



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1264981
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1264981

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Powell 9-22
Doc ID	1264981

All Electric Logs Run

Array Compensated True Resistivity Log
Dual Spaced Neutron Spectral Density Microlog
Borehole Compensated Sonic Array Log
Microlog

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Powell 9-22
Doc ID	1264981

Tops

Name	Top	Datum
Heebner (top)	4079	-1125
Heebner (base)	4087	-1133
Toronto	4098	-1144
Lansing	4134	-1180
KS City (base)	4750	-1796
Marmaton	4761	-1807
Pawnee	4871	-1917
Ft. Scott	4909	-1955
Cherokee	4926	-1972
Morrow	5210	-2256
Chester	5390	-2436
St. Genevieve	5510	-2556
RTD	5631	-2677
LTD	5634	-2680



CEMENTING LOG

STAGE NO. _____

Date 6/2/15 District Rolling Ticket No. 067268
 Company Benevento Rig Benevento
 Lease POWELL Well No. 9-22
 County Hawthorn State Ky
 Location _____ Field _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Skts Yield _____ ft³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type New Weight 24 Collar _____

LEAD: Pump Time _____ hrs. Type ALUM 65-356 7000
11-1/2 390CC Excess _____
 Amt. 650 Skts Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type Comm 390CC
 Excess _____
 Amt. 150 Skts Yield 1 LR ft³/sk Density 15 LR PPG

WATER: Lead _____ gals/sk Tail 5.14 gals/sk Total _____ Bbls.

Casing Depths: Top 126 Bottom 1948

Pump Trucks Used 495-181
 Bulk Equip. 818
830

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size 6 1/4 T.D. _____ ft. P.B. to _____ ft.

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

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. _____

COMPANY REPRESENTATIVE _____ CEMENTER ML

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						evaluation 2FTs into Set up
						from Log, Circumference
				150.0	3 1/2	mix ALUM - 650 gals
				20.0	3 1/2	mix Comm - 150 gals
				10		
				20		
				40		
				60		
				80		
				20		
				100		

MILLER PRINTERS, INC. - Great Bend, KS

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

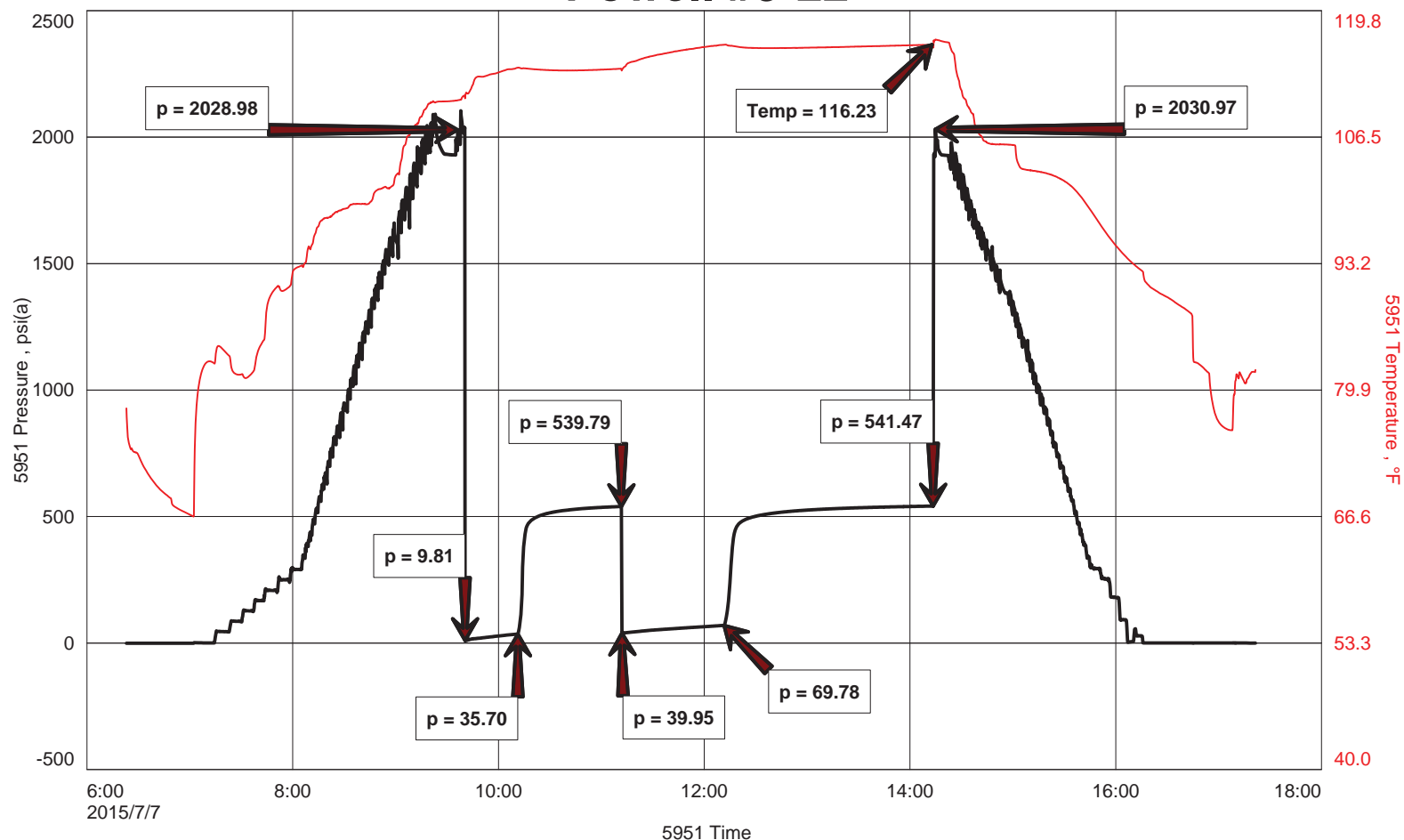
Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	Lansing "B" 4229'-4235'
Test Type	Bottom-Hole w/J&J, ShPkr X 2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	5951
Start Test Date	2015/07/07
Start Test Time	06:23:00
Final Test Date	2015/07/07
Final Test Time	17:24:00
Job Number	F392
Contact	Evan Mayhew
Site Contact	Ed Grieves

TEST RESULTS

Initial flow, weak blow, increased to 1.25".
Final flow, weak blow, increased to .75".

Recovered approximately 45' of Watery Mud, 30% wtr, 70% mud
(oil spots in tools)

Powell #9-22





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: POWELL 9DST1

ON LOCATION: 05:15
 START RECORDERS: 06:23
 STOP RECORDERS: 17:24

Company BEREDCO LLC Lease & Well No. POWELL #9-22
 Contractor BEREDCO LLC REG # 1 Charge to BEREDCO LLC
 Elevation 2954' KB Formation LANSING "B" Effective Pay _____ Ft. Ticket No. F392
 Date 7-7-15 Sec. 72 Twp. 29S Range 33W County HASKELL State KANSAS
 Test Approved By EO GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 4229 ft. to 4235 ft. Total Depth 4235 ft.
 Packer Depth 4224 5/8 Pk ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4229 5/8 Pk ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4207 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4208 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 46 (4# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 10.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 6800 P.P.M. Drill Pipe Length 3580 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 545, 5/8 Pk X2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 6 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK BLOW, INCREASED TO 1 1/4"
 2nd Open: WEAK BLOW, INCREASED TO 3/4"

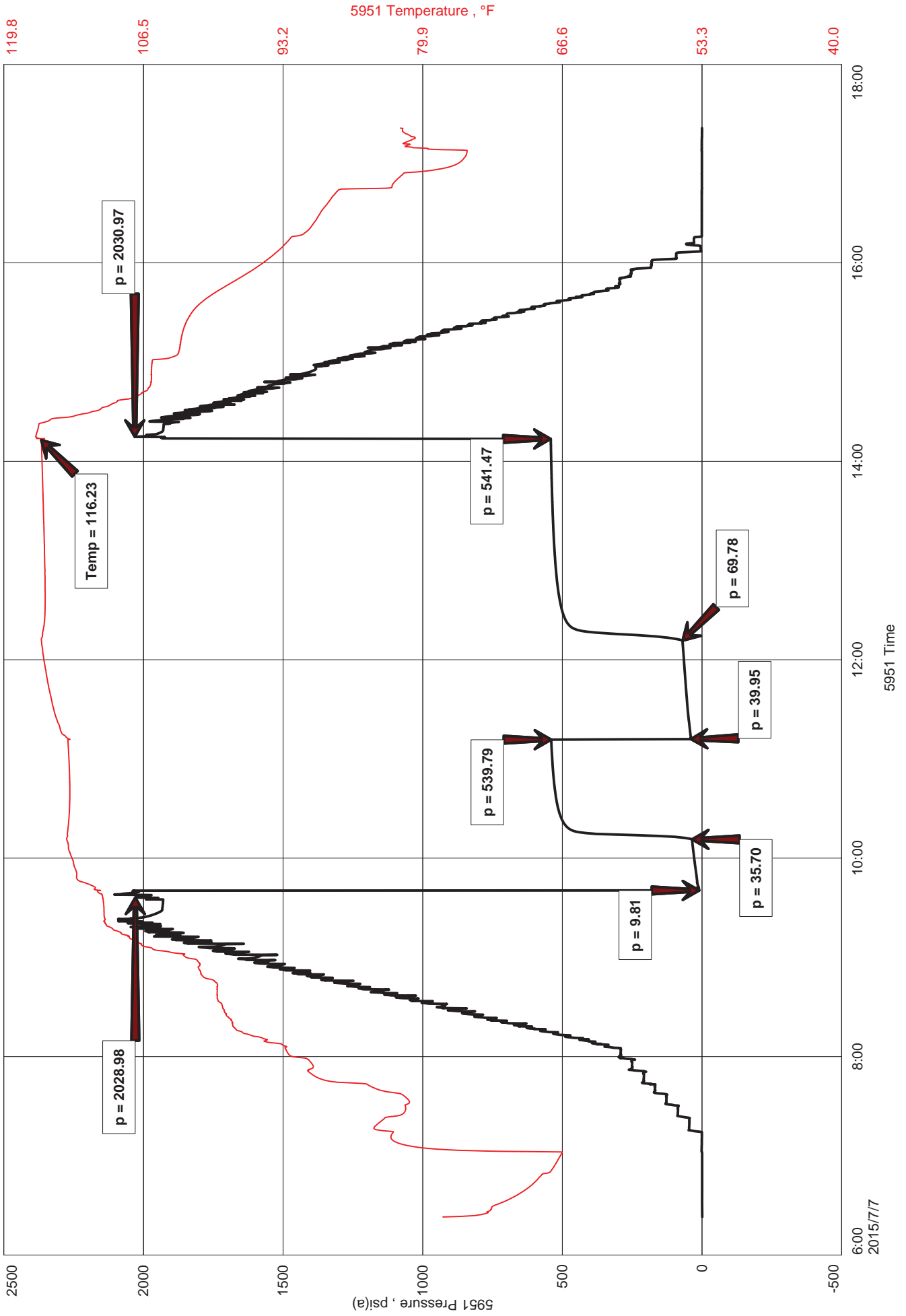
Recovered 45' 1/4 of WATERY MUD 30% WTR, 70% MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of (OIL SPOTS IN TOOLS)
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: 62,000 PPM CHLORIDES
RW: 11 Ω @ 80°F
PH: 7.0
 Price Job _____
 Other Charges J&J
5/8 Pk X2
410 MRT (ML)
 Total _____

Time Set Packer(s) 09:45 A.M. Time Started Off Bottom 14:15 P.M. Maximum Temperature 116°F
 Initial Hydrostatic Pressure (A) 2029 P.S.I.
 Initial Flow Period Minutes 30 (B) 10 P.S.I. to (C) 36 P.S.I.
 Initial Closed In Period Minutes 60 (D) 540 P.S.I.
 Final Flow Period Minutes 60 (E) 40 P.S.I. to (F) 70 P.S.I.
 Final Closed In Period Minutes 120 (G) 541 P.S.I. Thanks
 Final Hydrostatic Pressure (H) 2031 P.S.I. Jake Fahrenbruch

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Powell #9-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST1

TIME ON: 06:23
TIME OFF: 17:24

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation LANSING "B" Effective Pay _____ Ft. Ticket No. F392
Date 7-7-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 4229 ft. to 4235 ft. Total Depth 4235 ft.
Packer Depth 4224 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Packer Depth 4229 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 4207 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4208 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 46 (4# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 6,800 P.P.M. Drill Pipe Length 3,580 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 6 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK BLOW, INCREASED TO 1.25"
2nd Open: WEAK BLOW, INCREASED TO .75"

Recovered 45 ft. of WATERY MUD 30% WTR, 70% MUD
Recovered _____ ft. of (OIL SPOTS IN TOOLS)
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: 62,000 PPM CHLORIDES
RW: .11 OHM @ 80 F
PH: 7.0

Time Set Packer(s) 09:45 A.M. P.M. Time Started Off Bottom 14:15 A.M. P.M. Maximum Temperature 116 F

Initial Hydrostatic Pressure..... (A) 2029 P.S.I.
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 36 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 540 P.S.I.
Final Flow Period..... Minutes 60 (E) 40 P.S.I. to (F) 70 P.S.I.
Final Closed In Period..... Minutes 120 (G) 541 P.S.I.
Final Hydrostatic Pressure..... (H) 2031 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

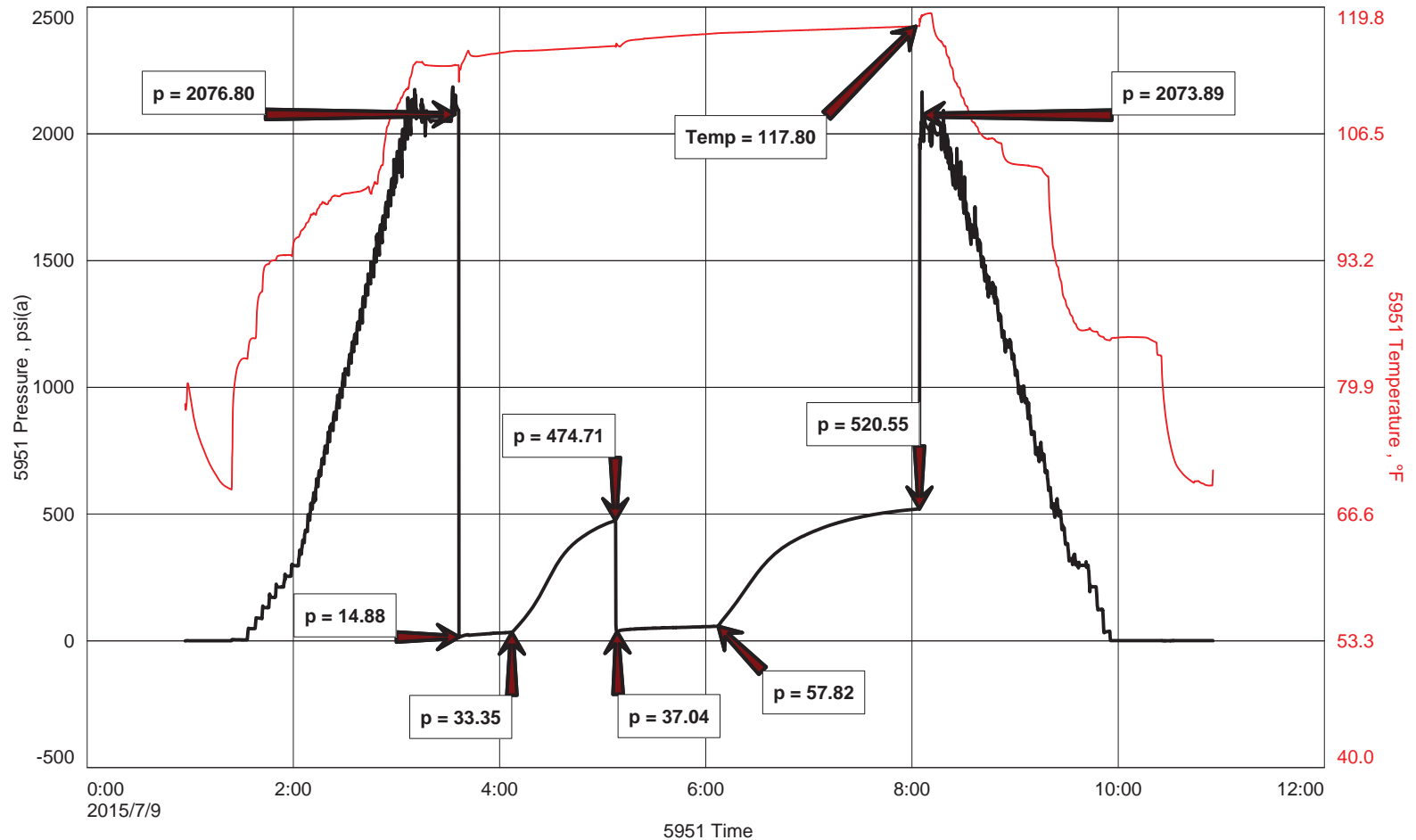
Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	Lansing "H" 4435'-4473'
Test Type	Bottom-Hole w/J,Jnt,ShPkr X 2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	5951
Start Test Date	2015/07/09
Start Test Time	00:57:00
Final Test Date	2015/07/09
Final Test Time	10:56:00
Job Number	F393
Contact	Evan Mayhew
Site Contact	Ed Grieves

TEST RESULTS

Initial flow, blow increased to 7.5". No blowback.
 Final flow, blow increased to BOB in 20 minutes. No blowback.

Recovered 100' of SGCOCM, 5% gas, 25% oil, 70% mud
 650' of GAS IN PIPE
 ----- (tool sample: GCOM, 10% gas, 40% oil, 50% mud) -----

Powell #9-22





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: POWELL 9D5T2

ON LOCATION:	<u>00:30</u>
START RECORDERS:	<u>00:57</u>
STOP RECORDERS:	<u>10:56</u>

Company BEREXCO LLC Lease & Well No. POWELL #9-22
 Contractor BEREXCO LLC REG #1 Charge to BEREXCO LLC
 Elevation 2954' KB Formation LANSING "H" Effective Pay _____ Ft. Ticket No. F393
 Date 7-9-15 Sec. 22 Twp. 29S Range 33W County HASKELL State KANSAS
 Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 4435 ft. to 4473 ft. Total Depth 4473 ft.
 Packer Depth 4430 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4435 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4428 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4436 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 48 (3" UCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 4200 P.P.M. Drill Pipe Length 3786 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5, JAW 54PKR2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 38 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BLOW INCREASED TO 7 1/2". NO BLOWBACK.
 2nd Open: BLOW INCREASED TO BOB IN 20 MINUTES.

Recovered 100 ft. of SGCCOM 5" GAS, 25% OIL, 70% MUD
 Recovered _____ ft. of 650' GAS IN PIPE
 Recovered _____ ft. of TOOL SAMPLE: GCOM 10% GAS, 40% OIL, 50% MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

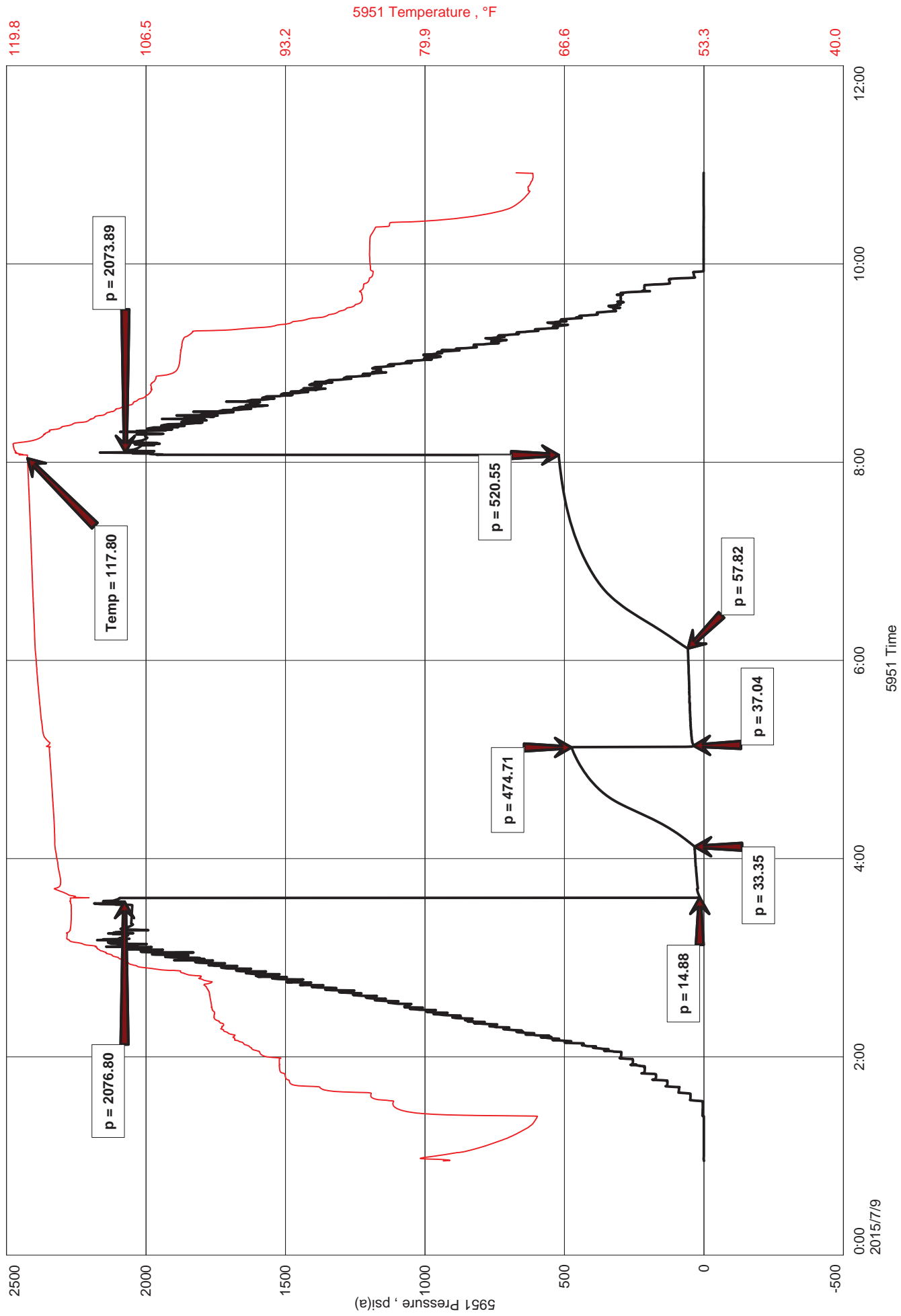
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges <u>J&J</u>
Remarks: _____	<u>54PKR X2</u>
	<u>78 MRT (GC)</u>
	Total

Time Set Packer(s) 08:39 A.M. Time Started Off Bottom 08:09 A.M. Maximum Temperature 118 °F
 P.M. P.M.

Initial Hydrostatic Pressure..... (A) 2077 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 33 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 475 P.S.I.
 Final Flow Period..... Minutes 60 (E) 37 P.S.I. to (F) 58 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 521 P.S.I. Thanks
 Final Hydrostatic Pressure..... (H) 2074 P.S.I. Jacob Johnson

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Powell #9-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST2

TIME ON: 00:57
TIME OFF: 10:56

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation LANSING "H" Effective Pay _____ Ft. Ticket No. F393
Date 7-9-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 4435 ft. to 4473 ft. Total Depth 4473 ft.
Packer Depth 4430 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4435 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4418 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4436 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 48 (3# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,200 P.P.M. Drill Pipe Length 3,786 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 38 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ALL PERFORATIONS IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Blow increased to 7.5". No blowback.
2nd Open: Blow increased to BOB in 20 minutes. No blowback.

Recovered 100 ft. of SGCOCM 5% gas, 25% oil, 70% mud
Recovered _____ ft. of 650' GAS IN PIPE
Recovered _____ ft. of (tool sample: GCOM, 10% gas, 40% oil, 50% mud)
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 03:39 A.M. P.M. Time Started Off Bottom 08:09 A.M. P.M. Maximum Temperature 118F

Initial Hydrostatic Pressure..... (A) 2077 P.S.I.
Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 33 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 475 P.S.I.
Final Flow Period..... Minutes 60 (E) 37 P.S.I. to (F) 58 P.S.I.
Final Closed In Period..... Minutes 120 (G) 521 P.S.I.
Final Hydrostatic Pressure..... (H) 2074 P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

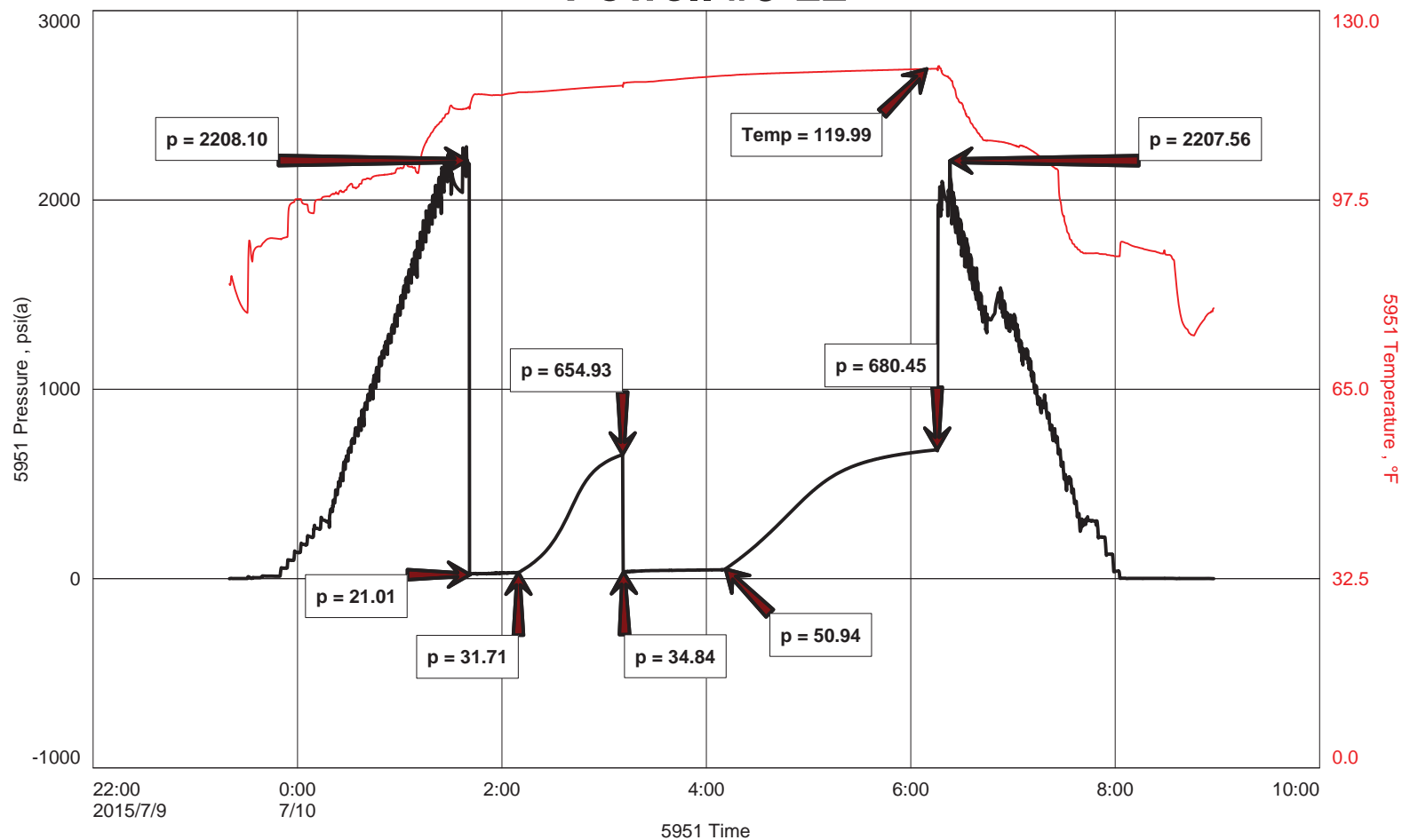
Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	Lansing "I" 4497'-4511'
Test Type	Bottom-Hole w/J,Jnt,ShPkr X 2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	5951
Start Test Date	2015/07/09
Start Test Time	23:20:00
Final Test Date	2015/07/10
Final Test Time	08:58:00
Job Number	F394
Contact	Evan Mayhew
Site Contact	Ed Grieves

TEST RESULTS

Initial flow, blow increased to 4.5". No blowback.
 Final flow, blow increased to 9". No blowback.

Recovered 40' of SOCM, 5% oil, 95% mud
 ----- 150' GAS IN PIPE -----
 ----- (tool sample: HOCM, 32% oil, 68% mud) -----

Powell #9-22





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: POWELL9DST3

ON LOCATION:	<u>22:45</u>
START RECORDERS:	<u>23:20</u>
STOP RECORDERS:	<u>08:58</u>

Company BEREXCO LLC Lease & Well No. POWELL #9-22
 Contractor BEREXCO LLC RIG # 1 Charge to BEREXCO LLC
 Elevation 2954' KB Formation LANSING 'I' Effective Pay --- Ft. Ticket No. F394
 Date 7-10-15 Sec. 22 Twp. 29S Range 33W County HASSELL State KS
 Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 3 Interval Tested from 4497 ft. to 4511 ft. Total Depth 4511 ft.
 Packer Depth 4492 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Packer Depth 4497 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 4480 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4498 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth --- ft. Recorder Number --- Cap. --- P.S.I.

Mud Type CHEMICAL Viscosity 46 (4*LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length --- ft. I.D. 2 7/8 in.
 Chlorides 3600 P.P.M. Drill Pipe Length 3846 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 5 J, J, 54PKr X2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? --- Reversed Out --- Anchor Length 14 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" X 1 1/4" Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BLOW INCREASED TO 4 1/2". No B/B
 2nd Open: BLOW INCREASED TO 9". No B/B

Recovered 40 ft. of SOCM 5% OIL, 95% MUD
 Recovered --- ft. of 150' GAS IN PIPE
 Recovered --- ft. of TOOL SAMPLE: HOCM 32% OIL, 68% MUD
 Recovered --- ft. of ---
 Recovered --- ft. of ---
 Recovered --- ft. of ---

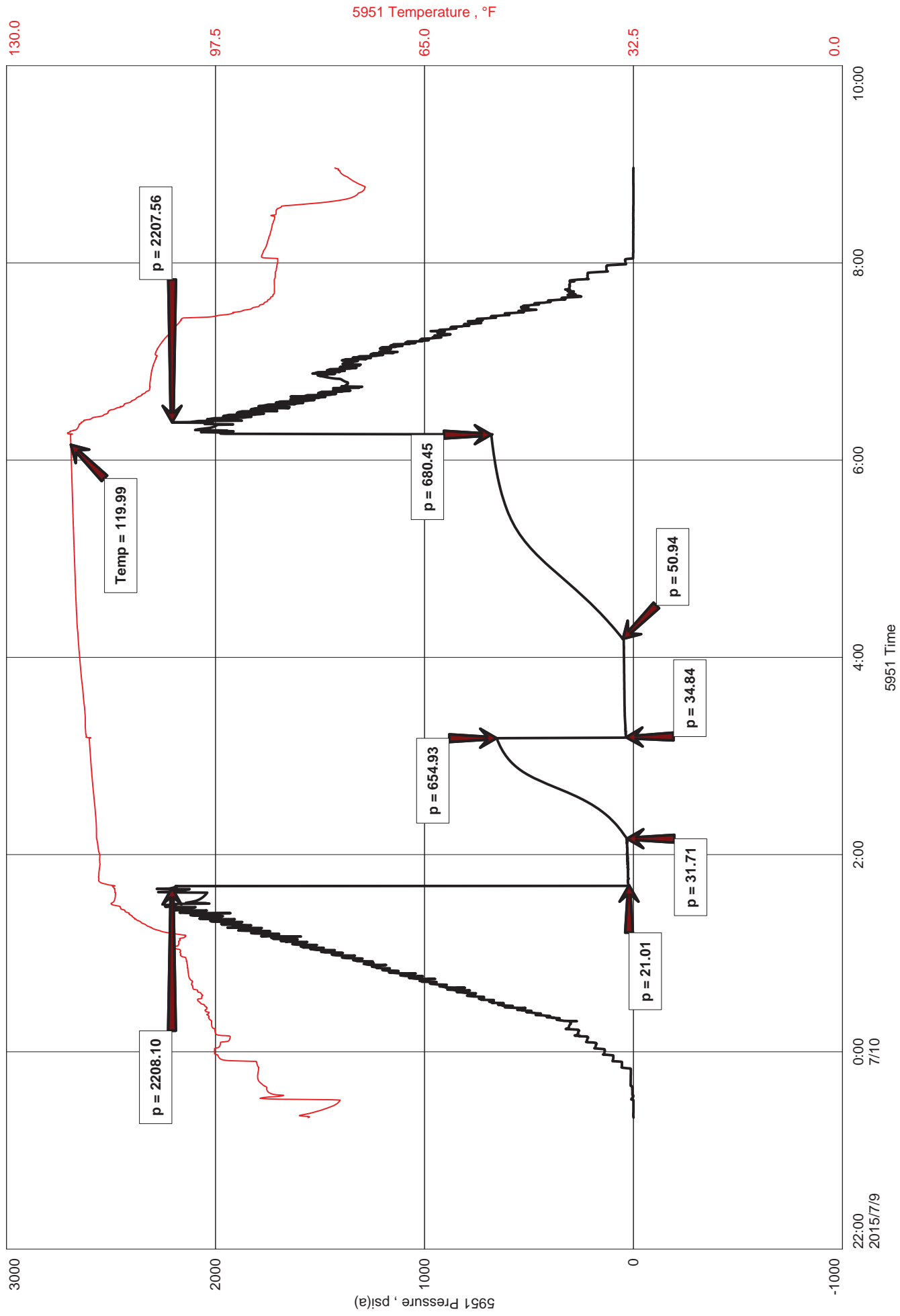
Price Job	
Other Charges	<u>J J JNT</u>
	<u>ShPKr X2</u>
	<u>78 MRT (60)</u>
Total	

Time Set Packer(s) 01:43 A.M. P.M. Time Started Off Bottom 06:13 A.M. P.M. Maximum Temperature 120°F

Initial Hydrostatic Pressure (A) 2208 P.S.I.
 Initial Flow Period Minutes 30 (B) 21 P.S.I. to (C) 32 P.S.I.
 Initial Closed In Period Minutes 60 (D) 655 P.S.I.
 Final Flow Period Minutes 60 (E) 35 P.S.I. to (F) 51 P.S.I.
 Final Closed In Period Minutes 120 (G) 680 P.S.I. Thanks
 Final Hydrostatic Pressure (H) 2207 P.S.I. [Signature]

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Powell #9-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST3

TIME ON: 23:20
TIME OFF: 08:58

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation LANSING "I" Effective Pay _____ Ft. Ticket No. F394
Date 7-10-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 3 Interval Tested from 4497 ft. to 4511 ft. Total Depth 4511 ft.
Packer Depth 4492 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Packer Depth 4497 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 4480 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4498 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 46 (4# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,600 P.P.M. Drill Pipe Length 3,846 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 14 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Blow increased to 4.5". No blowback.
2nd Open: Blow increased to 9". No blowback.

Recovered 40 ft. of SOCM 5% oil, 95% mud
Recovered _____ ft. of 150' GAS IN PIPE
Recovered _____ ft. of (tool sample: HOCM, 32% oil, 68% mud)

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 01:43 A.M. P.M. Time Started Off Bottom 06:13 A.M. P.M. Maximum Temperature 120 F

Initial Hydrostatic Pressure..... (A) 2208 P.S.I.
Initial Flow Period..... Minutes 30 (B) 21 P.S.I. to (C) 32 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 655 P.S.I.
Final Flow Period..... Minutes 60 (E) 35 P.S.I. to (F) 51 P.S.I.
Final Closed In Period..... Minutes 120 (G) 680 P.S.I.
Final Hydrostatic Pressure..... (H) 2207 P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	Kansas City "B" 4658'-4668'
Test Type	Bottom-Hole w/Jnt,ShPkr X 2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	8471
Start Test Date	2015/07/11
Start Test Time	11:15:00
Final Test Date	2015/07/11
Final Test Time	23:19:00
Job Number	F395
Contact	Evan Mayhew
Site Contact	Ed Grieves

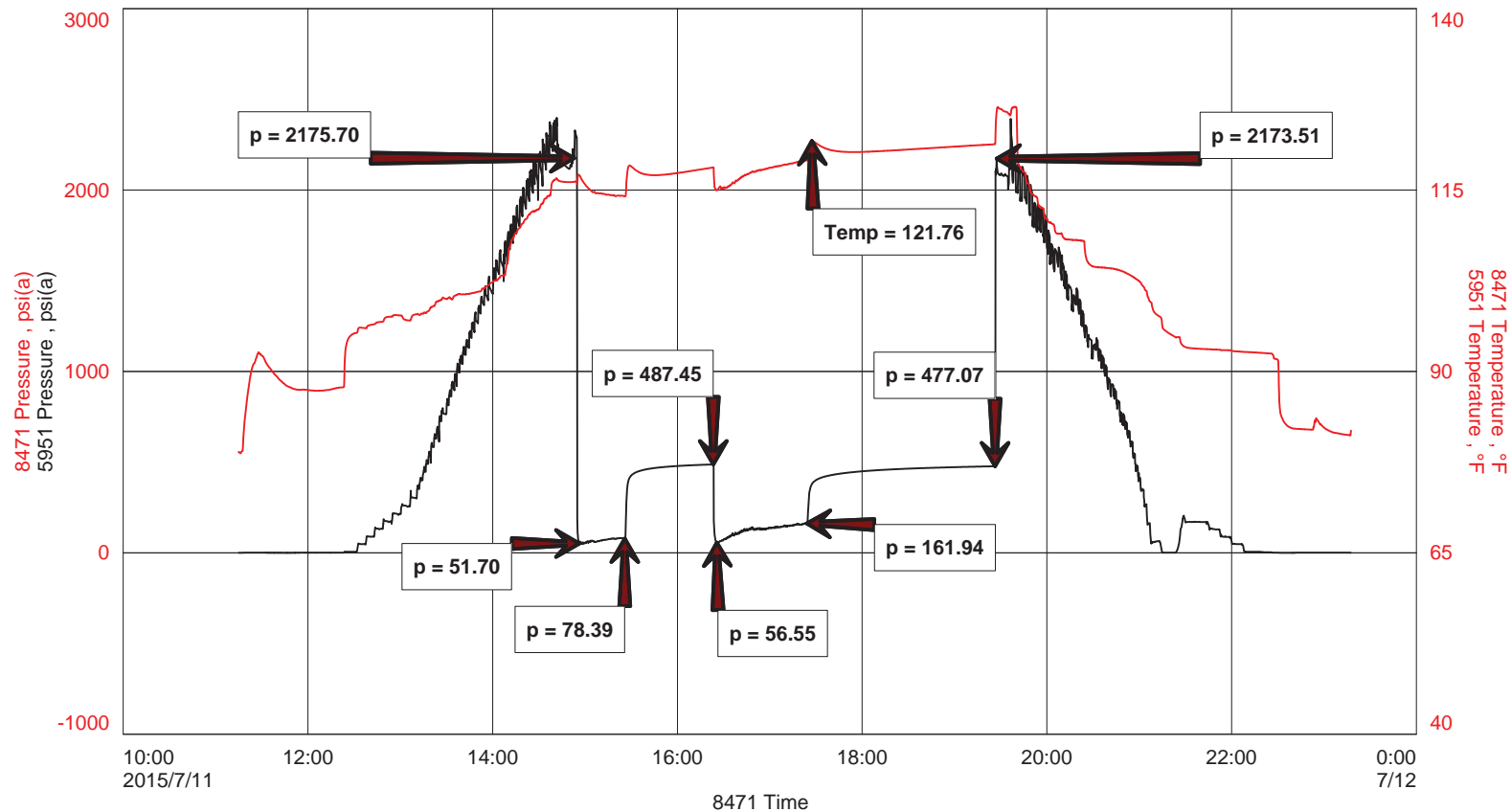
TEST RESULTS

Initial flow, BOB 10 seconds, GTS 7.5 minutes. Fair blowback at BOB.
 Final flow, BOB 30 seconds, guage gas. Strong blowback at BOB.

RECOVERED

20'	Gssy WC HMCO	20% gas, 40% oil, 10% wtr, 30% mud
380'	Gssy Oil	20% gas, 80% oil
50'	Gssy O&MCW	20% gas, 10% oil, 50% wtr, 20% mud
----	GRAVITY: 37.5 @ 60 F	
----	CHLORIDES: 99,000 PPM	
----	RW: .08 ohm @ 70 F	
----	PH: 7.0	

Powell #9-22





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: POWELL 9DST 4

ON LOCATION: 11:00
 START RECORDERS: 11:15
 STOP RECORDERS: 23:19

Company BEREXCO LLC Lease & Well No. POWELL #9-22
 Contractor BEREDCO LLC REG #1 Charge to BEREXCO LLC
 Elevation 2954' KB Formation KANSAS CITY "B" Effective Pay --- Ft. Ticket No. F395
 Date 7-11-15 Sec. 22 Twp. 29S Range 33W County HASKELL State KANSAS
 Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 4 Interval Tested from 4658 ft. to 4668 ft. Total Depth 4668 ft.
 Packer Depth 4653 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Packer Depth 4658 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 4641 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4659 ft. Recorder Number 8471 Cap. 10000 P.S.I.
 Below Straddle Recorder Depth --- ft. Recorder Number --- Cap. --- P.S.I.
 Mud Type CHEMICAL Viscosity 53 (3" LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length --- ft. I.D. 2 7/8 in.
 Chlorides 3600 P.P.M. Drill Pipe Length 4009 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 5 J.S. SHPKR X2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? GTS Reversed Out --- Anchor Length 10 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB 10 SEC, GTS 7 1/2 min. Blowback @ BOB (FAIR)
 2nd Open: BOB 30 SEC. GAUGE GAS. BLOWBACK @ BOB (STRONG)

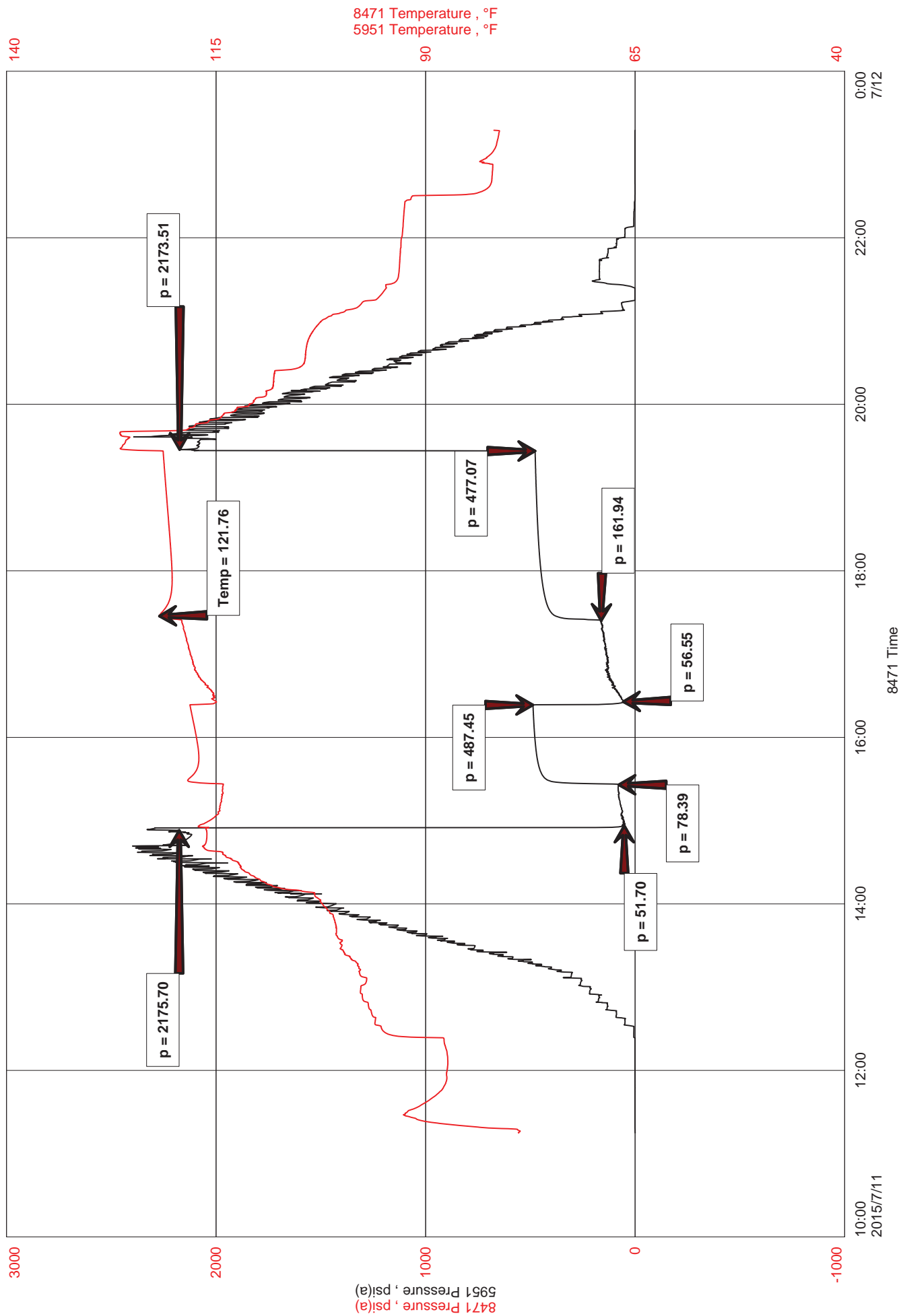
Recovered 20 ft. of Gassy WC HMCO 20" GAS, 40" OIL, 10" WTR, 30" MUD
 Recovered 380 ft. of GASSY OIL 20" GAS, 80" OIL
 Recovered 50 ft. of Gassy O & M CW 20" GAS, 10" OIL, 50" WTR, 20" MUD
 Recovered --- ft. of GRAVITY: 37 1/2 @ 60°F (2 HR STANDBY)
 Recovered --- ft. of CHLORIDES: 99,000 PPM Price Job
 Recovered --- ft. of RW: .08 SL @ 70°F Other Charges J, JNT
 Remarks: PH: 7.0 SH PKR X2
T8 MRT (GC)
 Total

Time Set Packer(s) 14:57 A.M. Time Started Off Bottom 19:27 A.M. Maximum Temperature 122°F
 P.M.

Initial Hydrostatic Pressure..... (A) 2176 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 52 P.S.I. to (C) 78 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 487 P.S.I.
 Final Flow Period..... Minutes 60 (E) 57 P.S.I. to (F) 162 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 477 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 2174 P.S.I. Jacob E Johnson

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Powell #9-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST4

TIME ON: 11:15
TIME OFF: 23:19

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation Kansas City "B" Effective Pay _____ Ft. Ticket No. F395
Date 7-11-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 4 Interval Tested from 4658 ft. to 4668 ft. Total Depth 4668 ft.
Packer Depth 4653 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Packer Depth 4658 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 4641 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4659 ft. Recorder Number 8741 Cap. 10000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 53 (3# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,600 P.P.M. Drill Pipe Length 4,009 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? GTS Reversed Out NO Anchor Length 10 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB 10 seconds. GTS 10 minutes. Fair blowback at BOB.
2nd Open: BOB 30 seconds. Guage gas. strong blowback at BOB.

Recovered 20 ft. of Gssy WC HMCO 20% gas, 40% oil, 10% wtr, 30% mud
Recovered 380 ft. of Gssy Oil 20% gas, 80% oil
Recovered 50 ft. of Gssy O&MCW 20% gas, 10% oil, 50% wtr, 20% mud

Recovered _____ ft. of <u>GRAVITY: 37.5 @ 60 F</u>	
Recovered _____ ft. of <u>CHLORIDES: 99,000 PPM</u>	Price Job
Recovered _____ ft. of <u>RW: .08 ohm @ 70 F</u>	Other Charges
Remarks: <u>PH: 7.0</u>	Insurance
	Total

Time Set Packer(s) 14:57 A.M. P.M. Time Started Off Bottom 19:27 A.M. P.M. Maximum Temperature 122 F

Initial Hydrostatic Pressure..... (A) 2176 P.S.I.
Initial Flow Period..... Minutes 30 (B) 52 P.S.I. to (C) 78 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 487 P.S.I.
Final Flow Period..... Minutes 60 (E) 57 P.S.I. to (F) 162 P.S.I.
Final Closed In Period..... Minutes 120 (G) 477 P.S.I.
Final Hydrostatic Pressure..... (H) 2174 P.S.I.

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DIAMOND TESTING



GAS RATE TICKET

Lease: Powell #9-22
Operator: Berexco LLC
Formation: Kansas City "B" 4658'-4668'
Field:
Location: Sec. 22 Twp. 29s Rge. 33w
County: Haskell **State:** Kansas

BOB 10 seconds, GTS 7.5 minutes. Fair blowback @ BOB
BOB 30 seconds, guage gas. Strong blowback @ BOB

Initial flow: 15 min-----.5" choke-----6.5 psi-----90,100 cf/d
30 min-----.5" choke-----4 psi-----68,800 cf/d

Final flow: 10 min-----.25" choke-----20 psi-----47,100 cf/d
20 min-----.25" choke-----18 psi-----43,900 cf/d
30 min-----.25" choke-----16.5 psi---41,650 cf/d
40 min-----.25" choke-----16 psi-----40,900 cf/d
50 min-----.25" choke-----16 psi-----40,900 cf/d
60 min-----.25" choke-----16 psi-----40,900 cf/d

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	Upper Marmaton 4780'-4800'
Test Type	Bottom-Hole w/J,Jnt,ShPkr X2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	5951
Start Test Date	2015/07/12
Start Test Time	20:32:00
Final Test Date	2015/07/13
Final Test Time	07:16:00
Job Number	F396
Contact	Evan Mayhew
Site Contact	Ed Grieves

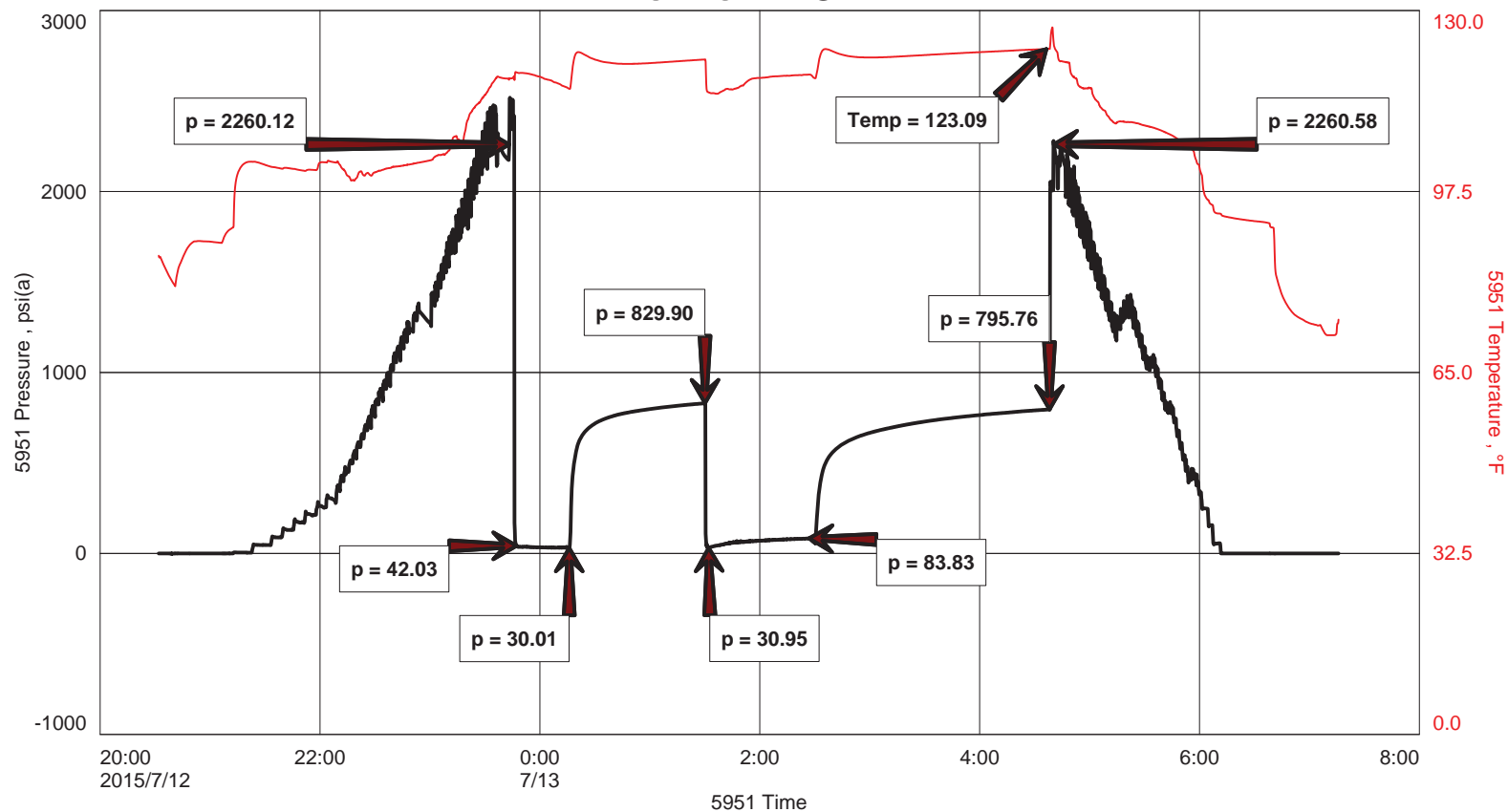
TEST RESULTS

Initial flow, BOB 15 seconds, GTS 8.5 minutes. No blowback.
 Final flow, BOB 10 seconds, Guage gas. No blowback.

Recovered:

30'	GCM	15% gas, 85% mud
30'	GCO	10% gas, 90% oil
-----		37 gravity @ 60 F

Powell #9-22



DIAMOND TESTING



GAS RATE TICKET

Lease: Powell #9-22
Operator: Berexco LLC
Formation: Upper Marmaton 4780'-4800' (DST #5)
Field:
Location: Sec. 22 Twp. 29s Rge. 33w
County: Haskell **State:** Kansas

Initial flow, BOB 15 seconds, GTS 8.5 minutes. No blowback.
Final flow, BOB 10 seconds. No blowback.

*** Gas sample taken.

Final flow period.

*** 10 min	----- .125" choke	----- 20psi	----- 14,600cf/d
20 min	----- .125" choke	----- 28psi	----- 18,200cf/d
30 min	----- .125" choke	----- 35psi	----- 21,200cf/d
40 min	----- .125" choke	----- 37psi	----- 22,100cf/d
50 min	----- .125" choke	----- 37.5psi	----- 22,300cf/d
60 min	----- .125" choke	----- 38psi	----- 22,500cf/d



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST5

TIME ON: 20:32 7-12-15
TIME OFF: 07:16 7-13-15

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation Upper Marmaton Effective Pay _____ Ft. Ticket No. F396
Date 7-12-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 5 Interval Tested from 4780 ft. to 4800 ft. Total Depth 4800 ft.
Packer Depth 4775 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Packer Depth 4780 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 4763 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4781 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 63 (2# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,100 P.P.M. Drill Pipe Length 4,131 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? GTS Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB 15 seconds, GTS 8.5 minutes. No blowback.

2nd Open: BOB 10 seconds, Guage gas. No blowback.

Recovered 30 ft. of GCM 15% gas, 85% mud

Recovered 30 ft. of GCO 10% gas, 90% oil

Recovered _____ ft. of 37 gravity @ 60 F

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 23:58 A.M. P.M. Time Started Off Bottom 04:28 A.M. P.M. Maximum Temperature 123 F

Initial Hydrostatic Pressure..... (A) 2260 P.S.I.
Initial Flow Period..... Minutes 30 (B) 42 P.S.I. to (C) 30 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 830 P.S.I.
Final Flow Period..... Minutes 60 (E) 31 P.S.I. to (F) 84 P.S.I.
Final Closed In Period..... Minutes 120 (G) 796 P.S.I.
Final Hydrostatic Pressure..... (H) 2261 P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

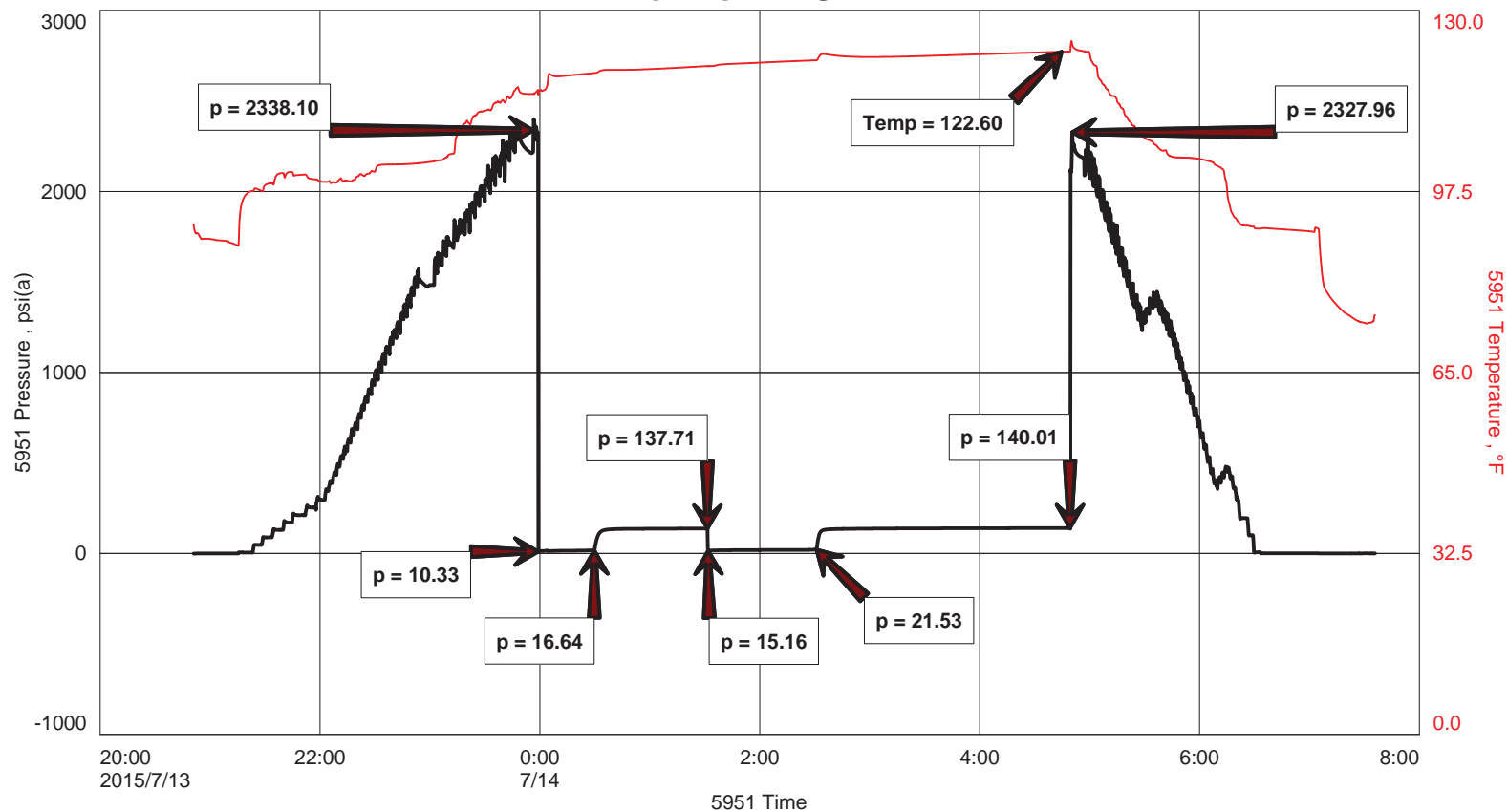
Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	Lower Marmaton 4804'-4821'
Test Type	Bottom-Hole w/J,Jnt,ShPkr X 2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	5951
Start Test Date	2015/07/13
Start Test Time	20:51:00
Final Test Date	2015/07/14
Final Test Time	07:37:00
Job Number	F397
Contact	Evan Mayhew
Site Contact	Ed Grieves

TEST RESULTS

Initial flow period, strong blow at BOB in 16 minutes. No blowback.
 Final flow period, strong blow at BOB in 3 minutes. No blowback.

Recovered 30' of DRLG MUD
 2700' Gas In Pipe

Powell #9-22





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: POWELL 9D5TG

ON LOCATION:	<u>20:35</u>
START RECORDERS:	<u>20:51</u>
STOP RECORDERS:	<u>07:37</u>

Company BEREXCO LLC Lease & Well No. POWELL #9-22
 Contractor BEREXCO LLC REG #1 Charge to BEREXCO LLC
 Elevation 2954' NB Formation LOWER NARM. Effective Pay --- Ft. Ticket No. F397
 Date 7-14-15 Sec. 22 Twp. 29S Range 33W County HASKELL State KANSAS
 Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 6 Interval Tested from 4804 ft. to 4821 ft. Total Depth 4821 ft.
 Packer Depth 4799 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Packer Depth 4804 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 4788 ft. Recorder Number 5957 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4805 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth --- ft. Recorder Number --- Cap. --- P.S.I.

Mud Type CHEMICAL Viscosity 58 (2" ICM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 9.6 cc. Weight Pipe Length --- ft. I.D. 2 7/8 in.
 Chlorides 5600 P.P.M. Drill Pipe Length 4155 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J.J. 54 PK XZ Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? --- Reversed Out --- Anchor Length 17 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW @ BOB IN 16 MINUTES. NO BLOWBACK.
 2nd Open: STRONG BLOW @ BOB IN 3 MINUTES. NO BLOWBACK.

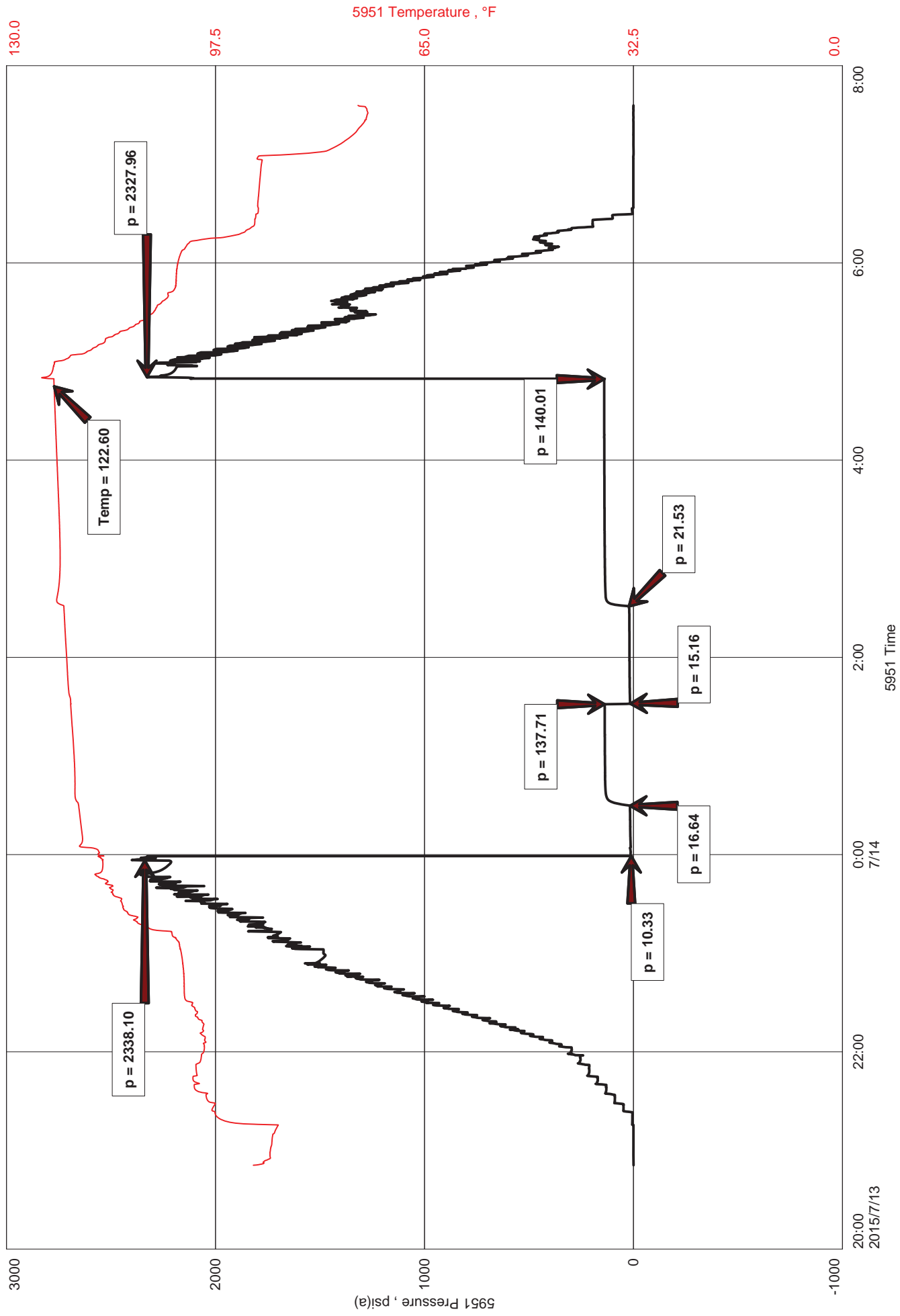
Recovered 30 ft. of DRUG MUD
 Recovered --- ft. of 2700' GAS IN PIPE
 Recovered --- ft. of ---
 Recovered --- ft. of ---
 Recovered --- ft. of ---
 Recovered --- ft. of ---
 Remarks: ---
 (1 HR STANDBY)
 Price Job
 Other Charges J, J
56 PK XZ
78 MRT (GC)
 Total

Time Set Packer(s) 00:02 A.M. P.M. Time Started Off Bottom 04:32 A.M. P.M. Maximum Temperature 123°F

Initial Hydrostatic Pressure..... (A) 2338 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 17 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 138 P.S.I.
 Final Flow Period..... Minutes 60 (E) 15 P.S.I. to (F) 22 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 140 P.S.I. Thank you!
 Final Hydrostatic Pressure..... (H) 2328 P.S.I. Jake & Jim

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Powell #9-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST6

TIME ON: 20:51 7-13-15
TIME OFF: 07:37 7-14-15

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation Lower Marmaton Effective Pay _____ Ft. Ticket No. F397
Date 7-14-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 6 Interval Tested from 4804 ft. to 4821 ft. Total Depth 4821 ft.
Packer Depth 4799 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Packer Depth 4804 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 4788 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4805 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.

Mud Type CHEMICAL Viscosity 58 (2# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,600 P.P.M. Drill Pipe Length 4,155 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 17 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow at BOB in 16 minutes. No blowback.
2nd Open: Strong blow at BOB in 3 minutes. No blowback.

Recovered <u>30</u> ft. of <u>DRLG MUD</u>	
Recovered _____ ft. of <u>2700' GAS IN PIPE</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) 00:02 A.M. P.M. Time Started Off Bottom 04:32 A.M. P.M. Maximum Temperature 123 F
Initial Hydrostatic Pressure..... (A) 2338 P.S.I.
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 138 P.S.I.
Final Flow Period..... Minutes 60 (E) 15 P.S.I. to (F) 22 P.S.I.
Final Closed In Period..... Minutes 120 (G) 140 P.S.I.
Final Hydrostatic Pressure..... (H) 2328 P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

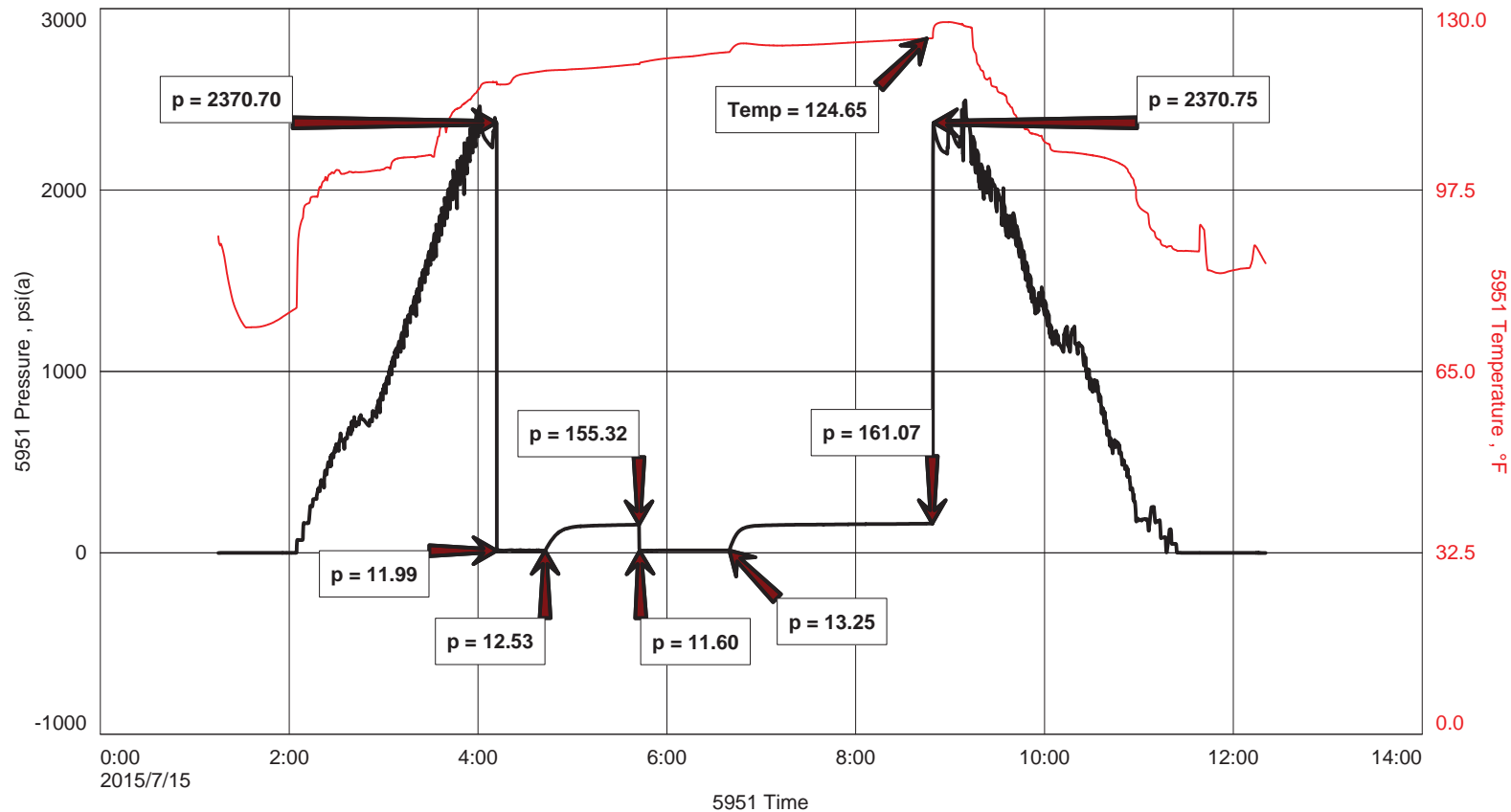
Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	Pawnee 4878'-4890'
Test Type	Bottom-Hole w/J,Jnt,ShPkr X 2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	5951
Start Test Date	2015/07/15
Start Test Time	01:15:00
Final Test Date	2015/07/15
Final Test Time	12:21:00
Job Number	F398
Contact	Evan Mayhew
Site Contact	Ed Grieves

TEST RESULTS

Initial flow, weak blow, increased to 7" in bucket. No blowback.
 Final flow, strong blow, increased to BOB in 15 minutes. No blowback.

Recovered 25' of SOSM, 1% oil, 99% mud
 1,250' GAS IN PIPE

Powell #9-22





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: POWELL9DST7

ON LOCATION: 00:30
 START RECORDERS: 01:15
 STOP RECORDERS: 12:21

Company BEREXCO LLC Lease & Well No. POWELL #9-22
 Contractor BEREXCO LLC RIG #1 Charge to BEREXCO LLC
 Elevation 2954' NB Formation PAWNEE Effective Pay --- Ft. Ticket No. F398
 Date 7-15-15 Sec. 22 Twp. 29S Range 33W County HASKELL State KANSAS
 Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 7 Interval Tested from 4878 ft. to 4890 ft. Total Depth 4890 ft.
 Packer Depth 4873 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Packer Depth 4878 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 4863 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4879 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth --- ft. Recorder Number --- Cap. --- P.S.I.

Mud Type CHEMICAL Viscosity 57 (2" LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 9.0 cc. Weight Pipe Length --- ft. I.D. 2 7/8 in.
 Chlorides 4800 P.P.M. Drill Pipe Length 4229 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J, JNT, SHPRK X 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 12 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK BLOW, INCREASED TO 7" NO BLOWBACK.
 2nd Open: FAIR BLOW, INCREASED TO 80.13 IN 15 MINUTES. NO BLOWBACK.

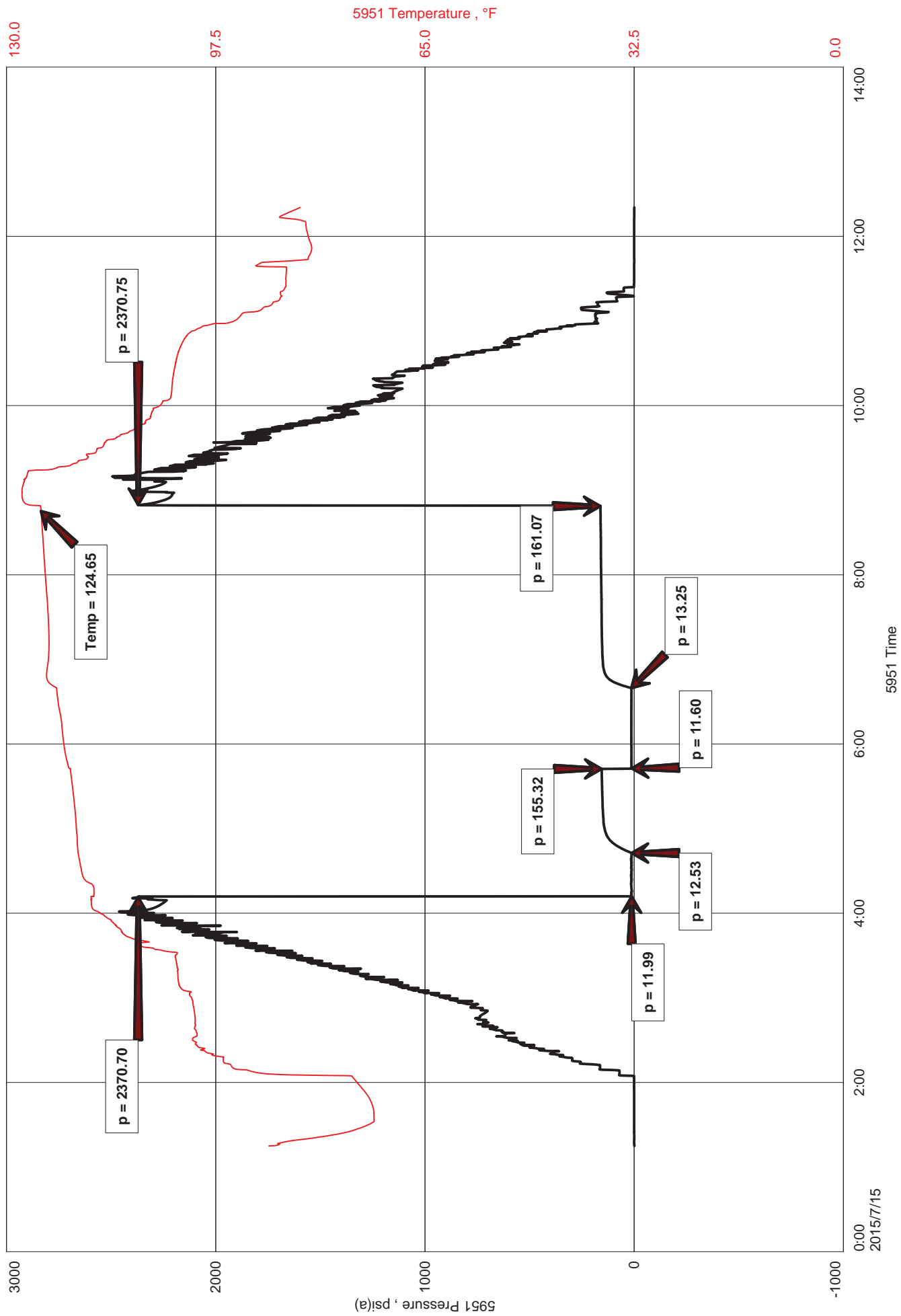
Recovered 25 ft. of SOSM 1" OIL, 99" MUD
 Recovered --- ft. of 1250' GAS IN PIPE
 Recovered --- ft. of ---
 Recovered --- ft. of ---
 Recovered --- ft. of ---
 Recovered --- ft. of ---
 Remarks: SHPRK X 2
78 MRT (GC)
 Total

Time Set Packer(s) 04:15 A.M. P.M. Time Started Off Bottom 08:45 A.M. P.M. Maximum Temperature 125° F

Initial Hydrostatic Pressure..... (A) 2371 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 13 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 155 P.S.I.
 Final Flow Period..... Minutes 60 (E) 12 P.S.I. to (F) 13 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 161 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 2371 P.S.I. Jake Fahrenbruch

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Powell #9-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST7

TIME ON: 01:15
TIME OFF: 12:21

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation Pawnee Effective Pay _____ Ft. Ticket No. F398
Date 7-15-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 7 Interval Tested from 4878 ft. to 4890 ft. Total Depth 4890 ft.
Packer Depth 4873 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Packer Depth 4878 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 4863 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4879 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.

Mud Type CHEMICAL Viscosity 57 (2# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,800 P.P.M. Drill Pipe Length 4,229 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 12 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, increased to 7" in bucket. No blowback.
2nd Open: Strong blow, increased to BOB in 15 minutes. No blowback.

Recovered 25 ft. of SOSM 1% oil, 99% mud
Recovered _____ ft. of 1,250' GAS IN PIPE
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 04:15 A.M. P.M. Time Started Off Bottom 08:45 A.M. P.M. Maximum Temperature 125 F

Initial Hydrostatic Pressure..... (A) 2371 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 155 P.S.I.
Final Flow Period..... Minutes 60 (E) 12 P.S.I. to (F) 13 P.S.I.
Final Closed In Period..... Minutes 120 (G) 161 P.S.I.
Final Hydrostatic Pressure..... (H) 2371 P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	Atoka 5054'-5104'
Test Type	Bottom-Hole w/J,Jnt,ShPkr X 2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	5951
Start Test Date	2015/07/16
Start Test Time	22:30:00
Final Test Date	2015/07/17
Final Test Time	09:21:00
Job Number	F399
Contact	Evan Mayhew
Site Contact	Ed Grieves

TEST RESULTS

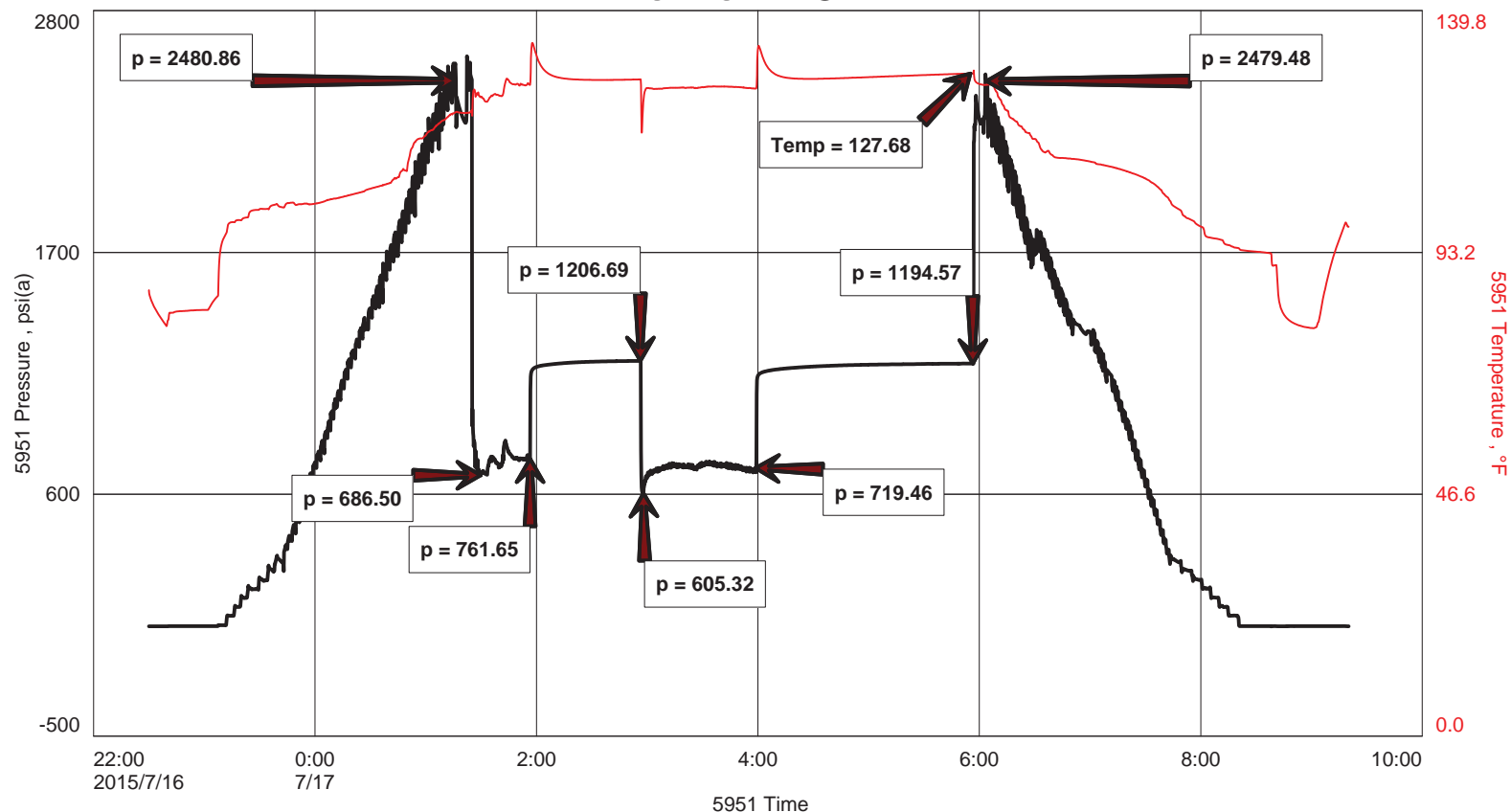
Initial flow, very strong blow, BOB 15 seconds, GTS 3 minutes. Blowback increased to 10".
 Final flow, guage gas, fogging mud in 5 minutes, mud changed to water at end of flow period. Recovered a sample at the end of the flow period. Blowback increased to 10".

Flowing sample: MCW w/tr Oil, >1% oil, <89% wtr, 10% mud (chlorides = 108,000 ppm, PH: 7.5, RW:.075ohm@70F)

TOTAL FLUID RECOVERED: 650'

20'	Watery Oil	65% oil, 35% wtr
180'	SOCW	5% oil, 95% wtr
450'	Water	100% wtr

Powell #9-22





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: POWELL9DST8

ON LOCATION:	<u>21:51</u>
START RECORDERS:	<u>22:30</u>
STOP RECORDERS:	<u>09:21</u>

Company BEREXCO LLC Lease & Well No. POWELL #9-22
 Contractor BEREXCO LLC RIG #1 Charge to BEREXCO LLC
 Elevation 2954' KB Formation ATOKA Effective Pay _____ Ft. Ticket No. F399
 Date 7-17-15 Sec. 22 Twp. 29S Range 33W County HASKELL State KANSAS
 Test Approved By ED CATEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 8 Interval Tested from 5054 ft. to 5104 ft. Total Depth 5104 ft.
 Packer Depth 5049 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 5054 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5037 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 5040 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 60+ (4*LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 10.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 4800 P.P.M. Drill Pipe Length 4405 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number #5J, JMT, SHPKR X2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? GTS Reversed Out _____ Anchor Length 50 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. 178 PERF IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: VERY STRONG BLOW. BOB 15 SEC. GTS 3 MIN. BLOWBACK @ 10"
 2nd Open: GUAGE GAS, FOG MUD @ 5 MIN, MUD CHANGED TO WATER @ END OF FLOW, RECOVERED SAMPLE. BLOWBACK @ 10"

Recovered _____ ft. of FLOWING SAMPLE: MCW W/TR OIL < 1" OIL, 78% WTR, 10% MUD
 Recovered 20 ft. of WTRY OIL 65" OIL, 35" WTR
 Recovered 180 ft. of SUCW 5" OIL, 95" WTR
 Recovered 450 ft. of WATER 100% WTR (1/2 HR STAND BY)
 Recovered _____ ft. of _____ RW: .075 @ 70°F Price Job _____
 Recovered _____ ft. of _____ PH: 7.5 Other Charges J, JMT

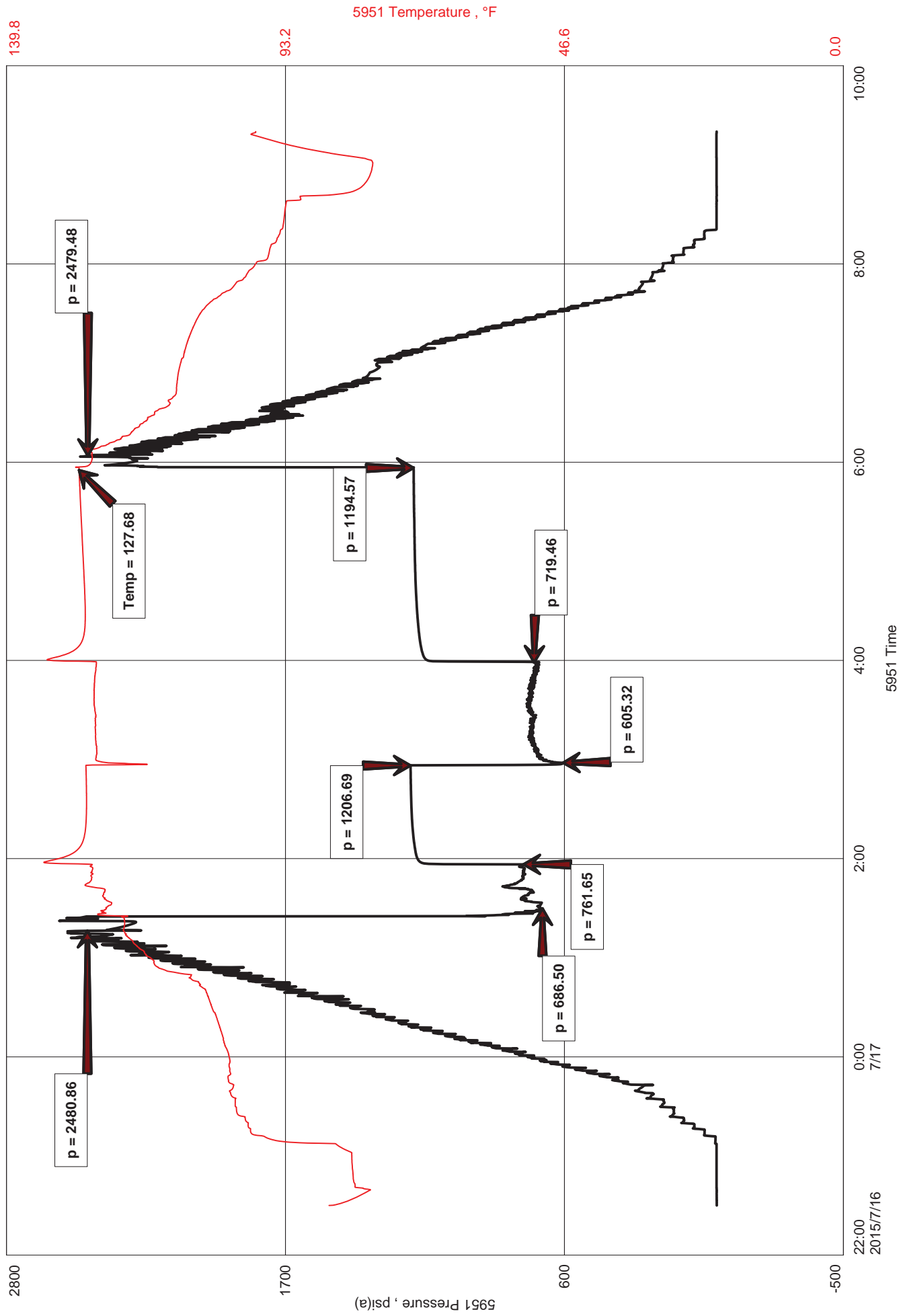
Remarks: TOTAL FLUID RECOVERED: 650' SH PKR X2
78 MRT (GC)
CHLORIDES: 108,000 PPM Total _____

Time Set Packer(s) 01:27 A.M. P.M. Time Started Off Bottom 05:57 A.M. P.M. Maximum Temperature 128°F

Initial Hydrostatic Pressure..... (A) 2481 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 687 P.S.I. to (C) 762 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 1207 P.S.I.
 Final Flow Period..... Minutes 60 (E) 605 P.S.I. to (F) 719 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 1195 P.S.I. Thank you!
 Final Hydrostatic Pressure..... (H) 2479 P.S.I. [Signature]

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Powell #9-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST8

TIME ON: 22:30 7-16-15
TIME OFF: 09:21 7-17-15

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation Atoka Effective Pay _____ Ft. Ticket No. F399
Date 7-17-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 8 Interval Tested from 5054 ft. to 5104 ft. Total Depth 5104 ft.
Packer Depth 5049 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 5054 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5037 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 5060 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 60+ (4# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,800 P.P.M. Drill Pipe Length 4,405 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? GTS Reversed Out NO Anchor Length 50 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{17' PERF IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Very strong blow @ BOB in 15 seconds. GTS 3 minutes. Blowback @ 10".
2nd Open: Guage gas, fog mud @ 5 min, mud changed to water @ end of flow. BB @ 10".

Recovered _____ ft. of Recovered flowing sample at end of flow period; MCW w/TR Oil (>1%o, <89%w, 10% m)
Recovered 20 ft. of Watery Oil 65% oil, 35% wtr
Recovered 180 ft. of SOCW 5% oil, 95% wtr
Recovered 450 ft. of Water 100% wtr

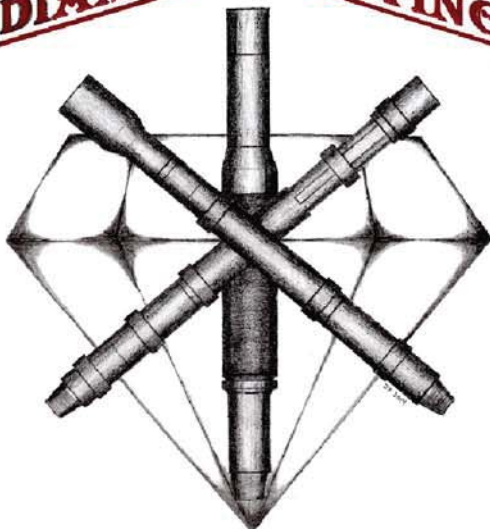
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL RECOVERED FLUID: 650'</u>	Insurance
<u>Chlorides: 108,000 ppm</u>	
<u>RW: .075 ohm @ 70 F</u> <u>PH: 7.5</u>	Total

Time Set Packer(s) 01:27 A.M. P.M. Time Started Off Bottom 05:57 A.M. P.M. Maximum Temperature 128 F

Initial Hydrostatic Pressure..... (A) 2481 P.S.I.
Initial Flow Period..... Minutes 30 (B) 687 P.S.I. to (C) 762 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1207 P.S.I.
Final Flow Period..... Minutes 60 (E) 605 P.S.I. to (F) 719 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1195 P.S.I.
Final Hydrostatic Pressure..... (H) 2479 P.S.I.

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DIAMOND TESTING



GAS RATE TICKET

Lease: Powell #9-22
Operator: Berexco LLC
Formation: Atoka 5054'-5104'
Field:
Location: Sec. 22 Twp. 29s Rge. 33W
County: Haskell **State:** Kansas

Initial flow, very strong blow @ BOB in 15 seconds, GTS 3 min.

Final flow, guage gas, fogging mud @ 5 min, mud changed to water at end of flow period.

Fluid sample while flowing, MCW w/tr Oil, >1%o,<89%w,10%m

INITIAL FLOW:

10 min ----- .75" choke ----- 225 psi ----- 2,773,500 cf/day
*** 20 min ----- .75" choke ----- 220 psi ----- 2,716,000 cf/day *** GAS SAMPLE TAKEN ***
30 min ----- .75" choke ----- 230 psi ----- 2,831,000 cf/day

FINAL FLOW:

10 min ----- 1.25" choke ----- 57 psi ----- 2,594,000 cf/day
20 min ----- 1.25" choke ----- 68 psi ----- 2,991,000 cf/day
30 min ----- 1.25" choke ----- 65 psi ----- 2,883,000 cf/day
40 min ----- 1.25" choke ----- 72 psi ----- 3,135,000 cf/day (max flow rate)
50 min ----- 1.25" choke ----- 70 psi ----- 3,063,000 cf/day
60 min ----- 1.25" choke ----- 70 psi ----- 3,063,000 cf/day (fluid sample taken)

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

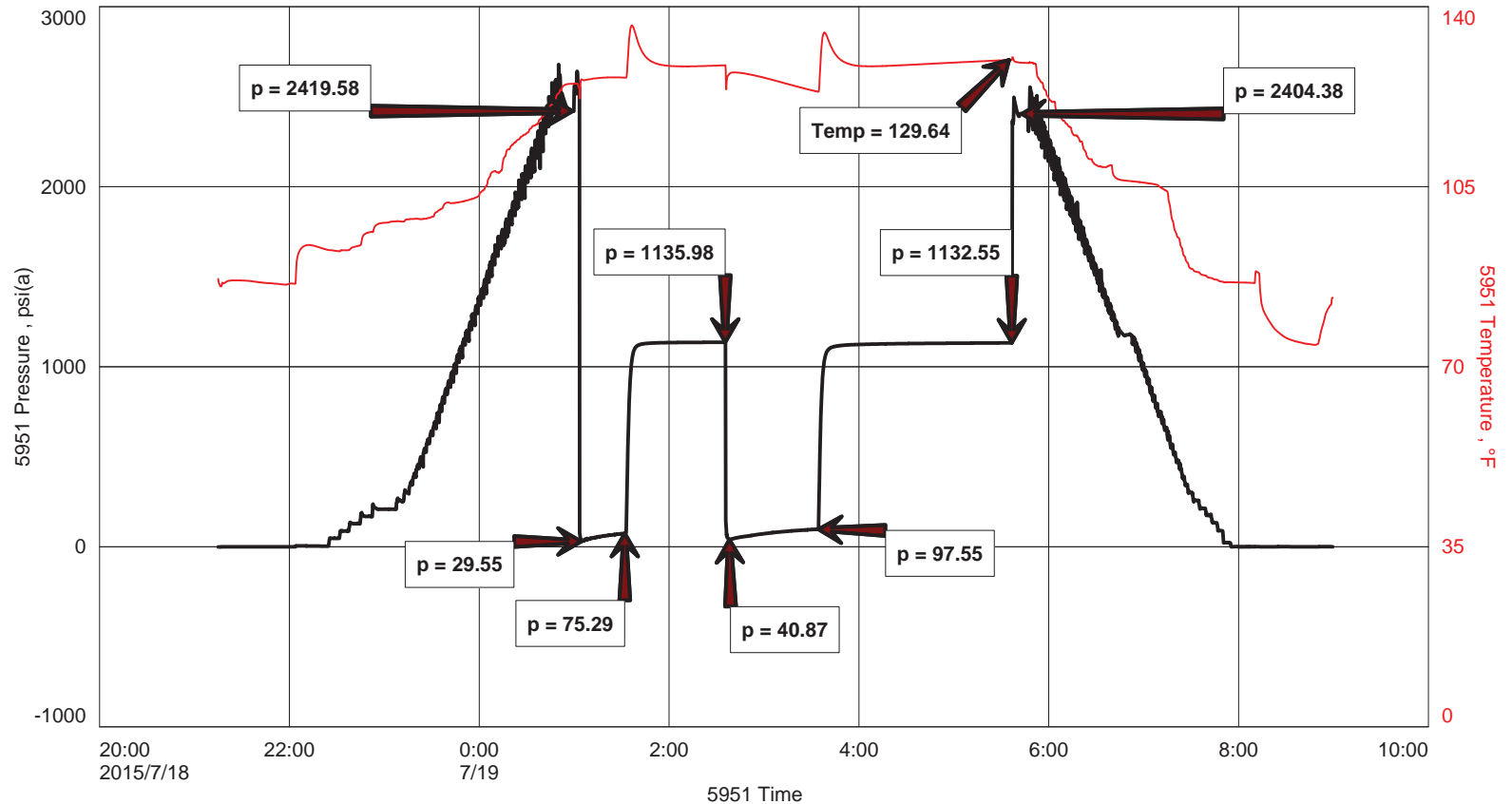
Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	Morrow 5238'-5270'
Test Type	Bottom-Hole w/J,Jnt,ShPkr X 2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	5951
Start Test Date	2015/07/18
Start Test Time	21:15:00
Final Test Date	2015/07/19
Final Test Time	09:01:00
Job Number	F400
Contact	Evan Mayhew
Site Contact	Ed Grieves

TEST RESULTS

Initial flow, strong blow @ BOB in 1 minute, GTS in 22 minutes. No blowback.
Final flow, strong blow @ BOB in 10 seconds, guage gas. No blowback.

Recovered 30' SOSGCM 15% gas, <1% oil, >84% mud

Powell #9-22





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: POWERL 9DST 9

ON LOCATION: 20:00 7-18
 START RECORDERS: 21:15 7-18
 STOP RECORDERS: 09:01 7-19

Company BEREXCO LLC Lease & Well No. POWERL #9-22
 Contractor BEREXO LLC REG #1 Charge to BEREXCO LLC
 Elevation 2954' NB Formation MORROW Effective Pay _____ Ft. Ticket No. F400
 Date 7-19-15 Sec. 22 Twp. 29S Range 33N County HASKELL State KANSAS
 Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 9 Interval Tested from 5238 ft. to 5270 ft. Total Depth 5270 ft.
 Packer Depth 5233 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 5238 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5221 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 5239 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 (6" LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 6400 P.P.M. Drill Pipe Length 4589 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number JJ, ShPkr x2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? GTS Reversed Out _____ Anchor Length 32 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" X H in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW @ BOB IN 1 MINUTE. GTS 22 MINUTES. NO BLOWBACK
 2nd Open: STRONG BLOW @ BOB IN 10 SECONDS. GAUGE GAS. NO BLOWBACK

Recovered 30 ft. of SOS GCM 15" GAS, 1" OIL, 84" MWD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

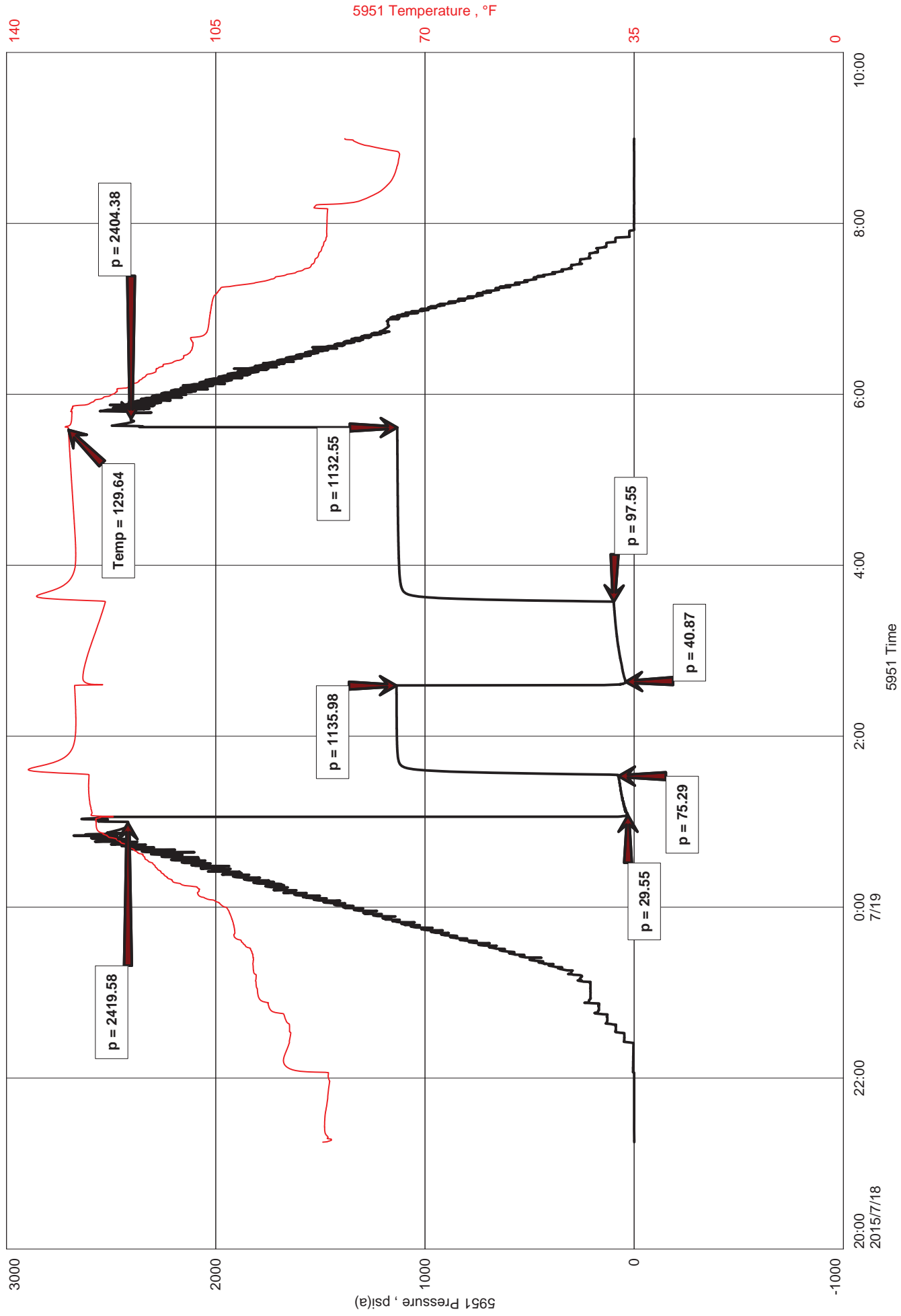
Recovered _____ ft. of _____ (24HR STANDBY)
 Recovered _____ ft. of _____ Price Job _____
 Recovered _____ ft. of _____ Other Charges JJ
 Remarks: _____ ShPkr x2
 _____ 78 MART(GC)
 Total _____

Time Set Packer(s) 01:06 A.M. P.M. Time Started Off Bottom 05:36 A.M. P.M. Maximum Temperature 130°F

Initial Hydrostatic Pressure..... (A) 2420 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 30 P.S.I. to (C) 75 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 1136 P.S.I.
 Final Flow Period..... Minutes 60 (E) 41 P.S.I. to (F) 98 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 1133 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 2404 P.S.I. Jake Fahrenbruch

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Powell #9-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST9

TIME ON: 21:15 7-18-15
TIME OFF: 09:01 7-19-15

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation Morrow Effective Pay _____ Ft. Ticket No. F400
Date 7-19-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 9 Interval Tested from 5238 ft. to 5270 ft. Total Depth 5270 ft.
Packer Depth 5233 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 5238 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5221 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 5239 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 (6# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 8. cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 6,400 P.P.M. Drill Pipe Length 4,589 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? GTS Reversed Out NO Anchor Length 32 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow @ BOB in 1 minute. GTS in 22 minutes. No blowback.

2nd Open: Strong blow @ BOB in 10 seconds. Guage gas. No blowback.

Recovered <u>30</u> ft. of <u>SOSGCM</u>	<u>15% gas, <1% oil, >84% mud</u>
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) 01:06 A.M. P.M. Time Started Off Bottom 05:36 A.M. P.M. Maximum Temperature 130 F

Initial Hydrostatic Pressure..... (A) 2420 P.S.I.
Initial Flow Period..... Minutes 30 (B) 30 P.S.I. to (C) 75 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1136 P.S.I.
Final Flow Period..... Minutes 60 (E) 41 P.S.I. to (F) 98 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1133 P.S.I.
Final Hydrostatic Pressure..... (H) 2404 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING



GAS RATE TICKET

Lease: Powell #9-22
Operator: Berexco LLC
Formation: Morrow 5238'-5270'
Field:
Location: Sec. 22 Twp. 29s Rge. 33w
County: Haskell **State:** Kansas

Initial flow, strong blow @ BOB in 1 minute.
Gas to surface in 22 minutes.
No blowback.
Final flow, strong blow @ BOB in 10 seconds.
Guage gas.
No blowback.

INITIAL FLOW:

22 min ----- 30 psi ----- .25" choke ----- 61,900 cf/day
30 min ----- 35 psi ----- .25" choke ----- 69,000 cf/day

FINAL FLOW:

10 min ----- 22 psi ----- .25" choke ----- 50,200 cf/day
20 min ----- 37 psi ----- .25" choke ----- 71,800 cf/day
30 min ----- 48 psi ----- .25" choke ----- 86,800 cf/day GAS SAMPLE TAKEN***
40 min ----- 56 psi ----- .25" choke ----- 98,100 cf/day
50 min ----- 63 psi ----- .25" choke ----- 107,800 cf/day
60 min ----- 70 psi ----- .25" choke ----- 117,500 cf/day

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

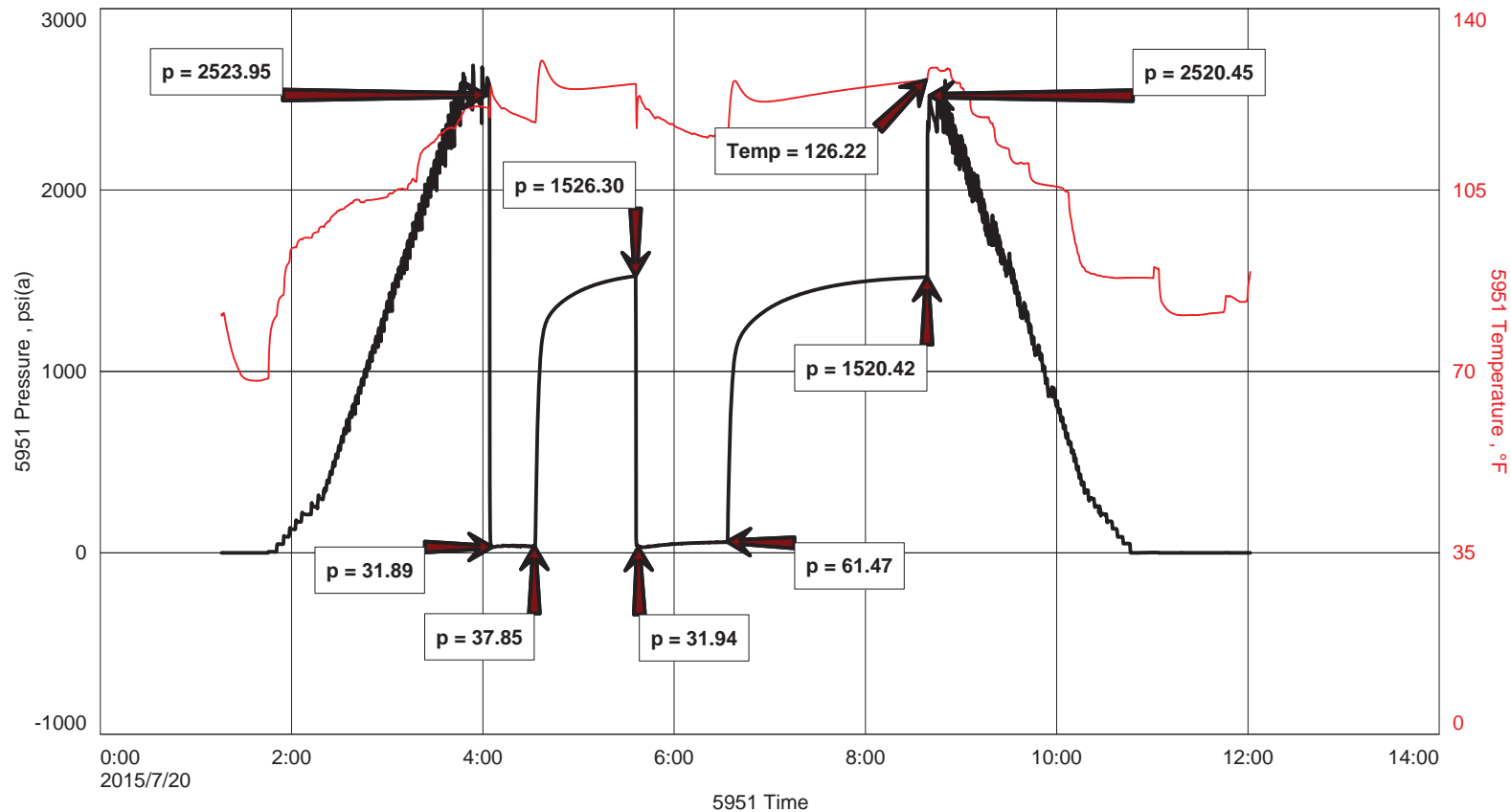
Well Name	Powell #9-22
Company Name	Berexco LLC
Formation	DST #10, Morrow, 5305'-5330'
Test Type	Bottom-Hole w/J,Jnt,ShPkr X 2
Surface Location	Sec 22-29s-33w-Haskell Co.-KS
KB Elevation (SL)	2954.000
Gauge Name	5951
Start Test Date	2015/07/20
Start Test Time	01:16:00
Final Test Date	2015/07/20
Final Test Time	12:03:00
Job Number	F401
Contact	Evan Mayhew
Site Contact	Ed Grieves

TEST RESULTS

Initial flow, strong blow, BOB 20 seconds, GTS 9 minutes. No blowback.
Final flow, strong blow, BOB 5 seconds, guage gas. No blowback.

Recovered 5' of GCM 10% gas, 90% mud

Powell #9-22





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: POWELL 9DST10

ON LOCATION:	<u>01:15</u>
START RECORDERS:	<u>01:16</u>
STOP RECORDERS:	<u>12:03</u>

Company BEREXCO LLC Lease & Well No. POWELL #9-22
 Contractor BEREXCO LLC REG #1 Charge to BEREXCO LLC
 Elevation 2954' KB Formation MORROW Effective Pay _____ Ft. Ticket No. F401
 Date 7-20-15 Sec. 22 Twp. 29S Range 33W County HASKELL State KANSAS
 Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 10 Interval Tested from 5305 ft. to 5330 ft. Total Depth 5330 ft.
 Packer Depth 5300 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 5305 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5288 ft. Recorder Number 5957 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 5306 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 56 (6" UCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 6500 P.P.M. Drill Pipe Length 4656 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number JJ, SHPKX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? GTS Reversed Out _____ Anchor Length 25 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW, BOB 20 SEC, GTS 9 MIN, NO BB
 2nd Open: STRONG BLOW, BOB 6 SEC, GUAGE GAS.

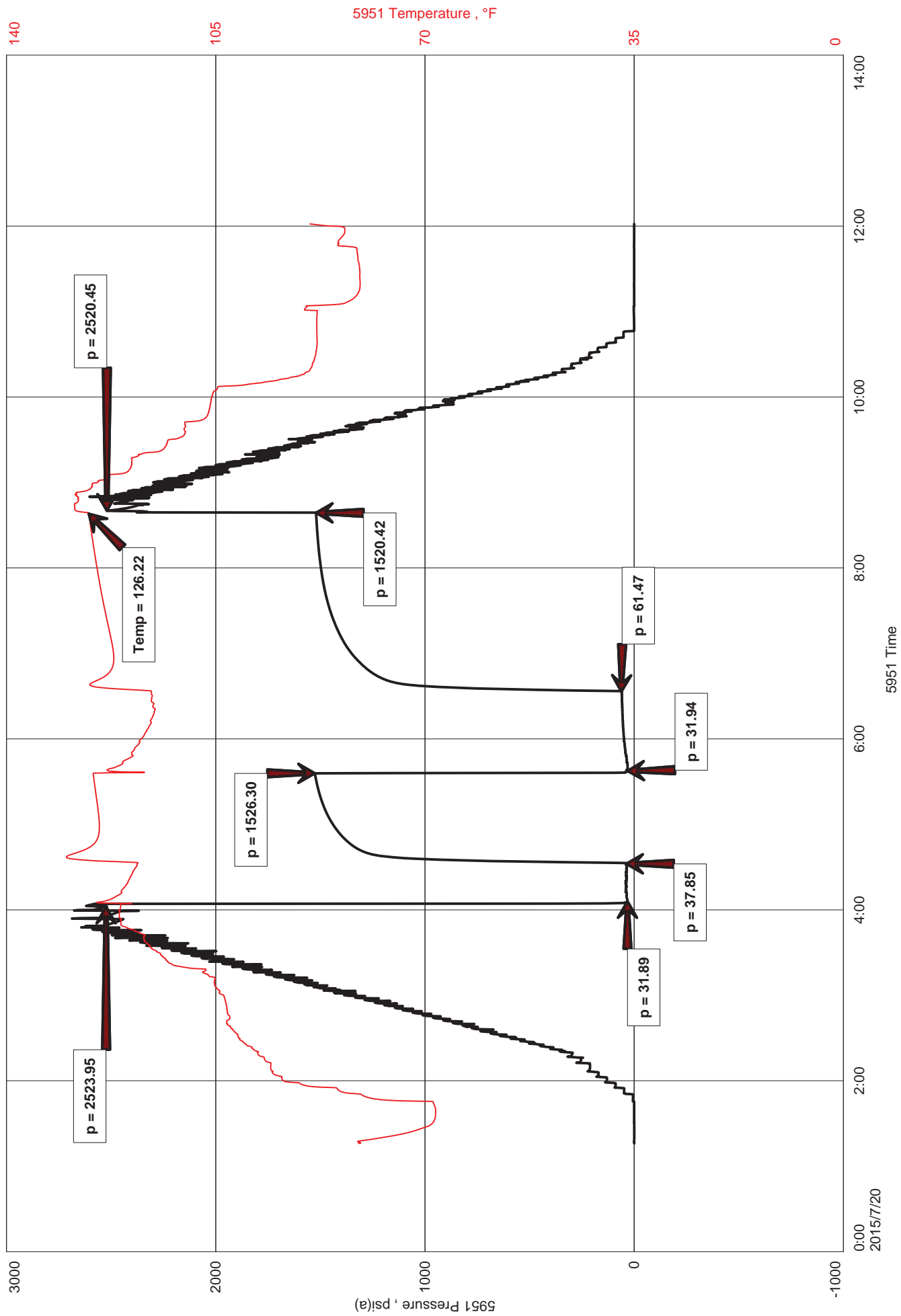
Recovered 5 ft. of GCM 10" GAS, 90" MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges <u>JJ</u>
Remarks: _____	<u>SHPKX2</u>
	<u>78 MRT(GC)</u>
	Total

Time Set Packer(s) 04:07 A.M. P.M. Time Started Off Bottom 08:37 A.M. P.M. Maximum Temperature 126 F
 Initial Hydrostatic Pressure..... (A) 2524 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 32 P.S.I. to (C) 38 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 1526 P.S.I.
 Final Flow Period..... Minutes 60 (E) 32 P.S.I. to (F) 61 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 1520 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 2520 P.S.I. per [signature]

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Powell #9-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: POWELL9DST10

TIME ON: 01:16
TIME OFF: 12:03

Company BEREXCO LLC Lease & Well No. POWELL #9-22
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 2954' KB Formation Morrow Effective Pay _____ Ft. Ticket No. F401
Date 7-20-15 Sec. 22 Twp. 29S S Range 33W W County HASKELL State KANSAS
Test Approved By ED GRIEVES Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 10 Interval Tested from 5305 ft. to 5330 ft. Total Depth 5330 ft.
Packer Depth 5300 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Packer Depth 5305 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 5288 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 5306 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.

Mud Type CHEMICAL Viscosity 56 (6# LCM) Drill Collar Length 616 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 6,500 P.P.M. Drill Pipe Length 4,656 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J,J,ShPkrX2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? GTS Reversed Out NO Anchor Length 25 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow @ BOB in 20 seconds. GTS in 9 minutes. No blowback.
2nd Open: Strong blow @ BOB in 5 seconds. Guage gas. No blowback.

Recovered 5 ft. of GCM 10% gas, 90% mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 04:07 A.M. P.M. Time Started Off Bottom 08:37 A.M. P.M. Maximum Temperature 126 F
Initial Hydrostatic Pressure..... (A) 2524 P.S.I.
Initial Flow Period..... Minutes 30 (B) 32 P.S.I. to (C) 38 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1526 P.S.I.
Final Flow Period..... Minutes 60 (E) 32 P.S.I. to (F) 61 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1520 P.S.I.
Final Hydrostatic Pressure..... (H) 2520 P.S.I.

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DIAMOND TESTING



GAS RATE TICKET

Lease: Powell #9-22
Operator: Berexco LLC
Formation: Morrow 5305'-5330'
Field:
Location: Sec. 22 Twp. 29s Rge. 33w
County: Haskell **State:** Kansas

INITIAL FLOW: Strong blow, BOB in 20 seconds.
GTS in 9 minutes. No blowback.

FINAL FLOW: Strong blow, BOB 5 seconds.
Guage gas. No blowback.

INITIAL FLOW:

10 min ----- .5" choke ----- 8 psi ----- 101,000 cf/day
20 min ----- .5" choke ----- 7 psi ----- 94,500 cf/day
30 min ----- .5" choke ----- 7 psi ----- 94,500 cf/day

FINAL FLOW:

10 min ----- .25" choke ----- 28 psi ----- 59,000 cf/day
20 min ----- .25" choke ----- 36 psi ----- 70,300 cf/day ***** GAS SAMPLE TAKEN*****
30 min ----- .25" choke ----- 44 psi ----- 81,200 cf/day
40 min ----- .25" choke ----- 49 psi ----- 88,300 cf/day
50 min ----- .25" choke ----- 50 psi ----- 89,700 cf/day
60 min ----- .25" choke ----- 51 psi ----- 91,100 cf/day

WFO
FILL

GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY **BEREXCO**
 LEASE Powell NO. 9-22
 LOCATION 2252' FSL + 1648' FWL
 SEC. 22 TWP. 29S RNG. 33W
 COUNTY Haskell STATE Kansas
 FIELD Lemon Northeast

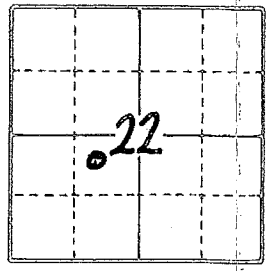
ELEVATIONS
 KB 2954
 DF 2952
 GL 2942
 MEASUREMENTS ARE ALL FROM KB

CONTRACTOR Beredco Drlg. Rig #1
 COMM. 6-17-2015 COMP. 7-22-2015
 RTD 5631 LTD 5634
 No. of DST'S Ten No. of CORES None

CASING RECORD
8 7/8" of 1750' w/ 800 SH.
 OF _____ W/ _____ SH.
 OF _____ W/ _____ SH.
 OF _____ W/ _____ SH.
 EL. LOG AL. RES. SP. BK.
DEN. NEUT. GR. CALIPER
ML. SONIC

SAMPLES SAVED FROM 3800 TO TD
 DRILLING TIME KEPT FROM 3800 TO TD
 SAMPLES EXAMINED FROM 3800 TO TD
 GEOLOGICAL SUPERVISION FROM 3800 TO TD
 GEOLOGIST ON WELL Edwin H. Grieves

FORMATION TOPS	SAMPLE	LOG	SUBSEA
<u>Base Heebner</u>	<u>4091</u>	<u>4087</u>	<u>-1133</u>
<u>Toronto</u>	<u>4101</u>	<u>4098</u>	<u>-1144</u>
<u>Lausing Fm.</u>	<u>4131</u>	<u>4134</u>	<u>-1180</u>
<u>Kansas City Fm</u>	<u>4604</u>	<u>4604</u>	<u>-1650</u>
<u>BKC</u>	<u>4751</u>	<u>4750</u>	<u>-1796</u>
<u>Marathon Fm</u>	<u>4762</u>	<u>4761</u>	<u>-1807</u>
<u>Pawnee</u>	<u>4870</u>	<u>4871</u>	<u>-1917</u>
<u>Et Scott</u>	<u>4907</u>	<u>4909</u>	<u>-1955</u>
<u>Cherokee</u>	<u>4926</u>	<u>4926</u>	<u>-1972</u>
<u>Morrow</u>	<u>5210</u>	<u>5210</u>	<u>-2256</u>
<u>Chester</u>	<u>5384</u>	<u>5390</u>	<u>-2426</u>
<u>St. Genevieve</u>	<u>5514</u>	<u>5510</u>	<u>-2556</u>
<u>TD</u>	<u>5631</u>	<u>5634</u>	

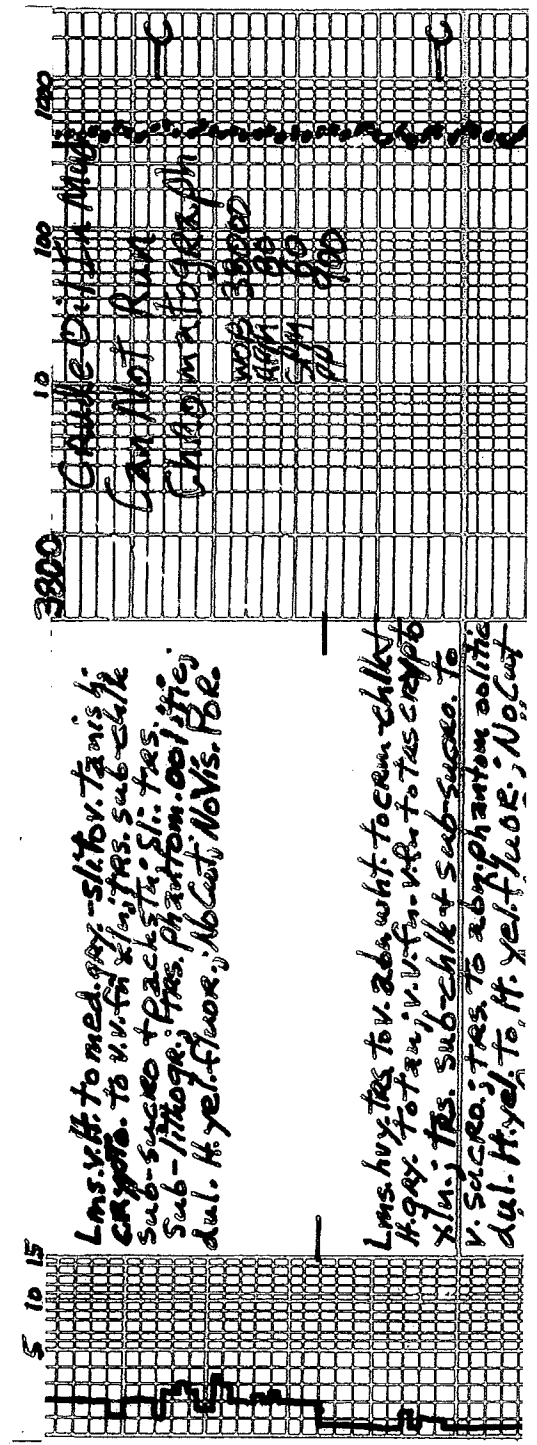


API#15-081-22115

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3800 feet to Total Depth.

Note: Grade Oil put in mud after becoming stuck in hole twice. Therefore, could not operate the chromatograph on this well.

Edwin H. Grieves
 Geologist



Lms. hv. trs. to v. abd. wht. to cream-chalk.
H. gray. Tot. an. v. v. f. n. v. l. to trs. crapp.
xln.; trs. sub-chlk. & sub-sucro. to
v. sucro.; trs. to abn. phantom oolitic
dul. H. yel. to H. yel. fluor.; No. cut
abn. pd. fr. to 100 ft. trs. excell. pp
micro-pp & inter xln. por.

3900

3888-4054
In the bedded lms. & scattered thin
shales
① Faster Dalg. Lms. similar 3834-3888
② Slower Dalg. Lms. similar 3800-3834
③ scattered thin shales H. to med. &
trs. dk. gray - v. calc. lps. to
v. dk. gray. to sl. trs. black

4000

Lms. H. to med. gray, tanish lps; crypto to
v. f. n. xln.; sub-sucro. to sucro. lps. &
packets; d. ab. yel. fluor.; No. cut
poor inter xln. por. lps

Sh. dk. to v. dk. gray - calc. to v. dk. gray
to black - calc. to v. dk. gray
Lms. H. gray, tanish lps; crypto, v. n. pack.
to sub-litho. d. ab. yel. fluor.; No. cut; Ab. lps. to
sh. H. gray, greenish lps; v. soft mass when wet

4100

Lms. H. to med. gray - tanish lps; crypto to v. f. n. xln.;
sub-sucro. to sucro. lps; d. ab. yel. fluor.; No. cut; Ab. lps. to
sh. H. gray, greenish lps; v. soft mass when wet
Lms. H. to med. gray - tanish lps; crypto, v. n. pack.
to sub-litho. d. ab. yel. fluor.; No. cut; Ab. lps. to
sh. H. gray, greenish lps; v. soft mass when wet
Lms. H. to med. gray - tanish lps; crypto, v. n. pack.
to sub-litho. d. ab. yel. fluor.; No. cut; Ab. lps. to
sh. H. gray, greenish lps; v. soft mass when wet
416-4173 Lms. w/ chert similar 4101-07

Sh. med. to dk. gray; sl. to v. calc. lps

4131-4177 Lms. H. to med. gray, tanish lps
crypto. to v. f. n. xln.; trs. sub-chlk.
sub-sucro. to pack. sh.; d. ab. yel. fluor.
No. cut; Ab. lps. to

Base Heebner
409-1136

Toronto
4101-1176

Lansing
4131-1176

Sub. sub-174pp. V. v. dul. yellow; No cut, No US POR
4497-4410 Lms. med. gray - fely. tan. Sh. w/tes. tan; crypto. sh. p. black. sh. and sub-lithog. i. tes. w/med. yellow. No cut, No US POR

SPM 850-700

4400

Sh. v. dark gray to black - carb.

4417-4426 Lms. similar 4397-4410
4426-4434 Lms. tes. whitish, med. black
4434-4440 Lms. med. gray, grayish, tan, gray
4440-4450 Lms. med. gray, grayish, tan, gray
4450-4460 Lms. med. gray, grayish, tan, gray
4460-4470 Lms. med. gray, grayish, tan, gray
4470-4480 Lms. med. gray, grayish, tan, gray
4480-4490 Lms. med. gray, grayish, tan, gray
4490-4500 Lms. med. gray, grayish, tan, gray

4450-4460 Lms. med. gray, grayish, tan, gray
4460-4470 Lms. med. gray, grayish, tan, gray
4470-4480 Lms. med. gray, grayish, tan, gray
4480-4490 Lms. med. gray, grayish, tan, gray
4490-4500 Lms. med. gray, grayish, tan, gray

Show Show

1000 3000
RPM 75
SPM 150
1000

4469-4504 Lms. med. gray, grayish, tan, gray
4504-4510 Lms. med. gray, grayish, tan, gray
4510-4520 Lms. med. gray, grayish, tan, gray
4520-4530 Lms. med. gray, grayish, tan, gray
4530-4540 Lms. med. gray, grayish, tan, gray
4540-4550 Lms. med. gray, grayish, tan, gray
4550-4560 Lms. med. gray, grayish, tan, gray
4560-4570 Lms. med. gray, grayish, tan, gray
4570-4580 Lms. med. gray, grayish, tan, gray
4580-4590 Lms. med. gray, grayish, tan, gray
4590-4600 Lms. med. gray, grayish, tan, gray

4500

4504-4510 Lms. med. gray, grayish, tan, gray
4510-4520 Lms. med. gray, grayish, tan, gray
4520-4530 Lms. med. gray, grayish, tan, gray
4530-4540 Lms. med. gray, grayish, tan, gray
4540-4550 Lms. med. gray, grayish, tan, gray
4550-4560 Lms. med. gray, grayish, tan, gray
4560-4570 Lms. med. gray, grayish, tan, gray
4570-4580 Lms. med. gray, grayish, tan, gray
4580-4590 Lms. med. gray, grayish, tan, gray
4590-4600 Lms. med. gray, grayish, tan, gray

4512-4520 Lms. med. gray, grayish, tan, gray
4520-4530 Lms. med. gray, grayish, tan, gray
4530-4540 Lms. med. gray, grayish, tan, gray
4540-4550 Lms. med. gray, grayish, tan, gray
4550-4560 Lms. med. gray, grayish, tan, gray
4560-4570 Lms. med. gray, grayish, tan, gray
4570-4580 Lms. med. gray, grayish, tan, gray
4580-4590 Lms. med. gray, grayish, tan, gray
4590-4600 Lms. med. gray, grayish, tan, gray

4512-4520 Lms. med. gray, grayish, tan, gray
4520-4530 Lms. med. gray, grayish, tan, gray
4530-4540 Lms. med. gray, grayish, tan, gray
4540-4550 Lms. med. gray, grayish, tan, gray
4550-4560 Lms. med. gray, grayish, tan, gray
4560-4570 Lms. med. gray, grayish, tan, gray
4570-4580 Lms. med. gray, grayish, tan, gray
4580-4590 Lms. med. gray, grayish, tan, gray
4590-4600 Lms. med. gray, grayish, tan, gray

Show Show

4529-4532 Lms. v. to v. gray, 20. whit. to black
4532-4540 Lms. v. to v. gray, 20. whit. to black
4540-4550 Lms. v. to v. gray, 20. whit. to black
4550-4560 Lms. v. to v. gray, 20. whit. to black
4560-4570 Lms. v. to v. gray, 20. whit. to black
4570-4580 Lms. v. to v. gray, 20. whit. to black
4580-4590 Lms. v. to v. gray, 20. whit. to black
4590-4600 Lms. v. to v. gray, 20. whit. to black

4562-4600 Lms. f. to med. gray, tan, pt
4600-4610 Lms. f. to med. gray, tan, pt
4610-4620 Lms. f. to med. gray, tan, pt
4620-4630 Lms. f. to med. gray, tan, pt
4630-4640 Lms. f. to med. gray, tan, pt
4640-4650 Lms. f. to med. gray, tan, pt
4650-4660 Lms. f. to med. gray, tan, pt
4660-4670 Lms. f. to med. gray, tan, pt
4670-4680 Lms. f. to med. gray, tan, pt
4680-4690 Lms. f. to med. gray, tan, pt
4690-4700 Lms. f. to med. gray, tan, pt

4617-4689 Lms. similar 4562-4600
4689-4651 Sh. dark to dark gray - carb. to black
4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

Kansas City 1850
4604-1850

4600

Sh. v. dark gray to black - carb
Lms. med. gray; crypto. black; sub-lithog. i. tes. w/med. yellow. No cut, No US POR

Show Show

4617-4689 Lms. similar 4562-4600
4689-4651 Sh. dark to dark gray - carb. to black
4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4617-4689 Lms. similar 4562-4600
4689-4651 Sh. dark to dark gray - carb. to black
4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4689-4651 Sh. dark to dark gray - carb. to black
4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4694-4700 Lms. similar 4562-4600
4700-4714 Sh. med. to dark gray - carb. to black
4714-4720 Lms. similar 4562-4600
4720-4730 Lms. similar 4562-4600
4730-4740 Lms. similar 4562-4600
4740-4750 Lms. similar 4562-4600
4750-4760 Lms. similar 4562-4600
4760-4770 Lms. similar 4562-4600
4770-4780 Lms. similar 4562-4600
4780-4790 Lms. similar 4562-4600
4790-4800 Lms. similar 4562-4600

4700

4700-4714 Sh. med. to dark gray - carb. to black
4714-4720 Lms. similar 4562-4600
4720-4730 Lms. similar 4562-4600
4730-4740 Lms. similar 4562-4600
4740-4750 Lms. similar 4562-4600
4750-4760 Lms. similar 4562-4600
4760-4770 Lms. similar 4562-4600
4770-4780 Lms. similar 4562-4600
4780-4790 Lms. similar 4562-4600
4790-4800 Lms. similar 4562-4600

Show Show

4481-4674 Lms sim; inx. 4460-4600 w/only
the w of st. show w/less calcareous and
more calc.

4674-4700 Lms similar to 4562-4600
Sh. v. dk. gray to black - carb.

4700-4714 Sh. med to dark gray - sl. to calc
calc. gray to silty limestone

4714-4724 Lms. lt. gray to tan; calc. to tan
sl. to sh. sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4724-4735 Lms. lt. gray to tan; calc. to tan
sl. to sh. sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4735-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4757-4762 Sh. med to dark gray - sl. to
very calc. IPB

4762-84 Lms. lt. to med. gray; tan rich IPB
crypto. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4794-4799 Lms. lt. gray; grayish tan to tan
sl. to sh. sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4799-4809 Lms. tan; white to gray - 44; tan
crypto. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4809-4831 Lms. lt. gray; grayish tan to tan
sl. to sh. sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4831-4867 Lms. lt. gray; grayish tan to tan; calc. to
silty; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4867-4870 Sh. v. dk. gray to black - carb
4870-4870 Lms. similar to 4831-4867

4873-4893 Lms. hv. tan; white to calc - calc
+ 44-tan to grayish tan w/abn. tan to dark tan
sp. to dark silty tan to calc. calc. calc.
crypto. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4893-4907 Lms. lt. gray; grayish tan to tan; calc. to
silty; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4907-4910 Sh. v. dk. gray to black - carb
4910-4917 Lms. tan; white to tan; calc. to tan
crypto. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4917-4926 Lms. lt. gray; grayish tan to tan; calc. to
silty; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

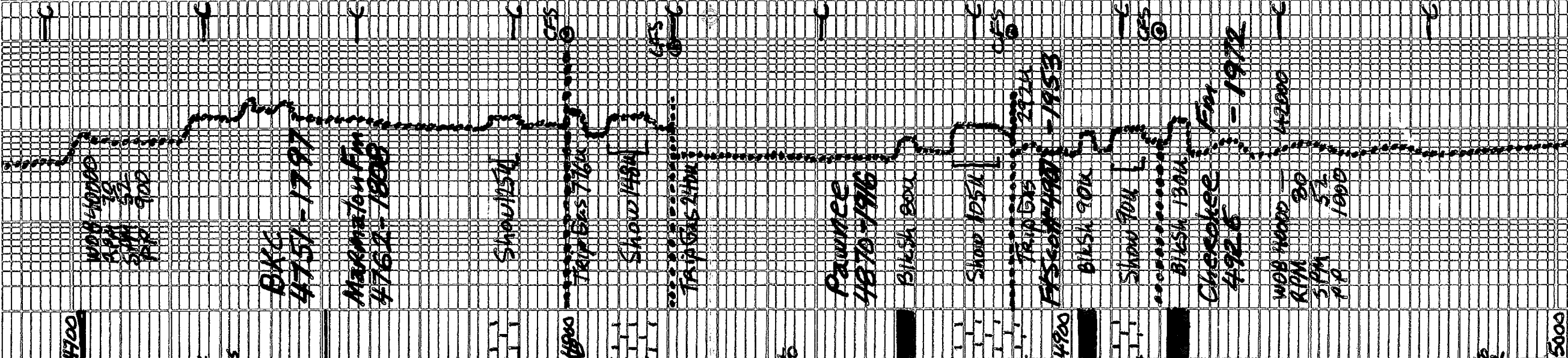
4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.

4926-51 Lms. lt. to med. gray - sl. to silty sh. to
calc. to tan; sub-cls. sub-succo; palest nettes
sub-lithogr. id. yel. fluid. 18; No Carb
No Vis For.



micko - 10118c in vial. 10118c to vial. 10118c to vial.
 Qtz sdy - v. fine gr. - 2 mg, matrix
 500 - succo. to succo. 10118c to vial. 10118c to vial.
 fluor. j. No cuts. No Vis for R

5600

lms. pas. wlt. to am-cklk, slt pas. wlt. ck
 oo. l. tes. and. 10118c to vial. 10118c to vial.
 to v. v. En. w. j. ext. l. 10118c to vial. 10118c to vial.
 (g) matrix pas. sub-cklk, sub-succo
 to succo. 10118c to vial. 10118c to vial.
 fluor. j. No cuts. No Vis for R. w/v. 2 bu.
 Chert butter scotch to orange,
 opaque to sh. trans

TD 5631

7 7/8" Bit Info
 #1 New GT - GT 23 1750 3796
 #2 ReRun Smith TC FH 123NP 3796 4235
 #3 New GFG TM 25XG 4325 5631 TD

CIA Points:

1. 4188
2. 4235
3. 4272
4. 4440
5. 4473
6. 4511
7. 4525
8. 4620

11. 4821
12. 4890
13. 4920
14. 5080
15. 5104
16. 5780
17. 5220
18. 5270

9. 4668

19. 5300

10. 4800

20. 5330

Dev. Surv:

1. 491 1 1/2°
2. 1000 1°
3. 1750 1 1/2°
4. 2778 1 1/2°
5. 3252 1°
6. 4235 1/4°

21. 5360
22. 5370
23. 4473
24. 4668
25. 4821
26. 4890
27. 5270
28. 5631

Daily Drelg Progress:

1. 3584 At 7:00AM 7-1-2015
2. 3796 At 7:00AM 7-2-2015
3. 3796 At 7:00AM 7-3-2015
4. 3796 At 7:00AM 7-4-2015
5. 3931 At 7:00AM 7-5-2015
6. 4235 At 7:00AM 7-6-2015
7. 4931 At 7:00AM 7-7-2015
8. 4473 At 7:00AM 7-8-2015
9. 4571 At 7:00AM 7-9-2015
10. 4668 At 7:00AM 7-10-2015
11. 4737 At 7:00AM 7-11-2015
12. 4800 At 7:00AM 7-12-2015
13. 4821 At 7:00AM 7-13-2015
14. 4890 At 7:00AM 7-14-2015
15. 5006 At 7:00AM 7-15-2015
16. 5104 At 7:00AM 7-16-2015
17. 5270 At 7:00AM 7-17-2015
18. 5270 At 7:00AM 7-18-2015
19. 5330 At 7:00AM 7-19-2015
20. 5372 At 7:00AM 7-20-2015
21. 5631 At 7:00AM 7-21-2015
22. 5631 At 7:00AM 7-22-2015

DST #1 Lansing "B" 4229-4235
 ID weak blow incr. to 1 1/4"
 FO weak blow incr. to 3/4"
 Rec 45 ft w/rey mud 30% wite 70% Mud
 Tool Samp had oil spots
 Chl 62000ppm R w. 11 At 900F pH 7.0
 Pit Chl 6800ppm Max Temp 116.0F
 IEP 10129 #
 IEP 10136 # in 30 min
 ISIP 5240 # in 60 min
 FFP 40-70 # in 60 min
 FSIP 541 # in 120 min

5600
 5597
 5697

Pitch 6800ppm Max Temp 116°F
 IHP 2029 # in 30 min
 ISIP 540 # in 60 min
 FFP 40-70 # in 60 min
 FSIP 521 # in 120 min
 FHP 2031 #

DST #2 Lansing "H" 4495-4473
 Fo weak blow in 7 1/2"
 Rec 100ft 5% Gas 20min
 650ft GIP 25% oil 70% mud
 Tool Samp 10% Gas 40% oil; 50% mud
 Max Temp 118°F
 IHP 2077 #
 IFF 15-33 # in 30 min
 ISIP 475 # in 60 min
 FFP 37-58 # in 60 min
 FSIP 521 # in 120 min
 FHP 2074 #

DST #3 Lansing "I" 4497-4511
 Fo weak blow in 4 1/2"
 Rec 40ft 5% oil 95% mud
 150ft GIP 32% oil 68% mud
 Tool Samp 120°F
 Max Temp 120°F
 IHP 2208 #
 IFF 21-32 # in 30 min
 ISIP 655 # in 60 min
 FFP 35-51 # in 60 min
 FSIP 680 # in 120 min
 FHP 2107 #

DST #4 Kansas City "B" 4658-4668
 Fo BOB 10 sec GTS 7 1/2 min
 Rec 20ft 20% Gas 80% oil
 380ft 20% Gas 10% oil 50% water 20% Mud
 50ft Oil Grav 37% @ 60°F
 Chl 9900ppm Rv .08 @ 70°F
 PH 7.0 PH Chl 300ppm Max Ten 132°F
 IHP 2176 # in 30 min
 IFF 52-79 # in 60 min
 ISIP 487 # in 60 min
 FFP 57-162 # in 60 min
 FSIP 477 # in 120 min
 FHP 2174 #

IF	FF	Time	Ch	PSI	MCFD
		15	.5	6.5	90.1
		30	.5	4	68.8
		10	.25	18	47.1
		30	.25	16.5	43.9
		40	.25	16	41.5
		50	.25	16	40.9
		60	.25	16	40.9

DST #5 Marmaton 4780-4800
 Fo BOB 15 sec GTS 8 1/2"
 Rec 30ft 15% Gas 85% Mud
 30ft Oil Grav. 37 @ 60°F Max Temp 143°F
 IHP 2260 # in 30 min
 IFF 42-30 # in 60 min
 ISIP 830 # in 60 min
 FFP 31-84 # in 60 min
 FSIP 796 # in 120 min
 FHP 2261 #

RF	Time	Ch	PSI	MCFD
	10	.125	20	14.6
	20	.125	28	18.2
	30	.125	35	21.2
	40	.125	37	22.1
	50	.125	37.5	23.3
	60	.125	38	22.5

DST #6 Marmaton 4804-4821
 Fo Strong Blow BOB 16 min
 Rec 30ft Mud 3 min
 Max Temp 123°F 2700ft GIP
 IHP 2338 # in 30 min
 IFF 10-17 # in 60 min
 ISIP 138 # in 60 min
 FFP 15-22 # in 120 min
 FSIP 140 #

60 1147 38 1210
 DST#6 Max Row 4804-4821
 10 Strong Blow BOB 16 min
 Fo Strong Blow BOB 3 min
 Rec 30 ft Mud 2700 ft GIP
 Max Temp 123°F
 IHP 2338# 1 in 30 min
 ISIP 138# 1 in 60 min
 FFP 15-22# 1 in 60 min
 FSIP 140# 1 in 120 min
 FHP 2328

DST#7 Pawnee 4878-4890
 10 weak blow 7"
 Fo Fair Blow 1 in 808 15 min
 Rec 25 ft 100% oil 99% Mud 1250 GIP
 IHP 2371# 1 in 30 min
 ISIP 12-13# 1 in 60 min
 FFP 155# 1 in 60 min
 FSIP 12-13# 1 in 60 min
 FHP 161# 1 in 120 min
 FHP 2371#

DST#8 Atoka 5054-5104
 10 BOB 15 sec GTS 3 min
 Fo BOB ASAO Gauge Gas
 Rec 20 ft 65% oil 35% wtk
 180 5% oil 95% wtk
 450 100% wtk
 Chl 108000 ppm R.w. 075 @ 20°F pH 7.5
 PIT Chl 4800 ppm Max Temp. 128°F
 IHP 2481# 1 in 30 min
 ISIP 687-762# 1 in 60 min
 FFP 1207# 1 in 60 min
 FSIP 605-719# 1 in 60 min
 FHP 1195# 1 in 120 min
 FHP 2479#

Time	Ck	PSI	MGFPD
10	.75	225	2779.5
20	.75	220	2716.0
30	.75	230	2831.0
10	1.25	57	2594.0
20	1.25	68	2591.0
30	1.25	62	2883.0
40	1.25	72	3135.0
50	1.25	70	3083.0
60	1.25	70	3068.0

DST#9 Morrow 5238-5270
 10 Strong Blow BOB 1 min GTS 22 min
 Fo Strong Blow BOB 10 sec Gauge Gas
 Rec 30 ft. 15% gas 1% oil 78% Mud
 Max Temp 130°F
 IHP 2420# 1 in 30 min
 ISIP 30-75# 1 in 60 min
 FFP 1136# 1 in 60 min
 FSIP 41-98# 1 in 60 min
 FHP 1133# 1 in 120 min
 FHP 2404#

Time	Ck	PSI	MGFPD
22	.25	30	61.9
30	.25	35	69.0
10	.25	22	50.2
20	.25	37	71.8
30	.25	48	86.8
40	.25	56	98.1
50	.25	63	107.8
60	.25	70	117.5

DST#10 Morrow 5305-5330
 10 Strong Blow BOB 20 sec GTS 9 min
 Fo Strong Blow BOB 6 sec Gauge Gas
 Rec 5 ft 10% Gas 90% Mud Max Temp 126°F
 IHP 2574# 1 in 30 min
 ISIP 32-38# 1 in 60 min
 FFP 1526# 1 in 60 min
 FSIP 32-61# 1 in 60 min
 FHP 1520# 1 in 120 min
 FHP 2520#

Time	Ck	PSI	MGFPD
20	.5	8	101.0
30	.5	7	94.5
10	.5	28	59.0
20	.25	36	70.3
30	.25	44	81.2
40	.25	49	88.3
50	.25	50	89.7
60	.25	51	91.0

Mud Info:

VFP 13.20 # 1m60 min
 FFP 31.6 # 1m20 min
 FSIP 15.20 #
 FHP 25.20 #
 IF 20
 30
 10
 FF 20
 30
 40
 50
 60

PSI
 8
 7
 7
 28
 36
 44
 49
 50
 51

MCFPD
 101.0
 94.5
 94.5
 59.0
 70.3
 81.2
 98.3
 89.7
 96.0

Mud Info:

Date	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
Depth	3601	3796	3796	3796	3796	4064	4233	4498
Wt.	8.7	8.8	8.9	8.65	8.6	9.0	9.1	9.1
Vis	49	45	66	91	70	55	46	48
PV	15	12	14	19	14	16	14	14
YP	17	12	19	21	15	22	15	15
GS	14 1/2	10 3/8	17 1/2	27 1/2	16 1/4	18 1/2	14 1/4	14 1/2
WL	8.8	8.8	8.8	8.0	8.0	15.6	10.4	9.2
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.5	11.0	10.5	9.0	9.0	8.5	9.0	10.5
CHI	2900	2400	3700	5600	3200	9400	6800	4200
CA	20	20	40	40	20	120	60	40
LCM	4	3 1/2	3 1/2	2	3	2	4	3

Date	7-9	7-10	7-11	7-12	7-13	7-14	7-15	7-16
Depth	4473	4511	4468	4789	4800	4821	4890	5045
Wt.	9.1	9.0	9.2	9.2	9.1	8.75	9.1	9.1
Vis	46	57	53	62	78	70	72	92
PV	14	16	17	18	18	18	16	16
YP	14	18	17	21	19	22	19	18
GS	13 1/4	17 1/2	16 1/4	17 1/2	20 1/2	17 1/2	16 1/2	15 1/2
WL	8.8	9.2	9.2	10.0	9.5	9.6	11.5	10.0
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.0	10.0	9.5	9.0	10.0	11.0	10.5	9.5
CHI	3600	3800	3600	5100	5600	4800	8000	4800
CA	40	60	40	20	20	20	40	80
LCM	4	3	3	2	4	3	3	4

Date	7-17	7-18	7-19	7-20	7-21
Depth	5104	5263	5270	5330	5476
Wt.	9.1	9.05	9.1	9.1	9.15
Vis	52	66	55	48	79
PV	17	14	16	12	17
YP	17	17	17	15	17
GS	16 1/4	19 1/2	19 1/4	14 1/2	17 1/2
WL	10.4	8.8	9.2	9.2	10.0
Cake	1/32	1/32	1/32	1/32	1/32

YP	17	12	10	21	15	22	15	15
GS	14 1/2	10 3/10	17 1/4	22 1/2	16 1/4	19 1/2	14 1/2	14 1/2
WL	8.8	8.8	8.8	8.0	8.0	15.6	10.4	9.2
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
PH	11.5	11.0	10.5	9.0	9.0	8.5	9.0	10.5
CHI	2900	2400	3700	5600	3200	9400	6800	4200
Ca	20	20	40	40	20	120	60	40
LCM	4	3 1/2	3 1/2	2	3	2	4	3

Date	7-9	7-10	7-11	7-12	7-13	7-14	7-15	7-16
Depth	4473	4511	4618	4787	4800	4821	4870	5045
WT.	9.1	9.0	9.2	9.3	9.1	8.5	9.1	9.1
Vis	46	57	53	62	78	70	72	92
PV	14	16	17	18	18	18	16	16
YP	14	18	17	21	19	22	19	18
GS	13 1/4	17 1/3	16 1/4	17 1/2	17 1/2	17 1/2	19 1/2	15 1/2
WL	8.8	9.2	9.2	10.8	9.6	9.6	11.5	10.8
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
PH	11.0	10.0	9.5	9.0	10.0	11.0	10.5	9.5
CHI	3600	3800	3600	5100	5600	4800	8000	4800
Ca	40	60	40	20	20	20	40	80
LCM	4	3	3	2	4	3	3	4

Date	7-17	7-18	7-19	7-20	7-21			
Depth	5104	5163	5270	5330	5476			
WT.	9.1	9.05	9.1	9.1	9.15			
Vis	52	66	55	48	79			
PV	17	14	16	12	17			
YP	17	17	17	15	17			
GS	16 1/4	19 1/2	19 1/4	19 1/2	17 1/2			
WL	10.4	8.8	9.2	9.2	10.0			
Cake	1/32	1/32	1/32	1/32	1/32			
PH	9.0	9.5	10.0	10.0	10.0			
CHI	4400	6400	6500	5100	4100			
Ca	40	20	20	40	20			
LCM	4	8	8	5	6			

OPERATOR Berexco LLC LOCATION 22.52' E SL + 1648' FWL
 LEASE Powell NO. 9-22 SEC 22 TWP. 29S RANG. 33W
 ELEVATION 2957 KB RTD 5631 COUN. Haskell STATE Kansas

ALLIED OIL & GAS SERVICES, LLC

WELL FILL

Federal Tax I.D. #20-5975804

067780

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

SERVICE POINT:
Dallas, TX

DATE <u>7/23/05</u>	SEC. <u>22</u>	TWP. <u>29</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>Powell</u>	WELL # <u>9-22</u>	LOCATION <u>Sublette N 70 170 2 1/2 W</u>			COUNTY <u>Haskell</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		W Around Circle 5 into					

CONTRACTOR Benefer

TYPE OF JOB Production - 2 Stage

HOLE SIZE 7 1/2 T.D.

CASING SIZE 5 1/2 15 1/2 16 DEPTH 5631

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DU DEPTH 3190'

PRES. MAX MINIMUM 1

MEAS. LINE SHOE JOINT 4 1/2

CEMENT LEFT IN CSG. 4 1/2

PERFS.

DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 445 SKALW 65/35 6000 1/4 Flt
310 SK ASC 1000 50/50 2700 20 Carbonte, 314-1700 CF 210
1416 SK / Airco over

COMMON <u>445 SK</u>	@ <u>19.80</u>	<u>8846.00</u>
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC <u>310 SK</u>	@ <u>23.50</u>	<u>7285.00</u>
<u>Cilsonte 1860 lb</u>	@ <u>0.98</u>	<u>1822.80</u>
<u>FW Seal 112 lb</u>	@ <u>2.95</u>	<u>332.40</u>
<u>CF-210 142 lb</u>	@ <u>1.80</u>	<u>255.60</u>
<u>Deframer 28 lb</u>	@ <u>3.50</u>	<u>98.00</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Alan Ryan</u>
# <u>895-281</u>	HELPER <u>Kevin Ryan</u>
BULK TRUCK	
# <u>891</u>	DRIVER <u>Wayne McGinhy</u>
BULK TRUCK	
# <u>818</u>	DRIVER <u>Cory Brown</u>

TOTAL 21,338.34
DISCOUNT 48% 10,242.40

REMARKS:

Run Cen Circulate mix ALW-95 SK - Tail w/ 260 SK ASC
Wash Tank Displace w/ 57 BBL H₂O - 77 BBL Rig Wash
w/ 1600 SK LIFT, land dry 2000 PSI. Analysis
Tool / cement 8000 SK. 4 hr w/ log. W/ 3050 SK
w/ 8000 SK. mix 200 SK ALW flow 5 1/2" Tail w/ 500 SK ASC
Wash Tank Displace Plan w/ 77 BBL H₂O w/ 1000 SK LIFT
land dry 2000 PSI Tool / cement

Thank you
Alan Ryan / Wayne McGinhy, Wayne

SERVICE

HANDLING <u>906 CF</u>	@ <u>2.40</u>	<u>2176.80</u>
MILEAGE <u>2.25</u> ton/mile		<u>525.00</u>
DEPTH OF JOB <u>5631</u>		<u>3099.25</u>
PUMP TRUCK CHARGE		
EXTRA FOOTAGE	@	
HV MILEAGE <u>50</u>	@ <u>7.20</u>	<u>360.00</u>
LV MILEAGE	@	
<u>Top Stage</u>	@	<u>2406.25</u>

TOTAL 13,397.38
DISCOUNT 48% 6428.34

PLUG & FLOAT EQUIPMENT

<u>DU TOOL</u>	@	<u>535.00</u>
<u>AFN Float Seal</u>	@	<u>545.00</u>
<u>Baskets -3</u>	@ <u>375.00</u>	<u>1125.00</u>
<u>Centralizers 2-1</u>	@ <u>57.00</u>	<u>114.00</u>
<u>cut ch. down</u>	@	<u>660.00</u>

TOTAL 2,920.00
DISCOUNT 48% 1,402.56

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 [Signature]

SALES TAX (if Any) _____

TOTAL CHARGES 43,652.72

DISCOUNT 20,953.30 (48%) IF PAID IN 30 DAYS

NET TOTAL 22,699.41 IF PAID IN 30 DAYS

Date 2/21/15 District 24th Ticket No. 007780
 Company Quero Rig Barcelo
 Lease Powell Well No. 9-22
 County Franklin State Ky
 Location _____ Field _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type ALW-200SK ASC
 Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type ALW-300SK
50SK ASC Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 425-2P1

Bulk Equip. 891
818

Float Equip: Manufacturer _____

Shoe: Type _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type H₂O Amt. _____ Bbls. Weight _____ PPG

Mud Type Big Mud Weight _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 1/2 Type _____ Weight 15 lb Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size _____ Weight _____ Collars _____

Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .023 P 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. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENTER M

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						on location, setting misc. Setup
						Annulus Circulate
						Mix 25% ALW
						Mix 200SK ASC
						Wash Truck
				57.0		Displace H ₂ O
				20	4.0	Big Mud
				30		
				50		
				60		
				70		
				77		
						Sand Plug
						Open 100' - Circulate 4 hrs
						Mix 30% ALW
						200SK MH
						Mix 300 ALW Down 5' in
						Mix 50 SK ASC
						Wash Truck
				20		Displace w/ H ₂ O
				35		
				40		
				50		
						Sand Plug
						100' closed

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



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

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

October 26, 2015

Evan Mayhew
BEREXCO LLC
2020 N. Bramblewood
Wichita, KS 67206-1094

Re: ACO-1
API 15-081-22115-00-00
Powell 9-22
SW/4 Sec.22-29S-33W
Haskell County, Kansas

Dear Evan Mayhew:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 06/24/2015 and the ACO-1 was received on October 23, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department