



DRILL STEM TEST REPORT

Prepared For: **Lasso Energy LLC**

PO Box 465
1125 South Main
Chase Ks, 67524-0465

ATTN: Chris Bean

Agro #1

30/25s/29w/Gray

Start Date: 2014.03.18 @ 14:15:00

End Date: 2014.03.18 @ 22:18:00

Job Ticket #: 19213 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2014.03.18 @ 23:43:53



DRILL STEM TEST REPORT

Lasso Energy LLC

30/25s/29w/Gray

PO Box 465
1125 South Main
Chase Ks, 67524-0465
ATTN: Chris Bean

Agro #1

Job Ticket: 19213

DST#: 1

Test Start: 2014.03.18 @ 14:15:00

GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:51:30

Time Test Ended: 22:18:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/

Interval: **4720.00 ft (KB) To 4764.00 ft (KB) (TVD)**

Reference Elevations: 2700.00 ft (KB)

Total Depth: 4764.00 ft (KB) (TVD)

2692.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: **8524**

Inside

Press@RunDepth: 53.08 psig @ 4760.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.03.18

End Date: 2014.03.18

Last Calib.: 2014.03.18

Start Time: 14:15:00

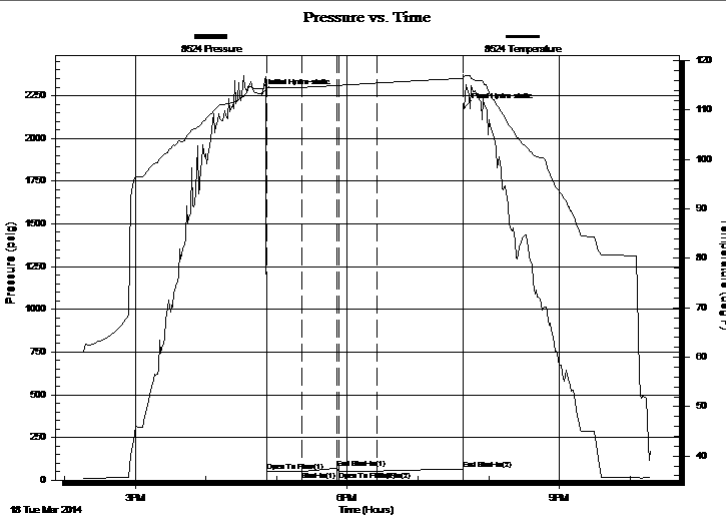
End Time: 22:18:00

Time On Btm: 2014.03.18 @ 16:47:30

Time Off Btm: 2014.03.18 @ 19:39:30

TEST COMMENT: 1st Open/ 30 Minutes. Weak surface blow that died at 15 minutes.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow. Did not flush tool per Geo.
2nd Shut In/ 75 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.42	114.33	Initial Hydro-static
4	49.64	114.69	Open To Flow (1)
34	51.12	114.61	Shut-In(1)
64	69.50	115.00	End Shut-In(1)
65	52.40	115.01	Open To Flow (2)
98	53.08	115.47	Shut-In(2)
171	65.65	116.41	End Shut-In(2)
172	2179.46	116.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud, Trace Oil	0.05

Gas Rates

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



DRILL STEM TEST REPORT

Lasso Energy LLC

30/25s/29w/Gray

PO Box 465
1125 South Main
Chase Ks, 67524-0465
ATTN: Chris Bean

Agro #1

Job Ticket: 19213

DST#: 1

Test Start: 2014.03.18 @ 14:15:00

GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:51:30

Time Test Ended: 22:18:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/

Interval: **4720.00 ft (KB) To 4764.00 ft (KB) (TVD)**

Reference Elevations: 2700.00 ft (KB)

Total Depth: 4764.00 ft (KB) (TVD)

2692.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: **8159** Outside

Press@RunDepth: 66.30 psig @ 4761.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.03.18

End Date: 2014.03.18

Last Calib.: 2014.03.18

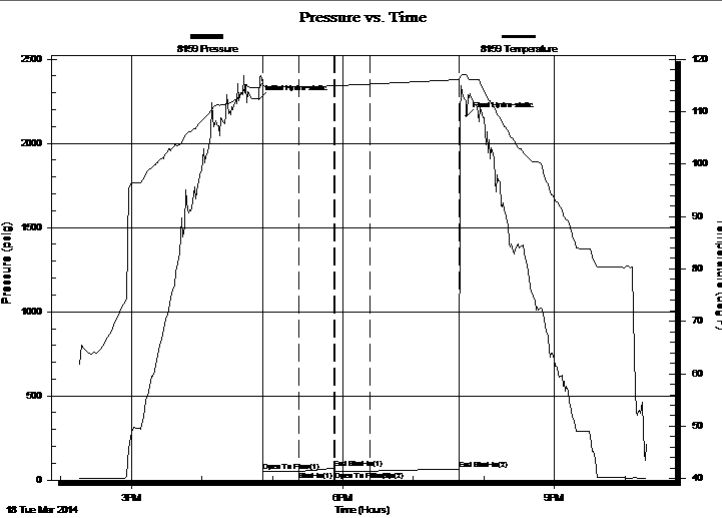
Start Time: 14:15:00

End Time: 22:19:00

Time On Btm: 2014.03.18 @ 16:48:30

Time Off Btm: 2014.03.18 @ 19:45:00

TEST COMMENT: 1st Open/ 30 Minutes. Weak surface blow that died at 15 minutes.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow. Did not flush tool per Geo.
2nd Shut In/ 75 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.21	114.54	Initial Hydro-static
4	50.45	114.72	Open To Flow (1)
34	52.25	114.72	Shut-In(1)
64	70.31	114.94	End Shut-In(1)
65	53.61	114.94	Open To Flow (2)
95	54.27	115.25	Shut-In(2)
171	66.30	116.11	End Shut-In(2)
177	2160.50	117.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud, Trace Oil	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Lasso Energy LLC

30/25s/29w/Gray

PO Box 465
 1125 South Main
 Chase Ks, 67524-0465
 ATTN: Chris Bean

Agro #1

Job Ticket: 19213

DST#: 1

Test Start: 2014.03.18 @ 14:15:00

Tool Information

Drill Pipe:	Length: 4550.00 ft	Diameter: 3.80 inches	Volume: 63.82 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: 165.36 ft	Diameter: 2.25 inches	Volume: 0.81 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 64.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.36 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4720.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4697.00	
Hydraulic tool	5.00			4702.00	
Jars	6.00			4708.00	
Safety Joint	2.00			4710.00	
Top Packer	5.00			4715.00	
Packer	5.00			4720.00	28.00 Bottom Of Top Packer
Anchor	39.00			4759.00	
Recorder	1.00	8524	Inside	4760.00	
Recorder	1.00	8159	Outside	4761.00	
Bull Plug	3.00			4764.00	44.00 Anchor Tool
Total Tool Length:	72.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Lasso Energy LLC

30/25s/29w/Gray

PO Box 465
1125 South Main
Chase Ks, 67524-0465
ATTN: Chris Bean

Agro #1

Job Ticket: 19213

DST#: 1

Test Start: 2014.03.18 @ 14:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 66.00 sec/qt
Water Loss: 6.00 in³
Resistivity: ohm.m
Salinity: 2700.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud, Trace Oil	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

