

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Blue Ridge Petroleum Corporation
Well Name	MCMILLIAN 1-14
Doc ID	1349459

All Electric Logs Run

CDN
DIL
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Blue Ridge Petroleum Corporation
Well Name	MCMILLIAN 1-14
Doc ID	1349459

Tops

Name	Top	Datum
Heebner	2363	-879
Lansing	2541	-1057
BKC	2997	-1513
Cher. Shale	3132	-1648
Mississippi	3262	-1778
Hunton	3600	-2116
Viola	3716	2232
Simpson	3742	-2258
Arbuckle	3835	-2351





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 1675

Cell 785-324-1041

Date	3-15-17	Sec.	14	Twp.	23	Range	4	County	Reno	State	Ks	On Location		Finish	4:15 AM
Lease	McMillian			Well No.	1-14		Location South Hutchinson Highway 50 + main Street, 1 1/2 E to Rayl Rd, 1 1/2 N, E into								
Contractor	Southwind		3		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Type Job	Plug														
Hole Size	7 7/8"		T.D.	3865'		Charge To	Blue Ridge Petroleum								
Csg.			Depth												
Tbg. Size	4 1/2" D.P.		Depth	3814'		City	State								
Tool			Depth	The above was done to satisfaction and supervision of owner agent or contractor.											
Cement Left in Csg.			Shoe Joint			Cement Amount Ordered	195 60/40 4% Gel 1/4# Flo-seal								
Meas Line			Displace	H2O/mud											
<b>EQUIPMENT</b>															
Pumptrk	16	No.	Cementer	Tavis		Common	117								
			Helper			Poz. Mix	78								
Bulktrk	21	No.	Driver	Doug		Gel.	7								
			Driver			Calcium									
Bulktrk	P.W.	No.	Driver	Rick		Hulls									
			Driver			Salt									
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:	3814' - 35 SX		Flowseal 50#												
Rat Hole	600' - 35 SX		Kol-Seal												
Mouse Hole	350' - 35 SX		Mud CLR 48												
Centralizers	250' - 35 SX		CFL-117 or CD110 CAF 38												
Baskets	60' - 25 SX		Sand												
D/V or Port Collar	Rathole - w/ 30 SX		Handling 206												
	Cement did Circulate		Mileage												
<b>FLOAT EQUIPMENT</b>															
	Guide Shoe														
	Centralizer														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge Plug														
	Mileage 51														
	Tax														
	Discount														
	Total Charge														
X Signature	Jay Brewer														



# Musgrove

Petroleum Geology  
212 Main Street, Claflin KS

## NOTES

Company: Blue Ridge Petroleum Corp

Lease: McMillian #1-14

Location: W2-SW-SE-NW (2310' FNL & 1381' FWL)

Sec: 14 Twsp: 23S Rge: 4W

County: Reno State: Kansas

Field: Burton

KB: 1484' GL: 1476'

Contractor: Southwind Drilling, Inc. (Rig #3)

Spud: 03/08/2017 Comp: 03/14/2017

RTD: 3865' LTD: 3367'

Mud Up: 2200' Type Mud: Chemical

API #: 15-155-21744-00-00

Samples Saved From: 2300' to RTD

Drilling Time Kept From: 2300' to RTD

Samples Examined From: 2300' to RTD

Geological Supervision from: 2300' to RTD

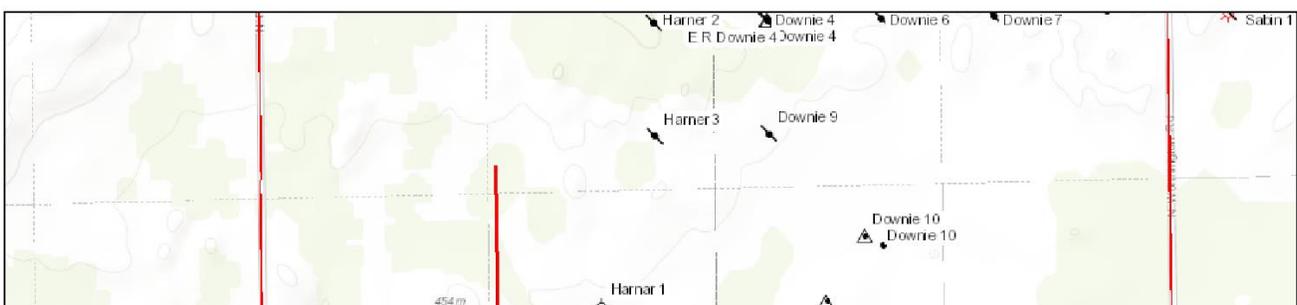
Geologist on Well: Jim Musgrove

Surface Casing: 8 5/8" @ 217'

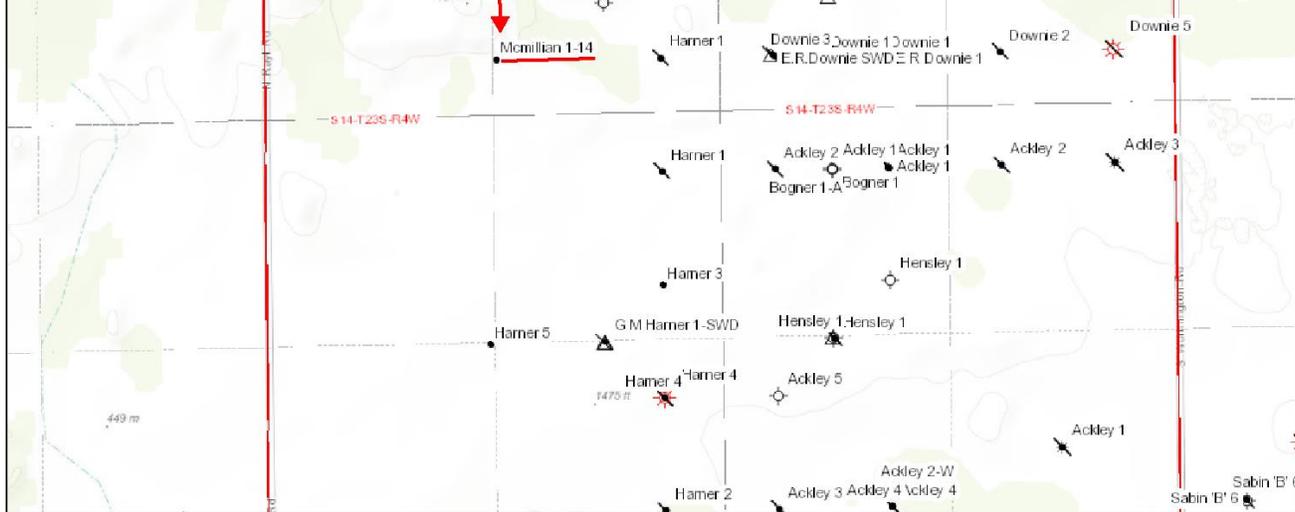
Production Casing: None

Electronic Surveys: Logged by ELI, DIL, CDL/CNL, PE

## BlueRidge Petroleum-McMillian #1-14







March 15, 17

# BlueRidge Petroleum

## well comparison sheet

DRILLING WELL					COMPARISON WELL				
BlueRidge-McMillian #1-14					Bergman Oil- #1 Harnar				
W2-SW-SE-NW 14-23S-4W					C-SE-NW 14-23S-4W				
1484 KB					1481 KB			Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	
Heebner	2360	-876	2363	-879					
Douglas	2414	-930	2413	-929					
Brown Lime	2518	-1034	2516	-1032					
Lansing	2539	-1055	2541	-1057	2547	-1066	11	9	
BKC	2998	-1514	2997	-1513	2988	-1507	-7	-6	
Cherokee Sh.	3134	-1650	3132	-1648					
Miss	3263	-1779	3262	-1778	3252	-1771	-8	-7	
Hunton	3601	-2117	3600	-2116	3604	-2123	6	7	
Maquoketa	3624	-2140	3625	-2141					
Viola	3716	-2232	3716	-2232					
Simpson Sand	3741	-2257	3742	-2258					
Lower Sand	3829	-2345	3830	-2346					
Arbuckle	3834	-2350	3835	-2351					
RTD	3865	-2381	3465	-1981	3610	-2129	-252	148	
LTD	3867	-2383	3867	-2383					



**DIAMOND TESTING**  
P.O. Box 157  
HOISINGTON, KANSAS 67544  
(800) 542-7313

TIME ON: 09:11

TIME OFF: 15:40

**DRILL-STEM TEST TICKET**  
FILE: MCMILLIAN1DST1

Company Blue Ridge Petroleum Corp. Lease & Well No. McMillian #1-14  
 Contractor Southwind Drlg Rig # 3 Charge to B.R.P.C.  
 Elevation 1484' KB Formation Mississippi Effective Pay \_\_\_\_\_ Ft. Ticket No. F471  
 Date 3/11/17 Sec. 14 Twp. 23 S Range 4 W County Reno State KANSAS  
 Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3268 ft. to 3307 ft. Total Depth 3307 ft.  
 Packer Depth 3263 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.  
 Packer Depth 3268 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.  
 Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3276 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3277 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.

Mud Type CHEMICAL Viscosity 44 (4# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 1,800 P.P.M. Drill Pipe Length 3,248 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number ----- Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? ----- Reversed Out ----- Anchor Length 39 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 2.5 minutes. No BB.  
 2nd Open: Strong blow @ BOB in 3.25 minutes. No BB.

Recovered 190 ft. of MCW 80% wtr, 20% mud

Recovered 1,210 ft. of Salt Water 100% wtr

Recovered ----- ft. of -----

Recovered ----- ft. of TOTAL RECOVERED FLUID: 1,400'

Recovered ----- ft. of No G.I.P.

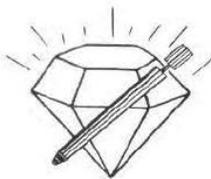
Remarks: Chlorides: 185,000 PPM  
RW: .10 ohm @ 36 F

PH: 7.0

Price Job
Other Charges
Insurance
Total

Time Set Packer(s) 11:00 A.M. P.M. Time Started Off Bottom 13:30 A.M. P.M. Maximum Temperature 114 F

Initial Hydrostatic Pressure..... (A) 1580 P.S.I.  
 Initial Flow Period..... Minutes 15 (B) 65 P.S.I. to (C) 244 P.S.I.  
 Initial Closed In Period..... Minutes 30 (D) 874 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 261 P.S.I. to (F) 610 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 873 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1574 P.S.I.



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: MCMILLIAN1DST2

TIME ON: 12:49  
 TIME OFF: 18:54

Company Blue Ridge Petroleum Corp. Lease & Well No. McMillian #1-14  
 Contractor Southwind Drlg Rig # 3 Charge to B.R.P.C.  
 Elevation 1484' KB Formation Hunton Effective Pay ----- Ft. Ticket No. F472  
 Date 3/12/17 Sec. 14 Twp. 23 S Range 4 W County Reno State KANSAS  
 Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3603 ft. to 3610 ft. Total Depth 3610 ft.  
 Packer Depth 3598 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.  
 Packer Depth 3603 SH ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.  
 Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3590 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3591 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.

Mud Type CHEMICAL Viscosity 56 (2# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.6 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in  
 Chlorides 1,780 P.P.M. Drill Pipe Length 3,578 ft. I.D. 3 1/2 in  
 Jars: Make STERLING Serial Number Shale Packer Test Tool Length 22 ft. Tool Size 3 1/2-IF in  
 Did Well Flow? ----- Reversed Out ----- Anchor Length 7 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 2". No blowback.

2nd Open: No blow, increased to a weak surface blow. No blowback.

Recovered 5 ft. of Drilling mud 100% mud  
 Recovered      ft. of       
 Recovered      ft. of (Oil spots in tools.)  
 Recovered      ft. of     

Recovered <u>    </u> ft. of <u>    </u>	Price Job
Recovered <u>    </u> ft. of <u>    </u>	Other Charges
Remarks: <u>Mis-run, suspect bad o-ring in shut in tool.</u>	Insurance
	Total

Time Set Packer(s) 14:15 A.M. P.M. Time Started Off Bottom 17:15 A.M. P.M. Maximum Temperature 113 F

Initial Hydrostatic Pressure..... (A) 1793 P.S.I.  
 Initial Flow Period..... Minutes 45 (B) 27 P.S.I. to (C) 41 P.S.I.  
 Initial Closed In Period..... Minutes 30 (D)      P.S.I.  
 Final Flow Period..... Minutes 45 (E)      P.S.I. to (F)      P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 1291 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1789 P.S.I.



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: MCMILLIAN1DST3

TIME ON: 01:25  
 TIME OFF: 08:55

Company Blue Ridge Petroleum Corp. Lease & Well No. McMillian #1-14  
 Contractor Southwind Drlg Rig # 3 Charge to B.R.P.C.  
 Elevation 1484' KB Formation Hunton Effective Pay      Ft. Ticket No. F473  
 Date 3/13/17 Sec. 14 Twp. 23 S Range 4 W County Reno State KANSAS  
 Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 3 Interval Tested from 3603 ft. to 3617 ft. Total Depth 3617 ft.  
 Packer Depth 3598 ft. Size 6 3/4 in. Packer depth      ft. Size 6 3/4 in.  
 Packer Depth 3603 SH ft. Size 6 3/4 in. Packer depth      ft. Size 6 3/4 in.  
 Depth of Selective Zone Set     

Top Recorder Depth (Inside) 3590 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3591 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth      ft. Recorder Number      Cap.      P.S.I.

Mud Type CHEMICAL Viscosity 56 (2# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.6 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in  
 Chlorides 1,780 P.P.M. Drill Pipe Length 3,578 ft. I.D. 3 1/2 in  
 Jars: Make STERLING Serial Number Shale Packer Test Tool Length 22 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 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Strong blow @ BOB in 25 seconds. Blowback @ 2".

2nd Open: Strong blow @ BOB in 30 Seconds. Blowback @ 7".

Recovered 60 ft. of SOCMW 3% oil, 52% wtr, 45% mud

Recovered 180 ft. of **SOS SMCW** <1% oil, >90% wtr, 9% mud

Recovered 2,745 ft. of **Salt Water** 100% wtr

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Price Job

Recovered \_\_\_\_\_ ft. of **TOTAL RECOVERED FLUID: 2985'** Other Charges

Remarks: **Chlorides: 83,000 PPM** Insurance

RW: .22 ohm @ 30 F

PH: 7.0 Total

Time Set Packer(s) **02:50** A.M. P.M. Time Started Off Bottom **04:50** A.M. P.M. Maximum Temperature **119 F**

Initial Hydrostatic Pressure..... (A) **1772** P.S.I.

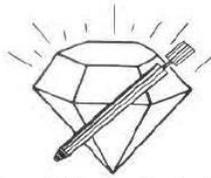
Initial Flow Period..... Minutes **15** (B) **716** P.S.I. to (C) **1209** P.S.I.

Initial Closed In Period..... Minutes **30** (D) **1295** P.S.I.

Final Flow Period..... Minutes **30** (E) **1225** P.S.I. to (F) **1300** P.S.I.

Final Closed In Period..... Minutes **45** (G) **1305** P.S.I.

Final Hydrostatic Pressure..... (H) **1768** P.S.I.



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: **MCMILLIAN1DST4**

TIME ON: **21:32 3/13**

TIME OFF: **03:57 3/14**

Company **Blue Ridge Petroleum Corp.** Lease & Well No. **McMillian #1-14**

Contractor **Southwind Drlg** Rig #**3** Charge to **B.R.P.C.**

Elevation **1484' KB** Formation **Simpson** Effective Pay \_\_\_\_\_ Ft. Ticket No. **F474**

Date **3/14/17** Sec. **14** Twp. **23** S Range **4** W County **Reno** State **KANSAS**

Test Approved By **Jim Musgrove** Diamond Representative **Jake Fahrenbruch**

Formation Test No. **4** Interval Tested from **3726** ft. to **3744** ft. Total Depth **3744** ft.

Packer Depth **3721** ft. Size **6 3/4** in. Packer depth \_\_\_\_\_ ft. Size **6 3/4** in.

Packer Depth **3726** ft. Size **6 3/4** in. Packer depth \_\_\_\_\_ ft. Size **6 3/4** in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) **3728** ft. Recorder Number **5951** Cap. **5000** P.S.I.

Bottom Recorder Depth (Outside) **3729** ft. Recorder Number **5586** Cap. **5000** P.S.I.

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type **CHEMICAL** Viscosity **52 (4# LCM)** Drill Collar Length **0** ft. I.D. **2 1/4** in.

Weight **9.3** Water Loss **8.8** cc. Weight Pipe Length **0** ft. I.D. **2 7/8** in.

Chlorides **1,800** P.P.M. Drill Pipe Length **3,701** ft. I.D. **3 1/2** in.

Jars: Make **STERLING** Serial Number \_\_\_\_\_ Test Tool Length **25** ft. Tool Size **3 1/2-IF** in.

Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length **18** 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 7.5". No blowback.**

2nd Open: **Blow increased to 9". No blowback.**

Recovered **40** ft. of **WCM** **17% wtr, 83% mud**

Recovered **125** ft. of **Salt Water** **100% wtr**

Recovered \_\_\_\_\_ ft. of **(oil specks in tools)**

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of **TOTAL RECOVERED FLUID: 165'** Price Job

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Other Charges

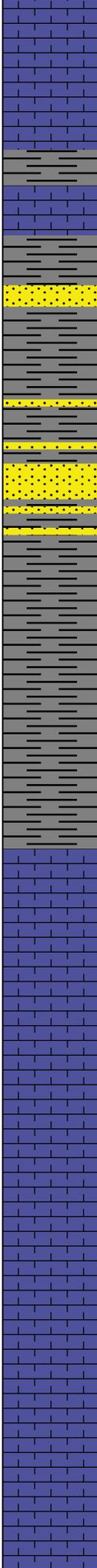
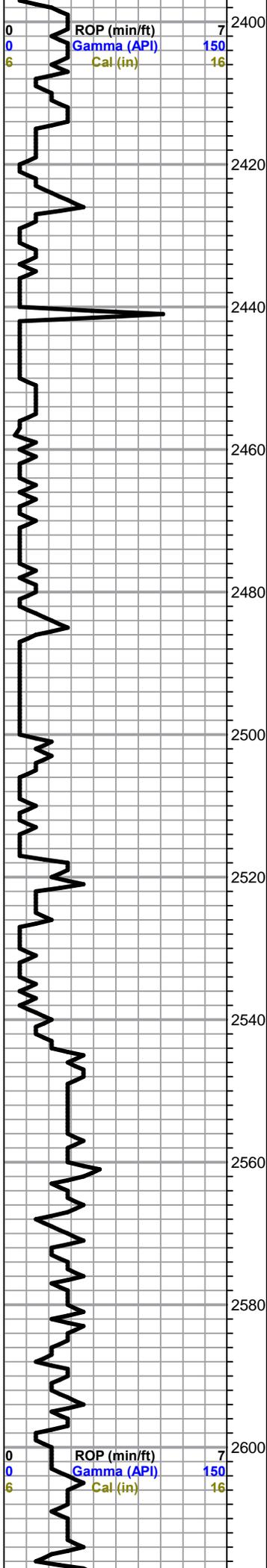
Remarks: **Chlorides: 58,500 PPM** Insurance

RW: .30 ohm @ 30 F

PH: 7.0 Total

Time Set Packer(s) **23:15** A.M. P.M. Time Started Off Bottom **02:15** A.M. P.M. Maximum Temperature **119 F**





LS, gry, foss, chalky

**Douglas 2413.0 (-929.0)**

Sh, gry, black, green

LS, tan, few foss, slightly cherty (dense), tr. pyrite

Tr. sd. white, clear, vfg, cal, friable, fair visible porosity, no shows

Sd. white, gry, vfg, sub rounded, friable, well sorted, mica, fair IG porosity (barren)

Sh, gry, dk gry

**Brown Lime 2518.0 (-1034.0)**

LS, tan, brown, fxl, slightly cherty, (dense)

**Lansing 2539.0 (-1055.0)**

LS, white, gry, foss, few chalky, scattered porosity, no shows

LS, tan, foss, scattered porosity, few cherty in part, no shows

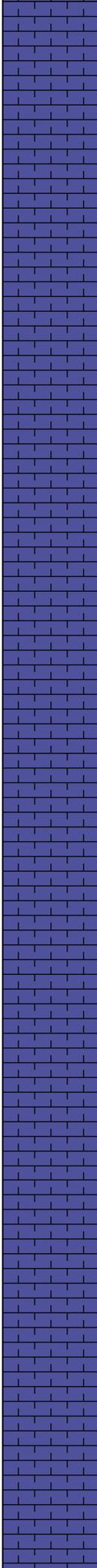
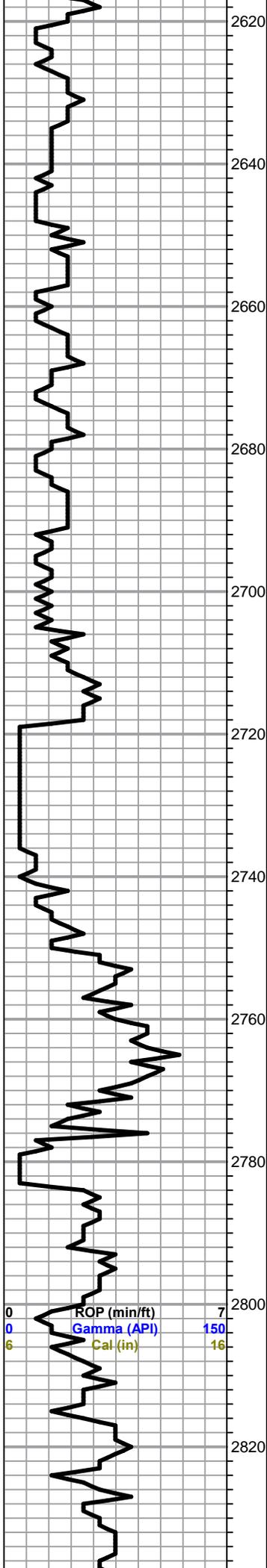
LS, gry, white, mottled, chalky, no shows

LS, white, gry, sub oom, chalky, poor visible porosity, and gry white chert

LS, white, gry, sub oom, chalky, poor visible porosity

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



LS, white, gry, sub oom, chalky, poor visible porosity, and gry, white, chert

LS, white, gry, oom, sub oom, chalky, poorly developed, and white, gry, cherts

LS, gry, white, fxl, foss, gran., fair visible porosity, plus gry, dense ls

LS, a/a, no shows

LS, tan, gry, foss, fxl, scattered p.p. porosity, no shows

LS, white, cream, oom, fair oom porosity, no shows  
Few tan, highly foss, LS, poor visible porosity, plus white, gry cherts

LS, tan, brown, cherty (dense)

LS, white, tan, few ool, oom, good oom porosity

LS, white, scattered porosity, chalky, no shows

LS, white, gry, chalky in pts, few cherty (dense)

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

2840  
2860  
2880  
2900  
2920  
2940  
2960  
2980  
3000  
3020  
3040

ROP (min/ft) 7  
Gamma (API) 150  
Cal (in) 16

LS, white, gry, fxl, foss, scattered inxln porosity, no shows  
Tr. white, gry cherts

Slug gry, dk gry, limey shale

LS, tan, slightly cherty(dense)

LS, cream, white, oom, fair oom porosity (barren)

Sh, black carb

Sh, black carb

LS, gry, white, chalky

Sh, gry, dk gry, green silty sh

**BKC 2998.0 (-1514.0)**

Sh, rusty brown, green, gry

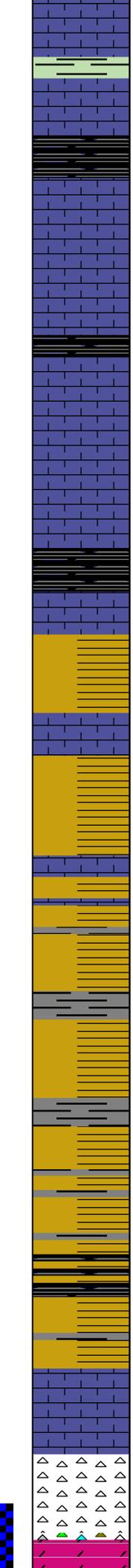
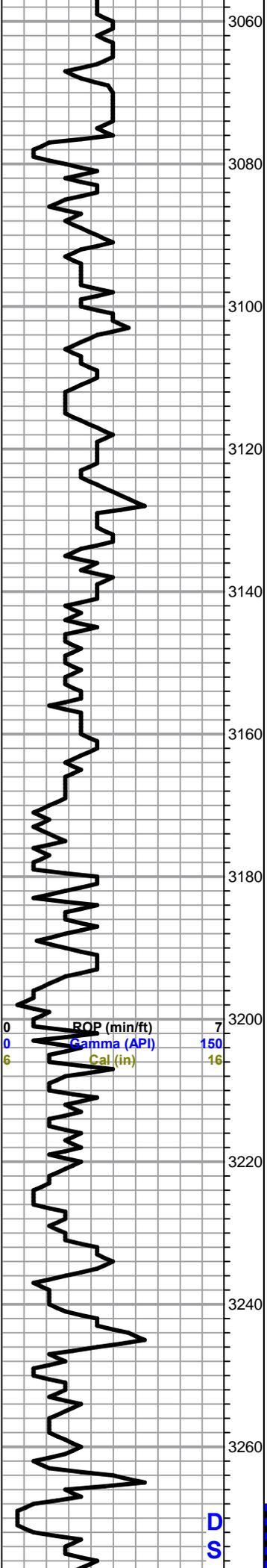
LS, gry, green tinted, highly foss, (dense)

LS, white, sandy, tr. sd. tan, white, cal, poor visible porosity, well cemented

Sd. white, green, cal, friable in pts, no shows

0 Total Gas (units) 100  
0 C1 (units) 100  
0 C2 (units) 100  
0 C3 (units) 100  
0 C4 (units) 100





Sh, gry, green  
 LS, gry, f-med xln, chalky, tr. pyrite

Sh, black carb

LS, a/a, granular, chalky, tr. pyrite

Sh, black carb

Tr. gry, gryish, green, purple, gry

LS, white, gry, tan, cherty, chalky, (few dense)

**Cherokee Shale 3134.0 (-1650.0)**

Sh, black carb

LS, tan, slightly cherty

Sh, gry, gryish,

LS, white, gry, chalky

V.C. soft shale

Tr. LS, a/a

V.C. soft shale

V.C. shale a/a

Sh, gry, black

LS, white, gry, chalky, cherty

**Mississippian 3263.0 (-1779.0)**

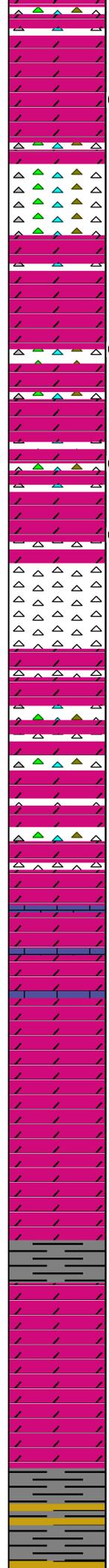
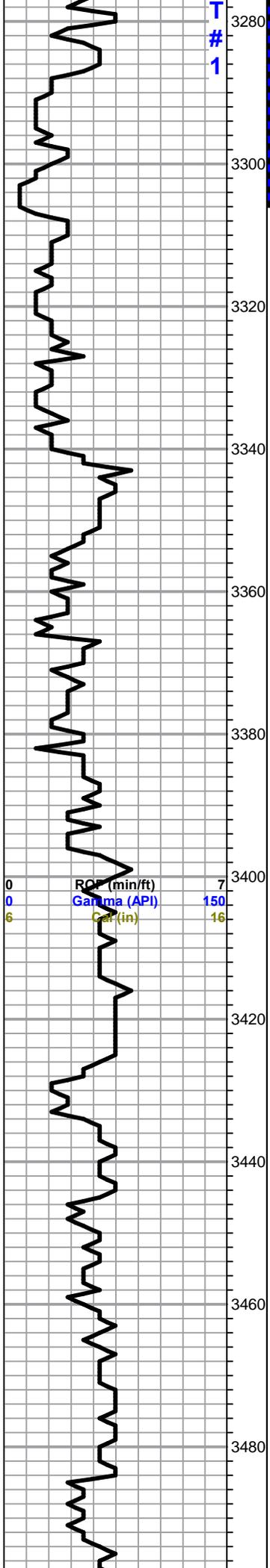
Chert, white, cream, boney

Chert a/a

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

**DST#1 3268-3307**  
 15-30-45-60

1st Open:



Dol. white, cream, suc. tr. brown stain/sat., plus white, cream, cherts

Chert, white, yellow,

Dol. white, cream, suc. tr. brown stain/sat. plus white, cream cherts

Dol. a/a, tr. golden brown stain, nsfo, no odor

Dol. white, gry, fxl, suc. gluc. plus white, foss. chert, tr. brown stain, nsfo, ??? odor

Chert, white, clear, trans

Chert, a/a, white, cream, suc. dol.

Chert, a/a, plus LS, white, f-med xln, dol.

Dol. a/a

Dol. a/a

Slug gry, purple, brown sh.

**Kinderhook 3483.0 (-1999.0)**

Sh. gry, purple, yellowish

1st Open:  
BOB 2.5 mins

2nd Open:  
BOB 3.25 mins

Recovery:  
190' MCW

1210' SW

Pressures:  
ISIP 874 psi  
FSIP 873 psi  
IFP 65-244 psi  
FFP 261-610 psi  
HSH 1580-1574 psi

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

3500  
3520  
3540  
3560  
3580  
3600  
3620  
3640  
3660  
3680  
3700

Sh. gry, purple, yellowish

Sh, A/A

Sh, purple, gry, yellow, gry

V.C. sh, few silty

a/a, silty, dolomitic???

**Hunton 3600.0 (-2116.0)**

Dol. tan, fxl, few med. xln, scattered porosity, brown stain, sfo, ft. odor

Dol. a/a, brown golden stain

Dol. a/a, stain, sat. nsfo, odor

**Maquoketa 3624.0 (-2140.0)**

Dol. white, gry, fxl, few sandy, tr. black stain

Dolomitic sh. gry, light gry

SAMPLE SKIP

Sh, a/a, gry, light gry, dolomitic

**Viola 3716.0 (-2232.0)**

**DST#2 3603-3610**

Mis-Run Bad O-ring in shut in tool

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

**DST#3 3603-3617**

15-30-30-45

1st Open:  
BOB 25 sec.

2nd Open:  
BOB 30 sec.

Recovery:  
60' SOCMW  
(3%O, 52%W, 45% M)

180' SOMCW  
(1%O, 90%W, 9% M)

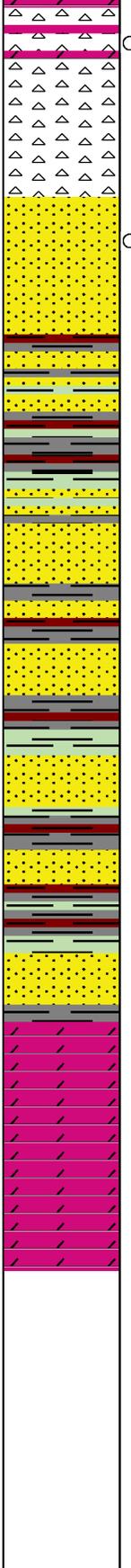
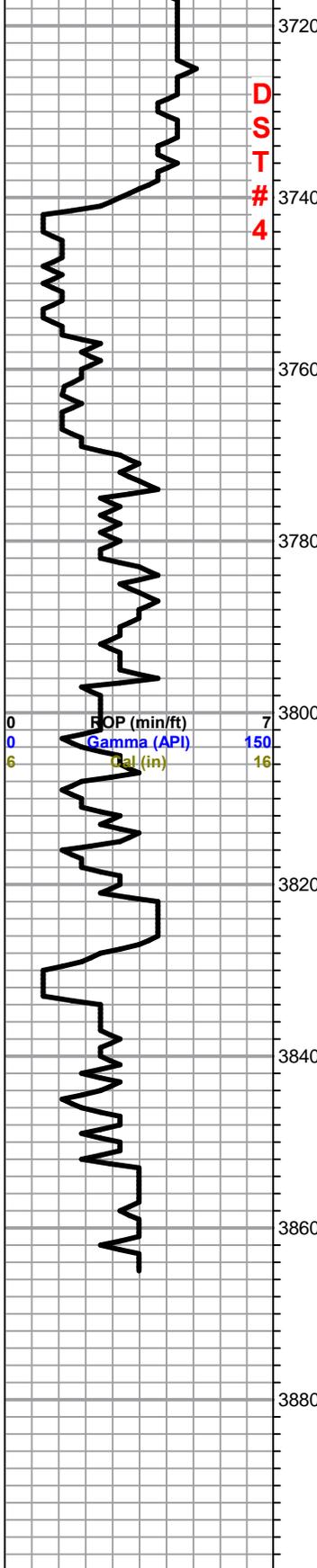
2,745' Salt Water

Pressures:  
ISIP 1295 psi  
FSIP 1305 psi  
IFP 716-1209 psi  
FFP 1225-1300 psi  
HSH 1772-1768 psi

0  
0  
6

ROP (m/ft)  
Gamma (API)  
Cal (in)

D  
S  
T  
#  
2  
#  
3



Chert, white, gry, plus white, gry, dolomite, tr. brown stain, nsfo, no odor plus white chalk

**Simpson Sand 3741.0 (-2257.0)**

Sd. clear, qtz, well rounded, friable, fair-good IG porosity, light brown stain, sfo (light/ clear) ft. odor, black tarry stain, few a/a, Sd. a/a dolomitic in part, scattered porosity

Sh, gry, gryish, green, sub waxey, shale

Sd. tan, vfg, sub angular, rounded, dolomitic

Sd. a/a

Slug, white, gry, sd. vfg, sub rounded, friable

Slug unconsolidated, qtz, grains, plus pyrite

**Lower Sand 3829.0 (-2345.0)**

Sd. white, clear, f-med grained, qtz, sub rounded, friable, fair porosity, no shows

**Arbuckle 3834.0 (-2354.0)**

Dol. gry, white, gryish, pk, f-med xln, poor visible porosity, no shows

a/a, plus white, chalk

**RTD 3865.0 (-2381.0)**

**DST#4 3726-3744**

30-45-45-60

1st Open:  
Fair 7.5"

2nd Open:  
Fair 9"

Recovery:  
40' WCM  
(17%W, 83%M)

125' Salt Water

Pressures:  
ISIP 1265 psi  
FSIP 1248 psi  
IFP 36-52 psi  
FFP 62-89 psi  
HSH 1836-1831 psi

0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 09:11  
 TIME OFF: 15:40

**DRILL-STEM TEST TICKET**  
 FILE: MCMILLIAN1DST1

Company Blue Ridge Petroleum Corp. Lease & Well No. McMillian #1-14  
 Contractor Southwind Drlg Rig # 3 Charge to B.R.P.C.  
 Elevation 1484' KB Formation Mississippi Effective Pay \_\_\_\_\_ Ft. Ticket No. F471  
 Date 3/11/17 Sec. 14 Twp. 23 S Range 4 W County Reno State KANSAS  
 Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3268 ft. to 3307 ft. Total Depth 3307 ft.  
 Packer Depth 3263 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3268 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3276 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3277 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 44 (4# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 1,800 P.P.M. Drill Pipe Length 3,248 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length 39 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ALL PERF Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow @ BOB in 2.5 minutes. No BB.  
 2nd Open: Strong blow @ BOB in 3.25 minutes. No BB.

Recovered 190 ft. of MCW 80% wtr, 20% mud  
 Recovered 1,210 ft. of Salt Water 100% wtr  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of **TOTAL RECOVERED FLUID: 1,400'**

Recovered \_\_\_\_\_ ft. of No G.I.P.

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Chlorides: 185,000 PPM

RW: .10 ohm @ 36 F

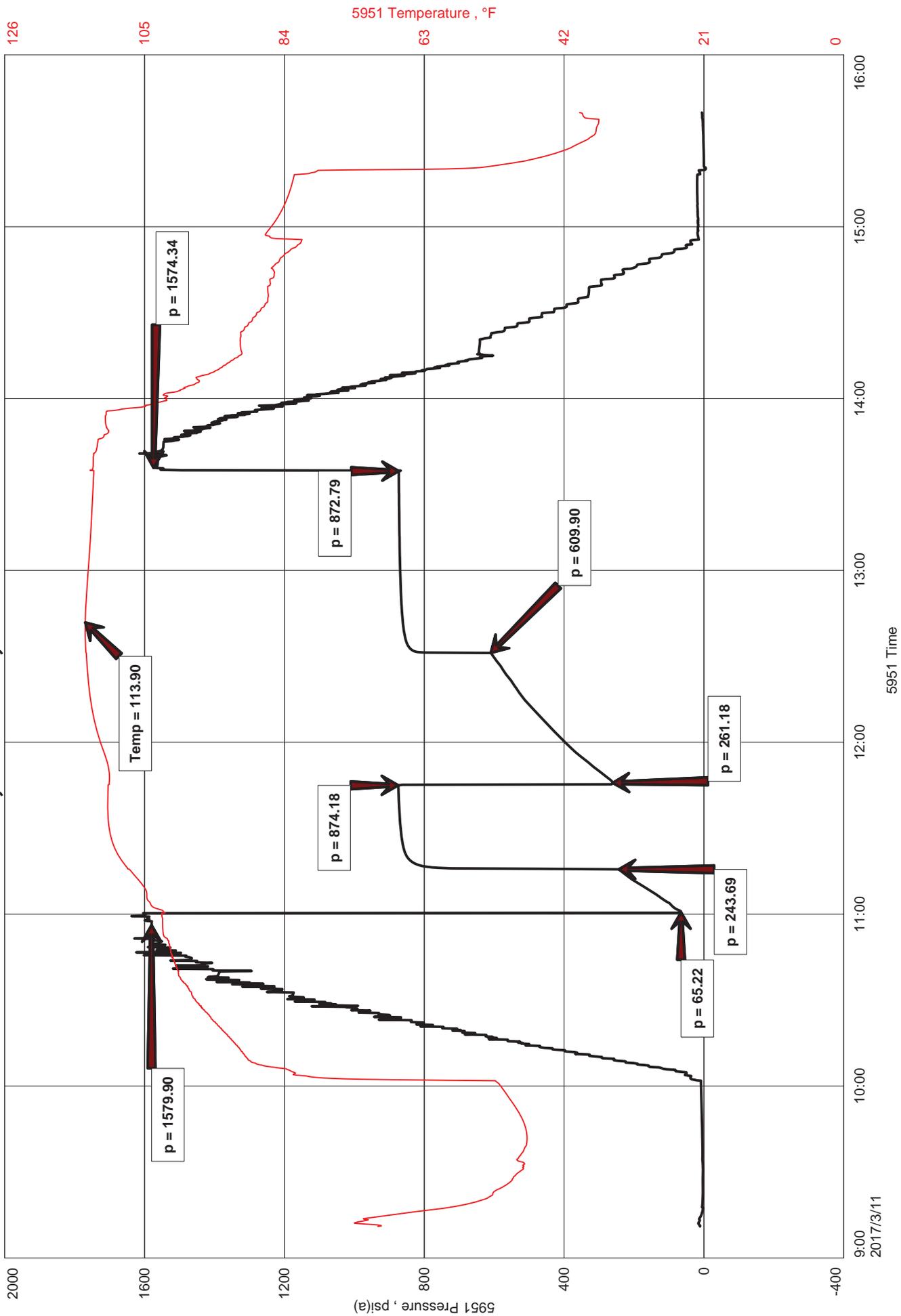
PH: 7.0

Time Set Packer(s) 11:00 A.M. P.M. Time Started Off Bottom 13:30 A.M. P.M. Maximum Temperature 114 F

Initial Hydrostatic Pressure..... (A) 1580 P.S.I.  
 Initial Flow Period..... Minutes 15 (B) 65 P.S.I. to (C) 244 P.S.I.  
 Initial Closed In Period..... Minutes 30 (D) 874 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 261 P.S.I. to (F) 610 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 873 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1574 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.

# McMILLIAN #1-14, DST #1, MISSISSIPPI 3268'-3307'





**DIAMOND TESTING**  
 P. O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: McMILLIAN 1051

ON LOCATION: 07:30  
 START RECORDERS: 09:11  
 STOP RECORDERS: 15:40

Company BLUE RIDGE PETRO. CORP. Lease & Well No. McMILLIAN #1-14  
 Contractor SOUTHWIND DRIL REG #3 Charge to B. R. P. C.  
 Elevation 1484' KB Formation MISSISSIPPI Effective Pay \_\_\_\_\_ Ft. Ticket No. F471  
 Date 3-11-17 Sec. 14 Twp. 23 S Range 4W County RENO State KS  
 Test Approved By JIM MUSBROVE Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 3268 ft. to 3307 ft. Total Depth 3307 ft.  
 Packer Depth 3263 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3268 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 3276 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3277 ft. Recorder Number 5584 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 44 (4" LCM) Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 9.6 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides 1800 P.P.M. Drill Pipe Length 3248 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length 39 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ALL HERE Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW @ B.O.B. IN 2 1/2 MIN. NO B.B.  
 2nd Open: STRONG BLOW @ B.O.B. IN 3 1/4 MIN. NO B.B.

Recovered 190 ft. of MCW 80" WTR 20' MUD  
 Recovered 1210 ft. of SALT WATER 100' WTR

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of TOTAL RECOVERED FLUID: 1400' Price Job \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of NO G.I.P. Other Charges \_\_\_\_\_

Remarks: CHLORIDES: 185,000 PPM  
RW: .10 @ 36°F 142 MRT (PRMT)  
PH: 7.0 Total \_\_\_\_\_

Time Set Packer(s) 11:00 A.M. P.M. Time Started Off Bottom 13:30 A.M. P.M. Maximum Temperature 114°F

Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1580 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 15 (B) 65 P.S.I. to (C) 244 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 30 (D) 874 P.S.I.  
 Final Flow Period \_\_\_\_\_ Minutes 45 (E) 261 P.S.I. to (F) 610 P.S.I.  
 Final Closed In Period \_\_\_\_\_ Minutes 60 (G) 873 P.S.I. THANKS!  
 Final Hydrostatic Pressure \_\_\_\_\_ (H) 1574 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.

# DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

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



## TEST INFORMATION

<b>Well Name</b>	McMillian #1-14
<b>Company Name</b>	Blue Ridge Petroleum Corp.
<b>Formation</b>	DST #1, Mississippi 3268'-3307'
<b>Test Type</b>	Bottom-Hole w/no extra equip.
<b>Surface Location</b>	Sec 14-23s-4w-Reno Co.-KS
<b>KB Elevation (SL)</b>	1484.000
<b>Gauge Name</b>	5951
<b>Start Test Date</b>	2017/03/11
<b>Start Test Time</b>	09:11:00
<b>Final Test Date</b>	2017/03/11
<b>Final Test Time</b>	15:40:00
<b>Job Number</b>	F471
<b>Contact</b>	Jonathan Allen
<b>Site Contact</b>	Jim Musgrove

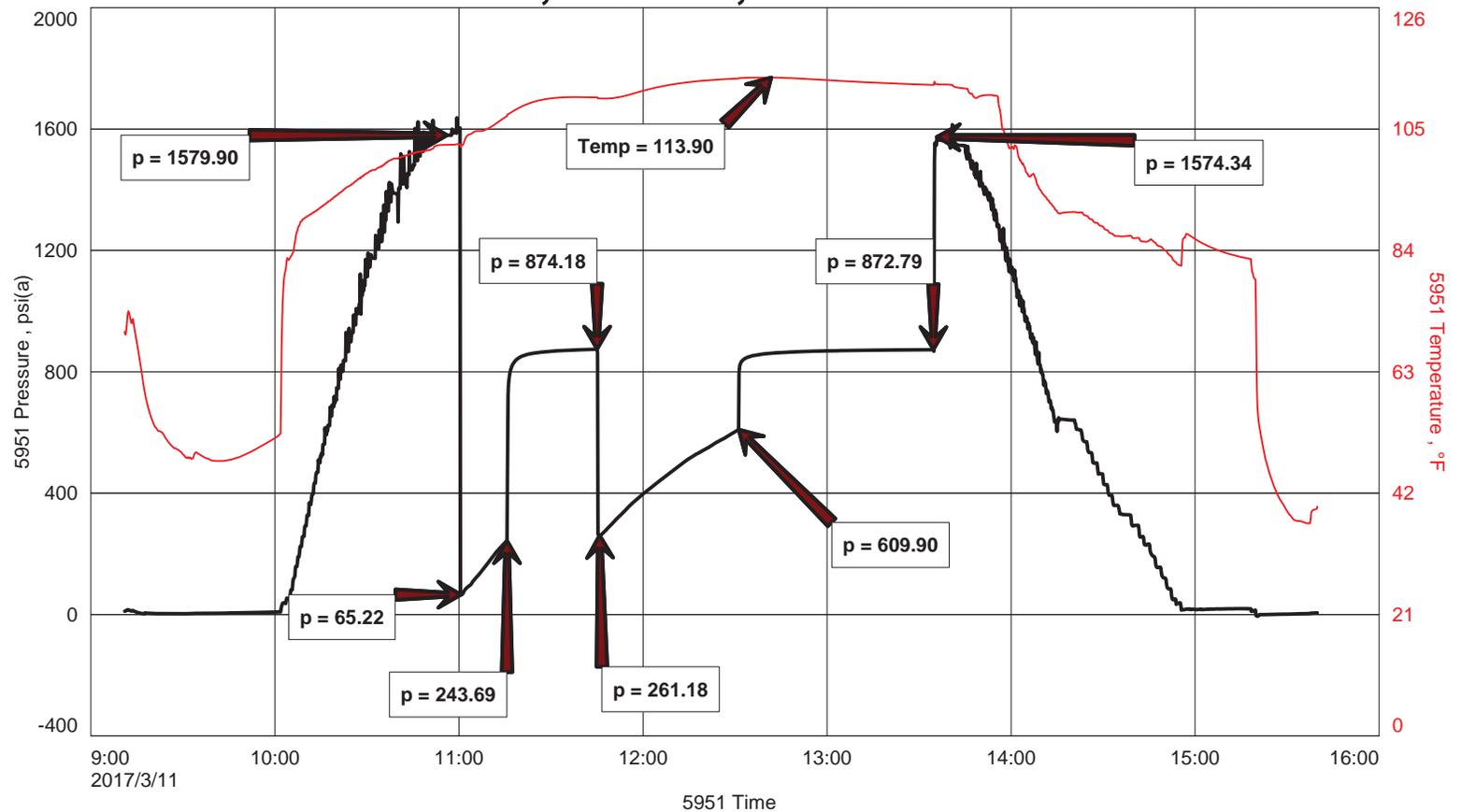
## TEST RESULTS

Initial flow, strong blow BOB in 2.5 minutes. No BB.  
 Final flow, strong blow BOB in 3.25 minutes. No BB.

**TOTAL RECOVERED FLUID: 1,400'**

- 190' MCW 80% wtr, 20% mud
- 1210' Salt Water 100% wtr
- Chlorides: 185,000 PPM
- RW: .10 ohm @ 36 F
- PH: 7.0
- NO G.I.P.

## McMILLIAN #1-14, DST #1, MISSISSIPPI 3268'-3307'







**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 12:49  
 TIME OFF: 18:54

**DRILL-STEM TEST TICKET**  
 FILE: MCMILLIAN1DST2

Company Blue Ridge Petroleum Corp. Lease & Well No. McMillian #1-14  
 Contractor Southwind Drlg Rig # 3 Charge to B.R.P.C.  
 Elevation 1484' KB Formation Hunton Effective Pay \_\_\_\_\_ Ft. Ticket No. F472  
 Date 3/12/17 Sec. 14 Twp. 23 S Range 4 W County Reno State KANSAS  
 Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3603 ft. to 3610 ft. Total Depth 3610 ft.  
 Packer Depth 3598 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3603 SH ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3590 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3591 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 (2# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.6 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 1,780 P.P.M. Drill Pipe Length 3,578 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number Shale Packer Test Tool Length 22 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? ----- Reversed Out ----- Anchor Length 7 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 2". No blowback.  
 2nd Open: No blow, increased to a weak surface blow. No blowback.

Recovered 5 ft. of Drilling mud 100% mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of (Oil spots in tools.)  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

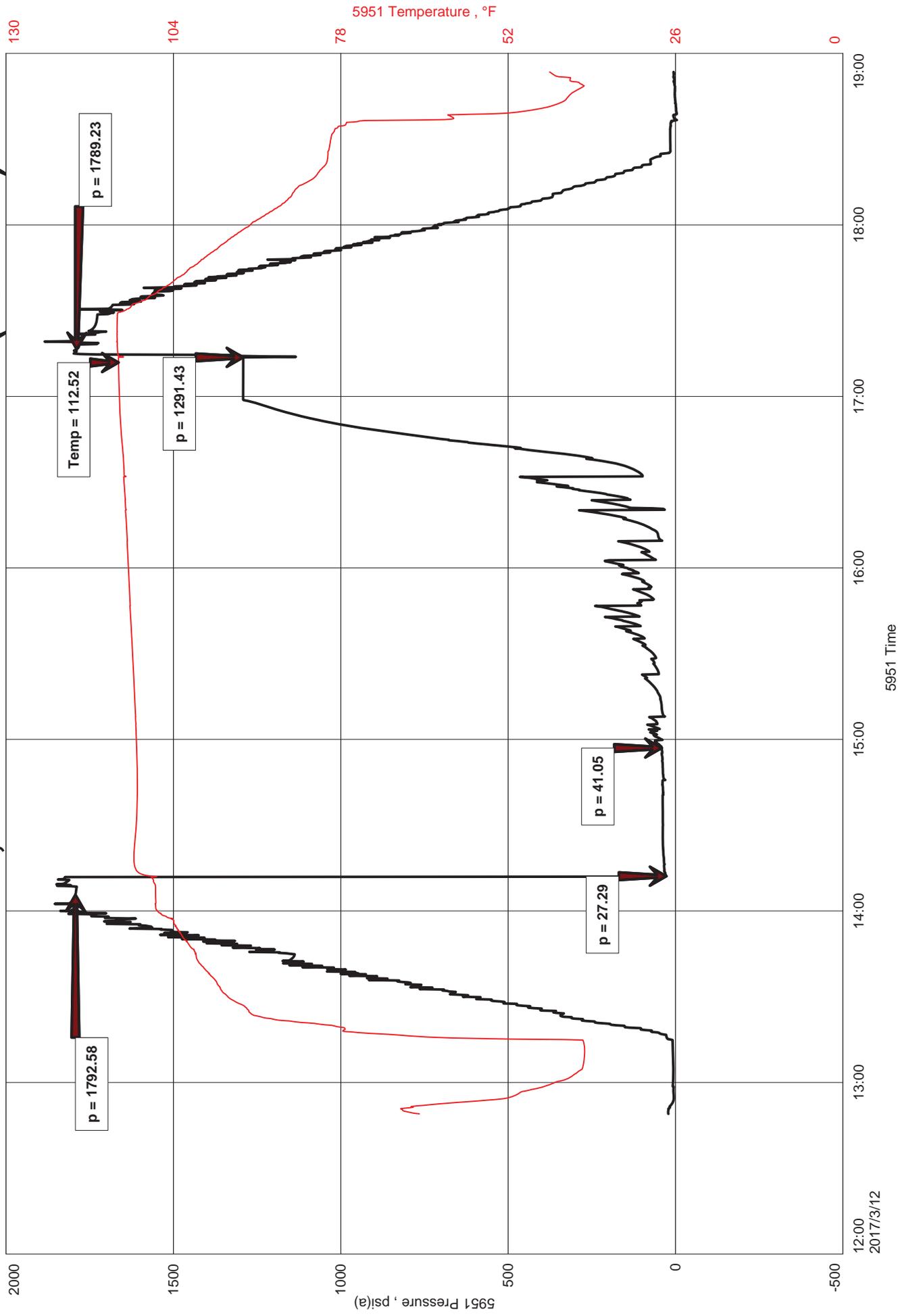
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Mis-run, suspect bad o-ring in shut in tool.</u>	Insurance
	Total

Time Set Packer(s) 14:15 A.M. P.M. Time Started Off Bottom 17:15 A.M. P.M. Maximum Temperature 113 F

Initial Hydrostatic Pressure..... (A) 1793 P.S.I.  
 Initial Flow Period..... Minutes 45 (B) 27 P.S.I. to (C) 41 P.S.I.  
 Initial Closed In Period..... Minutes 30 (D) \_\_\_\_\_ P.S.I.  
 Final Flow Period..... Minutes 45 (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 1291 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1789 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.

# McMILLIAN #1-14, DST #2 HUNTON 3603'-3610' (MIS-RUN)





DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(800) 542-7313

DRILL-STEM TEST TICKET  
FILE: McMILLIAN 1DSTZ

ON LOCATION:	<u>12:10</u>
START RECORDERS:	<u>12:49</u>
STOP RECORDERS:	<u>18:54</u>

Company BLUE RIDGE PETRO. CORP. Lease & Well No. McMILLIAN #1-14  
 Contractor SOUTHWIND DRILL RIG #3 Charge to B.R.P.C.  
 Elevation 1484' KB Formation HUNTON Effective Pay \_\_\_\_\_ Ft. Ticket No. F472  
 Date 3/12/17 Sec. 14 Twp. 23S Range 4W County RENO State KS  
 Test Approved By JIM MUSGROVE Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 3003 ft. to 3610 ft. Total Depth 3610 ft.  
 Packer Depth 3598 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3603 SH ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3590 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3591 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 50 (2# LCM) Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
 Weight 9.6 Water Loss 8.8 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides 1780 P.P.M. Drill Pipe Length 3578 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number SHALE PACKER Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length 7 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 2". NO B.B.  
 2nd Open: NO BLOW, INCREASED TO WEAK SURFACE BLOW, NO B.B.

Recovered 5 ft. of DRILL MUD 100" MUD  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of (OIL SPOTS IN TOOLS)  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Mis-Run, suspect bad o-ring in shut in tool. SHALE PACKER  
142 MRT (PRATT)  
 Total \_\_\_\_\_

Time Set Packer(s) 14:15 A.M. Time Started Off Bottom 17:15 A.M. Maximum Temperature 113°F  
 P.M. P.M.

Initial Hydrostatic Pressure..... (A) 1793 P.S.I.  
 Initial Flow Period..... Minutes 45 (B) 27 P.S.I. to (C) 41 P.S.I.  
 Initial Closed In Period..... Minutes 30 (D) \_\_\_\_\_ P.S.I.  
 Final Flow Period..... Minutes 45 (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 1291 P.S.I. THANKS!  
 Final Hydrostatic Pressure..... (H) 1789 P.S.I. Jake Fahrenbruch

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# DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



## TEST INFORMATION

Well Name	McMillian #1-14
Company Name	Blue Ridge Petroleum Corp.
Formation	DST #2, Hunton 3603'-3610'
Test Type	Bottom-Hole w/shale packer
Surface Location	Sec 14-23s-4w-Reno Co.-KS
KB Elevation (SL)	1484.000
Gauge Name	5951
Start Test Date	2017/03/12
Start Test Time	12:49:00
Final Test Date	2017/03/12
Final Test Time	18:54:00
Job Number	F472
Contact	Jonathan Allen
Site Contact	Jim Musgrove

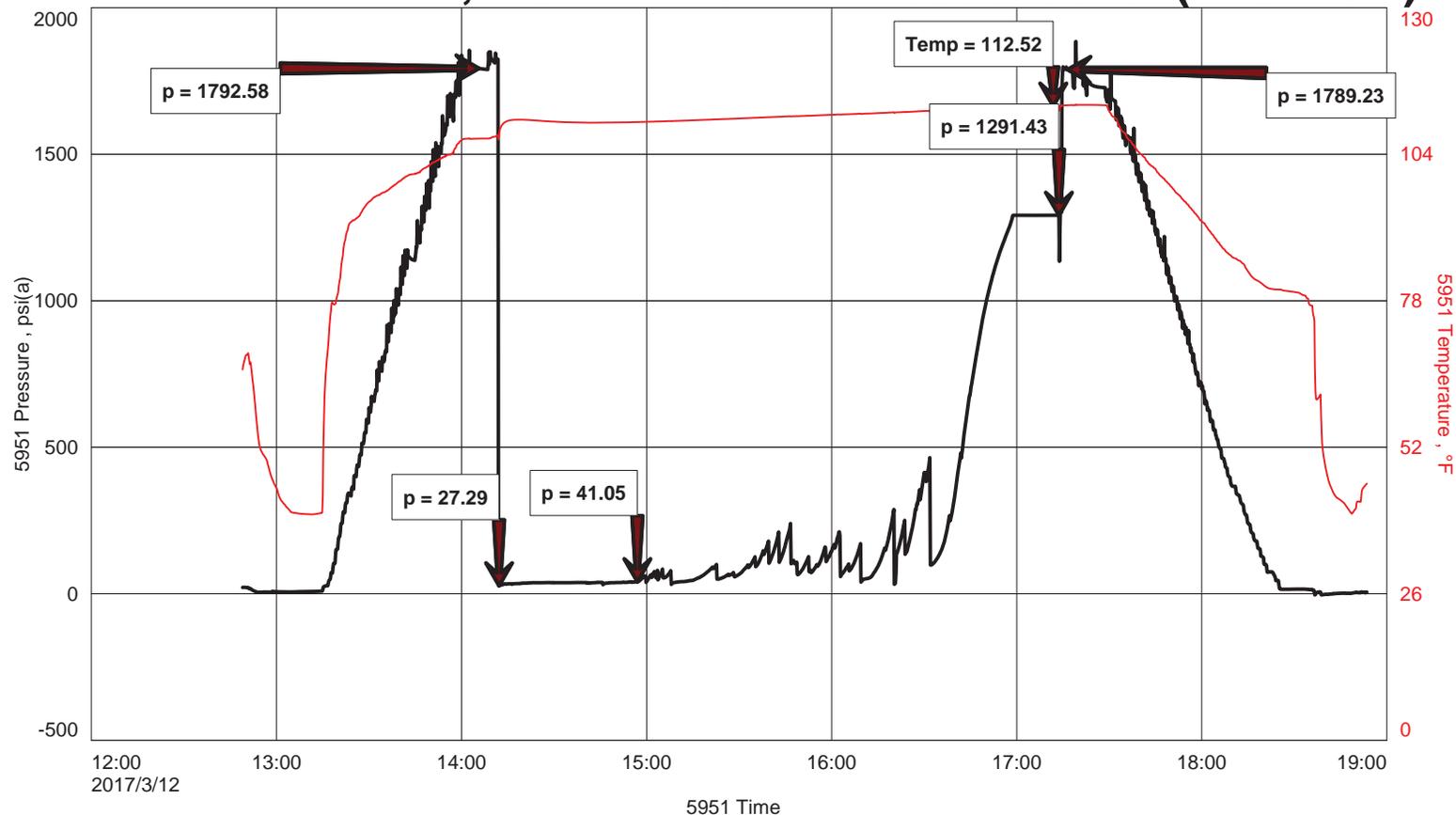
## TEST RESULTS

Initial flow, weak blow, increased to 2". No blowback.  
Final flow, no blow, increased to a weak surface blow. No blowback.

### MIS-RUN

Recovered 5' of drilling mud, 100% mud. (Oil spots in tools)

## McMILLIAN #1-14, DST #2 HUNTON 3603'-3610' (MIS-RUN)





**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 01:25  
 TIME OFF: 08:55

**DRILL-STEM TEST TICKET**  
 FILE: MCMILLIAN1DST3

Company Blue Ridge Petroleum Corp. Lease & Well No. McMillian #1-14  
 Contractor Southwind Drlg Rig # 3 Charge to B.R.P.C.  
 Elevation 1484' KB Formation Hunton Effective Pay \_\_\_\_\_ Ft. Ticket No. F473  
 Date 3/13/17 Sec. 14 Twp. 23 S Range 4 W County Reno State KANSAS  
 Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 3 Interval Tested from 3603 ft. to 3617 ft. Total Depth 3617 ft.  
 Packer Depth 3598 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3603 SH ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3590 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3591 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 (2# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.6 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 1,780 P.P.M. Drill Pipe Length 3,578 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number Shale Packer Test Tool Length 22 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 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow @ BOB in 25 seconds. Blowback @ 2".

2nd Open: Strong blow @ BOB in 30 Seconds. Blowback @ 7".

Recovered 60 ft. of SOCMW 3% oil, 52% wtr, 45% mud  
 Recovered 180 ft. of SOS SMCW <1% oil, >90% wtr, 9% mud  
 Recovered 2,745 ft. of Salt Water 100% wtr

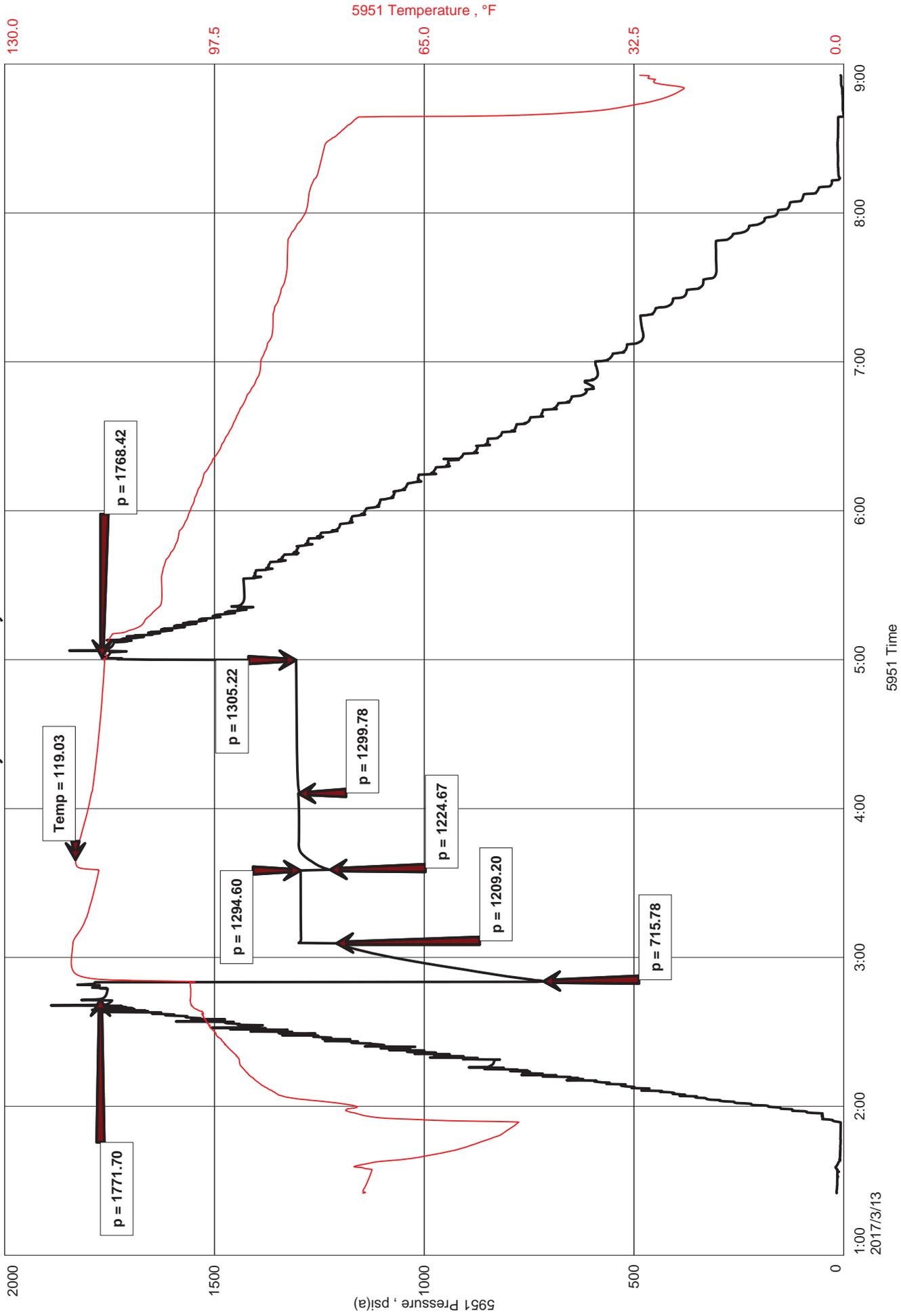
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of <u>TOTAL RECOVERED FLUID: 2985'</u>	Insurance
Remarks: <u>Chlorides: 83,000 PPM</u>	
<u>RW: .22 ohm @ 30 F</u>	
<u>PH: 7.0</u>	Total

Time Set Packer(s) 02:50 A.M. P.M. Time Started Off Bottom 04:50 A.M. P.M. Maximum Temperature 119 F

Initial Hydrostatic Pressure..... (A) 1772 P.S.I.  
 Initial Flow Period..... Minutes 15 (B) 716 P.S.I. to (C) 1209 P.S.I.  
 Initial Closed In Period..... Minutes 30 (D) 1295 P.S.I.  
 Final Flow Period..... Minutes 30 (E) 1225 P.S.I. to (F) 1300 P.S.I.  
 Final Closed In Period..... Minutes 45 (G) 1305 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1768 P.S.I.

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# McMILLIAN #1-14, DST #3, HUNTON 3603'-3617'





DIAMOND TESTING  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
 DRILL-STEM TEST TICKET  
 FILE: MCMILLIAN1DST3

ON LOCATION: \_\_\_\_\_  
 START RECORDERS: 01:25  
 STOP RECORDERS: 08:55

Company BLUE RIDGE PETRO. CORP. Lease & Well No. MCMILLIAN #1-14  
 Contractor SOUTHWIND DRLL. REG #3 Charge to B. R. P. C.  
 Elevation 1484' KB Formation HUNTON Effective Pay \_\_\_\_\_ Ft. Ticket No. F473  
 Date 3/13/17 Sec. 14 Twp. 23S Range 4W County RENO State KS  
 Test Approved By JIM MUSGROVE Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 3 Interval Tested from 3603 ft. to 3617 ft. Total Depth 3617 ft.  
 Packer Depth 3598 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3603 SH ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3590 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3591 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 (2" LCM) Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
 Weight 9.6 Water Loss 8.8 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides 1780 P.P.M. Drill Pipe Length 3578 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number SHALE PACKER Test Tool Length 25 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 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW @ BOB IN 25 SECONDS. BLOWBACK @ 2"  
 2nd Open: STRONG BLOW @ BOB IN 30 SECONDS. BLOWBACK @ 7"

Recovered 60 ft. of SOC MW 3" oil, 52" Wt, 45" mud  
 Recovered 180 ft. of SOS SMCW 41" oil, 790" Wt, 9" mud  
 Recovered 2745 ft. of SALT WATER 100" Wt

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of TOTAL RECOVERED FLUID: 2,985' Price Job \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Other Charges \_\_\_\_\_  
 Remarks CHLORIDES: 83,000 PPM SHALE PACKER  
RW: .22 u @ 30°F 142 MRT (PRATT)  
PH: 7.0 Total \_\_\_\_\_

Time Set Packer(s) 02:50 A.M. P.M. Time Started Off Bottom 04:50 A.M. P.M. Maximum Temperature 119°F

Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1772 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 15 (B) 716 P.S.I. to (C) 1209 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 30 (D) 1295 P.S.I.  
 Final Flow Period \_\_\_\_\_ Minutes 30 (E) 1225 P.S.I. to (F) 1300 P.S.I.  
 Final Closed In Period \_\_\_\_\_ Minutes 45 (G) 1305 P.S.I. THANKS!  
 Final Hydrostatic Pressure \_\_\_\_\_ (H) 1768 P.S.I. Jake Fahrenbruch

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# DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

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



## TEST INFORMATION

<b>Well Name</b>	McMillian #1-14
<b>Company Name</b>	Blue Ridge Petroleum Corp.
<b>Formation</b>	DST #3, Hunton 3603'-3617'
<b>Test Type</b>	Bottom-Hole w/Shale Packer
<b>Surface Location</b>	Sec 14-23s-4w-Reno Co.-KS
<b>KB Elevation (SL)</b>	1484.000
<b>Gauge Name</b>	5951
<b>Start Test Date</b>	2017/03/13
<b>Start Test Time</b>	01:25:00
<b>Final Test Date</b>	2017/03/13
<b>Final Test Time</b>	08:55:00
<b>Job Number</b>	F473
<b>Contact</b>	Jonathan Allen
<b>Site Contact</b>	Jim Musgrove

## TEST RESULTS

Initial flow, strong blow @ BOB in 25 seconds. Blowback @ 2".  
 Final flow, strong blow @ BOB in 30 seconds. Blowback @ 7".

TOTAL RECOVERED FLUID: 2,985'

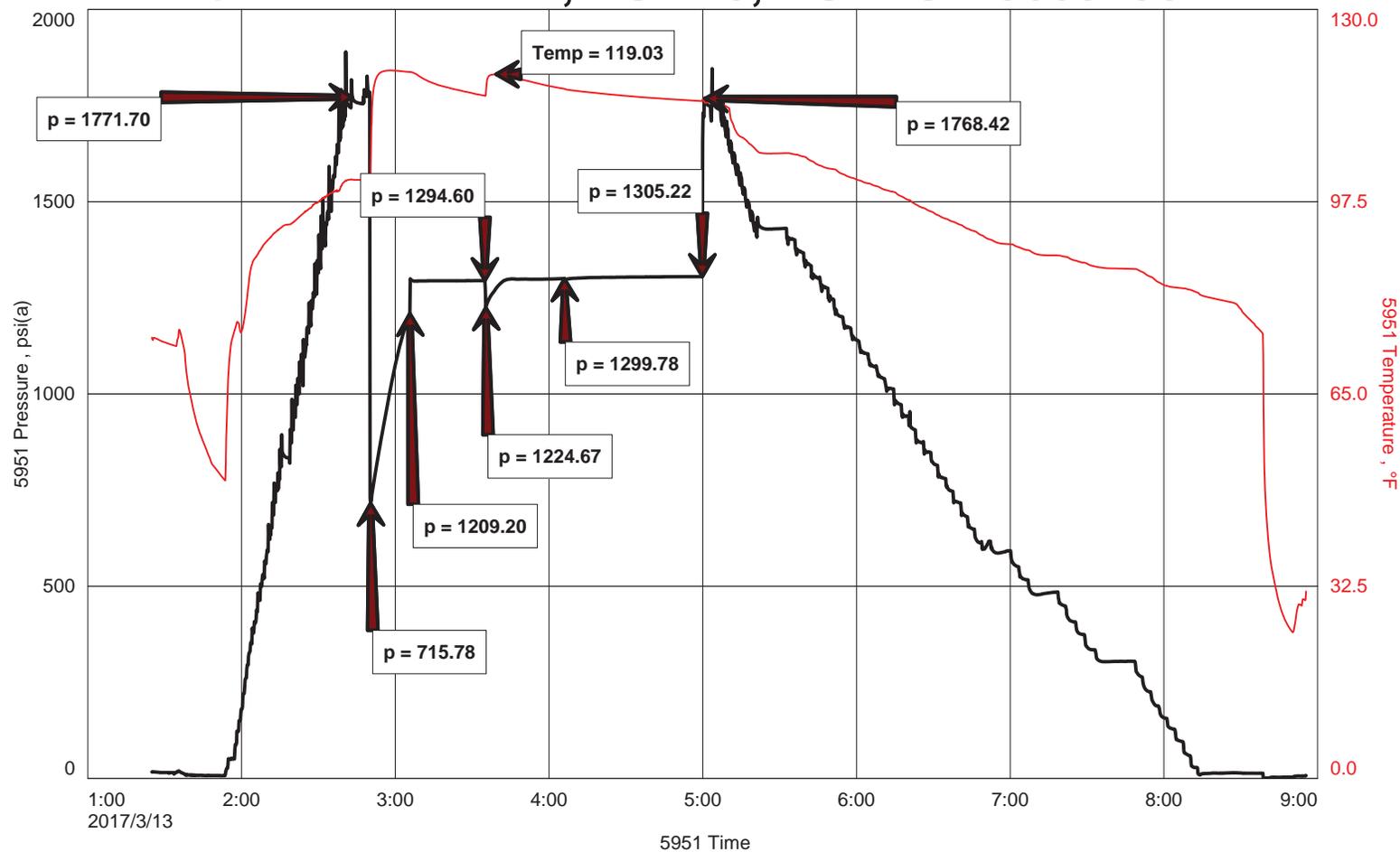
60' SOCMW 3% oil, 52% wtr, 45% mud

180' SOS SMCW <1% oil, >90% wtr, 9% mud

2745' Salt Water

Chlorides: 83,000 PPM ----- RW: .22 ohm @ 30 F ----- PH: 7.0

## McMILLIAN #1-14, DST #3, HUNTON 3603'-3617'







**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 21:32 3/13  
 TIME OFF: 03:57 3/14

**DRILL-STEM TEST TICKET**  
 FILE: MCMILLIAN1DST4

Company Blue Ridge Petroleum Corp. Lease & Well No. McMillian #1-14  
 Contractor Southwind Drlg Rig # 3 Charge to B.R.P.C.  
 Elevation 1484' KB Formation Simpson Effective Pay \_\_\_\_\_ Ft. Ticket No. F474  
 Date 3/14/17 Sec. 14 Twp. 23 S Range 4 W County Reno State KANSAS  
 Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 4 Interval Tested from 3726 ft. to 3744 ft. Total Depth 3744 ft.  
 Packer Depth 3721 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.  
 Packer Depth 3726 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.  
 Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3728 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3729 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.

Mud Type CHEMICAL Viscosity 52 (4# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 1,800 P.P.M. Drill Pipe Length 3,701 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number ----- Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? ----- Reversed Out ----- Anchor Length 18 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 7.5". No blowback.  
 2nd Open: Blow increased to 9". No blowback.

Recovered 40 ft. of WCM 17% wtr, 83% mud  
 Recovered 125 ft. of Salt Water 100% wtr  
 Recovered \_\_\_\_\_ ft. of (oil specks in tools)

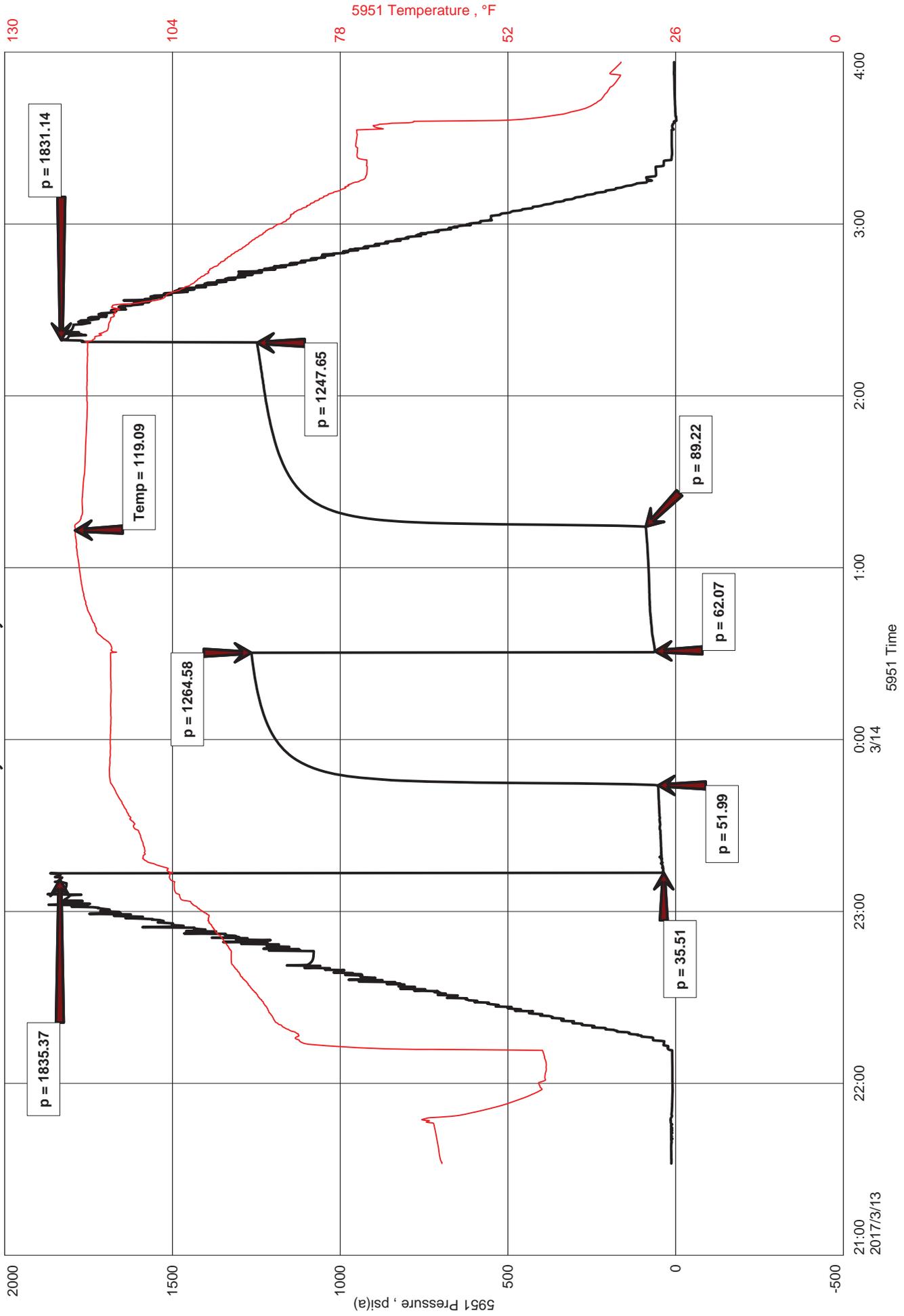
Recovered _____ ft. of <u>TOTAL RECOVERED FLUID: 165'</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Chlorides: 58,500 PPM</u>	Insurance
<u>RW: .30 ohm @ 30 F</u>	
<u>PH: 7.0</u>	Total

Time Set Packer(s) 23:15 A.M. P.M. Time Started Off Bottom 02:15 A.M. P.M. Maximum Temperature 119 F

Initial Hydrostatic Pressure..... (A) 1836 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 36 P.S.I. to (C) 52 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 1265 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 62 P.S.I. to (F) 89 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 1248 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1831 P.S.I.

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# McMILLIAN #1-14, DST #4, SIMPSON 3726'-3744'





DIAMOND TESTING  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
 DRILL-STEM TEST TICKET  
 FILE: MCNELLIAN 10574

ON LOCATION: 21:10  
 START RECORDERS: 21:32 3/13  
 STOP RECORDERS: 03:57 3/14

Company BLUE RIDGE PETRO. CORP. Lease & Well No. MCNELLIAN #1-14  
 Contractor SOUTH WIND DRIG REG#3 Charge to B. R. P. C.  
 Elevation 1484' KB Formation SIMPSON Effective Pay --- Ft. Ticket No. F474  
 Date 3/14/17 Sec. 14 Twp. 23s Range 4W County RENO State KS  
 Test Approved By JIM MUSGROVE Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 4 Interval Tested from 3726 ft. to 3744 ft. Total Depth 3744 ft.  
 Packer Depth 3721 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.  
 Packer Depth 3726 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.  
 Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 3728 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3729 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth --- ft. Recorder Number --- Cap. --- P.S.I.

Mud Type CHEMICAL Viscosity 52 (4\*LCM) Drill Collar Length --- ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length --- ft. I.D. 2 7/8 in.  
 Chlorides 1800 P.P.M. Drill Pipe Length 3701 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number --- Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? --- Reversed Out --- Anchor Length 18 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 9". NO BLOWBACK.

Recovered 40 ft. of WCM 17" wtr, 83" mud  
 Recovered 125 ft. of SALT WATER 100" wtr  
 Recovered --- ft. of (OIL SPECKS FN TOOLS)  
 Recovered --- ft. of ---

Recovered --- ft. of TOTAL RECOVERED FLUID: 165'  
 Recovered --- ft. of ---  
 Remarks: CHLORIDES: 58,500 PPM  
RW: .30 @ 30F  
PH: 7.0  
 Price Job  
 Other Charges  
 Total 142 MRT (PRAT)

Time Set Packer(s) 23:15 A.M. P.M. Time Started Off Bottom 02:15 A.M. P.M. Maximum Temperature 119 °F

Initial Hydrostatic Pressure..... (A) 1836 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 36 P.S.I. to (C) 52 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 1265 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 62 P.S.I. to (F) 89 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 1248 P.S.I. THANKS!  
 Final Hydrostatic Pressure..... (H) 1831 P.S.I. Jake Fahrenbruch

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# DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



## TEST INFORMATION

Well Name	McMillian #1-14
Company Name	Blue Ridge Petroleum Corp.
Formation	DST #4 Simpson 3726'-3744'
Test Type	Bottom-Hole w/No extra equipment
Surface Location	Sec 14-23s-4w-Reno Co.-KS
KB Elevation (SL)	1484.000
Gauge Name	5951
Start Test Date	2017/03/13
Start Test Time	21:32:00
Final Test Date	2017/03/14
Final Test Time	03:57:00
Job Number	F474
Contact	Jonathan Allen
Site Contact	Jim Musgrove

## TEST RESULTS

Initial flow, blow increased to 7.5". No blowback.

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

TOTAL RECOVERED FLUID: 165'

40' WCM 17% wtr, 83% mud

125' Salt Water 100% wtr

----- (oil specks in tools)

----- Chlorides: 58,500 PPM ----- RW: .30 ohm @ 30 F ----- PH: 7.0

## McMILLIAN #1-14, DST #4, SIMPSON 3726'-3744'

