



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

Hemmeke #3

1327 Noose Rd.
PO Box 458
Hays, Ks 6701
ATTN: Mike Bair

2-19-12/Barton, Ks

Job Ticket: 43418

DST#: 1

Test Start: 2011.07.10 @ 12:00:47

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 9.19 in³
Resistivity: ohm.m
Salinity: 5800.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 42 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	GMO 60%G, 30%O, 10%M	2.665
90.00	GMCO 40%G, 40%O, 20%M	1.262
175.00	FREE OIL 95%O, 5%M	2.455

Total Length: 455.00 ft Total Volume: 6.382 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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Job Ticket: 43418

DST#: 1

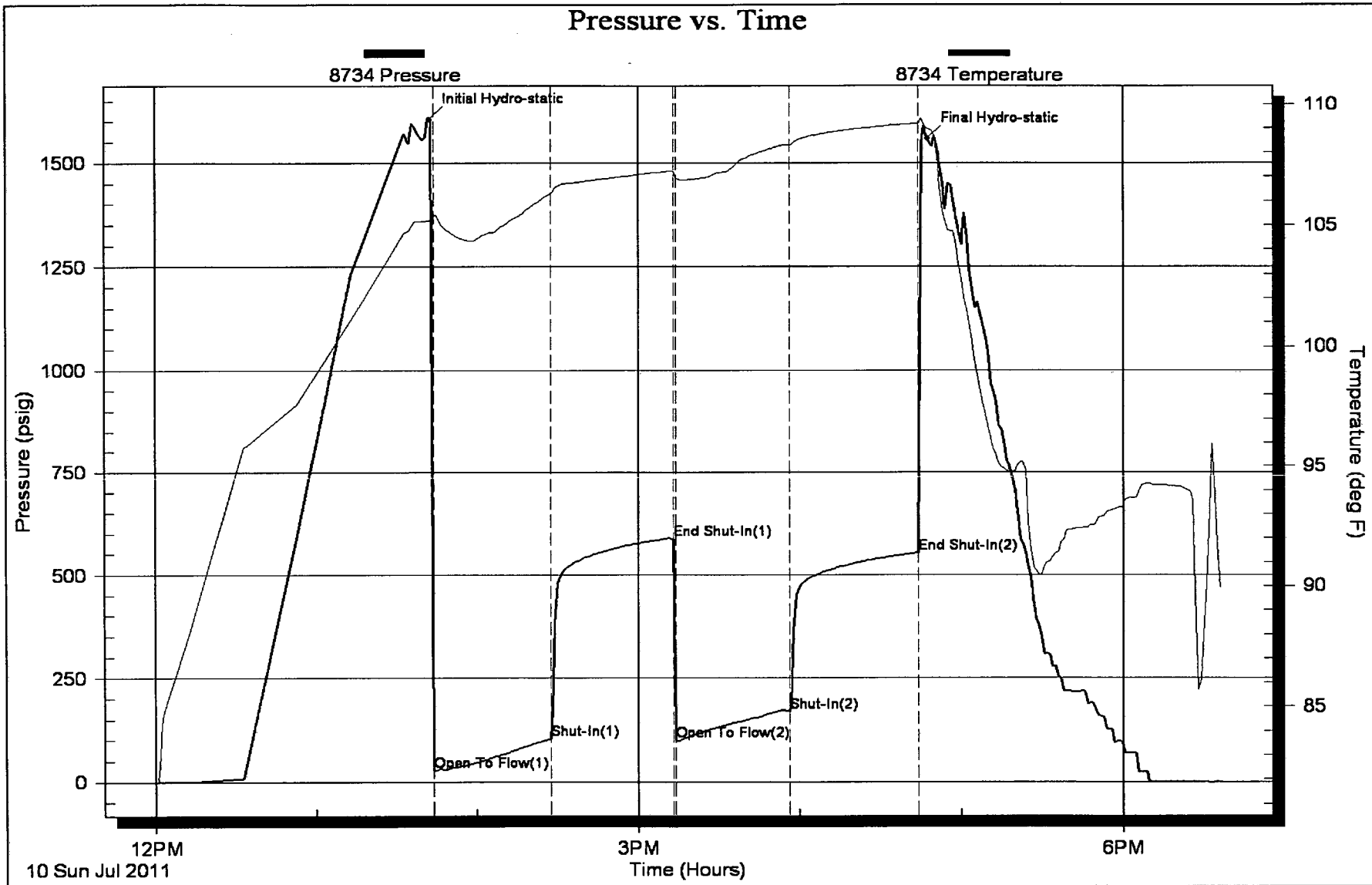
Test Start: 2011.07.10 @ 12:00:47

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	30	0.13	1.50	5.95
1	35	0.13	2.00	6.14
1	40	0.13	3.50	6.70
1	45	0.13	5.50	7.45
2	5	0.13	0.00	5.39
2	10	0.13	0.00	5.39
2	15	0.13	0.50	5.58
2	20	0.13	1.50	5.95
2	25	0.13	1.50	5.95
2	30	0.13	2.50	6.33
2	35	0.13	5.00	7.26
2	40	0.13	5.00	7.26
2	45	0.13	5.00	7.26
0	-	-999999.00	-999999.00	-999999.00





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Hemmeke #3
2-19-12/Barton, Ks
Job Ticket: 43419 **DST#: 2**
Test Start: 2011.07.11 @ 13:05:25

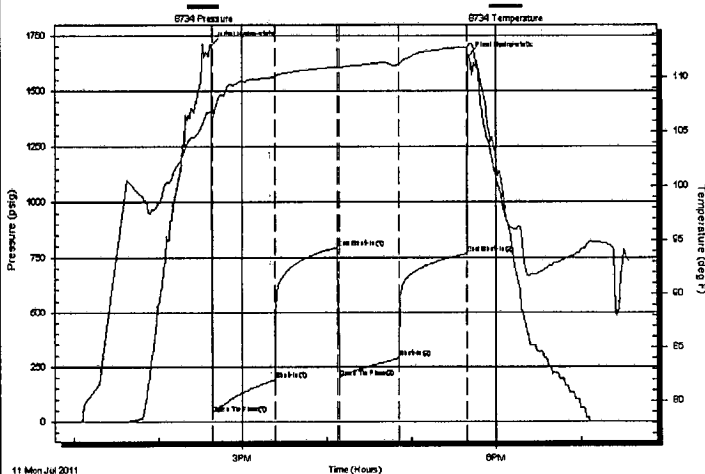
GENERAL INFORMATION:

Formation: **Cong**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:38:55
 Time Test Ended: 19:34:55
 Interval: **3364.00 ft (KB) To 3398.00 ft (KB) (TVD)**
 Total Depth: **3398.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Brian Fairbank**
 Unit No: **41**
 Reference Elevations: **1810.00 ft (KB)**
 1805.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8734 Outside
 Press@RunDepth: **288.52 psig @ 3370.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.07.11** End Date: **2011.07.11** Last Calib.: **2011.07.11**
 Start Time: **13:05:26** End Time: **19:34:55** Time On Btm: **2011.07.11 @ 14:37:55**
 19:34:55 Time Off Btm: **2011.07.11 @ 17:40:25**

TEST COMMENT: IFP - BOB 4 min
 ISI - no blow 4 min - sur blow back died 12 min
 FFP - BOB 8 min
 FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.26	106.79	Initial Hydro-static
1	38.81	106.08	Open To Flow (1)
46	192.53	109.95	Shut-In(1)
90	794.44	110.91	End Shut-In(1)
91	201.64	110.76	Open To Flow (2)
133	288.52	111.10	Shut-In(2)
181	765.37	112.68	End Shut-In(2)
183	1658.54	112.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SGOCM 15%G, 5%O, 80%M	0.21
105.00	GOCM 15%G, 10%O, 75%M	1.47
90.00	GMO 20%G, 40%O, 40%M	1.26
520.00	FREE OIL 95%O, 5%M	7.29
0.00	170' GIP	0.00

Gas Rates

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



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Job Ticket: 43419

DST#: 2

Test Start: 2011.07.11 @ 13:05:25

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 7.60 in³
Resistivity: ohm.m
Salinity: 5400.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 38 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SGOCM 15%G, 5%O, 80%M	0.210
105.00	GOCM 15%G, 10%O, 75%M	1.473
90.00	GMO 20%G, 40%O, 40%M	1.262
520.00	FREE OIL 95%O, 5%M	7.294
0.00	170' GIP	0.000

Total Length: 730.00 ft Total Volume: 10.239 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

