15-095-21878

31-30s-5w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Robinson Energy & Exploration**

300 W.Douglas #420
Wichita,Ks. 67202

ATTN: Ben Landis

31-30S-5W

Lockhart #1

Start Date: 2004.05.13 @ 14:04:58

End Date: 2004.05.13 @ 21:49:58

Job Ticket #: 19022 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

Robinson Energy & Exploration

300 W.Douglas #420
Wichita,Ks. 67202

ATTN: Ben Landis

Lockhart #1

31-30S-5W

Job Ticket: 19022 **DST#: 1**

Test Start: 2004.05.13 @ 14:04:58

GENERAL INFORMATION:

Formation: **Swope**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:34:38
Time Test Ended: 21:49:58

Test Type: Conventional Bottom Hole
Tester: Darren L.Amerine
Unit No: 19

Interval: 3628.00 ft (KB) To 3641.00 ft (KB) (TVD)
Total Depth: 3641.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

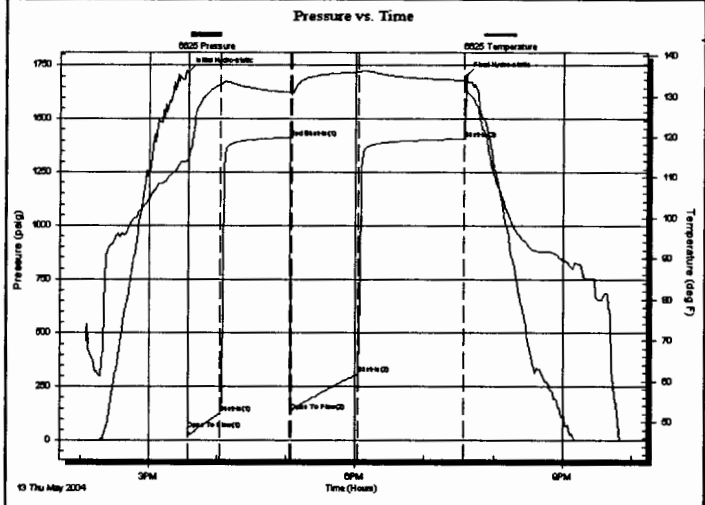
Reference Elevations: 1341.00 ft (KB)
1333.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625 **Inside**

Press@RunDepth: 125.80 psig @ 3630.00 ft (KB)
Start Date: 2004.05.13 End Date: 2004.05.13
Start Time: 14:05:01 End Time: 21:49:58

Capacity: 7000.00 psig
Last Calib.: 2004.05.13
Time On Btm: 2004.05.13 @ 15:34:08
Time Off Btm: 2004.05.13 @ 19:35:58

TEST COMMENT: IF:Strong blow b.o.b in 2 mins.
ISI:Bled down for 5 mins.built back to 1"in H2O bucket.
FF:Fair blow b.o.b in 6 mins.
FSI:Bled down for 3 mins.built back to 2"in H2O bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.67	114.29	Initial Hydro-static
1	49.16	113.84	Open To Flow (1)
29	125.80	132.90	Shut-In(1)
89	1412.05	130.96	End Shut-In(1)
91	136.25	130.46	Open To Flow (2)
148	308.98	135.92	Shut-In(2)
241	1407.30	133.88	Shut-In(3)
242	1701.01	131.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	970'of gip	0.00
540.00	SGCW 4%gas 96%water	7.57
90.00	SO&GCMW 10%gas 4%oil70%water 16	1.261

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Robinson Energy & Exploration

300 W.Douglas #420
Wichita,Ks. 67202

ATTN: Ben Landis

Lockhart #1

31-30S-5W

Job Ticket: 19022 **DST#: 1**

Test Start: 2004.05.13 @ 14:04:58

Tool Information

Drill Pipe:	Length:	3616.00 ft	Diameter:	3.80 inches	Volume:	50.72 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
					Total Volume:	50.72 bbl	

Drill Pipe Above KB:	17.00 ft
Depth to Top Packer:	3628.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	13.00 ft
Tool Length:	42.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2100.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	75000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	68000.00 lb
Final	68000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3600.00		
Shut In Tool	5.00			3605.00		
Hydraulic tool	5.00			3610.00		
Jars	5.00			3615.00		
Safety Joint	3.00			3618.00		
Packer	5.00			3623.00	29.00	Bottom Of Top Packer
Packer	5.00			3628.00		
Stubb	2.00			3630.00		
Recorder	0.00	6625	Inside	3630.00		
Anchor	8.00			3638.00		
Recorder	0.00	13769	Outside	3638.00		
Bullnose	3.00			3641.00	13.00	Bottom Packers & Anchor
Total Tool Length:	**42.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Robinson Energy & Exploration

300 W.Douglas #420
Wichita,Ks. 67202

ATTN: Ben Landis

Lockhart #1

31-30S-5W

Job Ticket: 19022 **DST#: 1**

Test Start: 2004.05.13 @ 14:04:58

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	90000 ppm
Viscosity:	40.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.38 in³	Gas Cushion Type:			
Resistivity:	1.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	0.32 inches				

Recovery Information

Recovery Table

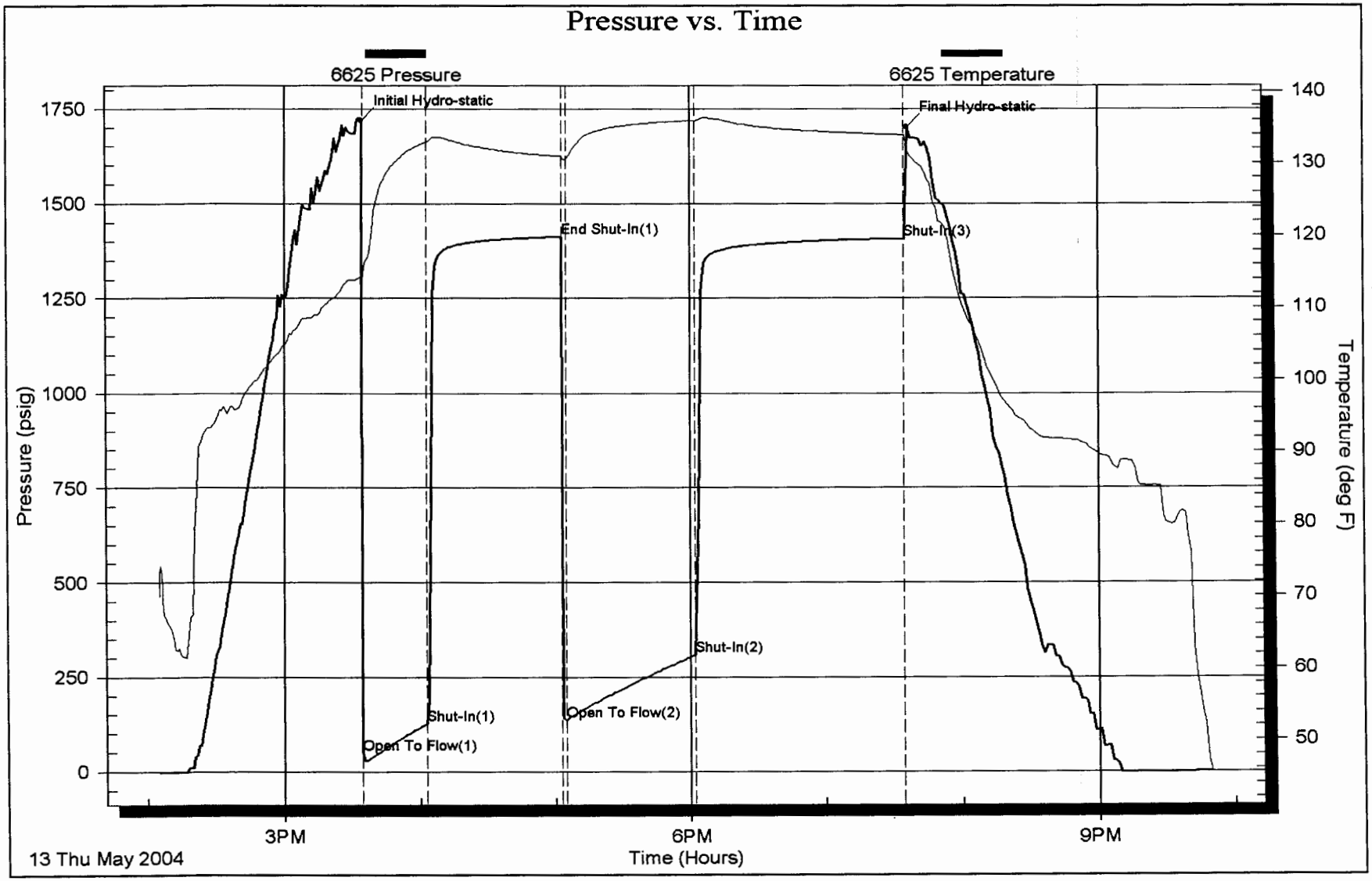
Length ft	Description	Volume bbl
0.00	970'of gip	0.000
540.00	SGCW 4%gas 96%water	7.575
90.00	SO&GCMW 10%gas 4%oil70%water 16%mu	1.262

Total Length: 630.00 ft Total Volume: 8.837 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .09@65'degrees=90000


Pressure vs. Time
6625 Pressure
6625 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Shut-In(3)
Shut-In(2)
Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
140
130
120
110
100
90
80
70
60
50
3PM
6PM
9PM
13 Thu May 2004
Time (Hours)

DNW 6474

X

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

05/03

№ 19022

Test Ticket

Well Name & No. Lockhart #1 Test No. #1 Date 5/13/04

Company Robinson Energy & Exploration, Inc. Zone Tested Swope

Address 300 W. Douglas #420 Wichita, Ks 67202 Elevation 1341 KB 1333 GL

Co. Rep / Geo. Ben Landis Cont. Duke #2 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 31 Twp. 30S Rge. 5W Co. Kingman, Co. State KS

No. of Copies 5 Disbtribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3628'-3641' Initial Str Wt./Lbs. 68000 Unseated Str Wt/Lbs. 68,000

Anchor Length 13' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 75,000

Top Packer Depth 3623' Tool Weight 2100

Bottom Packer Depth 3628' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 3641 Wt. Pipe Run N/A Drill Collar Run N/A

Mud Wt. 9.1 LCM 0 Vis. 40 WL 10.4 Drill Pipe Size 4½ X H Ft. Run 3616'

Blow Description IF: Strong blow b.o.b in 2 mins.
ISI: Bled down 5 mins. built back to 1" in 5 gal bucket.
FF: Fair blow built to b.o.b in 6 mins
FSI: Bled down for 3 mins. Built back to 2" in 5 gal bucket.

Recovery - Total Feet 630' GIP 970' Ft. in DC N/A Ft. in DP 630'

Rec. 90'	Feet of SOSGCMW	10 %gas	4 %oil	70 %water	16 %mud
Rec. 540'	Feet of Salt Water	4 %gas	%oil	96 %water	%mud
Rec. 970'	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud

BHT 131 °F Gravity °API D @ °F Corrected Gravity °API

RW .09 @ 65° °F Chlorides 20,000 ppm Recovery Chlorides 4500 ppm System

	AK-1	Alpine					
(A) Initital Hydrostatic Mud		1719 PSI	Recorder No.	6625	Test	✓	700
(B) First Initial Flow Pressure		49 PSI	(depth)	3630'	Elec. Rec.	✓	150
(C) First Final Flow Pressure		126 PSI	Recorder No.	13769	Jars	✓	200
(D) Initial Shut-In Pressure		1412 PSI	(depth)	3638	Safety Jt.	✓	50
(E) Second Initial Flow Pressure		136 PSI	Recorder No.		Circ Sub		
(F) Second Final Flow Pressure		309 PSI	(depth)		Sampler		
(G) Final Shut-In Pressure		1407 PSI	**Initial Opening**	30	Straddle		
(Q) Final Hydrostatic Mud		1701 PSI	Initial Shut-In	60	Ext. Packer		
			Final Flow	60	Shale Packer		
			Final Shut-In	90	Mileage	77 H2	120.70
			T-On Location	1315	Sub Total:		1220.70
			T-Started	1404	Std. By	½hr	15
			T-Open	1528	Other		
			T-Pulled	1928	Total:		1235.70
			T-Out	2149			

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Approved By Ben Landis

Our Representative Darrin Ingram

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

