



DRILL STEM TEST REPORT

Prepared For: **Captiva II**

445 union Blvd Suit 208 Lakewood CO 80228

ATTN: Jeff Lawler

Brown #1-12

12-22s-10w Reno

Start Date: 2013.02.16 @ 17:15:00

End Date: 2013.02.17 @ 00:56:30

Job Ticket #: 17387 DST #: 1

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

Printed: 2013.02.17 @ 01:11:58

Captiva II
12-22s-10w Reno
Brown #1-12
DST # 1
LKC A-F
2013.02.16



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 ATTN: Jeff Lawler

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 Test Start: 2013.02.16 @ 17:15:00

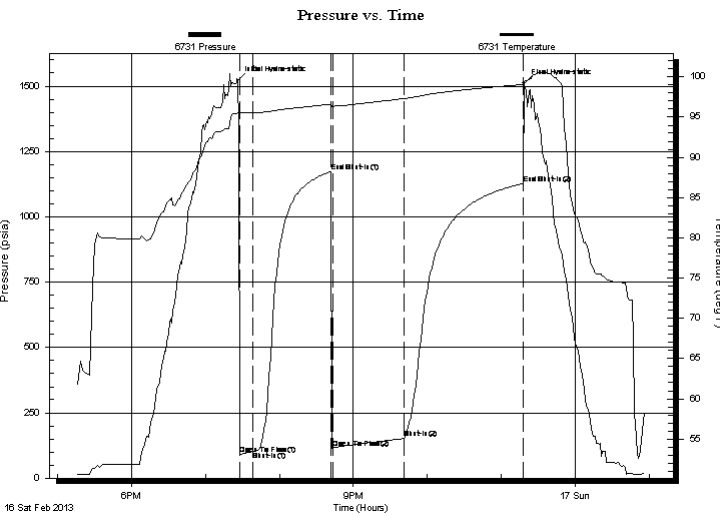
GENERAL INFORMATION:

Formation: **LKC A-F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:27:30 Tester: Jared Scheck
 Time Test Ended: 00:56:30 Unit No: 3320- Great Bend- 70
Interval: 3075.00 ft (KB) To 3191.00 ft (KB) (TVD) Reference Elevations: 1743.00 ft (KB)
 Total Depth: 3191.00 ft (KB) (TVD) 1734.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 6731

Press@RunDepth: 151.64 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.16 End Date: 2013.02.17 Last Calib.: 2013.02.17
 Start Time: 17:15:00 End Time: 00:56:30 Time On Btm: 2013.02.16 @ 19:26:00
 Time Off Btm: 2013.02.16 @ 23:18:30

TEST COMMENT: 1st Opening 15 Minutes-Weak blow built 7 inches into water in 15 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Weak blow built 2 inches from bottom of bucket in 60 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1522.36	95.57	Initial Hydro-static
2	91.20	95.50	Open To Flow (1)
13	101.61	95.59	Shut-In(1)
76	1172.82	96.61	End Shut-In(1)
77	113.71	96.37	Open To Flow (2)
135	151.64	97.30	Shut-In(2)
232	1125.08	99.06	End Shut-In(2)
233	1510.86	99.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	0.59

Gas Rates

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



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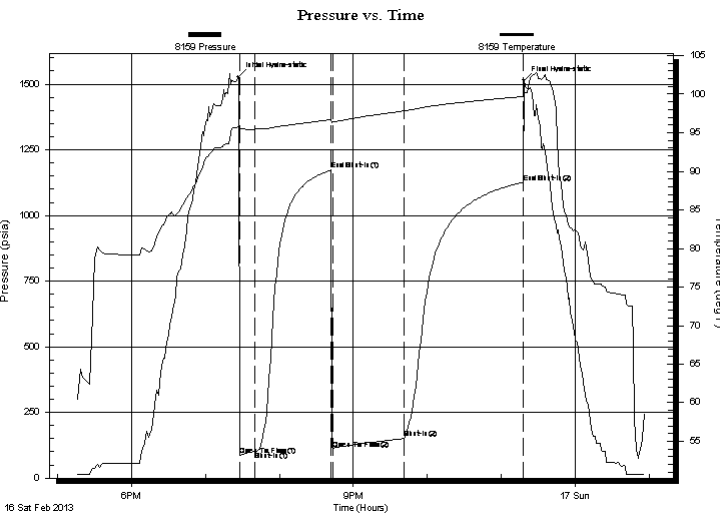
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 Time Test Ended: 00:56:30
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 Total Depth: 3191.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320- Great Bend- 70
 Reference Elevations: 1743.00 ft (KB)
 1734.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8159

Press@RunDepth: 1125.84 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.16 End Date: 2013.02.17 Last Calib.: 2013.02.17
 Start Time: 17:15:00 End Time: 00:56:30 Time On Btm: 2013.02.16 @ 19:26:30
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TEST COMMENT: 1st Opening 15 Minutes-Weak blow built 7 inches into water in 15 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Weak blow built 2 inches from bottom of bucket in 60 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1527.06	95.83	Initial Hydro-static
1	88.50	95.47	Open To Flow (1)
13	101.47	95.45	Shut-In(1)
76	1172.49	96.71	End Shut-In(1)
77	111.63	96.46	Open To Flow (2)
135	150.51	97.84	Shut-In(2)
231	1125.84	99.67	End Shut-In(2)
232	1515.05	100.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	0.59

Gas Rates

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



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TOOL DIAGRAM

Captiva II
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Brown #1-12
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Tool Information

Drill Pipe:	Length: 2866.00 ft	Diameter: 3.80 inches	Volume: 40.20 bbl	Tool Weight:	1000.00 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	71000.00 lb
			<u>Total Volume: 41.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	67000.00 lb
Depth to Top Packer:	3075.00 ft			Final	67000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	116.00 ft				
Tool Length:	144.00 ft				
Number of Packers:	2	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			3052.00	
Hydraulic Tool	5.00			3057.00	
Jars	6.00			3063.00	
Safety Joint	2.00			3065.00	
Packer	5.00			3070.00	28.00 Bottom Of Top Packer
Packer	5.00			3075.00	
Anchor	5.00			3080.00	
Change Over Sub	0.75			3080.75	
Drill Pipe	63.50			3144.25	
Change Over Sub	0.75			3145.00	
Anchor	41.00			3186.00	
Recorder	1.00	6731	Inside	3187.00	
Recorder	1.00	8159	Outside	3188.00	
Bullnose	3.00			3191.00	116.00 Bottom Packers & Anchor

Total Tool Length: 144.00



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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: 56.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

