

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ramsey Property Mgmt.**

2932 NW 122nd St. Ste 4
Oklahoma City, KS 73120

ATTN: Austin Garner / C An

Holt #1

31-34s-42w Baca, CO

Start Date: 2013.09.14 @ 22:00:00

End Date: 2013.09.15 @ 09:57:10

Job Ticket #: 52937 DST #: 1

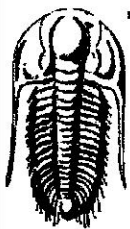
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.16 @ 15:45:31

Ramsey Property Mgmt. 31-34s-42w Baca, CO Holt #1 DST # 1 Keyes 2013.09.14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ramsey Property Mgmt.

31-34s-42w Baca, CO

2932 NW 122nd St. Ste 4
Oklahoma City, KS 73120

Holt #1

Job Ticket: 52937

DST#: 1

ATTN: Austin Garner / C An

Test Start: 2013.09.14 @ 22:00:00

GENERAL INFORMATION:

Formation: **Keyes**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:27:50

Time Test Ended: 09:57:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Interval: 4621.00 ft (KB) To 4638.00 ft (KB) (TVD)

Total Depth: 4638.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3650.00 ft (KB)

3640.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press@RunDepth: 163.90 psig @ 4623.00 ft (KB)

Start Date: 2013.09.14

End Date:

2013.09.15

Start Time: 22:00:02

End Time:

09:57:10

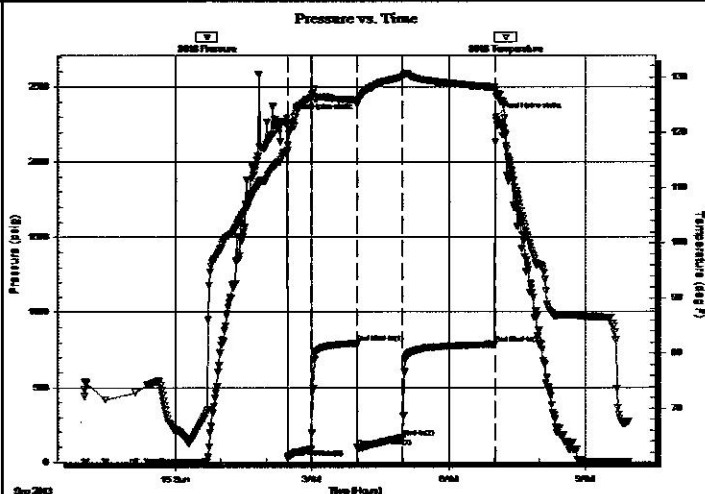
Capacity: 8000.00 psig

Last Calib.: 2013.09.15

Time On Btm: 2013.09.15 @ 02:26:50

Time Off Btm: 2013.09.15 @ 07:02:19

TEST COMMENT: B.O.B. @ 6 min.
6" Return.
B.O.B. @ 8 min.
B.O.B. @ 16 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.17	116.47	Initial Hydro-static
1	32.17	116.90	Open To Flow (1)
32	85.83	126.44	Shut-In(1)
92	795.99	125.76	End Shut-In(1)
93	100.55	125.08	Open To Flow (2)
153	163.90	129.99	Shut-In(2)
274	789.22	128.19	End Shut-In(2)
276	2303.82	126.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3317' GIP	0.00
180.00	GOCM 10g 15o 75m	0.89
186.00	GO 40g 60o	2.61
92.00	GO 25g 75o	1.29

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Ramsey Property Mgmt.

ATTN: Austin Garner / CAn

Holt #1

Job Ticket: 52937

DST#: 1

Test Start: 2013.09.14 @ 22:00:00

Formation: **Keyes**

Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:27:50
Time Test Ended: 09:57:10

Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Smith
Unit No: 62

Interval: 4621.00 ft (KB) To 4638.00 ft (KB) (TVD)
Total Depth: 4638.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Good

Reference Elevations: 3650.00 ft (KB)
3640.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6751

Outside

Press@RunDepth: psig @ 4623.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.14

End Date: 2013.09.15

Last Calib.: 2013.09.15

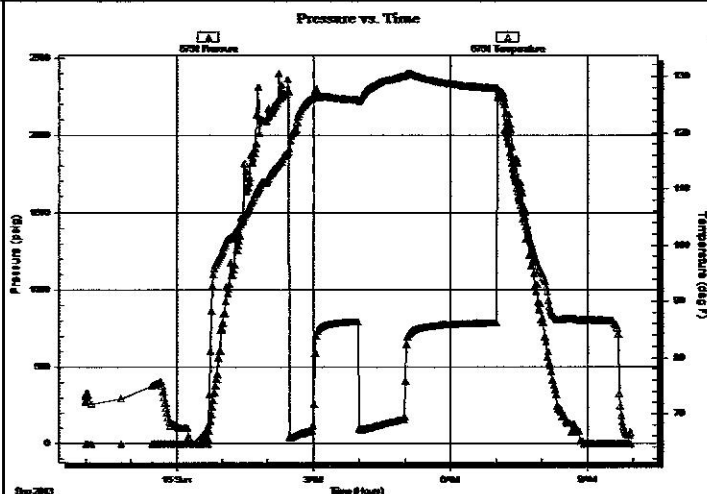
Start Time: 22:00:21

End Time: 09:57:09

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. @ 6 min.
6" Return.
B.O.B. @ 8 min.
B.O.B. @ 16 min.



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

Length (ft)	Description	Volume (bbl)
0.00	3317' GIP	0.00
180.00	GOCM 10g 15o 75m	0.89
186.00	GO 40g 60o	2.61
92.00	GO 25g 75o	1.29

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ramsey Property Mgmt.

31-34s-42w Baca, CO

2932 NW 122nd St. Ste 4
Oklahoma City, KS 73120

Holt #1

Job Ticket: 52937

DST#: 1

ATTN: Austin Garner / C An

Test Start: 2013.09.14 @ 22:00:00

Tool Information

Drill Pipe:	Length: 4420.00 ft	Diameter: 3.80 inches	Volume: 62.00 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 62.89 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.50 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4621.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	46.50 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			4592.50	
Shut In Tool	5.00			4597.50	
Sampler	2.00			4599.50	
Hydraulic tool	5.00			4604.50	
Jars	5.00			4609.50	
Safety Joint	2.50			4612.00	
Packer	5.00			4617.00	29.50 Bottom Of Top Packer
Packer	4.00			4621.00	
Stubb	1.00			4622.00	
Perforations	1.00			4623.00	
Recorder	0.00	8018	Inside	4623.00	
Recorder	0.00	6751	Outside	4623.00	
Perforations	12.00			4635.00	
Bullnose	3.00			4638.00	17.00 Bottom Packers & Anchor

Total Tool Length: 46.50



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DRILL STEM TEST REPORT

FLUID SUMMARY

Ramsey Property Mgmt.

31-34s-42w Baca, CO

2932 NW 122nd St. Ste 4
Oklahoma City, KS 73120

Holt #1

Job Ticket: 52937

DST#: 1

ATTN: Austin Garner / C An

Test Start: 2013.09.14 @ 22:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3317' GIP	0.000
180.00	GOCM 10g 15o 75m	0.885
186.00	GO 40g 60o	2.609
92.00	GO 25g 75o	1.291

Total Length: 458.00 ft

Total Volume: 4.785 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 39 @ 80 Degrees F = 37.

Sampler: 200 psi, 10 cu/ft gas, 375 ml gas / 1625ml oil

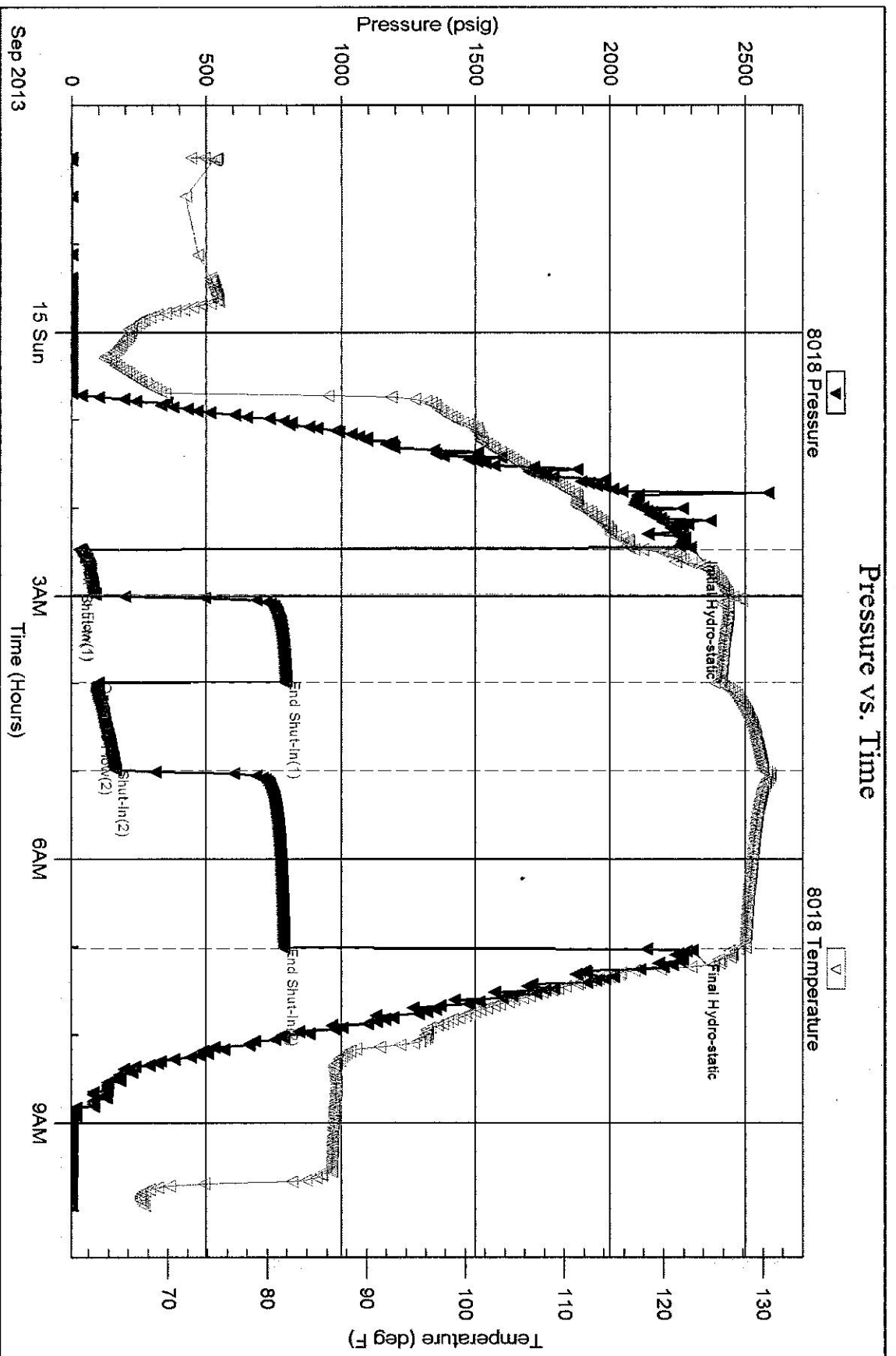
Serial #: 8018

Inside

Ramsey Property Mgmt.

Hot #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 52937

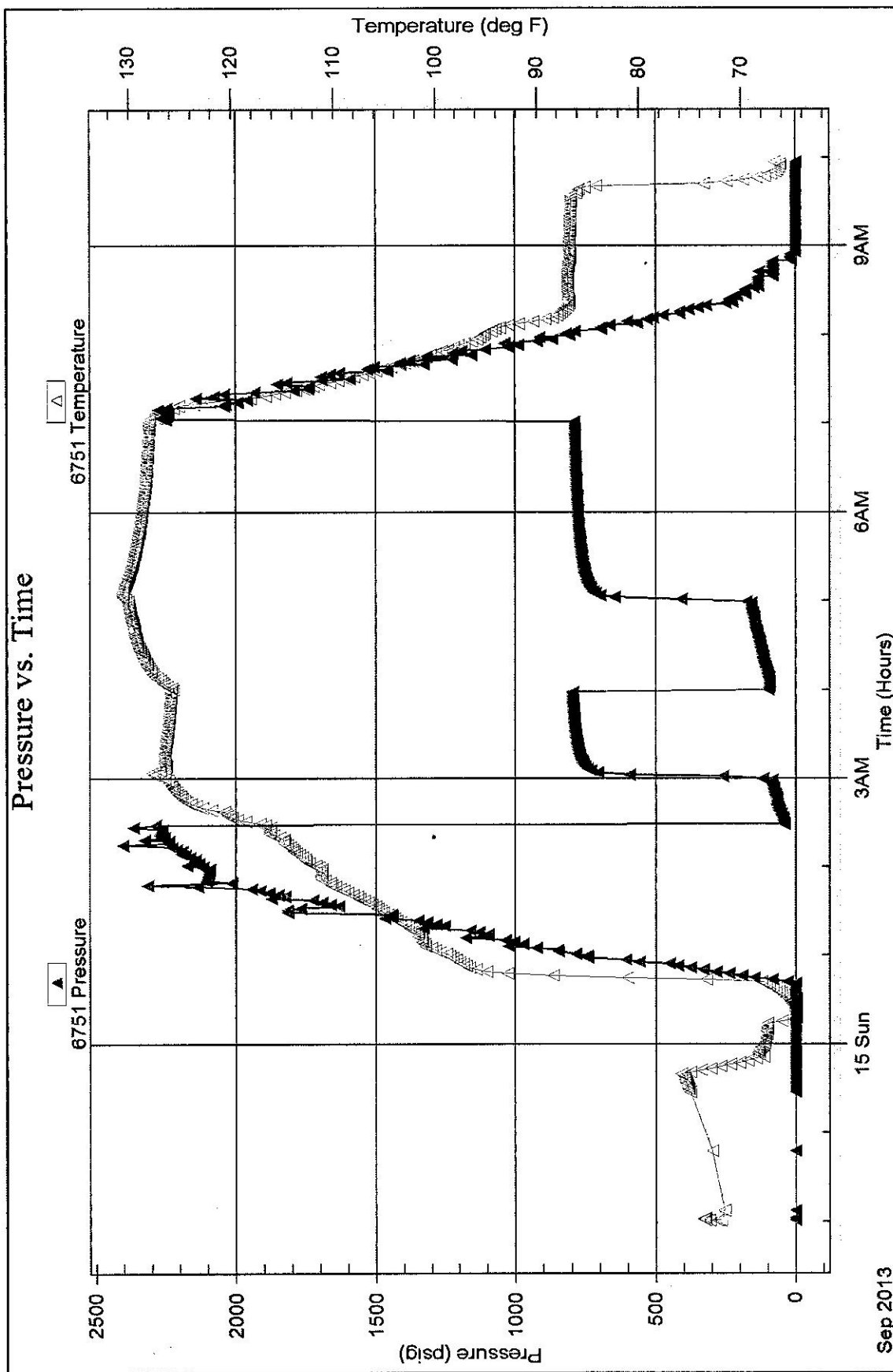
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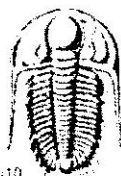
Serial #: 6751

Outside Ramsey Property Mgmt.

Holt #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52937

Well Name & No. Holt #1 Test No. 1 Date 9-14-13
Company Ramsey Property Mgmt. Elevation 3650 KB 3640 GL
Address 2932 NW 122nd St. STE 4 Oklahoma City, OK 73120
Co. Rep / Geo. Austin Gasi Rig M#20
Location: Sec. 31 Twp 34S Rge. 42W Co. Becca State CO

Interval Tested 4621 - 4638 Zone Tested Keyes
Anchor Length 17 Drill Pipe Run 4420 Mud Wt. 9.2
Top Packer Depth 4617 Drill Collars Run 180 Vis 60
Bottom Packer Depth 4621 Wt. Pipe Run 0 WL 8.0
Total Depth 4638 Chlorides 800 ppm System LCM 8"

Blow Description B.O.B @ 6 min.
6" Return
B.O.B @ 8 min.
B.O.B @ 16 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Feet of 60cm</u>	<u>10</u>	<u>15</u>	<u>75</u>	<u>75</u>
<u>186</u>	<u>Feet of 60</u>	<u>40</u>	<u>60</u>	<u>75</u>	<u>75</u>
<u>92</u>	<u>Feet of 60</u>	<u>25</u>	<u>75</u>	<u>75</u>	<u>75</u>
<u>3317</u>	<u>Feet of 61P</u>	<u>75</u>	<u>75</u>	<u>75</u>	<u>75</u>

Rec Total 458 BHT 128 Gravity 37 API RW @ F Chlorides — ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>2297</u>	<u>32</u>	<u>86</u>	<u>796</u>	<u>101</u>	<u>164</u>	<u>789</u>	<u>2304</u>

Test	Jars	Safety Joint	Circ Sub	Hourly Standby	Mileage	Sampler	Straddle	Shale Packer	Extra Packer	Extra Recorder	Day Standby	Accessibility
<u>1450</u>	<u>250</u>	<u>75</u>	<u>75</u>	<u>34</u>	<u>350</u>	<u>527</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>

Initial Open 30
Initial Shut-In 60
Final Flow 60
Final Shut-In 120

Sub Total 3152

Approved By Austin Gasi Our Representative Chuck Smith

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of 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 statements or opinion concerning the results 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



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 52937 Date 9-14-13
Company Name Ramsey Property Mgmt.
Lease Holt #1 Test No. 1
County Baca, CO Sec. 31 Twp. 34s Rng. 42w

SAMPLER RECOVERY

Gas 375 ML
Oil 1625 ML
Mud - ML
Water - ML
Other 10 cu / fr. ML
Pressure 200 psi ML
Total 2000 ML ML

PIT MUD ANALYSIS

Chlorides 800 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 9.5 60
Mud Weight 9.2
Filtrate 8.0
Other 8" LCM

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides - ppm.
Gravity 37 corrected @60F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.