



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co
 10500 E Berkeley Sq Ste 100
 Wichita, KS 67206
 ATTN: Kitt Noah

2-24S-13W Stafford
Heyen 2
 Job Ticket: 59000 **DST#: 1**
 Test Start: 2014.06.28 @ 20:25:10

GENERAL INFORMATION:

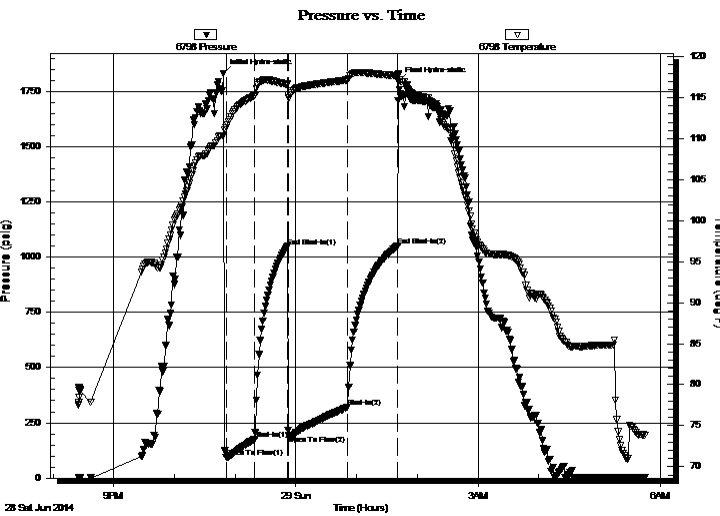
Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:50:55
 Time Test Ended: 05:44:40
 Interval: **3631.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1908.00 ft (KB)
 1900.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 322.11 psig @ 3632.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.28 End Date: 2014.06.29 Last Calib.: 2014.06.29
 Start Time: 20:25:11 End Time: 05:44:40 Time On Btm: 2014.06.28 @ 22:48:25
 Time Off Btm: 2014.06.29 @ 01:41:10

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 19 minutes, TSTM, Caught Sample
 IS: Blow Back Built to BOB in 7 minutes
 FF: Strong Blow , BOB & GTS immediate, TSTM
 FS: 7 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.30	110.33	Initial Hydro-static
3	93.87	111.37	Open To Flow (1)
31	177.45	115.24	Shut-In(1)
63	1048.08	116.66	End Shut-In(1)
65	193.64	114.94	Open To Flow (2)
123	322.11	117.15	Shut-In(2)
173	1049.24	117.68	End Shut-In(2)
173	1793.81	117.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2120 GIP	0.00
378.00	GMCO 10%G 30%M 60%O	2.48
1134.00	GCO 20%G 80%O	15.91

Gas Rates

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



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FLUID SUMMARY

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Heyen 2
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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 30.1 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7600.00 ppm		
Filter Cake: 0.02 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2120 GIP	0.000
378.00	GMCO 10%G 30%M 60%O	2.478
1134.00	GCO 20%G 80%O	15.907

Total Length: 1512.00 ft Total Volume: 18.385 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity w as 31.2 @ 71 degrees

Pressure vs. Time

