



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

P.O. Box 256
Clafin Ks, 67525-0256

ATTN: Jim Musgrove

Grasmick #1

34/15s/13w/Russell

Start Date: 2014.04.22 @ 12:41:00

End Date: 2014.04.22 @ 19:35:30

Job Ticket #: 19234 DST #: 4

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

Printed: 2014.04.22 @ 21:14:50

RJM Company
34/15s/13w/Russell
Grasmick #1
DST # 4
Arbuckle
2014.04.22



DRILL STEM TEST REPORT

RJM Company
 P.O. Box 256
 Claflin Ks, 67525-0256
 ATTN: Jim Musgrove

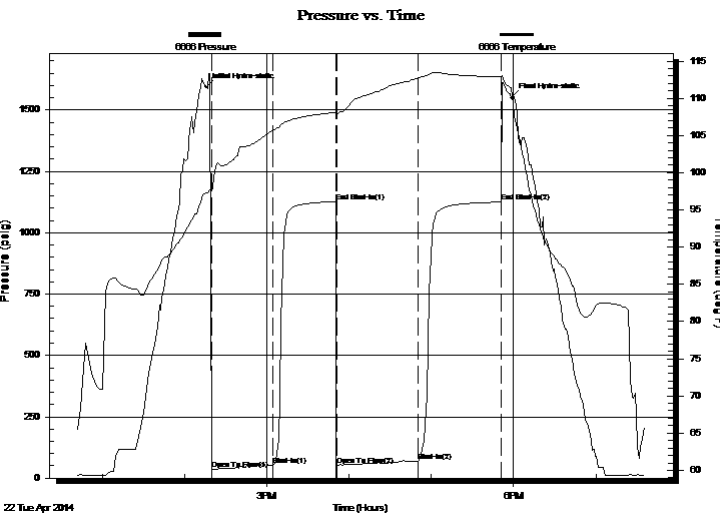
34/15s/13w/Russell
Grasmick #1
 Job Ticket: 19234 **DST#: 4**
 Test Start: 2014.04.22 @ 12:41:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:19:30
 Time Test Ended: 19:35:30
 Interval: **3300.00 ft (KB) To 3325.00 ft (KB) (TVD)**
 Total Depth: 3325.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3335/50/Great Bend
 Reference Elevations: 1870.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6666 Inside
 Press@RunDepth: 68.08 psig @ 3321.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.04.22 End Date: 2014.04.22 Last Calib.: 2014.04.22
 Start Time: 12:41:00 End Time: 19:35:30 Time On Btm: 2014.04.22 @ 14:15:30
 Time Off Btm: 2014.04.22 @ 17:58:30

TEST COMMENT: 1st Open/ 45 Minutes. Fair blow built to 5 inches into bucket of w ater.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 60 Minutes. Fair blow built to 6 inches into bucket of w ater.
 2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1591.38	97.31	Initial Hydro-static
4	36.57	97.54	Open To Flow (1)
49	50.85	105.70	Shut-In(1)
95	1126.83	108.09	End Shut-In(1)
96	51.15	107.85	Open To Flow (2)
155	68.08	112.77	Shut-In(2)
216	1125.37	112.85	End Shut-In(2)
223	1548.22	111.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	100% Clean gassy oil	1.26
10.00	Oil cut Mud	0.14
0.00	corrected oil gravity w as 40	0.00

Gas Rates

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



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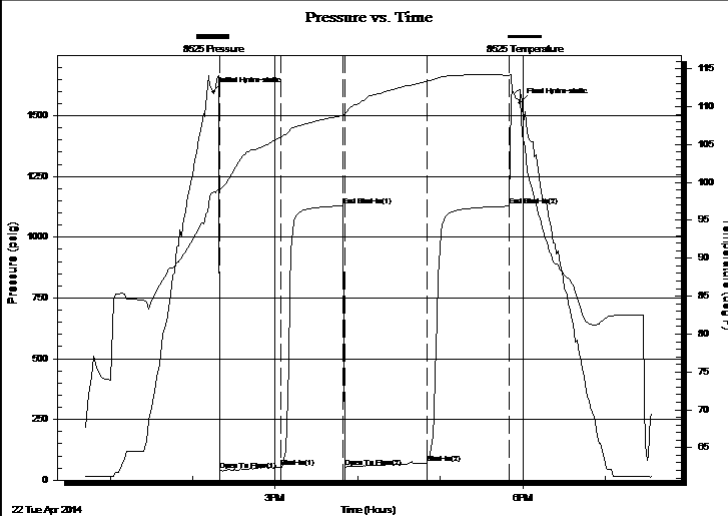
34/15s/13w/Russell
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 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3335/50/Great Bend
 Reference Elevations: 1870.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8525 Outside
 Press@RunDepth: 1127.24 psig @ 3322.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.04.22 End Date: 2014.04.22 Last Calib.: 2014.04.22
 Start Time: 12:41:00 End Time: 19:34:30 Time On Btm: 2014.04.22 @ 14:14:30
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 2nd Open/ 60 Minutes. Fair blow built to 6 inches into bucket of w ater.
 2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.23	98.67	Initial Hydro-static
5	38.81	98.86	Open To Flow (1)
50	52.71	106.00	Shut-In(1)
96	1128.80	108.81	End Shut-In(1)
96	53.01	108.90	Open To Flow (2)
156	69.84	113.32	Shut-In(2)
216	1127.24	114.13	End Shut-In(2)
224	1552.00	112.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	100% Clean gassy oil	1.26
10.00	Oil cut Mud	0.14
0.00	corrected oil gravity w as 40	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company

34/15s/13w/Russell

P.O. Box 256
Clafin Ks, 67525-0256

Grasmick #1

Job Ticket: 19234

DST#: 4

ATTN: Jim Musgrove

Test Start: 2014.04.22 @ 12:41:00

Tool Information

Drill Pipe:	Length: 3302.00 ft	Diameter: 3.80 inches	Volume: 46.32 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 46.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3300.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3285.00	
Hydraulic Tool	5.00			3290.00	
Top Packer	5.00			3295.00	
Packer	5.00			3300.00	20.00 Bottom Of Top Packer
Anchor	20.00			3320.00	
Recorder	1.00	6666	Inside	3321.00	
Recorder	1.00	8525	Outside	3322.00	
Bull Plug	3.00			3325.00	25.00 Anchor Tool

Total Tool Length: 45.00



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FLUID SUMMARY

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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: ppm

Viscosity: 48.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 9000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	100% Clean gassy oil	1.262
10.00	Oil cut Mud	0.140
0.00	corrected oil gravity w as 40	0.000

Total Length: 100.00 ft Total Volume: 1.402 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

