



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: 2014.03.19 @ 20:40:00

End Date: 2014.03.20 @ 09:24:00

Job Ticket #: 19214 DST #: 2

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

Printed: 2014.03.20 @ 11:05:36



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DST#: 2

Test Start: 2014.03.19 @ 20:40:00

GENERAL INFORMATION:

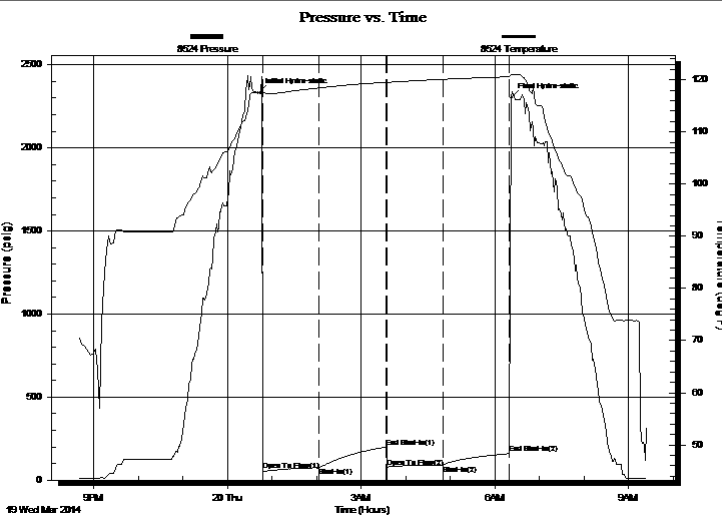
Formation: **St. Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:48:00
 Time Test Ended: 09:24:00
 Interval: **4835.00 ft (KB) To 4870.00 ft (KB) (TVD)**
 Total Depth: 4870.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/236/Great Bend
 Reference Elevations: 2700.00 ft (KB)
 2692.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: **8524**

Inside

Press@RunDepth: 91.68 psig @ 4866.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.19 End Date: 2014.03.20 Last Calib.: 2014.03.20
 Start Time: 20:41:00 End Time: 09:24:00 Time On Btm: 2014.03.20 @ 00:42:00
 Time Off Btm: 2014.03.20 @ 06:22:00

TEST COMMENT: 1st Open/ 75 Minutes. Weak surface blow that blew for 11 minutes then opened up and blew to bottom of bucket at 12 minutes.
 1st Shut In/ 90 Minutes. No blow back.
 2nd Open/ 75 Minutes. Fair blow built to bottom of 5 gallon bucket in 26 minutes. Blow died back to 1 inch by



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2331.75	117.47	Initial Hydro-static
6	56.13	117.58	Open To Flow (1)
82	75.53	118.48	Shut-In(1)
172	198.42	119.56	End Shut-In(1)
173	76.89	119.54	Open To Flow (2)
248	91.68	120.10	Shut-In(2)
338	159.19	120.60	End Shut-In(2)
340	2301.36	120.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	838 feet 100% gas	0.00
63.00	20% gas, 30% Oil, 50% Mud	0.31
63.00	10% Oil, 90% Mud	0.31

Gas Rates

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



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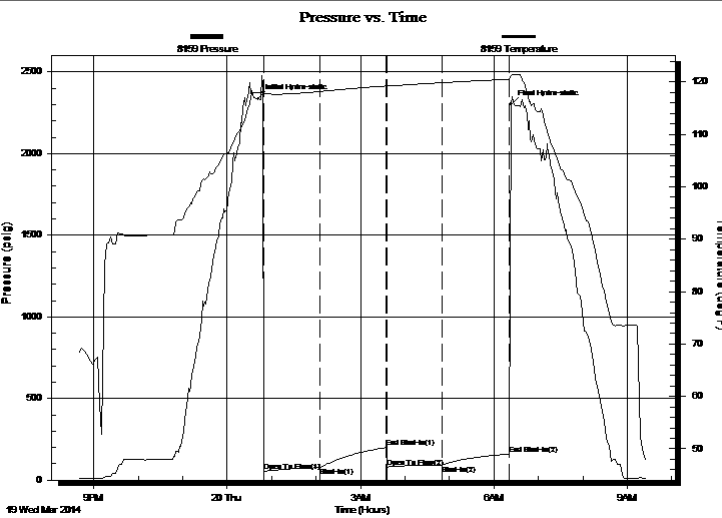
GENERAL INFORMATION:

Formation: **St. Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:48:00
 Time Test Ended: 09:24:00
 Interval: **4835.00 ft (KB) To 4870.00 ft (KB) (TVD)**
 Total Depth: 4870.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/236/Great Bend
 Reference Elevations: 2700.00 ft (KB)
 2692.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: **8159** Outside

Press@RunDepth: 159.81 psig @ 4867.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.19 End Date: 2014.03.20 Last Calib.: 2014.03.20
 Start Time: 20:41:00 End Time: 09:26:00 Time On Btm: 2014.03.20 @ 00:42:00
 Time Off Btm: 2014.03.20 @ 06:23:00

TEST COMMENT: 1st Open/ 75 Minutes. Weak surface blow that blew for 11 minutes then opened up and blew to bottom of bucket at 12 minutes.
 1st Shut In/ 90 Minutes. No blow back.
 2nd Open/ 75 Minutes. Fair blow built to bottom of 5 gallon bucket in 26 minutes. Blow died back to 1 inch by



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2334.04	117.93	Initial Hydro-static
7	56.46	118.02	Open To Flow (1)
83	76.74	118.19	Shut-In(1)
173	199.26	119.26	End Shut-In(1)
174	78.14	119.23	Open To Flow (2)
249	92.81	119.88	Shut-In(2)
339	159.81	120.52	End Shut-In(2)
341	2302.60	121.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	838 feet 100% gas	0.00
63.00	20% gas, 30% Oil, 50% Mud	0.31
63.00	10% Oil, 90% Mud	0.31

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Lasso Energy LLC

30/25s/29w/Gray

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Agro #1

Job Ticket: 19214

DST#: 2

Test Start: 2014.03.19 @ 20:40:00

Tool Information

Drill Pipe:	Length: 4645.00 ft	Diameter: 3.80 inches	Volume: 65.16 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:	86000.00 lb
			<u>Total Volume: 65.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.36 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4835.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: Shale Packer used.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4812.00	
Hydraulic tool	5.00			4817.00	
Jars	6.00			4823.00	
Safety Joint	2.00			4825.00	
Top Packer	5.00			4830.00	
Packer	5.00			4835.00	28.00 Bottom Of Top Packer
Anchor	30.00			4865.00	
Recorder	1.00	8524	Inside	4866.00	
Recorder	1.00	8159	Outside	4867.00	
Bull Plug	3.00			4870.00	35.00 Anchor Tool
Total Tool Length:	63.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 61.00 sec/qt
Water Loss: 5.99 in³
Resistivity: ohm.m
Salinity: 2100.00 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
0.00	838 feet 100% gas	0.000
63.00	20% gas, 30% Oil, 50% Mud	0.310
63.00	10% Oil, 90% Mud	0.310

Total Length: 126.00 ft Total Volume: 0.620 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8524

Inside

Lasso Energy LLC

Agro #1

DST Test Number: 2

