



DRILL STEM TEST REPORT

Prepared For: **Primal Energy O&G**

21021 Springbrook Plaza Drive
Texas 77379

ATTN: Tim Hedrick

Soeken #1

10-19s-9w-Rice

Start Date: 2012.11.04 @ 09:24:00

End Date: 2012.11.04 @ 16:58:00

Job Ticket #: 17864 DST #: 1

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

Printed: 2012.11.05 @ 03:19:45



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 Test Start: 2012.11.04 @ 09:24:00

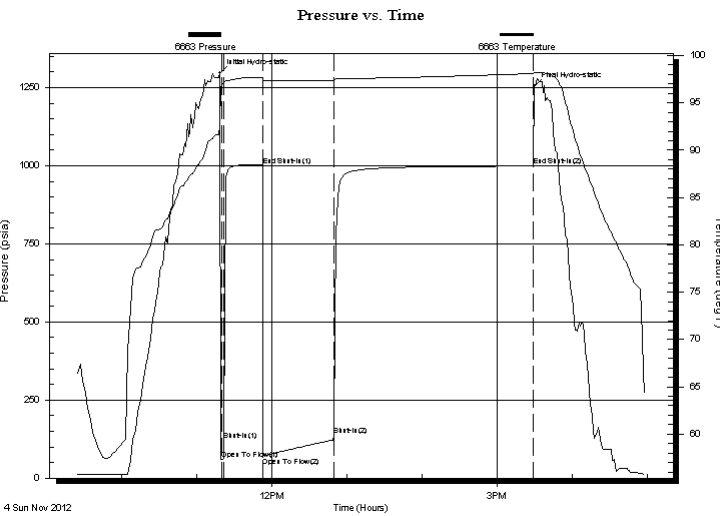
GENERAL INFORMATION:

Formation: **Platts mouth**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:20:00
 Time Test Ended: 16:58:00
Interval: 2676.00 ft (KB) To 2700.00 ft (KB) (TVD)
 Total Depth: 2700.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-65
 Reference Elevations: 1716.00 ft (KB)
 1706.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6663

Press @ RunDepth: 136.78 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.04 End Date: 2012.11.04 Last Calib.: 2012.11.05
 Start Time: 09:24:00 End Time: 16:58:00 Time On Btm: 2012.11.04 @ 11:18:30
 Time Off Btm: 2012.11.04 @ 15:29:30

TEST COMMENT: 1st Open 2 minutes Fair building blow built to 4 inches into the bucket of water
 1st Shut in 30 minutes No blow back
 2nd Open 60 minutes Fair building blow blew bottom bucket 52 minutes.
 2nd Shut in 150 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1296.19	92.63	Initial Hydro-static
2	61.06	96.91	Open To Flow (1)
4	119.88	97.06	Shut-In (1)
34	1000.41	97.63	End Shut-In (1)
35	66.44	97.40	Open To Flow (2)
91	136.78	97.35	Shut-In (2)
251	998.85	98.10	End Shut-In (2)
251	1253.70	98.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Muddy water 20%Mud80%Water	0.87
72.00	Mud 100%	1.01
0.00	Chlorides 36,000@56degrees	0.00

Gas Rates

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



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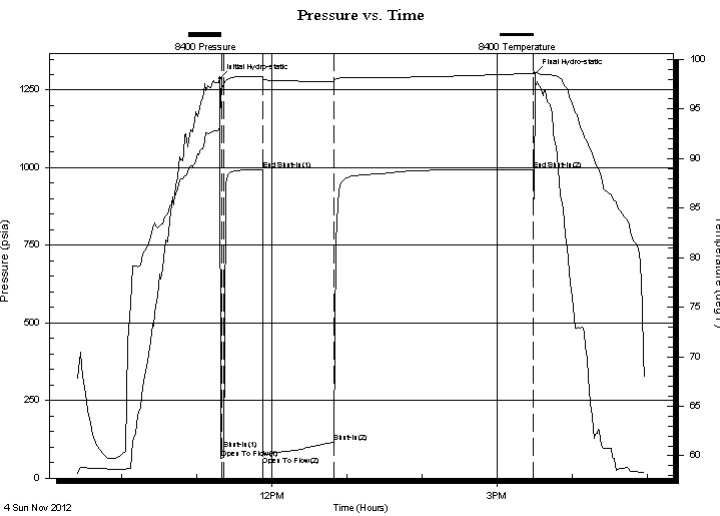
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 Test Type: Conventional Bottom Hole (Initial)
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 Tester: Dustin Ellis
 Time Test Ended: 16:58:00
 Unit No: 3315-Great Bend-65
Interval: 2676.00 ft (KB) To 2700.00 ft (KB) (TVD)
 Reference Elevations: 1716.00 ft (KB)
 Total Depth: 2700.00 ft (KB) (TVD) 1706.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8400

Press @ RunDepth: 993.88 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.04 End Date: 2012.11.04 Last Calib.: 2012.11.05
 Start Time: 09:24:00 End Time: 16:58:00 Time On Btm: 2012.11.04 @ 11:18:30
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 1st Shut in 30 minutes No blow back
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 2nd Shut in 150 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1287.08	93.27	Initial Hydro-static
2	64.84	97.16	Open To Flow (1)
4	93.63	97.52	Shut-In(1)
34	994.20	98.29	End Shut-In(1)
35	70.62	97.98	Open To Flow (2)
91	116.17	97.81	Shut-In(2)
251	993.88	98.61	End Shut-In(2)
252	1304.60	98.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Muddy water 20%Mud80%Water	0.87
72.00	Mud 100%	1.01
0.00	Chlorides 36,000@56degrees	0.00

Gas Rates

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



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TOOL DIAGRAM

Primal Energy O&G
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Tool Information

Drill Pipe:	Length: 2669.00 ft	Diameter: 3.80 inches	Volume: 37.44 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 37.44 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	2676.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 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			2653.00	
Hydraulic Tool	5.00			2658.00	
Jars	6.00			2664.00	
Safety Joint	2.00			2666.00	
Packer	5.00			2671.00	28.00 Bottom Of Top Packer
Packer	5.00			2676.00	
Anchor	19.00			2695.00	
Recorder	1.00	6663	Inside	2696.00	
Recorder	1.00	8400	Outside	2697.00	
Bull Plug	3.00			2700.00	24.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



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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: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: 0.40 ohm.m	Gas Cushion Pressure: psia		
Salinity: 6100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Muddy w ater 20%Mud80%Water	0.870
72.00	Mud 100%	1.010
0.00	Chlorides 36,000@56degrees	0.000

Total Length: 134.00 ft Total Volume: 1.880 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

