Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1152326

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) 337-8340
CONTRACTOR: License # 34317
Name: BEREDCO LLC
Wellsite Geologist: William B. Bynog
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☑ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

06/23/2013	07/08/2013	07/10/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-153-20927-00-00
Spot Description:
SE - NW - SW - NW Sec. 9 Twp. 1 S. R. 36 ☐ East ☑ West
1910 Feet from ☑ North / ☐ South Line of Section
550 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 Well #: 3-9
Field Name: un-named Wildcat
Producing Formation: Mississippi
Elevation: Ground: 3091 Kelly Bushing: 3098
Total Vertical Depth: 4748 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 305 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: 2600 ppm Fluid volume: 1800 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: 09/10/2013
☑ **Confidential Release Date:** 09/10/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 09/11/2013

1152326

Operator Name: BEREXCO LLC Lease Name: Moser Well #: 3-9

Sec. 9 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: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	306	Common	225	3% cc, 2% gel
Production	7.875	4.50	11.6	4578	Lite & Common	500	3/4# floseal, 10% salt, 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

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:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Moser 3-9
Doc ID	1152326

Tops

Name	Top	Datum
Anhydrite	3018	+80
Anhydrite (base)	3052	+46
Topeka	3806	-708
Oread	3928	-830
Lansing A	4026	-928
Lansing B	4078	-980
Lansing C	4136	-1038
Lansing D	4188	-1084
Lansing E	4224	-1126
Lansing F	4268	-1170
Pawnee	4406	-1312
Cherokee	4482 (S)	-1384 (S)
Mississippi	4706	-1608
RTD	4750	-1652
LTD	4748	-1650

BEREXCO, LLC.
MOSER # 3-9
NWSWNW SECTION 9 1S-36W
RAWLINS COUNTY, KANSAS

GEOLOGIST
WILLIAM B. BYNOG

RESUME

OPERATOR:	BEREXCO, LLC.
WELL NAME & NUMBER:	MOSER # 3-9
LOCATION:	NWSWNW SECTION 9 1S-36W
COUNTY:	RAWLINS
STATE:	KANSAS
SPUD DATE: 6-23-2013	COMPLETION DATE: 7-8-2012
ELEVATIONS:	GL: 3087' KB:3098 '
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 3896-3942, DST #2 3955-4065. DST #3 4050-4110, DST #4 4100-4210 MISRUN, DST #5 4100-4210, DST #6 4196-4251, DST #7 4395-4450
WELL STATUS:	RAN 4 ½ PRODUCTION CASING

Moser # 3-9 Sample Descriptions

ANHYDRITE 3014(+84) S 3018(+80) L

BASE 3050(+48) S 3052(to 46) L

3500-3605 SHALE red,firm,silty

FORAKER

3605-3645 LIMESTONE white,firm,chalky,sandy in part,poor porosity,no shows

3645-3750 SHALE red,green,gray,soft,argillaceous, silty in part

3750-3800 LIMESTONE buff,hard,fossils,chalky in part,poor vis porosity,no shows with thin SHALE as above

3800-40 SHALE red,soft,argillaceous with thin LIMESTONE buff,pale yell,very hard, slightly fossils,poor porosity,no shows

3840-56 LIMESTONE buff,pale yell,very hs,dense,no shows

3856-76 SHALE red,very soft,very argillaceous,sandy in part

3976-3900 LIMESTONE white,firm,sandy,chalky in part,poor porosity,no shows

Moser # 3-9 Sample Descriptions

3900-33 SHALE green,firm,argillaceous,slightly sandy with thin LIMESTONE buff,hard,fossils, chalky,poor vuggy porosity,spotty black thick tar stain,good milky cut

OREAD

3933-40 GRAINSTONE white, firm,very oolitic,fair to good intg porosity,spotty to even live brown stain,very good milky cut,very good show free oil and odor

3940-80 LIMESTONE buff,very hard,very dense, blocky,no shows

3980-90 SHALE black,dark gray,firm, carbonaceous

3990-95 SANDSTONE white,friable,very fine grained,well sorted,clay fled,poor porosity,no shows

3996-4032 SHALE red,soft,very argillaceous

LANSING A

4032-36 LIMESTONE buff,hard,chalky in part, poor pinpoint vuggy porosity,spotty live brown stain,fair cut,trace free oil

4036-52 LIMESTONE buff,very hard,very dense, blocky,no shows

4052-56 SANDSTONE white,friable,very fine grained,well sorted, fair intgranular porosity,spotty to even live black stain,very good milky cut,good show free oil

4056-78 SHALE as above

B

4078-98 GRAINSTONE white, firm,very oolitic,poor-fair intgranular porosity,spotty to even live brown stain,very good milky cut,good show free oil

4098-4104 LIMESTONE buff,very hard,dense, poor porosity,no shows

4104-10 SHALE green,black,firm,fissile, carbonaceous

4410-41 SHALE red,soft,argillaceous

C

4141-54 GRAINSTONE white, firm,oolitic,chalky in part,poor to fair intgranular porosity,spotty live brown stain,good milky cut,poor show free oil

4254-64 LIMESTONE pale gray,hard,dense, blocky,rare poor pinpoint porosity with live brown stain,poor cut

4164-88 Shale red,very soft,very argillaceous

D

4188-94 GRAINSTONE white, firm,very oolitic,poor-fair intgranular porosity,spotty to even live brown stain,very good milky cut,poor show free oil

Moser # 3-9 Sample Descriptions

-

4994-4206 LIMESTONE pale gray,very hard,dense,poor porosity,no shows

4106-10 LIMESTONE white,hard,dense,poor porosity,trace black dead stain

4210-30 SHALE red,firm,argillaceous

E

4230-34 GRAINSTONE white,slightly hard,oolitic,chalky,poor intgranular porosity, spotty live brown stain,good milky cut,fair show free oil

4234-36 LIMESTONE buff,very hard,dense,no shows

4236-44 GRAINSTONE as above,firm,very chalky,poor to fair intg porosity,spotty live brown stain,good milky cut,poor show free oil

4244-56 LIMESTONE as above hard,dense,no shows

4256-72 SHALE red,firm,silty

F

4272-92 LIMESTONE white,pale gray,very hard,dense,poor porosity,no shows

Moser # 3-9 Sample Descriptions

4292-4310 SHALE red,very soft,very argillaceous

4306-18 GRAINSTONE white,firm, chalky,oolitic,poor intg porosity,very spotty live brown stain,poor faint cut,no free oil

4318-32 LIMESTONE buff,very hard,blocky, dense,no shows

4332-78 SHALE red,soft,argillaceous with thin LIMESTONE as above dense,no shows

4378-4400 LIMESTONE white,slightly hard,chalky,poor porosity,no shows

PAWNEE

4400-20 SHALE pale green,gray,soft,sandy in part,argillaceous

4420-32 LIMESTONE white,firm,very chalky, slightly oolitic,poor intg and pinpoint vuggy porosity,very spotty live brown stain,poor slow milky cut,no free oil

4432-44 LIMESTONE buff,very hard,dense,no shows

4432-80 SHALE gray,green,black,firm,fissile, slightly carbonaceous with interbed LIMESTONE as above

4480-90 SHALE black,dark gray,firm,fissile, carbonaceous

Moser # 3-9 Sample Descriptions

4490-4530 LIMESTONE buff,very hard,dense,blocky, no shows with thin SHALE as above

4530-40 LIMESTONE as above becoming very sandy in part, dense,no shows

4540-70 SHALE red,green,gray firm,silty in part with thin SANDSTONE translucent,hard,mg, wsrtd,sileous,poor porosity,no shows

4570-4590 SANDSTONE trnl,hard,fg,blocky, dense,fair intg porosity,no shows with thin SHALE as above

4590-4640 SHALE red,green,maroon, yell,firm,fissile with thin LIMESTONE as above dense,no shows

4642-50 SANDSTONE white,firm,very fine grained,wsrtd, clay fled,poor porosity,no shows

4650-92 SANDSTONE white,translucent,friable,fine to m grain,psrtd,fair to good intg porosity,no shows with thin SHALE as above

4692-4704 CHERT white,yell,very hard,blocky, very dense,fresh

MISSISSIPPIAN

4704-20 DOLOMITE white,firm,micsuc texture,fair intxln porosity,no shows some CHERT white

4720-25 DOLOMITE white,slightly hard,micxln,cherty,poor porosity,no shows abundant Chert white,very hard,blocky,fresh

Moser # 3-9 Sample Descriptions

4725-50 DOLOMITE white,firm,micsuc, fair intxln porosity,no shows abundant CHERT white,as above

RTD 4750'

LTD 4748'

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 52132 **DST#: 1**

Test Start: 2013.06.29 @ 08:40:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:34:30
Time Test Ended: 20:01:30

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

Interval: 3896.00 ft (KB) To 3942.00 ft (KB) (TVD)
Total Depth: 3942.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

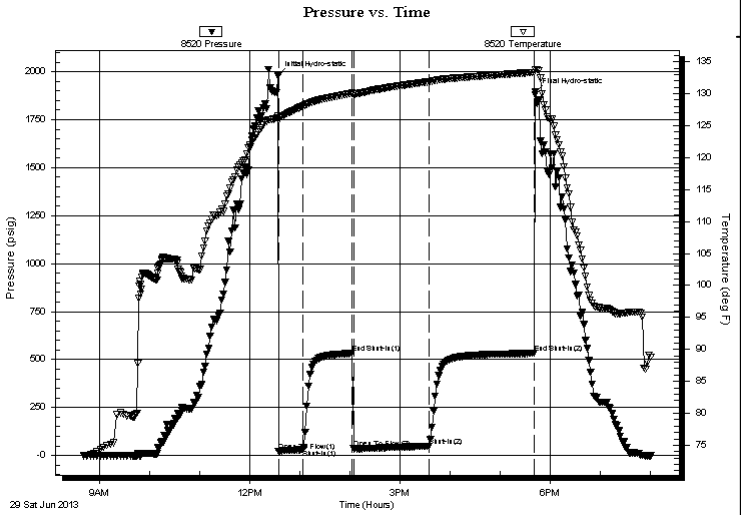
Reference Elevations: 3102.00 ft (KB)
3092.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8520 **Outside**

Press@RunDepth: 50.13 psig @ 3897.00 ft (KB)
Start Date: 2013.06.29 End Date: 2013.06.29
Start Time: 08:41:00 End Time: 20:01:30

Capacity: 8000.00 psig
Last Calib.: 2013.06.29
Time On Btm: 2013.06.29 @ 12:34:00
Time Off Btm: 2013.06.29 @ 17:42:00

TEST COMMENT: 30 - IF- Surface Blow built to 1/4", then died back to surface.
60 - ISI- No Return
90 - FF- No Blow
120 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1979.67	126.59	Initial Hydro-static
1	21.78	125.86	Open To Flow (1)
30	31.94	128.06	Shut-In(1)
89	532.78	130.07	End Shut-In(1)
91	36.05	129.91	Open To Flow (2)
181	50.13	131.85	Shut-In(2)
307	532.46	133.35	End Shut-In(2)
308	1892.89	133.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM 80M 20o	0.25
10.00	Free Oil 100o	0.05

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 52132 **DST#: 1**

Test Start: 2013.06.29 @ 08:40:00

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:	70.00 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:	1.00 inches				

Recovery Information

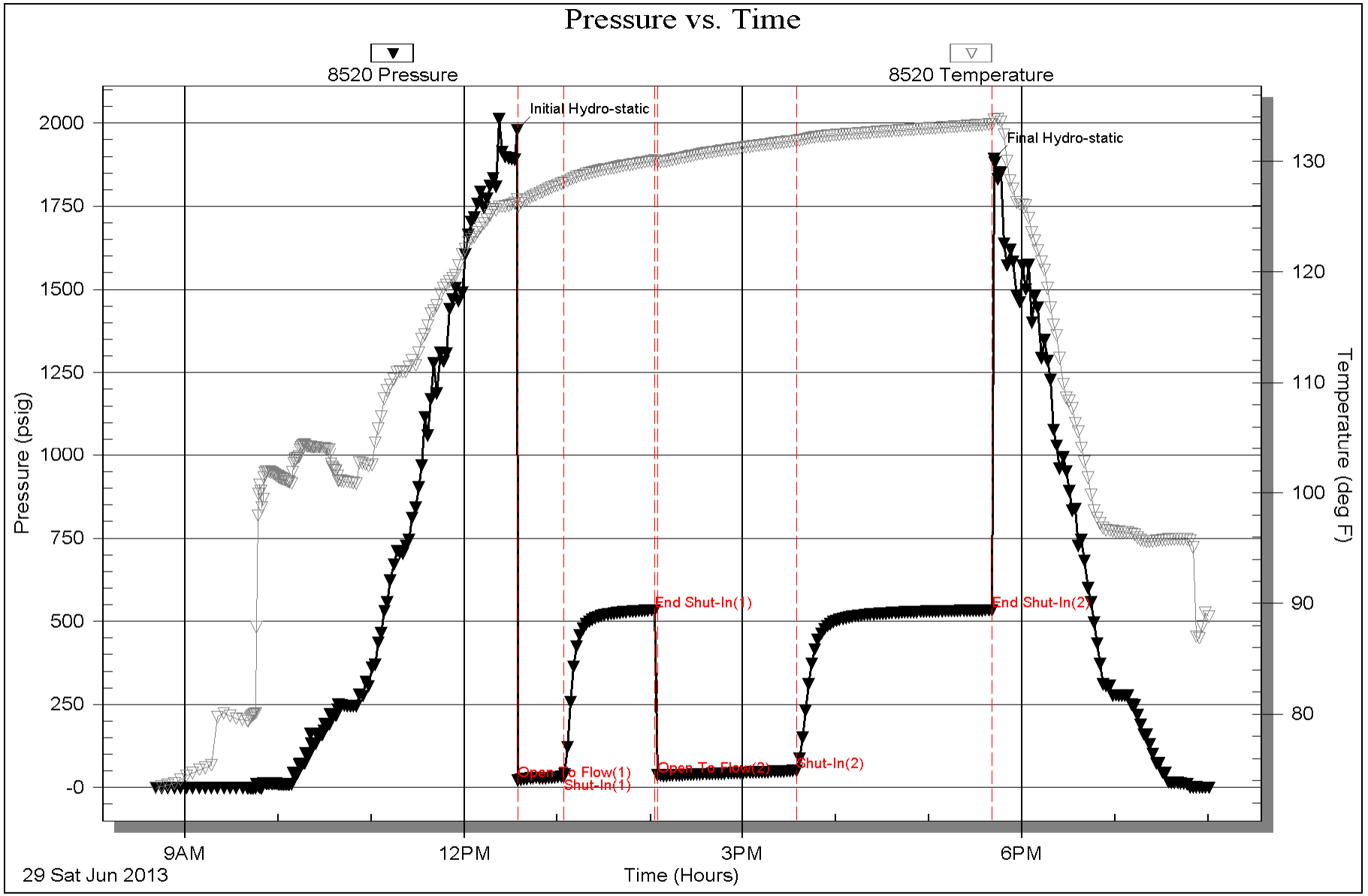
Recovery Table

Length ft	Description	Volume bbl
50.00	OCM 80M 20o	0.246
10.00	Free Oil 100o	0.049

Total Length: 60.00 ft Total Volume: 0.295 bbl

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

Serial #: 8520 **Outside** Berexco, LLC. Moser #3-9 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 52132 Printed: 2013.06.29 @ 23:07:46

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 52133 **DST#: 2**

Test Start: 2013.06.30 @ 15:50:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:50:30
Time Test Ended: 04:04:00

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

Interval: 3955.00 ft (KB) To 4065.00 ft (KB) (TVD)
Total Depth: 4065.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

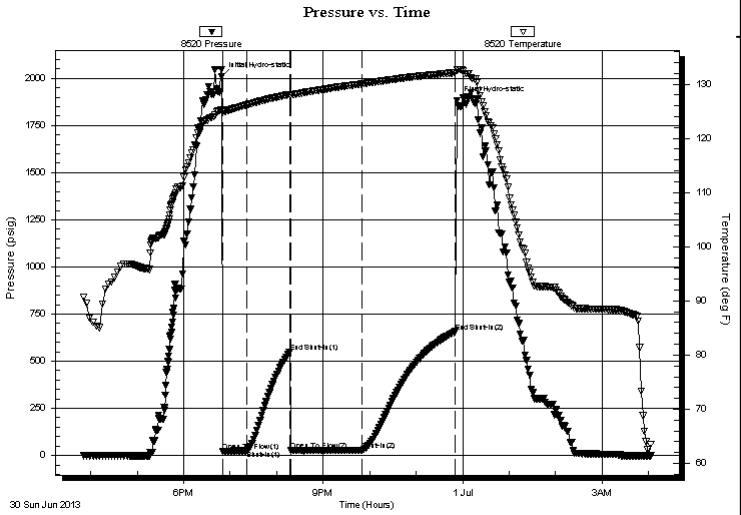
Reference Elevations: 3102.00 ft (KB)
3092.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8520 **Outside**

Press@RunDepth: 27.26 psig @ 3956.00 ft (KB)
Start Date: 2013.06.30 End Date: 2013.07.01
Start Time: 15:51:00 End Time: 04:04:00

Capacity: 8000.00 psig
Last Calib.: 2013.07.01
Time On Btm: 2013.06.30 @ 18:49:00
Time Off Btm: 2013.06.30 @ 23:52:30

TEST COMMENT: 30 - IF- 1/8" Blow died back to w eak surface blow .
60 - ISI- No Return
60 - FF- No Blow
120 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.99	125.27	Initial Hydro-static
2	22.68	124.81	Open To Flow (1)
32	24.92	126.14	Shut-In(1)
88	546.93	128.10	End Shut-In(1)
90	25.50	127.91	Open To Flow (2)
181	27.26	130.03	Shut-In(2)
302	656.32	132.13	End Shut-In(2)
304	1882.50	132.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 52133 **DST#: 2**

Test Start: 2013.06.30 @ 15:50:00

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

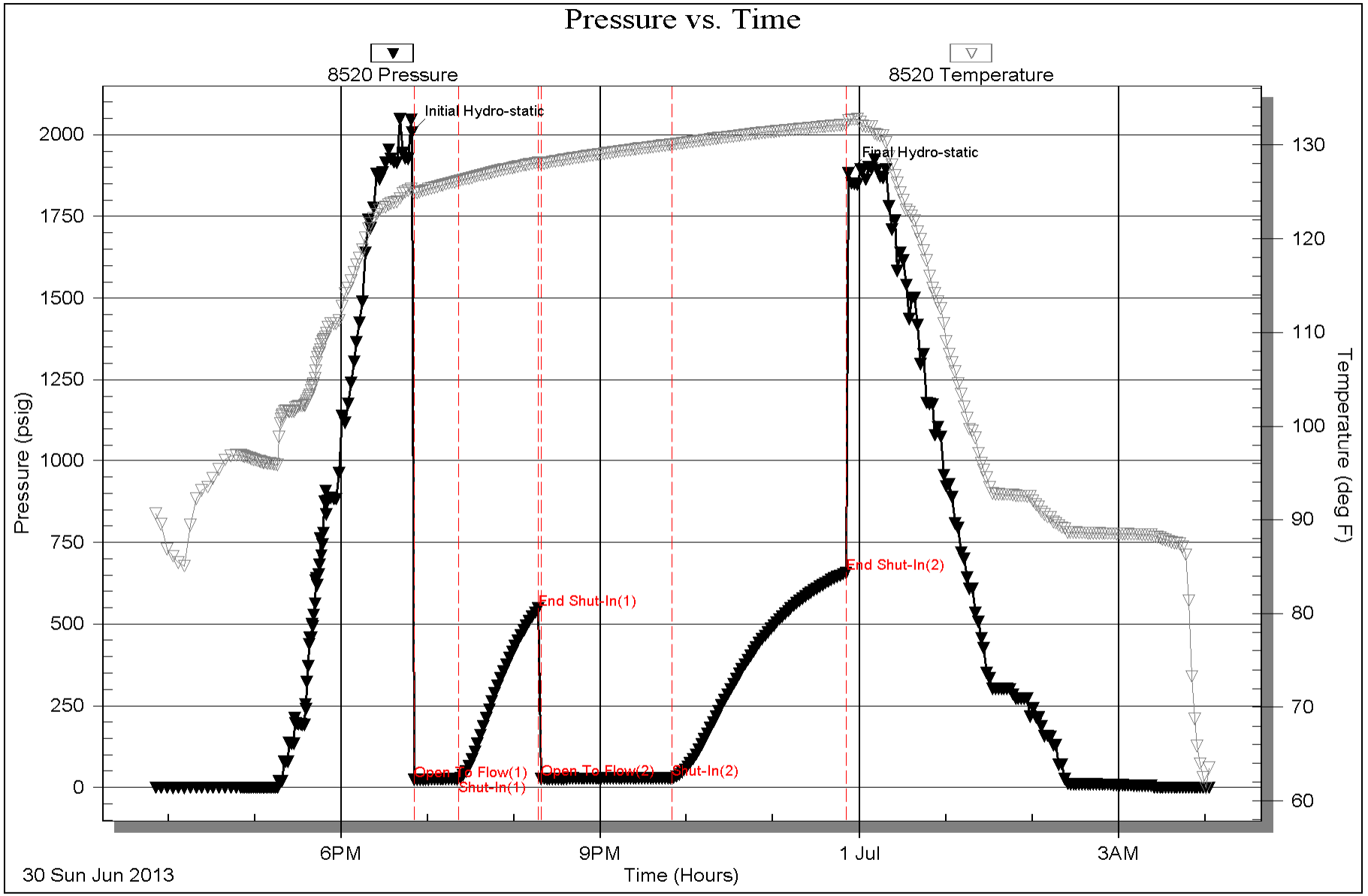
Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100M (oil spots)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Serial #: 8520 **Outside** Berexco, LLC. Moser #3-9 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 52133 Printed: 2013.07.01 @ 06:11:41

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 52134 **DST#: 3**

Test Start: 2013.07.02 @ 13:00:00

GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:18:30
Time Test Ended: 00:16:00

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

Interval: 4050.00 ft (KB) To 4110.00 ft (KB) (TVD)
Total Depth: 4110.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

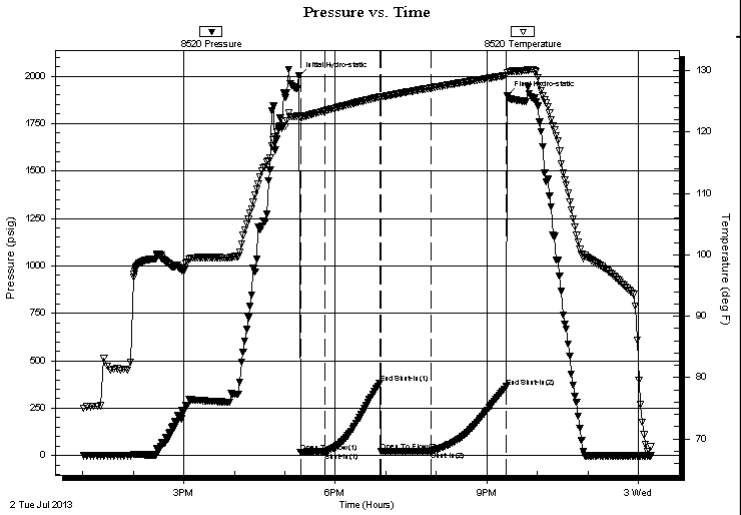
Reference Elevations: 3102.00 ft (KB)
3092.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8520 **Outside**

Press@RunDepth: 22.55 psig @ 4051.00 ft (KB)
Start Date: 2013.07.02 End Date: 2013.07.03
Start Time: 13:01:00 End Time: 00:16:00

Capacity: 8000.00 psig
Last Calib.: 2013.07.03
Time On Btm: 2013.07.02 @ 17:16:30
Time Off Btm: 2013.07.02 @ 21:24:30

TEST COMMENT: 30 - IF- 1/4" Blow died in 25 min.
60 - ISI- No Return
60 - FF- No Blow
90 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.80	122.66	Initial Hydro-static
2	18.47	122.33	Open To Flow (1)
32	19.70	123.46	Shut-In(1)
96	380.43	125.70	End Shut-In(1)
98	21.89	125.64	Open To Flow (2)
157	22.55	127.18	Shut-In(2)
246	362.53	129.20	End Shut-In(2)
248	1898.37	129.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 10o 90M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 52134 **DST#: 3**

Test Start: 2013.07.02 @ 13:00:00

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:	40.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	550.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

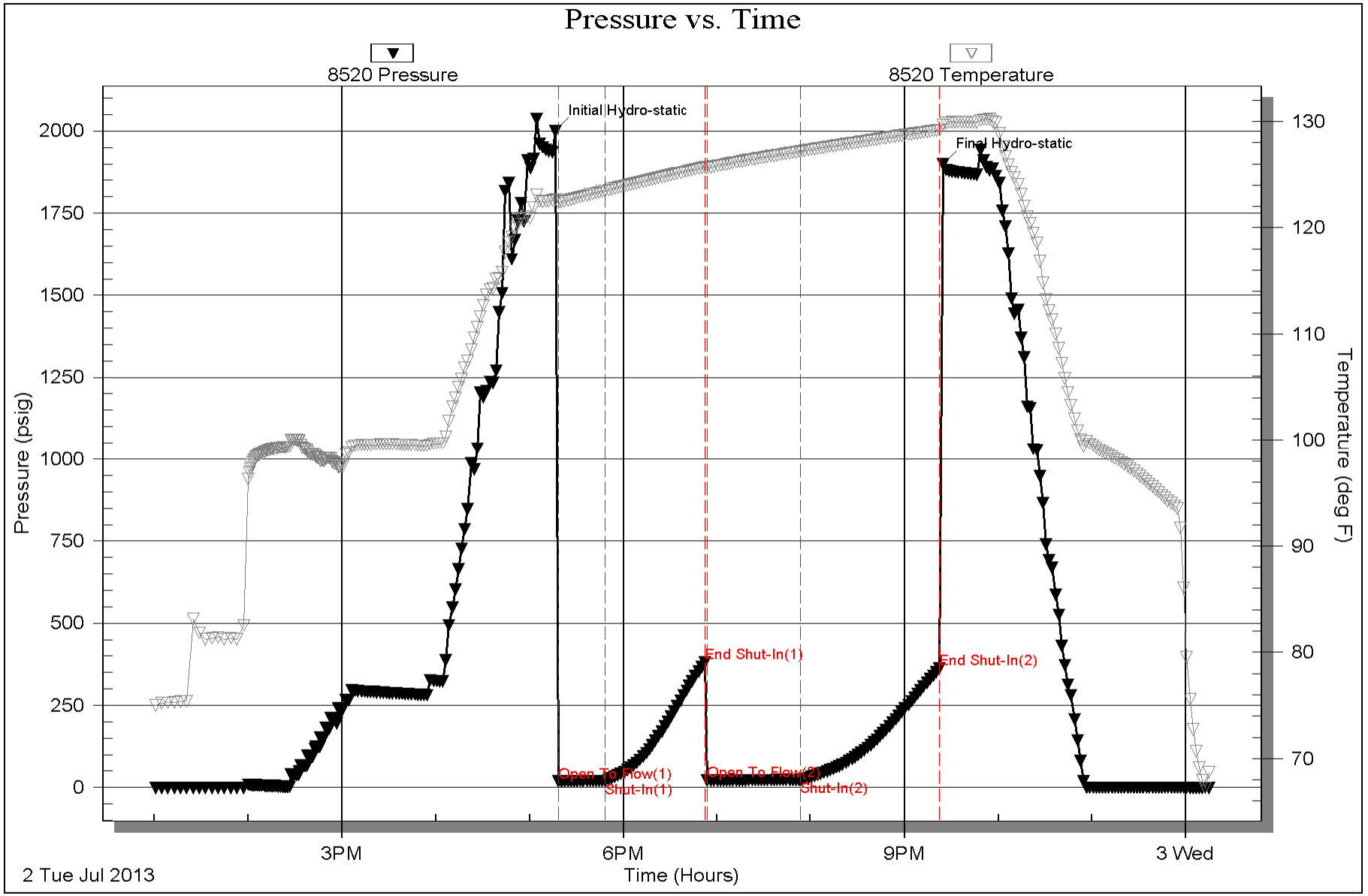
Recovery Table

Length ft	Description	Volume bbl
10.00	ocm 10o 90M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Serial #: 8520 **Outside** Berexco, LLC. Moser #3-9 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 52134 Printed: 2013.07.03 @ 07:51:30

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 53452 **DST#: 4**

Test Start: 2013.07.03 @ 18:37:00

GENERAL INFORMATION:

Formation: **LKC " C - D "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 01:45:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 66

Interval: 4100.00 ft (KB) To 4210.00 ft (KB) (TVD)
Total Depth: 4210.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

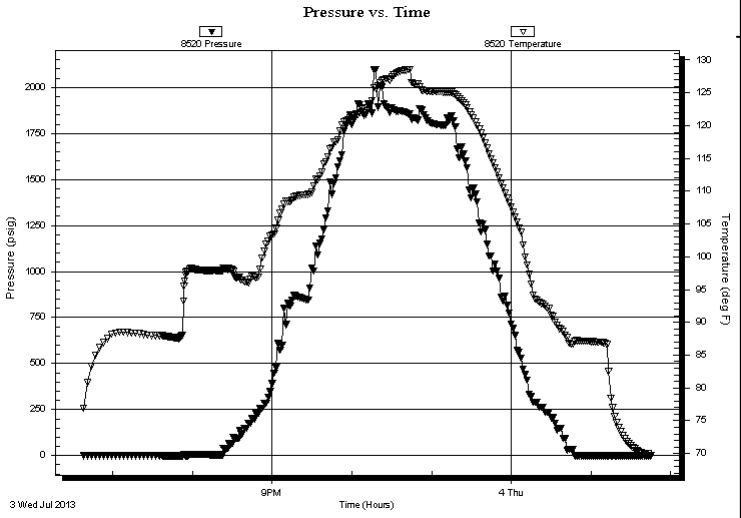
Reference Elevations: 3102.00 ft (KB)
3092.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8520

Press@RunDepth: psig @ ft (KB)
Start Date: 2013.07.03 End Date: 2013.07.04
Start Time: 18:38:00 End Time: 01:45:00

Capacity: 8000.00 psig
Last Calib.: 2013.07.04
Time On Btm:
Time Off Btm:

TEST COMMENT: MISSRUN HIT A BRIDGE COULDNT WORK THROUGH IT



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)

* Recovery from multiple tests

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

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 53452 **DST#: 4**

Test Start: 2013.07.03 @ 18:37:00

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:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

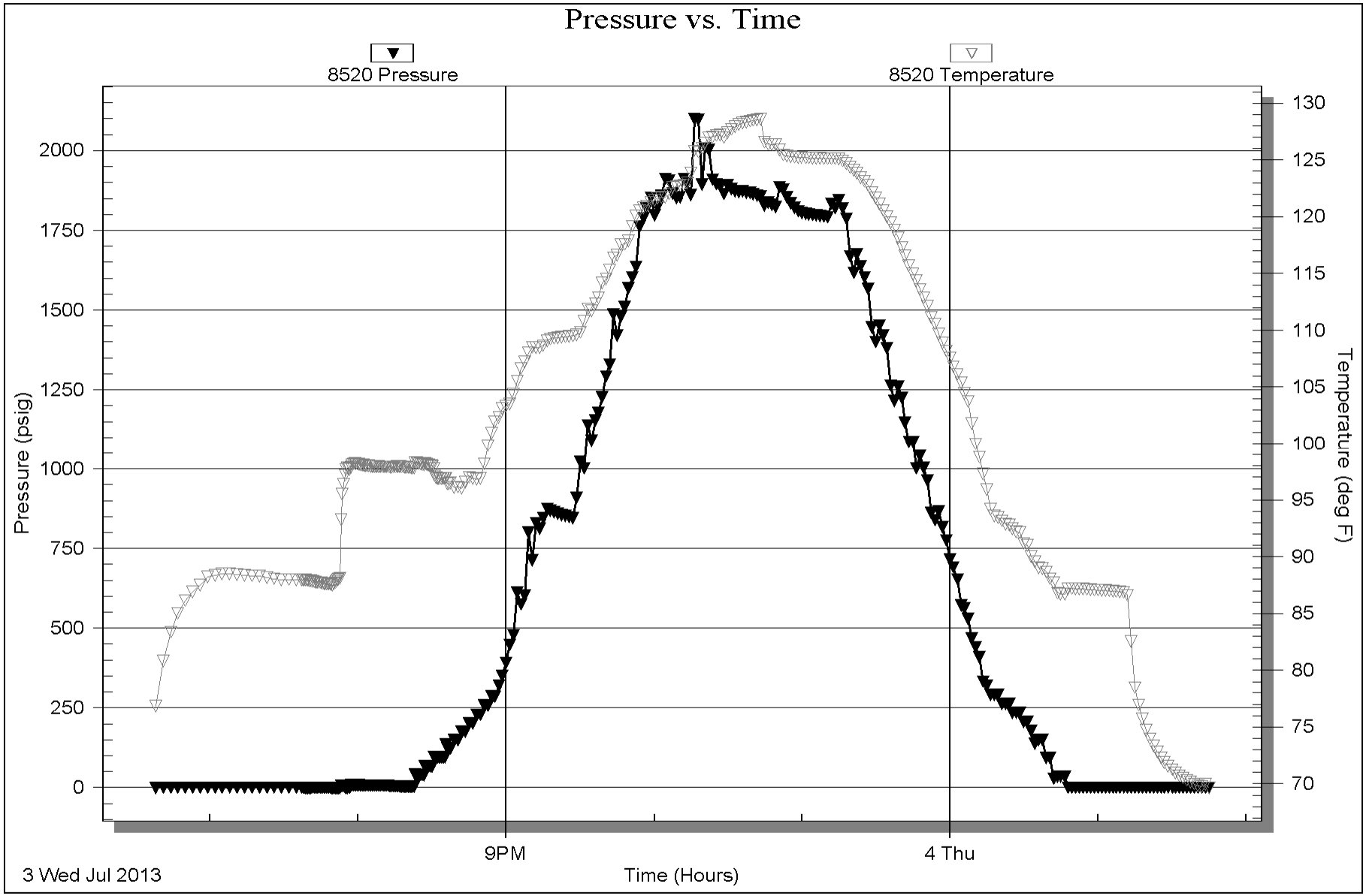
Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8520 Berexco, LLC. Moser #3-9 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 53452 Printed: 2013.07.04 @ 23:16:17

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 53453 **DST#: 5**

Test Start: 2013.07.04 @ 14:26:00

GENERAL INFORMATION:

Formation: **LKC " C - D "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:05:30
Time Test Ended: 00:19:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 66

Interval: 4100.00 ft (KB) To 4210.00 ft (KB) (TVD)
Total Depth: 4210.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

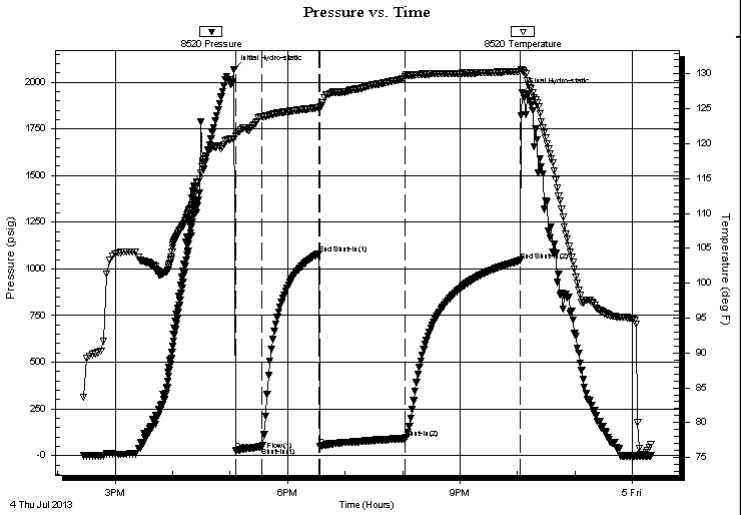
Reference Elevations: 3102.00 ft (KB)
3092.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8520 **Outside**

Press@RunDepth: 90.92 psig @ 4101.00 ft (KB)
Start Date: 2013.07.04 End Date: 2013.07.05
Start Time: 14:27:00 End Time: 00:19:00

Capacity: 8000.00 psig
Last Calib.: 2013.07.05
Time On Btm: 2013.07.04 @ 17:04:00
Time Off Btm: 2013.07.04 @ 22:05:00

TEST COMMENT: 30 IF - 1/4" blow built to 2"
60 ISI - No return
90 FF - No blow
120 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.89	120.67	Initial Hydro-static
2	26.04	121.12	Open To Flow (1)
29	46.69	123.91	Shut-In(1)
89	1081.47	125.18	End Shut-In(1)
90	50.14	125.25	Open To Flow (2)
179	90.92	129.55	Shut-In(2)
299	1044.69	130.38	End Shut-In(2)
301	1942.18	130.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCM - 5%o - 95%M	0.59
5.00	OCM - 35%o - 65%M	0.02

* Recovery from multiple tests

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

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 53453 **DST#: 5**

Test Start: 2013.07.04 @ 14:26:00

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:	40.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	550.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OCM - 5%o - 95%M	0.590
5.00	OCM - 35%o - 65%M	0.025

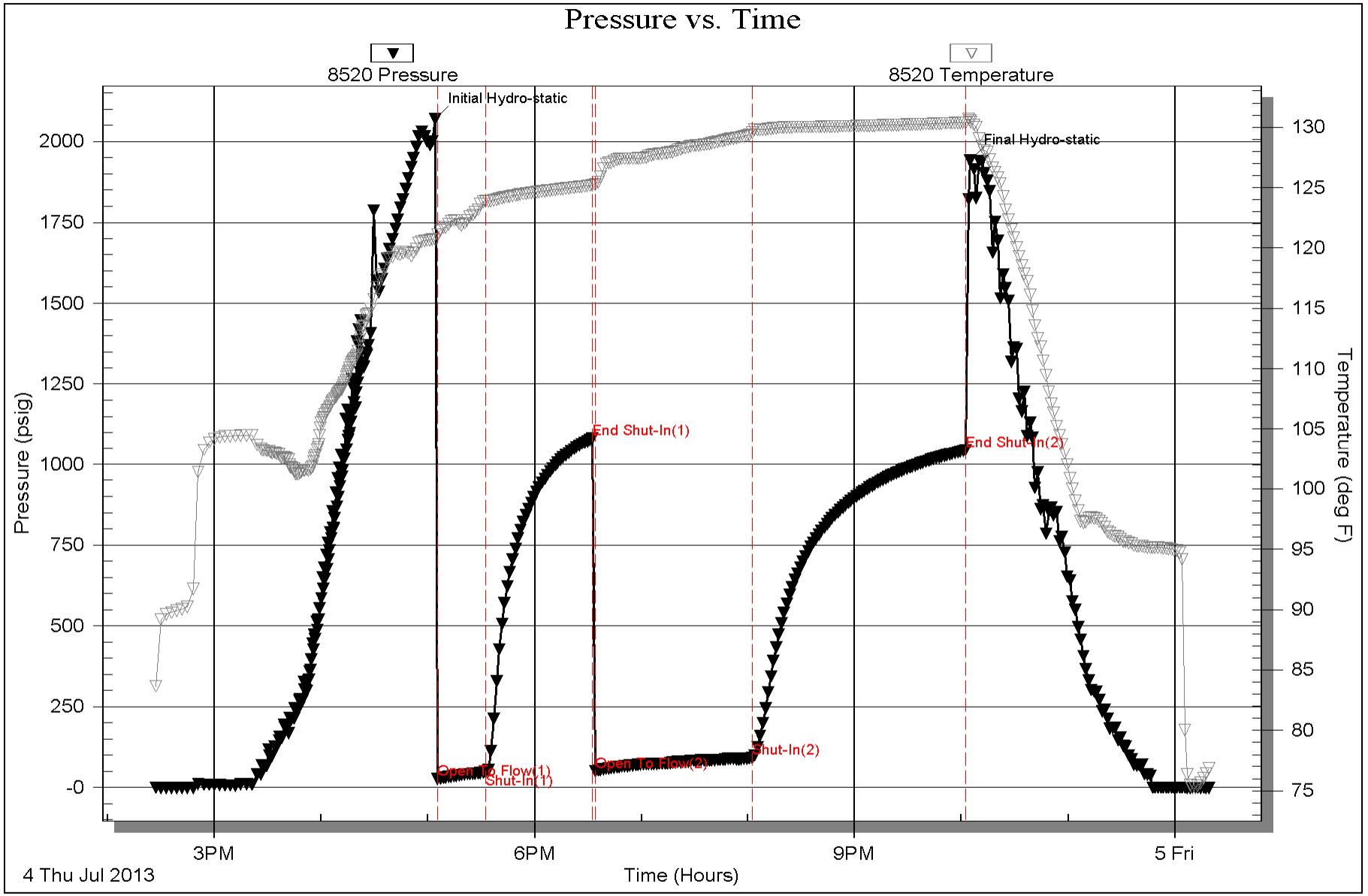
Total Length: 125.00 ft Total Volume: 0.615 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8520 **Outside** Berexco, LLC. Moser #3-9 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 53453 Printed: 2013.07.05 @ 06:01:11

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 53454 **DST#: 6**

Test Start: 2013.07.05 @ 11:40:00

GENERAL INFORMATION:

Formation: **LKC " E "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:12:30
Time Test Ended: 22:31:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 66

Interval: 4196.00 ft (KB) To 4251.00 ft (KB) (TVD)
Total Depth: 4251.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

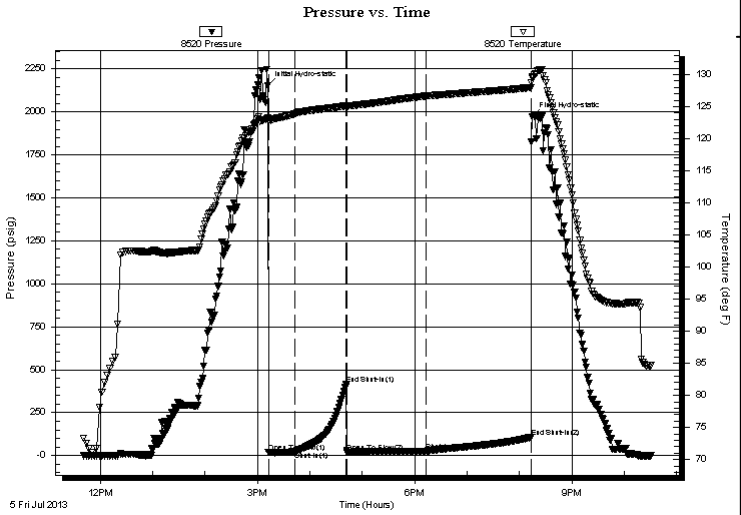
Reference Elevations: 3102.00 ft (KB)
3092.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8520

Press@RunDepth: 26.04 psig @ ft (KB)
Start Date: 2013.07.05 End Date: 2013.07.05
Start Time: 11:41:00 End Time: 22:31:00

Capacity: 8000.00 psig
Last Calib.: 2013.07.05
Time On Btm: 2013.07.05 @ 15:12:00
Time Off Btm: 2013.07.05 @ 20:14:30

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2155.67	123.22	Initial Hydro-static
1	18.19	122.75	Open To Flow (1)
31	22.34	123.90	Shut-In(1)
90	415.93	125.15	End Shut-In(1)
91	17.26	125.08	Open To Flow (2)
181	26.04	126.67	Shut-In(2)
301	107.81	127.97	End Shut-In(2)
303	1974.00	129.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM - 30%o - 70%M	0.02

* Recovery from multiple tests

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

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 53454 **DST#: 6**

Test Start: 2013.07.05 @ 11:40:00

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:	120.00 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:	3.00 inches				

Recovery Information

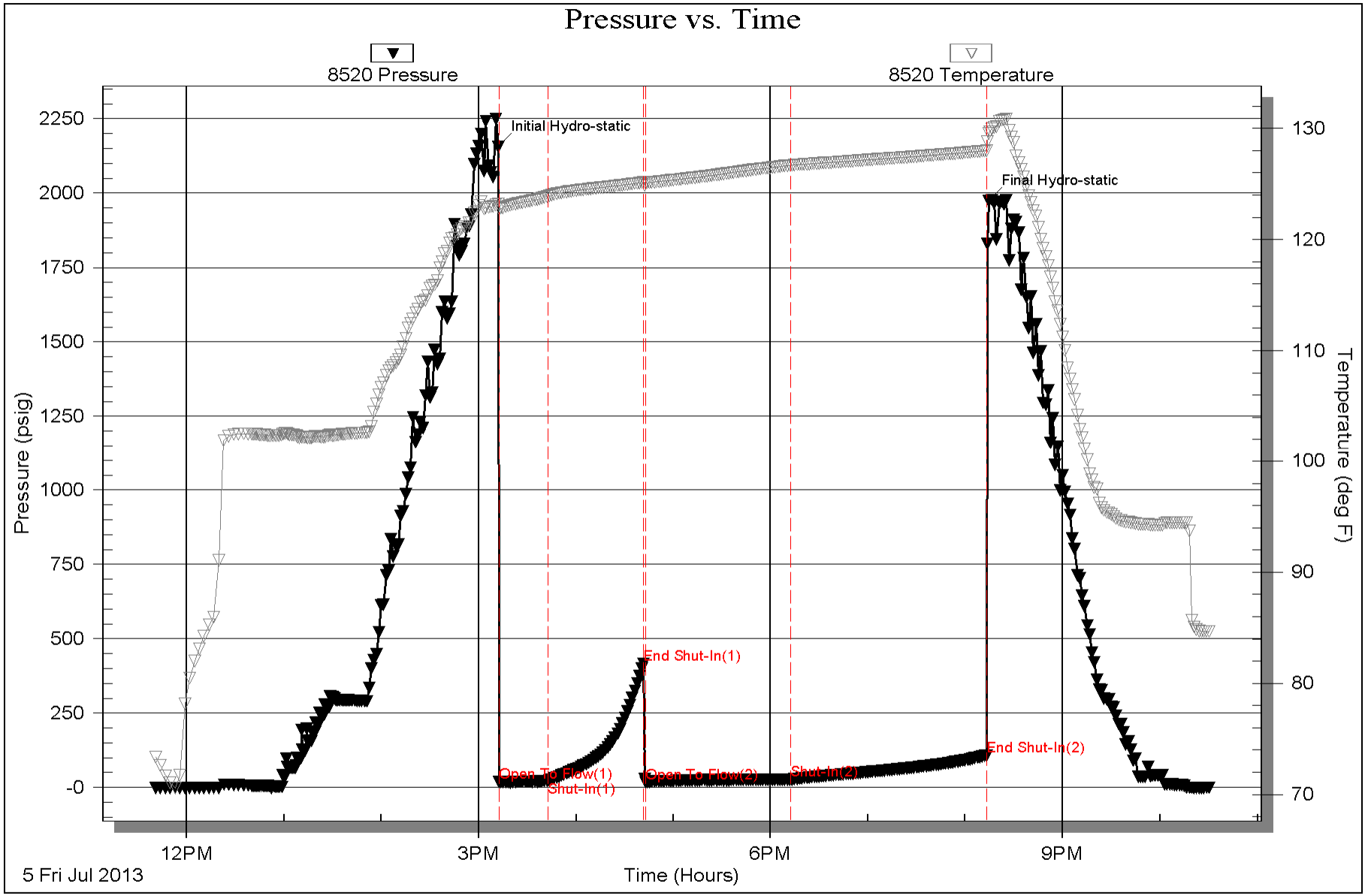
Recovery Table

Length ft	Description	Volume bbl
5.00	OCM - 30%o - 70%M	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 #: 8520 | Berexco, LLC. | Moser #3-9 | DST Test Number: 6



Trilobite Testing, Inc | Ref. No: 53454 | Printed: 2013.07.06 @ 05:36:46

DRILL STEM TEST REPORT

Berexco, LLC.

2020 N Bramblew ood
Wichita, KS 67206

ATTN: Bryan Bynog

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 53455 **DST#: 7**

Test Start: 2013.07.06 @ 19:44:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:16:00
Time Test Ended: 05:53:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 66

Interval: 4395.00 ft (KB) To 4450.00 ft (KB) (TVD)
Total Depth: 4450.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

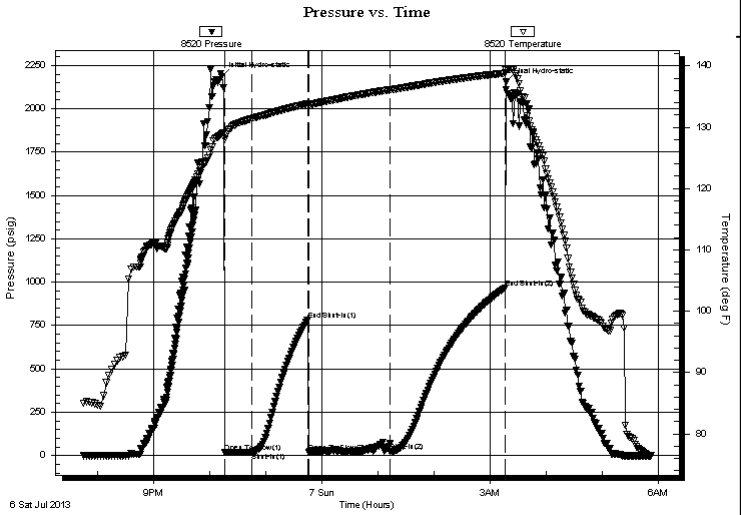
Reference Elevations: 3102.00 ft (KB)
3092.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8520

Press@RunDepth: 25.96 psig @ ft (KB)
Start Date: 2013.07.06 End Date: 2013.07.07
Start Time: 19:45:00 End Time: 05:53:00

Capacity: 8000.00 psig
Last Calib.: 2013.07.07
Time On Btm: 2013.07.06 @ 22:13:00
Time Off Btm: 2013.07.07 @ 03:17:00

TEST COMMENT: 30 IF - Surface blow died @ 11 mins
60 ISI - No return
90 FF - No blow
120 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.54	128.95	Initial Hydro-static
3	17.39	128.05	Open To Flow (1)
33	20.43	131.42	Shut-In(1)
92	782.59	133.83	End Shut-In(1)
93	20.86	133.65	Open To Flow (2)
181	25.96	136.08	Shut-In(2)
303	965.10	138.82	End Shut-In(2)
304	2154.12	139.44	Final Hydro-static

Recovery

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

* Recovery from multiple tests

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

9-1S-36W Rawlins, KS

Moser #3-9

Job Ticket: 53455 **DST#: 7**

Test Start: 2013.07.06 @ 19:44:00

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:	100.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1700.00 ppm				
Filter Cake:	3.00 inches				

Recovery Information

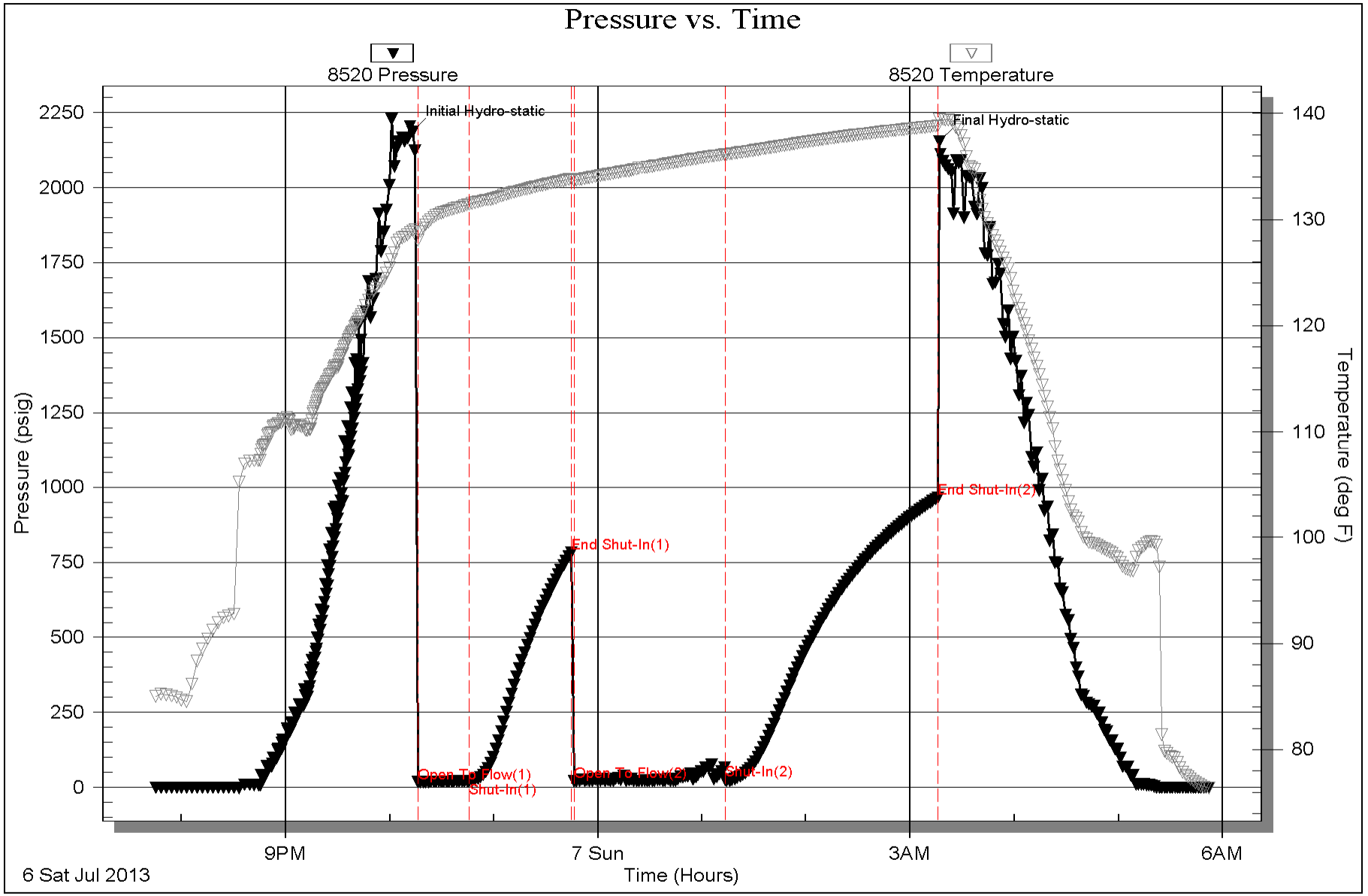
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w /oil spots 100%M	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 #: 8520 | Berexco, LLC. | Moser #3-9 | DST Test Number: 7



Trilobite Testing, Inc | Ref. No: 53455 | Printed: 2013.07.07 @ 07:08:03

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

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

August 16, 2013

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

Re: ACO1
API 15-153-20927-00-00
Moser 3-9
NW/4 Sec.09-01S-36W
Rawlins County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Rodney Reynolds

ALLIED OIL & GAS SERVICES, LLC 060318

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley

DATE 6/23/13	SEC. 9	TWP. 1	RANGE 36	CALLED OUT	ON LOCATION	JOB START 11:30 Am	JOB FINISH 12:00 Am
LEASE Moser	WELL # 3		LOCATION McDonald N To Rig Ets into			COUNTY Rawlins	STATE Ks.
OLD OR (NEW) (Circle one)							

CONTRACTOR Beredco #10
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 311'
CASING SIZE 8⅝ DEPTH 306.58'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 18.57

OWNER Same

CEMENT
AMOUNT ORDERED 225 SKs Com 3% CC 2% Gel

EQUIPMENT

PUMP TRUCK CEMENTER Duwan Racette
423-281 HELPER Paul Beaver
BULK TRUCK
347 DRIVER Brandon Wilkinson
BULK TRUCK
DRIVER

REMARKS:

Mix 225 SKs Cement
Displace with water
Cement Did Circulate

Thank You.

COMMON	225 SKs	@ $17.90	$4027.50
POZMIX		@	
GEL	4 SKs	@ $23.40	$93.60
CHLORIDE	8 SKs	@ $64.00	$512.00
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	243.36 CF x	@ 2.48	$603.53
MILEAGE	11.10 x 50 x	$2.60	$1443.00
		TOTAL	$6679.63

SERVICE

DEPTH OF JOB	306.58		
PUMP TRUCK CHARGE			$1512.25
EXTRA FOOTAGE		@	
MILEAGE	50	@ $7.70	$385.00
MANIFOLD	Swedge	@	$275.00
LV mileage		@ $4.40	$220.00
		@	
		TOTAL	$2392.25

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		TOTAL	

CHARGE TO: Beredco
STREET
CITY STATE ZIP

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

SALES TAX (If Any)
TOTAL CHARGES 9,071.88
DISCOUNT 2,540.12 IF PAID IN 30 DAYS
6,531.75 Net

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

WELL FILE

STAGE NO.

Date 6/23/13 District Oakley Ticket No. 60318

Company Berexco Rig 10

Lease Moser Well No. #3

County Rawlins Co State Ks.

Location 9-1-36 Field

McDonald N To Rig Einto

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐

Surface ☒ Intermediate ☐ Production ☐ Liner ☐

Size 8 5/8 Type New Weight 24# Collar

Casing Depths: Top KB Bottom 306.58

Drill Pipe: Size Weight Collars

Open Hole: Size 12 1/4 T.D. 311 ft. P.B. to ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl.

Open Holes: Bbls/Lin. ft. Lin. ft./Bbl.

Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.

Annulus: Bbls/Lin. ft. Lin. ft./Bbl.

Bbls/Lin. ft. Lin. ft./Bbl.

Perforations: From ft. to ft. Amt.

CEMENT DATA:

Spacer Type:

Amt. Sks Yield ft³/sk Density PPG

LEAD: Pump Time hrs. Type Com 3%CC 2% Gel Excess

Amt. 225 Sks Yield 1.36 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 423-281 - Paul

Bulk Equip. 347 - Brandon

Float Equip: Manufacturer

Shoe: Type Depth

Float: Type Depth

Centralizers: Quantity Plugs Top Btm.

Stage Collars

Special Equip.

Disp. Fluid Type Water Amt. 18.57 Bbls. Weight 8.34 PPG

Mud Type Weight PPG

COMPANY REPRESENTATIVE

CEMENTER Darren Racette

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
11:30						Surface
						Safty Meeting
						Run Casing
						Break Circulation with Rig Pump
						Hook up To Pump Truck
						mix 225 Sks Cement
						Displace With Water
12:00						Cement Did Circulate.

Thank You.

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

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

WELL

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

SERVICE POINT: Oakley

DATE 2-8-13	SEC. 9	TWP. 1	RANGE 36	CALLED OUT	ON LOCATION	JOB START 7:30 Am	JOB FINISH 8:30 Am
LEASE Moser	WELL # 3		LOCATION McDonald 15 N			COUNTY Rawlins	STATE Ks
OLD OR NEW (Circle one)			E ts in TO				

CONTRACTOR Beredco 10
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 4250'
CASING SIZE 4 1/2 DEPTH 4591'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 44.18
CEMENT LEFT IN CSG. 44.18
PERFS.
DISPLACEMENT 70.47 BBL

OWNER same

EQUIPMENT

PUMP TRUCK # 431 CEMENTER Andrew Fordure
HELPER OJ Gray
BULK TRUCK # 396 DRIVER Kevin Ryan
BULK TRUCK # 347 DRIVER Chris Helpingstine

CEMENT

AMOUNT ORDERED 300 sks Lite 3% Flosea l
200 sks Lite 10% salt 2% gel
5# Gilsonite

COMMON	200 sks	@	17.90	3580.00
POZMIX		@		
GEL	4 sks	@	23.40	93.60
CHLORIDE		@		
ASC		@		
Lite	300 sks	@	15.95	4785.00
		@		
Gilsonite	1000#	@	.98	980.00
		@		
salt	21 sks	@	26.35	553.35
		@		
Flosea l	225#	@	2.97	668.25
		@		
HANDLING	590.32 cu/ft	@	2.48	1463.99
MILEAGE	2.60 TON/mile 24.65 ton			3204.50
			TOTAL	15328.69

REMARKS:

Plug mouse hole 15 sks Rat hole 30 sks
Mix 255 sks Lite followed by 200
sks com down 4 1/2 casing. Wash
pump and line clean. Displace
plug 1100# lift pressure
1700# land plug. Float held

Thank you

SERVICE

DEPTH OF JOB 4591'
PUMP TRUCK CHARGE 2265.25
EXTRA FOOTAGE @
MILEAGE 50 miles @ 7.70 385.00
MANIFOLD head @ 225.00 N/C
Light vehicle @ 4.40 N/C
@
TOTAL 3150.25

CHARGE TO: Berexco
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

4 1/2

1 AFu Float shoe	@		217.00
1 Latchdown plug Assy	@		155.00
12 Centralizers	@	35.00	420.00
2 Baskets	@	162.00	324.00
20 Reciprocating scratchers	@	35.00	700.00
		TOTAL	1816.00

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 20295.44
DISCOUNT 5,682.72 IF PAID IN 30 DAYS
14,612.71 Net.

PRINTED NAME
SIGNATURE Ed Hayes

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 2-8-13 District Oakley Ticket No 060759
Company BereaCO Rig BereaCO
Lease moser Well No. 3
County Rawlins State KS
Location 9 1 36 Field
mcDonald 15N 6E 4S into

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☐ Intermediate ☐ Production ☒ Liner ☐
Size 4½ Type New Weight 11.6 Collar

Casing Depths: Top KB Bottom 4591'

Drill Pipe: Size Weight Collars
Open Hole: Size 7 7/8 T.D. 4750 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
¾ Flo-seal Excess
Amt. 300 Sks Yield 1.98 ft³/sk Density 12.3 PPG
TAIL: Pump Time hrs. Type com 10 Class H
2% gel 5# Gilsonite Excess
Amt. 200 Sks Yield 1.49 ft³/sk Density 14.5 PPG
WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 431
Bulk Equip. 396
347

Float Equip: Manufacturer Industrial Rubber
Shoe: Type AFU Float shoe Depth 4591
Float: Type Latch down Depth 4546.82
Centralizers: Quantity 12 Plugs Top Btm.
Stage Collars
Special Equip. 2 Baskets 20 scratchers
Disp. Fluid Type water Amt 70.4 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
7:30						Plug mouse hole 15sks
						Plug Rat hole 30sks
						mix 255 sks Lite
						200 sks com
						Wash pump and Line clean
						drop plug
						start Displacement
				10		
				10		
				10		
	500			10		
				10		
				10		
	1100			10		
	1100			2		
	1700					plug landed
8:30						Float held

FINAL DISP. PRESS: 1100 PSI BUMP PLUG TO 1700 PSI BLEEDBACK ½ BBLS. THANK YOU