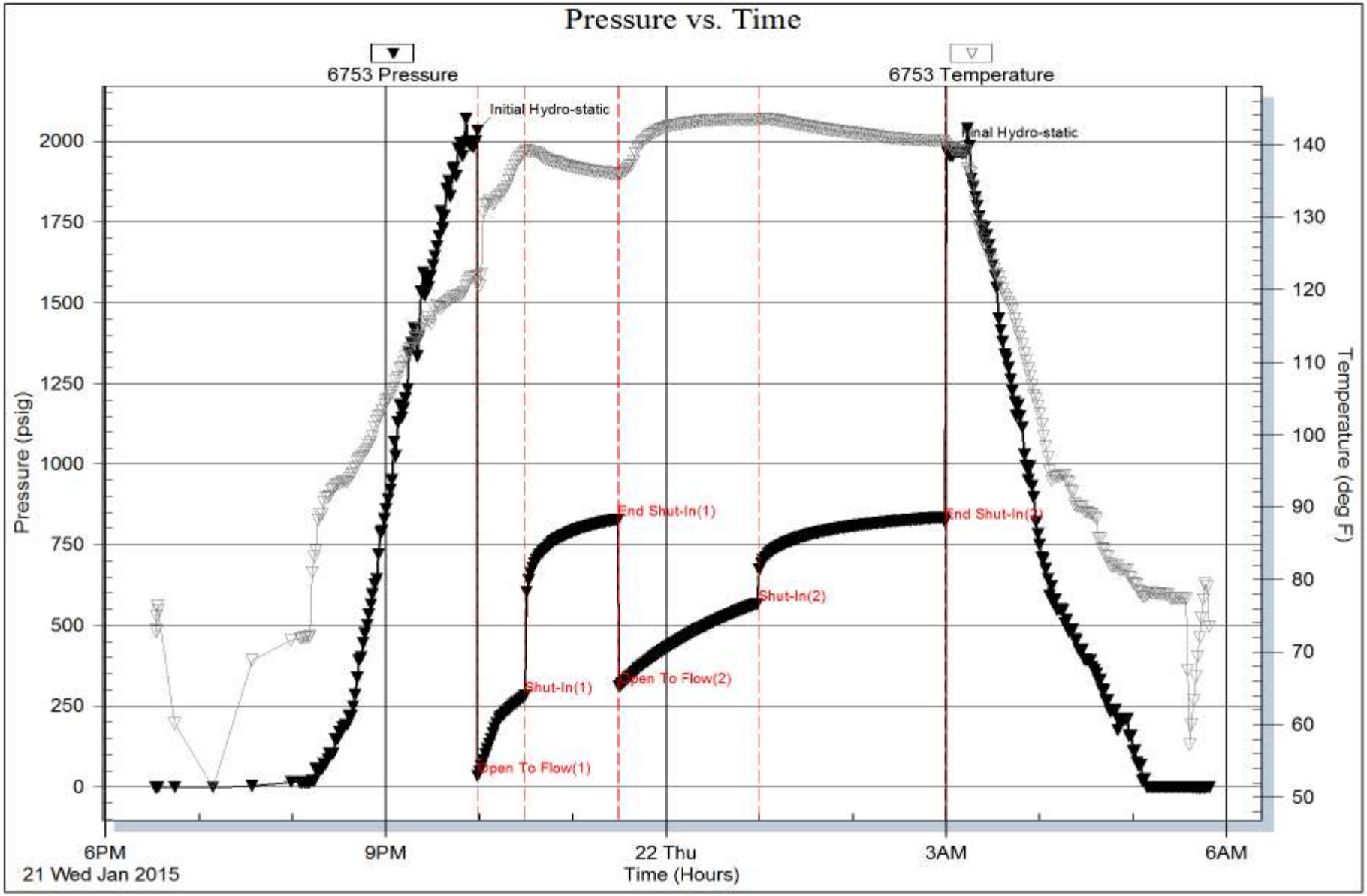
Total Length: 1188.00 ft Total Volume: 12.431 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API RW - .3 @ 61 DEG.

Serial #: 6753 **Outside** Berexco LLC. Michael # 10-22 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62145 Printed: 2015.01.22 @ 08:32:33

DRILL STEM TEST REPORT

Berexco LLC.

2020 N Bramblew ood
Wichita, KS, 67206

ATTN: Bryan Bynog

22-1S-36W

Michael # 10-22

Job Ticket: 62146 **DST#: 3**

Test Start: 2015.01.22 @ 18:06:00

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:02:15
Time Test Ended: 03:05:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Donovan Baumann
Unit No: 54

Interval: 4134.00 ft (KB) To 4200.00 ft (KB) (TVD)
Total Depth: 4200.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

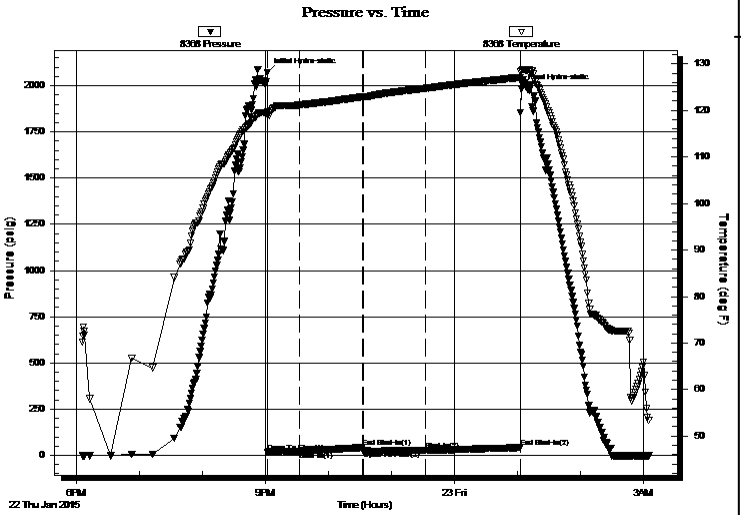
Reference Elevations: 3120.00 ft (KB)
3109.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8368 **Inside**

Press@RunDepth: 26.17 psig @ 4135.00 ft (KB)
Start Date: 2015.01.22 End Date: 2015.01.23
Start Time: 18:06:05 End Time: 03:05:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.23
Time On Btm: 2015.01.22 @ 21:02:00
Time Off Btm: 2015.01.23 @ 01:03:45

TEST COMMENT: 30 - IF - Weak surface blow built to 1 1/2 in. in 30 min. (In Diesel)
60 - ISI - No return
60 - FF - Weak surface blow died in 10 min.
90 - FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.31	119.73	Initial Hydro-static
1	16.90	119.11	Open To Flow (1)
30	22.33	121.16	Shut-In(1)
91	42.26	122.94	End Shut-In(1)
91	24.45	122.96	Open To Flow (2)
150	26.17	124.74	Shut-In(2)
241	41.89	127.10	End Shut-In(2)
242	1981.39	128.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MCO - 45M - 55o	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

ATTN: Bryan Bynog

22-1S-36W

Michael # 10-22

Job Ticket: 62146 **DST#: 3**

Test Start: 2015.01.22 @ 18:06:00

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:	6.00 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
5.00	MCO - 45M - 55o	0.025

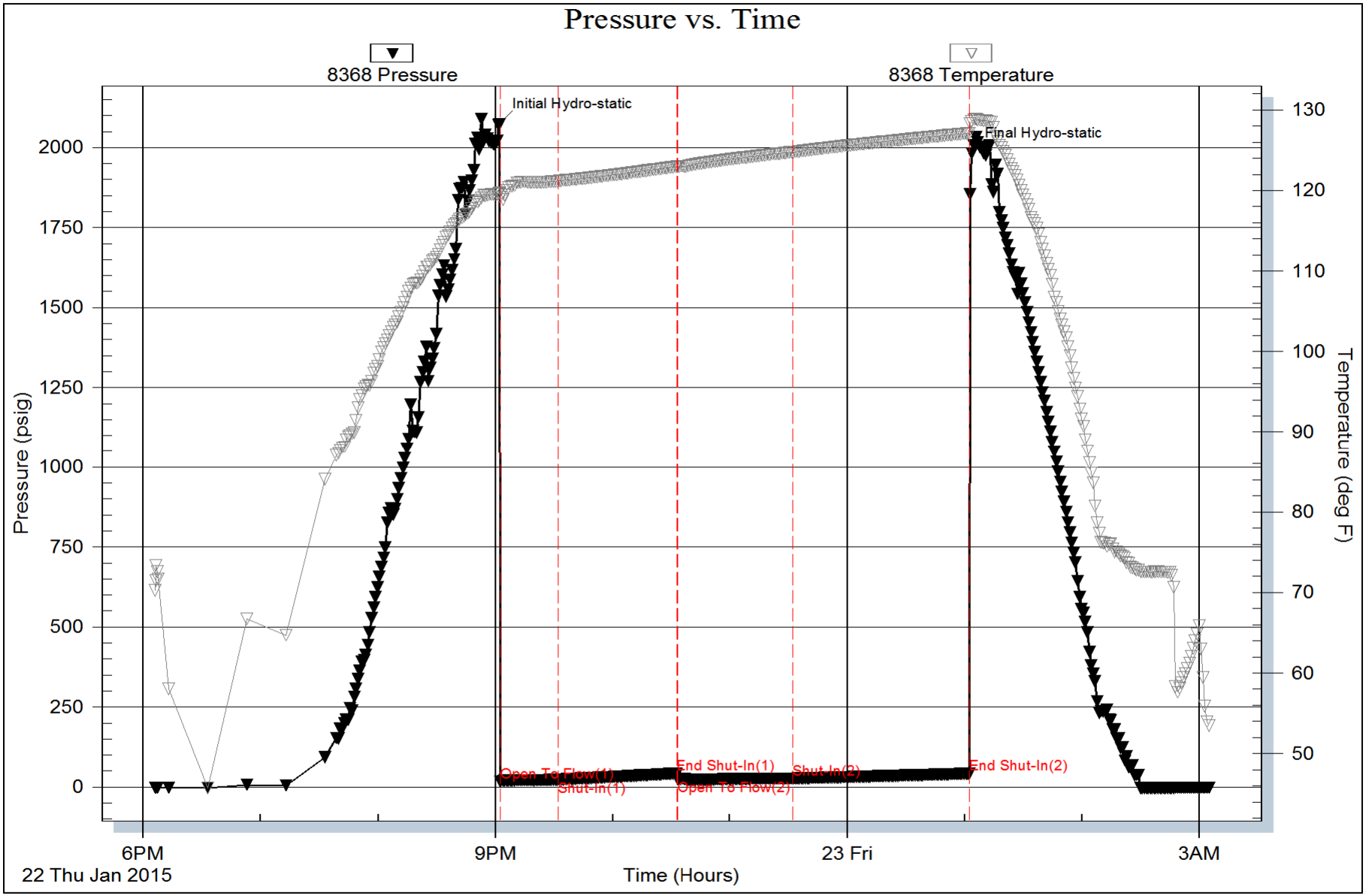
Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8368 **Inside** Berexco LLC. Michael # 10-22 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 62146 Printed: 2015.01.23 @ 07:07:02

DRILL STEM TEST REPORT

Berexco LLC.

2020 N Bramblew ood
Wichita, KS, 67206

ATTN: Bryan Bynog

22-1S-36W

Michael # 10-22

Job Ticket: 62147 **DST#: 4**

Test Start: 2015.01.23 @ 15:13:00

GENERAL INFORMATION:

Formation: **LKC "D&E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:47:00
Time Test Ended: 02:05:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Donovan Baumann
Unit No: 54

Interval: 4190.00 ft (KB) To 4300.00 ft (KB) (TVD)
Total Depth: 4300.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

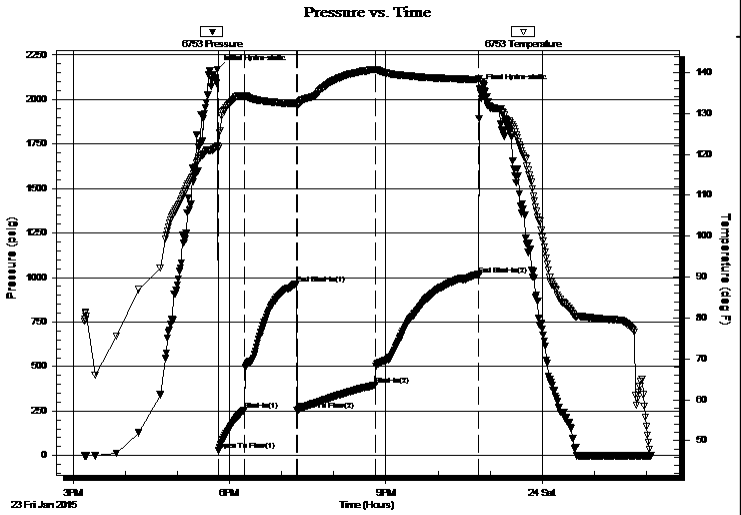
Reference Elevations: 3120.00 ft (KB)
3109.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6753 **Outside**

Press@RunDepth: 396.18 psig @ 4191.00 ft (KB)
Start Date: 2015.01.23 End Date: 2015.01.24
Start Time: 15:13:05 End Time: 02:05:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.24
Time On Btm: 2015.01.23 @ 17:46:30
Time Off Btm: 2015.01.23 @ 22:48:00

TEST COMMENT: 30 - IF - Strong surface blow built to BOB in 7 min. (In Diesel)
60 - ISI - No return
90 - FF - Weak surface blow started 3 min. in and built to BOB in 17 min.
120 - FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.05	122.05	Initial Hydro-static
1	26.96	121.44	Open To Flow (1)
31	254.68	134.27	Shut-In(1)
91	964.78	132.46	End Shut-In(1)
92	254.29	132.22	Open To Flow (2)
182	396.18	140.72	Shut-In(2)
301	1013.52	138.27	End Shut-In(2)
302	2058.88	137.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
406.00	MCW - 15M - 85W	2.00
430.00	OSM - 100M - Oil spots	5.50

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 # 10-22

Job Ticket: 62147 **DST#: 4**

Test Start: 2015.01.23 @ 15:13:00

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:	77.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1100.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
406.00	MCW - 15M - 85W	1.997
430.00	OSM - 100M - Oil spots	5.497

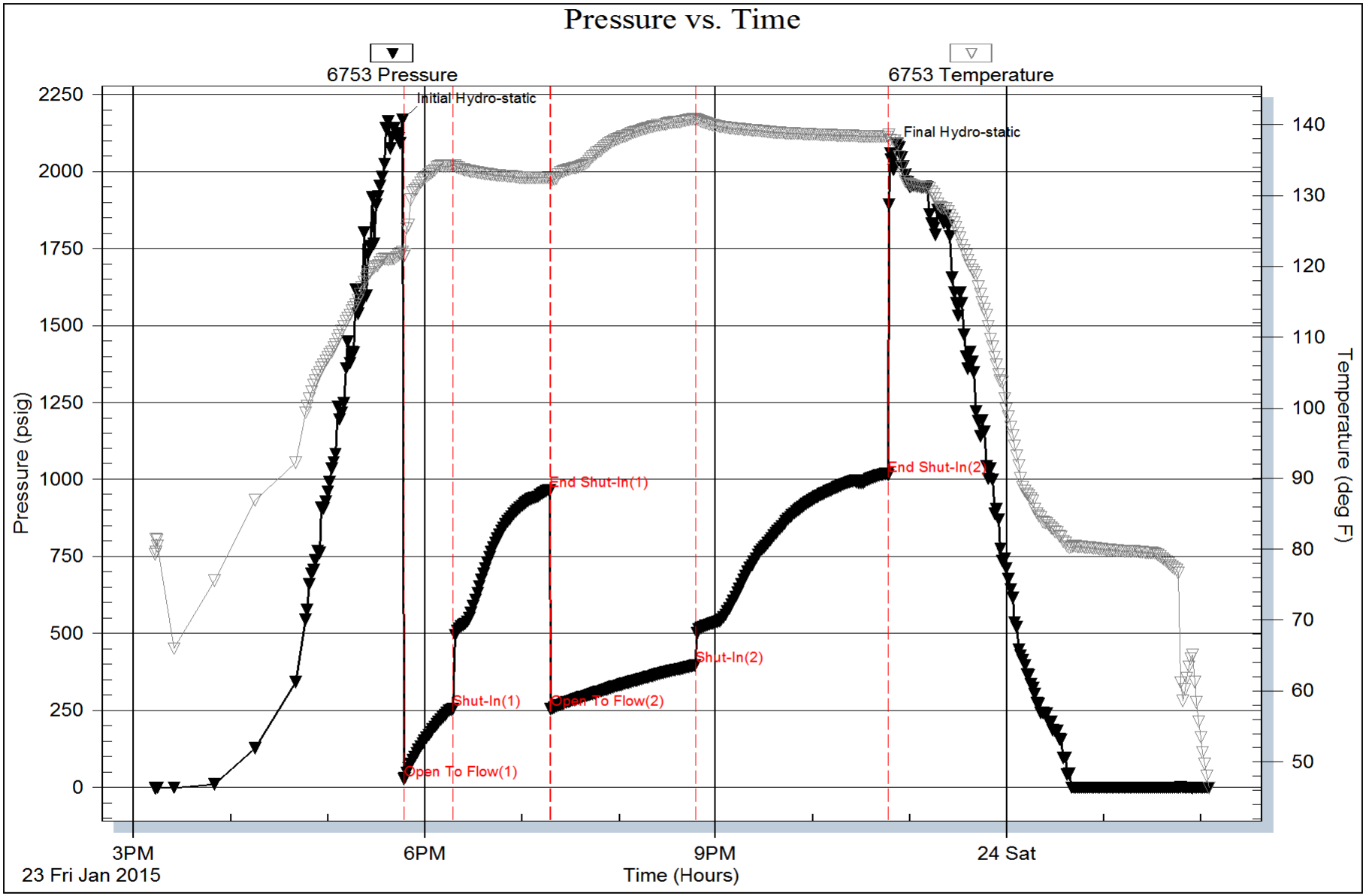
Total Length: 836.00 ft Total Volume: 7.494 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6753 **Outside** Berexco LLC. Michael # 10-22 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 62147 Printed: 2015.01.24 @ 07:01:30

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 064874

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley

DATE 1-25-15	SEC. 22	TWP. 1	RANGE 3E	CALLED OUT	ON LOCATION 5:30PM	JOB START 9:00AM	JOB FINISH 10:00AM
LEASE Michael	WELL # 10-22		LOCATION Beardsley N TO AG			COUNTY Rawlins	STATE KS
OLD OR (NEW) (Circle one)			5 1/2 W 3 in TO				

CONTRACTOR Beredco 10
TYPE OF JOB PTA
HOLE SIZE 7 7/8 T.D. 4400'
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH 3060
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER Same

CEMENT
AMOUNT ORDERED 255 sks 60/40 4% gel 1/4 Flo-seal

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Forslund # 431
HELPER Darren Racette.
BULK TRUCK # 391 DRIVER Wayne Messalle.
BULK TRUCK # DRIVER

REMARKS:

50 sks @ 3060'
100 sks @ 2280'
50 sks @ 350'
10 sks @ 40'
15 sks mouse hole
30 sks Rat hole.

Thank you

CHARGE TO: Beredco
STREET
CITY STATE ZIP

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
60/40 4% gel 255 sks	@	18.92	4824.60
	@		
	@		
Flo-seal 63.75#	@	2.97	189.33
	@		
Material Total (2005.57/40%)	@		3013.95
	@		
HANDLING 233.87 cu/ft	@	2.48	579.89
MILEAGE 2.35 ton/mile 1.43 ton			1574.62
TOTAL			

SERVICE

DEPTH OF JOB 3060'			
PUMP TRUCK CHARGE			2600.42
EXTRA FOOTAGE	@		
MILEAGE 50 miles	@	7.28	385.00
MANIFOLD	@		
Light vehicle	@	4.46	N/C
	@		
(2094.51/40%) TOTAL			5,236.28

PLUG & FLOAT EQUIPMENT

8 5/8			
1 Dry Hole plug	@		110.00
	@		
	@		
	@		
	@		
TOTAL			110.00

SALES TAX (If Any)
TOTAL CHARGES 10,360.21
DISCOUNT 4,100.08 (40%) IF PAID IN 30 DAYS
6,260.12 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 Fred R Grimm
SIGNATURE Fred R Grimm

ALLIED
OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 1-25-15 District Oakley Ticket No. 064879
Company Berexco Rig Beredco 10
Lease Michael Well No. 10-22
County Rawlins State Ks
Location 22 1 36 Field
Beardsley N MAP 5 1/2W sinFD

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

Size ____ Type ____ Weight ____ Collar ____

Casing Depths: Top ____ Bottom ____

Drill Pipe: Size 4 1/2 Weight ____ Collars ____
Open Hole: Size 7 7/8 T.D. 4400 ft. P.B. to 3060 ft.

CAPACITY FACTORS:

Casing:	Bbls/Lin. ft. ____	Lin. ft./Bbl. ____
Open Holes:	Bbls/Lin. ft. ____	Lin. ft./Bbl. ____
Drill Pipe:	Bbls/Lin. ft. .0142	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: Water
Amt. ____ Sks Yield ____ ft³/sk Density ____ PPG

LEAD: Pump Time ____ hrs. Type 60/40 4%gel
¼ FLO-Seal Excess ____
Amt. 255 Sks Yield 1.4 ft³/sk Density 14.1 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 431
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	Pumped Per Time Period	RATE Bbls Min.	REMARKS
				5		Pump water 3060'
				8		mix cement
				5		Pump water
				35.59		Pump mud
				5		pump water 2250'
				16		mix cement
				5		pump water
				21.59		Pump mud
				5		pump water 350'
				8		mix cement
				2		Pump water
				1.5		mix cement 40'
				2.5		mix Cement mousehole
				5		~~Rat hole~~ mix cement Rathole

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

BEREXCO LLC.

INTER-OFFICE

DATE: January 5, 2015

TO: Micheal 10-22 well file

CC:

FROM: Ryan Pfeifer

SUBJECT: Location

During building of location, the stake was moved 50' North. Therefore, the revised location is 1830' FSL, 1070' FWL. The elevation was unchanged

The original staked location was 1780' FSL, 1070' FWL.