

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

ESP Development Inc

21-11s-15w Russell KS

1749 250th Ave
Hays KS 67601

Evert Ranch G #4

Job Ticket: 53944

DST#: 1

ATTN: Randy Killian

Test Start: 2013.08.10 @ 09:13:00

GENERAL INFORMATION:

Formation: **Tor - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:24:00

Time Test Ended: 16:37:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 53

Interval: **2986.00 ft (KB) To 3100.00 ft (KB) (TVD)**

Reference Elevations: 2986.00 ft (KB)

Total Depth: 3100.00 ft (KB) (TVD)

2978.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6799

Inside

Press@RunDepth: 241.94 psig @ 3087.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.10

End Date:

2013.08.10

Last Calib.:

2013.08.10

Start Time: 09:13:05

End Time:

16:37:44

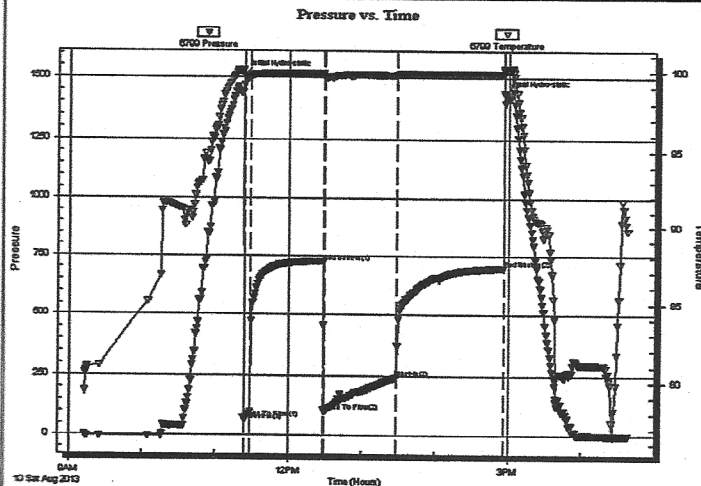
Time On Btm:

2013.08.10 @ 11:23:30

Time Off Btm:

2013.08.10 @ 14:56:30

TEST COMMENT: 05 - IF- 7" blow
60 - IS- No return
60 - FF- B.O.B. in 10 Minutes
90 - FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1507.58	100.07	Initial Hydro-static
1	68.56	99.65	Open To Flow (1)
6	95.79	99.64	Shut-In(1)
65	721.81	99.88	End Shut-In(1)
66	102.92	99.72	Open To Flow (2)
125	241.94	99.77	Shut-In(2)
213	698.11	99.87	End Shut-In(2)
213	1434.05	100.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW, 40%M, 60%W	0.87
341.00	VM, 20%W, 80%M	4.78

Gas Rates

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



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DRILL STEM TEST REPORT

ESP Development Inc
1749 250th Ave
Hays KS 67601
ATTN: Randy Killian

21-11s-15w Russell KS
Evert Ranch G #4
Job Ticket: 53945 DST#: 2
Test Start: 2013.08.11 @ 20:53:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 22:21:15
Time Test Ended: 04:54:00

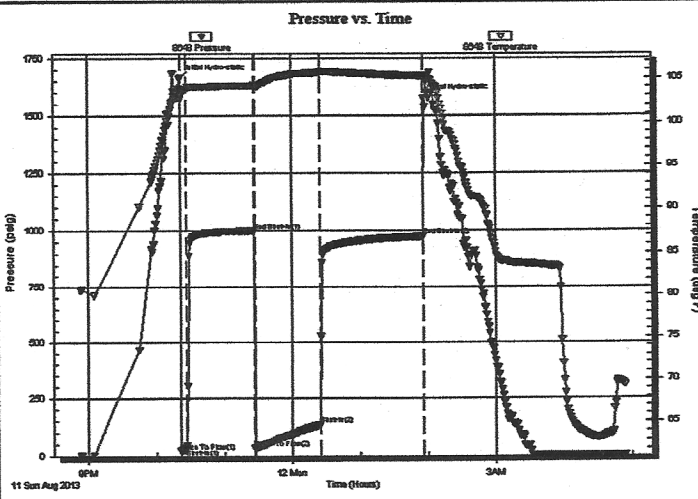
Interval: **3349.00 ft (KB) To 3369.00 ft (KB) (TVD)**
Total Depth: **3369.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Test Type: **Conventional Straddle (Reset)**
Tester: **Cody Bloedorn**
Unit No: **53**

Reference Elevations: **2986.00 ft (KB)**
2978.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: 8648 Outside
Press@RunDepth: **132.94 psig @ 3350.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2013.08.11** End Date: **2013.08.12** Last Calib.: **2013.08.12**
Start Time: **20:53:05** End Time: **04:53:59** Time On Btm: **2013.08.11 @ 22:21:00**
Time Off Btm: **2013.08.12 @ 01:56:45**

TEST COMMENT: 05 - IF- 5" blow
60 - IS- No return
60 - FF- B.O.B. in 22 minutes
90 - FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1665.38	103.35	Initial Hydro-static
1	21.70	102.68	Open To Flow (1)
6	31.91	103.85	Shut-In(1)
66	995.80	104.20	End Shut-In(1)
67	31.21	103.99	Open To Flow (2)
125	132.94	105.67	Shut-In(2)
215	971.97	105.32	End Shut-In(2)
216	1576.85	105.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOCMW, 10%O, 30%M, 60%W	1.74
125.00	MCWO, 20%M, 20%W, 60%O	1.75
30.00	Free Oil, 100%O	0.42

* Recovery from multiple tests

Gas Rates

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