



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Boulevard Suite C
Hays, KS 67601

ATTN: Charlie Sturdavant

Wondra Farms #1-22

22-18s-14w Barton,KS

Start Date: 2014.08.14 @ 10:04:00

End Date: 2014.08.14 @ 16:55:00

Job Ticket #: 60308 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.14 @ 16:03:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shelby Resources LLC
 2717 Canal Boulevard Suite C
 Hays, KS 67601
 ATTN: Charlie Sturdavant

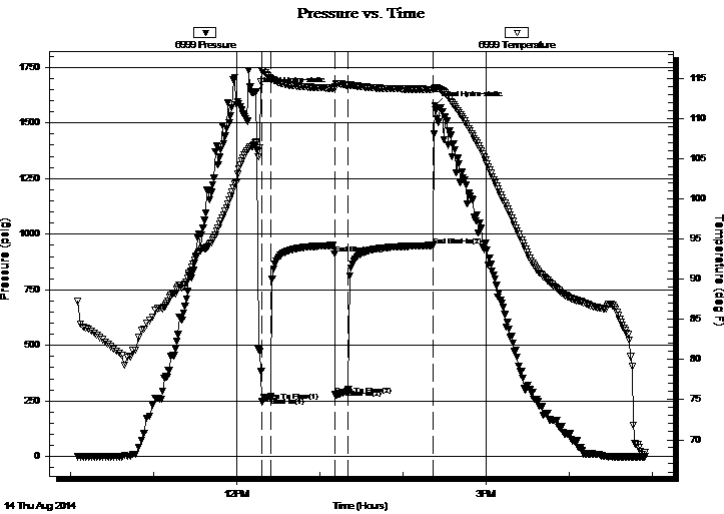
22-18s-14w Barton, KS
Wondra Farms #1-22
 Job Ticket: 60308 **DST#: 3**
 Test Start: 2014.08.14 @ 10:04:00

GENERAL INFORMATION:

Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:18:00
 Time Test Ended: 16:55:00
 Interval: **3234.00 ft (KB) To 3248.00 ft (KB) (TVD)**
 Total Depth: 3530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Reference Elevations: 1918.00 ft (KB)
 1909.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6999 Inside
 Press@RunDepth: 303.32 psig @ 3246.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.08.14 End Date: 2014.08.14 Last Calib.: 2014.08.14
 Start Time: 10:05:00 End Time: 16:55:00 Time On Btm: 2014.08.14 @ 12:14:00
 Time Off Btm: 2014.08.14 @ 14:23:00

TEST COMMENT: IFP - 10 - Strong blow built to the bottom of bucket in 40 seconds.
 ISI - 45 - No blow back.
 FFP - 10 - Strong building blow built to 8"
 FSI - 60 - No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.70	107.10	Initial Hydro-static
4	250.14	115.97	Open To Flow (1)
11	269.45	114.98	Shut-In(1)
57	911.19	113.81	End Shut-In(1)
57	277.97	113.99	Open To Flow (2)
67	303.32	114.16	Shut-In(2)
128	949.18	113.69	End Shut-In(2)
129	1576.57	113.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	Mud 100%	2.65
661.00	Muddy water mud 5% mud 95% Water	9.27

Gas Rates

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



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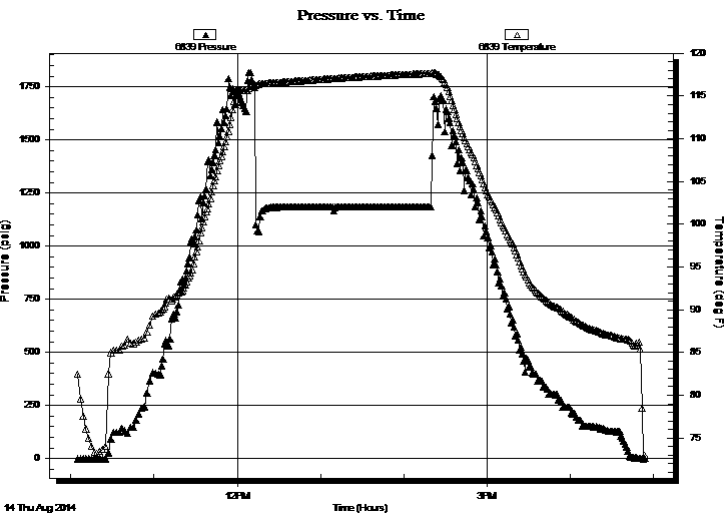
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 Unit No: S2
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 1909.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6839 Below (Straddle)
 Press@RunDepth: psig @ 3531.36 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.08.14 End Date: 2014.08.14 Last Calib.: 2014.08.14
 Start Time: 10:05:00 End Time: 16:53:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP - 10 - Strong blow built to the bottom of bucket in 40 seconds.
 ISI - 45 - No blow back.
 FFP - 10 - Strong building blow built to 8"
 FSI - 60 - No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
189.00	Mud 100%	2.65
661.00	Muddy w water mud 5% mud 95% Water	9.27

Gas Rates

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



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TOOL DIAGRAM

Shelby Resources LLC
2717 Canal Boulevard Suite C
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22-18s-14w Barton,KS
Wondra Farms #1-22
Job Ticket: 60308 **DST#: 3**
Test Start: 2014.08.14 @ 10:04:00

Tool Information

Drill Pipe:	Length: 3224.00 ft	Diameter: 3.80 inches	Volume: 45.22 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 45.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	3234.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	3248.00 ft			
Interval between Packers:	14.00 ft			
Tool Length:	328.36 ft			
Number of Packers:	4	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3211.00	
Hydraulic Tool	5.00			3216.00	
Jars	6.00			3222.00	
Safety Joint	2.00			3224.00	
Top Packer	5.00			3229.00	
Packer	5.00			3234.00	28.00 Bottom Of Top Packer
Anchor	11.00			3245.00	
Recorder	1.00	6999	Inside	3246.00	
Recorder	1.00	8931	Outside	3247.00	
Blank Off Sub	1.00			3248.00	14.00 Tool Interval
Packer	5.00			3253.00	
Bottom Packer	5.00			3258.00	
Change Over Sub	0.75			3258.75	
Drill Pipe	254.86			3513.61	
Change Over Sub	0.75			3514.36	
Anchor	16.00		Fluid	3530.36	
Recorder	1.00	6839	Below	3531.36	
Bull Plug	3.00			3534.36	286.36 Bottom Packers & Anchor

Total Tool Length: 328.36



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FLUID SUMMARY

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Test Start: 2014.08.14 @ 10:04:00

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:

22000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
189.00	Mud 100%	2.651
661.00	Muddy water mud 5% mud 95% Water	9.272

Total Length: 850.00 ft Total Volume: 11.923 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .2 ohms @ 56 Degrees

