



## DRILL STEM TEST REPORT

Prepared For: **White Exploration**

1635 N Waterfront Pkwy  
Suite 100  
Wichita KS 67206

ATTN: Andy White

**Peterson #1**

**7-29-40w Stanton,KS**

Start Date: 2017.01.31 @ 02:02:15

End Date: 2017.01.31 @ 11:51:30

Job Ticket #: 65697                      DST #: 1

Trilobite Testing, Inc  
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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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1635 N Waterfront Pkw y  
Suite 100  
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Job Ticket: 65697

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Test Start: 2017.01.31 @ 02:02:15

## GENERAL INFORMATION:

Formation: **Keys Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:56:45

Time Test Ended: 11:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

**Interval: 5420.00 ft (KB) To 5445.00 ft (KB) (TVD)**

Reference Elevations: 3322.00 ft (KB)

Total Depth: 5455.00 ft (KB) (TVD)

3312.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 6749 Outside**

Press@RunDepth: 183.44 psig @ 5421.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.31

End Date:

2017.01.31

Last Calib.: 2017.01.31

Start Time: 02:02:15

End Time:

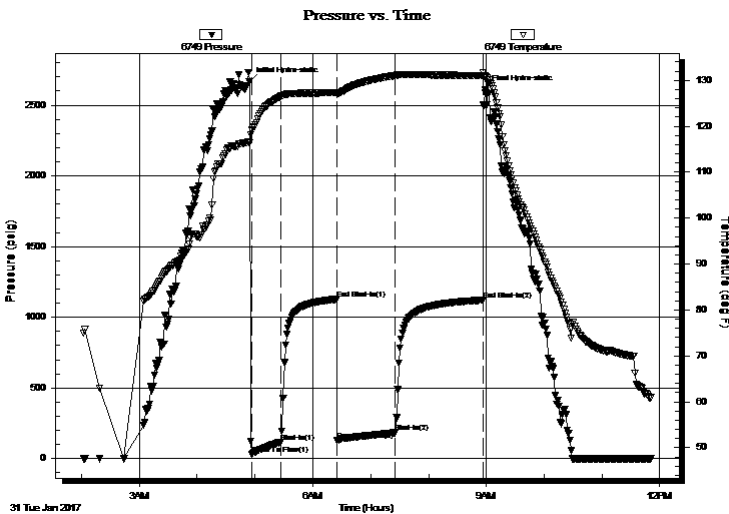
11:51:30

Time On Btm: 2017.01.31 @ 04:54:30

Time Off Btm: 2017.01.31 @ 08:58:30

**TEST COMMENT:** IF:BOB in 24 min.  
IS:Built to 1/8" blow  
FF:Built to 9" blow  
FS:Built to weak surface blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2666.29	116.49	Initial Hydro-static
3	31.94	119.13	Open To Flow (1)
33	117.55	126.58	Shut-In(1)
91	1127.43	127.35	End Shut-In(1)
91	128.01	127.02	Open To Flow (2)
151	183.44	131.05	Shut-In(2)
242	1121.23	131.06	End Shut-In(2)
244	2607.13	130.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	sw 100%sw (collars)	0.61
124.00	gcmw 2%g 3%m 95%w (collars)	0.61
124.00	gcom 2%g 3%o 95%m	1.21
0.00	GIP= 186 ft	0.00

## Gas Rates

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





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**TOOL DIAGRAM**

White Exploration

**7-29-40w Stanton,KS**

1635 N Waterfront Pkwy  
Suite 100  
Wichita KS 67206  
ATTN: Andy White

**Peterson #1**

Job Ticket: 65697

**DST#: 1**

Test Start: 2017.01.31 @ 02:02:15

## Tool Information

Drill Pipe:	Length: 5092.00 ft	Diameter: 3.80 inches	Volume: 71.43 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 306.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 72.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	5420.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			5390.00	
Sampler	3.00			5393.00	
Shut In Tool	5.00			5398.00	
Hydraulic tool	5.00			5403.00	
Jars	5.00			5408.00	
Safety Joint	3.00			5411.00	
Packer	5.00			5416.00	31.00 Bottom Of Top Packer
Packer	4.00			5420.00	
Stubb	1.00			5421.00	
Recorder	0.00	8672	Inside	5421.00	
Recorder	0.00	6749	Outside	5421.00	
Perforations	19.00			5440.00	
Bullnose	5.00			5445.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



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**FLUID SUMMARY**

White Exploration

**7-29-40w Stanton,KS**

1635 N Waterfront Pkw y  
Suite 100  
Wichita KS 67206  
ATTN: Andy White

**Peterson #1**

Job Ticket: 65697

**DST#: 1**

Test Start: 2017.01.31 @ 02:02:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

14300 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	sw 100%sw (collars)	0.610
124.00	gcmw 2%g 3%m 95%w (collars)	0.610
124.00	gcom 2%g 3%o 95%m	1.211
0.00	GIP= 186 ft	0.000

Total Length: 372.00 ft

Total Volume: 2.431 bbl

Num Fluid Samples: 0

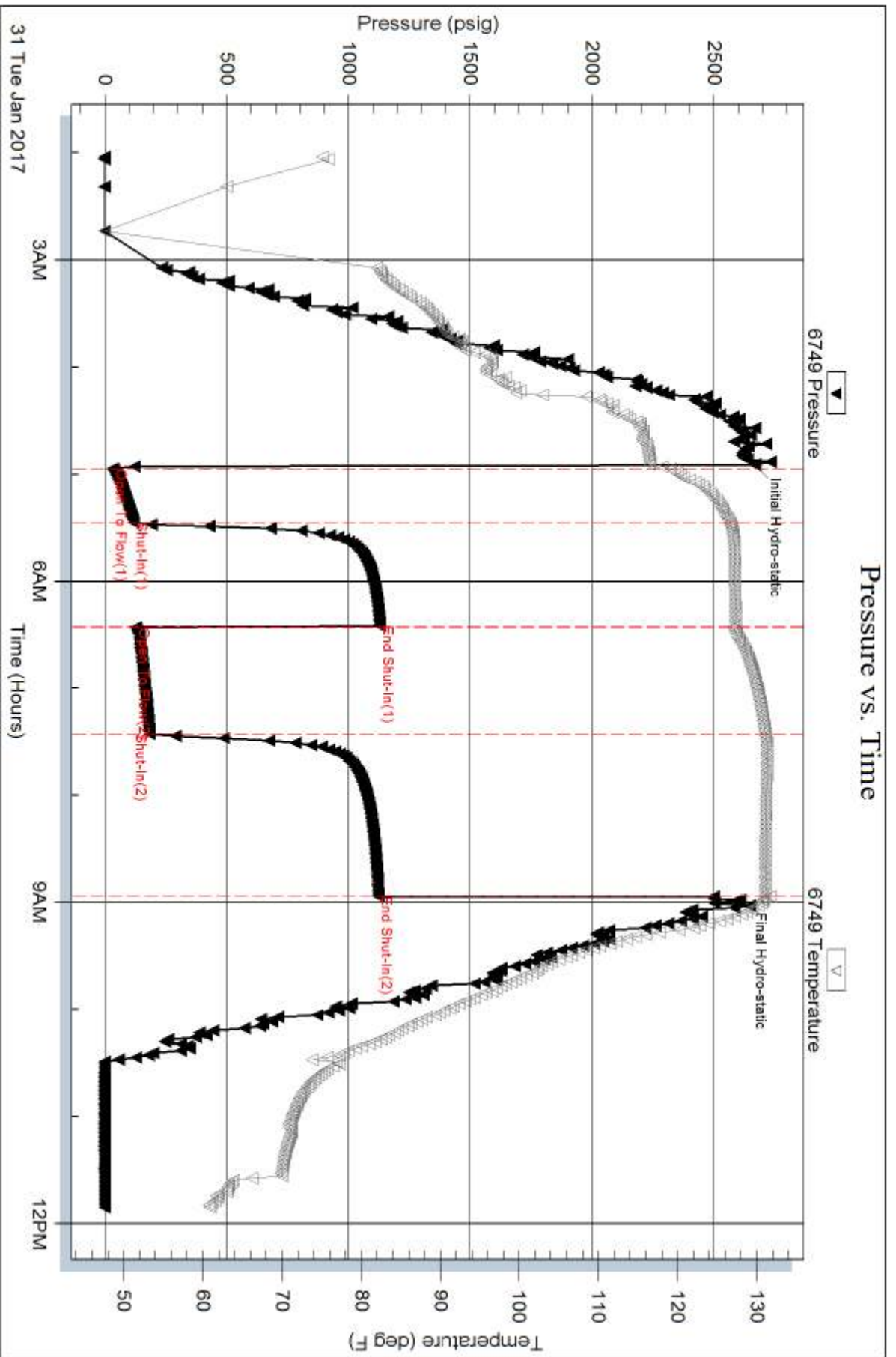
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .625@53.5= 14,300 ppm



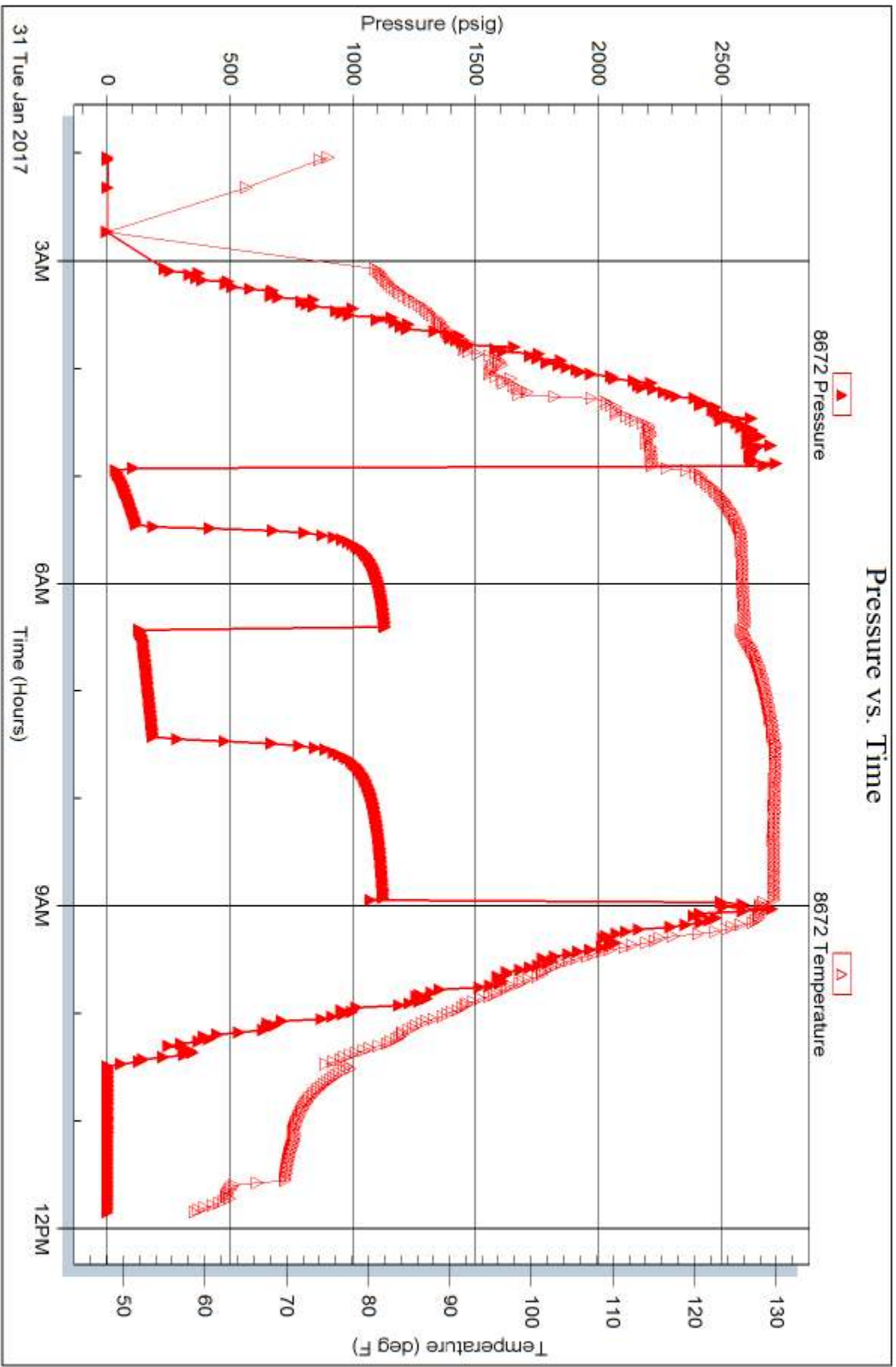
Serial #: 8672

Inside

White Exploration

Peterson #1

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65697**

Well Name & No. Peterson #1 Test No. 1 Date 1-30-17  
 Company White Exploration Elevation \_\_\_\_\_ KB \_\_\_\_\_ GL \_\_\_\_\_  
 Address 1635 N Waterfront Pkwy Suite 100 Wichita KS 67206  
 Co. Rep / Geo. Andy White Rig \_\_\_\_\_  
 Location: Sec. 7 Twp. 29 Rge. 40w Co. Stanton State KS

Interval Tested 5420-5445 Zone Tested Keys Sand  
 Anchor Length 25 Drill Pipe Run 5092 Mud Wt. 9.3  
 Top Packer Depth 5415 Drill Collars Run 306 Vis 63  
 Bottom Packer Depth 5420 Wt. Pipe Run Ø WL 6.4  
 Total Depth 5445 Chlorides 400 ppm System LCM 16 - Pumped Pill  
 Blow Description IF: BOB in 24 Min  
IS: Built to 1/8" Blow  
FF: Built to 9" Blow  
FS: Built to weak surface Blow

Rec	Feet of		%gas	%oil	%water	%mud
<del>120</del>	Feet of <u>GIP =</u>	<del>186</del>	100			
124	Feet of <u>gcom</u>		2	3	95	
124	Feet of <u>gcmw</u>	(collars)	2	95	3	
124	Feet of <u>SW</u>	(collars)		100		
Rec Total	<u>372</u>	BHT <u>130</u>	Gravity _____	API RW <u>625 @ 53.5</u>	F Chlorides <u>14300</u>	ppm

(A) Initial Hydrostatic 2666  
 (B) First Initial Flow 31  
 (C) First Final Flow 117  
 (D) Initial Shut-In 1127  
 (E) Second Initial Flow 128  
 (F) Second Final Flow 183  
 (G) Final Shut-In 1121  
 (H) Final Hydrostatic 2607

Test \$1250.00/- T-On Location 10:12  
 Jars \$250.00/- T-Started 02:02  
 Safety Joint \$75.00/- T-Open 04:55  
 Circ Sub NC T-Pulled 08:55  
 Hourly Standby \_\_\_\_\_ T-Out 11:51  
 Mileage 242RT \$181.50/- Comments \_\_\_\_\_  
 Sampler \$250.00/- \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \$250.00/- \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total \$2256.50/-

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 2256.50  
 MP/DST Disc't \_\_\_\_\_

Approved By [Signature]

Our Representative Mike Roberts

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# TRILOBITE TESTING, INC.

1515 Commerce Parkway • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 65697 Date 1-30-17  
 Company Name White Exploration  
 Lease Peterson #1 Test No. 1  
 County Stanton Sec. 7 Twp. 29 Rng. 40w

### SAMPLER RECOVERY

Gas / ML  
 Oil 1 ML  
 Mud 1 ML  
 Water ~~748~~ 748 ML  
 Other / ML  
 Pressure / ML  
 Total 750 ML

### PIT MUD ANALYSIS

Chlorides 400 ppm.  
 Resistivity Ø ohms @ \_\_\_\_\_ F  
 Viscosity 63  
 Mud Weight 9.3  
 Filtrate 6.4  
 LCM 16# Pumped  
 Other Bill at Test

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides 14,300 ppm.  
 Gravity / corrected @60F

### PIPE RECOVERY

~~TOP  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 MIDDLE  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 BOTTOM  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.~~