15-093-21797 2-22s-38w

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Osborn Heirs Company**

PO Box 17968
San Antonio TX 78217

ATTN: Keviv Bailey

2 22 38 Kearney KS

Mauna Trust #1

Start Date: 2007.01.07 @ 01:30:14
End Date: 2007.01.07 @ 12:25:39
Job Ticket #: 26625 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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Osborn Heirs Company

PO Box 17968
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ATTN: Keviv Bailey

Mauna Trust #1

2 22 38 Kearney KS

Job Ticket: 26625 **DST#: 1**

Test Start: 2007.01.07 @ 01:30:14

GENERAL INFORMATION:

Formation: **morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:50:54
Time Test Ended: 12:25:39

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

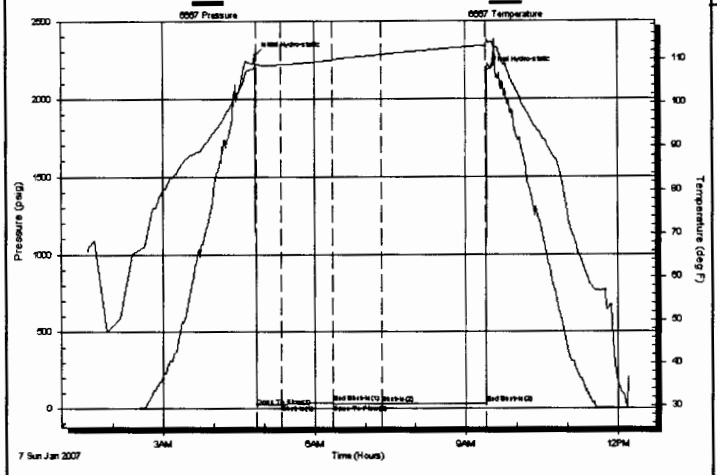
Interval: 4710.00 ft (KB) To 4750.00 ft (KB) (TVD)
Total Depth: 4750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3348.00 ft (KB)
3338.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6667 **Inside**
Press@RunDepth: 31.53 psig @ 4711.00 ft (KB)
Start Date: 2007.01.07 End Date: 2007.01.07
Start Time: 01:30:14 End Time: 12:13:39

Capacity: 7000.00 psig
Last Calib.: 2007.01.07
Time On Btm: 2007.01.07 @ 04:50:24
Time Off Btm: 2007.01.07 @ 09:24:08

TEST COMMENT: 1/4 " blow died in 14 min.
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2279.83	108.79	Initial Hydro-static
1	16.22	108.74	Open To Flow (1)
31	27.70	108.89	Shut-In(1)
91	40.45	109.94	End Shut-In(1)
92	28.62	109.96	Open To Flow (2)
150	31.53	111.18	Shut-In(2)
274	35.61	113.22	End Shut-In(2)
274	2177.88	114.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

Gas Rates

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

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TOOL DIAGRAM

Osborn Heirs Company

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2 22 38 Kearney KS

Job Ticket: 26625 **DST#: 1**

Test Start: 2007.01.07 @ 01:30:14

Tool Information

Drill Pipe:	Length:	4005.00 ft	Diameter:	3.80 inches	Volume:	56.18 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	682.00 ft	Diameter:	2.25 inches	Volume:	3.35 bbl	
					Total Volume:	59.53 bbl	

Drill Pipe Above KB:	5.00 ft
Depth to Top Packer:	4710.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	40.00 ft
Tool Length:	68.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:	1500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	125000.0 lb
Tool Chased	0.00 ft
String Weight: Initial	106000.0 lb
Final	106000.0 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4687.00		
Hydraulic tool	5.00			4692.00		
Sampler	2.00			4694.00		
Jars	5.00			4699.00		
Safety Joint	2.00			4701.00		
Packer	5.00			4706.00	28.00	Bottom Of Top Packer
Packer	4.00		Inside	4710.00		
Stubb	1.00			4711.00		
Recorder	0.00	6667	Inside	4711.00		
Perforations	34.00			4745.00		
Recorder	0.00	11058		4745.00		
Bullnose	5.00			4750.00	40.00	Bottom Packers & Anchor
Total Tool Length:	**68.00**					

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DRILL STEM TEST REPORT

FLUID SUMMARY

Osborn Heirs Company

PO Box 17968
San Antonio TX 78217

ATTN: Keviv Bailey

Mauna Trust #1

2 22 38 Kearney KS

Job Ticket: 26625 **DST#: 1**

Test Start: 2007.01.07 @ 01:30:14

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:	0 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.96 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6100.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

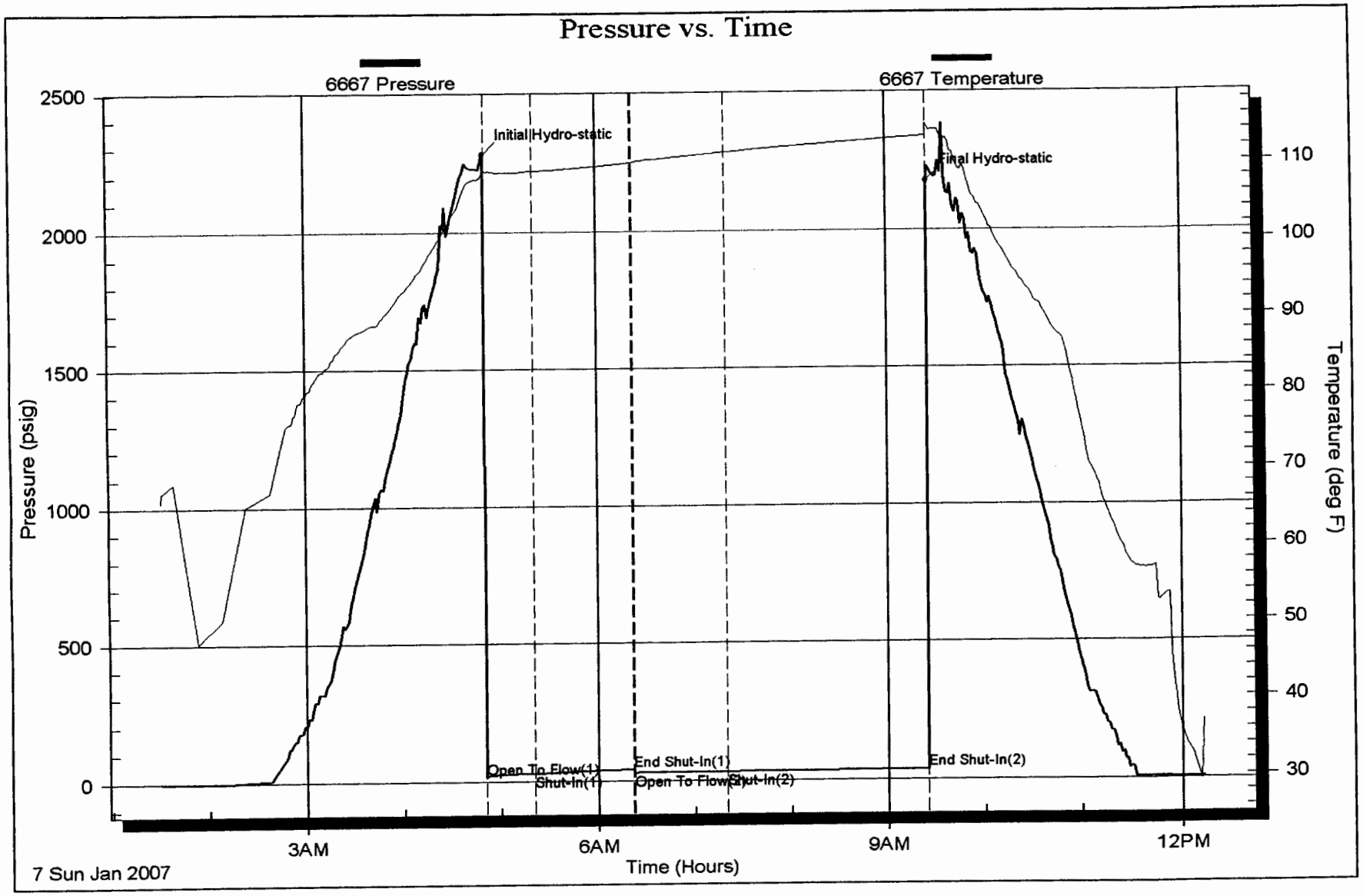
Length ft	Description	Volume bbl
5.00	100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: sampler 2000ml mud
0 psi


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure (psig)
Temperature (deg F)
Time (Hours)
2500
2000
1500
1000
500
0
110
100
90
80
70
60
50
40
30
3AM
6AM
9AM
12PM
7 Sun Jan 2007

X

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9740 ✓

26625

10/05

Test Ticket

Well Name & No. Manna Trust #1 Test No. #1 Date 1/7/07

Company Osborn Heirs Comp. Zone Tested Morrow

Address P.O. Box 17968 San Antonio, TX 78217 Elevation 3349 KB 3338 GL

Co. Rep / Geo. Kevin Bailey Rig Cheyenne #1

Location: Sec. 2 Twp. 22 Rge. 38 Co. Kearney State Ks

Comment: Release date / time:

Interval Tested 4710 4750 Initial Str Wt./Lbs. 106,000 Unseated Str Wt/Lbs. 106,000

Anchor Length 40 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 125,000

Top Packer Depth 4705 Tool Weight 1500

Bottom Packer Depth 4710 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 4750 Wt. Pipe Run — Drill Collar Run 682'

Mud Wt. 9.2 LCM #5 Vis. 50 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 4005'

Blow Description 1/4" in blow died in 14 min
No return
No blow
No return

Recovery - Total Feet 5' GIP — Ft. in DC 5' Ft. in DP —

Rec. 5'	Feet of mud	%gas	%oil	%water	100	%mud
Rec.	Feet of	%gas	%oil	%water		%mud
Rec.	Feet of	%gas	%oil	%water		%mud
Rec.	Feet of	%gas	%oil	%water		%mud
Rec.	Feet of	%gas	%oil	%water		%mud

BHT 113° °F Gravity — °API D @ — °F Corrected Gravity — °API

RW — @ — °F Chlorides — ppm Recovery — Chlorides 6100 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud		2288 PSI	Recorder No.	6667	Test ✓	$ 1200.00
(B) First Initial Flow Pressure		14 PSI	(depth)	4711'	Jars ✓	$ 250.00
(C) First Final Flow Pressure		27 PSI	Recorder No.	11058	Safety Jt. ✓	$ 75.00
(D) Initial Shut-In Pressure		40 PSI	(depth)	4745'	Circ Sub ✓	N/C
(E) Second Initial Flow Pressure		28 PSI	Recorder No.		Sampler ✓	$ 250.00
(F) Second Final Flow Pressure		31 PSI	(depth)		Straddle	
(G) Final Shut-In Pressure		35 PSI	**Initial Opening**	30	Ext. Packer	
(Q) Final Hydrostatic Mud		2230 PSI	Initial Shut-In	60	Shale Packer	
			Final Flow	60	Ruined Packer	
			Final Shut-In	120	Mileage ✓ 104 MT	$ 130.00
			T-On Location	23:10 A.M.	Sub Total:	
			T-Started	01:30 A.M.	Std. By 4 1/4 hr	425.00
			T-Open	04:50 A.M.	Acc. Chg: ✓	2330
			T-Pulled	09:20 A.M.	Other:	
			T-Out	12:25 P.M.	Total:	150

13.25

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.

Approved By for Osborn Heirs

Our Representative

TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 26625 Date 1/7/07

Company Name Osborn Heirs Comp

Lease Mauna Trust #1 Test No. #1 4716 - 4750 Mollow.

County Kearny, Ks Sec. 2 Twp. 22 Rng. 38

SAMPLER RECOVERY

Gas — ML

Oil — ML

Mud 2000 ML

Water — ML

Other — ML

Pressure 0 ML

Total 2000 mL mud ML

PIT MUD ANALYSIS

Chlorides 6100 ppm.

Resistivity 1.45 ohms @ 50 F

Viscosity 50

Mud Weight 9.2

Filtrate 8.0

Other LCM #5

SAMPLER ANALYSIS

Resistivity 1.53 ohms @ 45 F

Chlorides 6100 ppm.

Gravity — corrected @60F

PIPE RECOVERY

TOP

Resistivity 1.53 ohms @ 45 F

Chlorides 6100 ppm.

MIDDLE

Resistivity — ohms @ — F

Chlorides — ppm.

BOTTOM

Resistivity 1.53 ohms @ 45 F

Chlorides 6100 ppm.

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