



# DRILL STEM TEST REPORT

WO OPERATING COOLSEY CO

**SPICER GU C-3 #1**

125 NORTH MARKET STE 1000

**28-33-10 BARBER**

ATTN: SCOTT ALBERG

Job Ticket: 15812

**DST#: 1**

Test Start: 2011.05.29 @ 12:08:00

## GENERAL INFORMATION:

Formation: **MISSISSIPPI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:57:30

Time Test Ended: 22:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DUSTIN ELLIS

Unit No: 3320-GB

**Interval: 4474.00 ft (KB) To 4595.00 ft (KB) (TVD)**

Reference Elevations: 1439.00 ft (KB)

Total Depth: 4595.00 ft (KB) (TVD)

1400.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 39.00 ft

**Serial #: 6663 Inside**

Press @ RunDepth: 237.83 psia @ 4591.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.29

End Date: 2011.05.29

Last Calib.: 2011.05.29

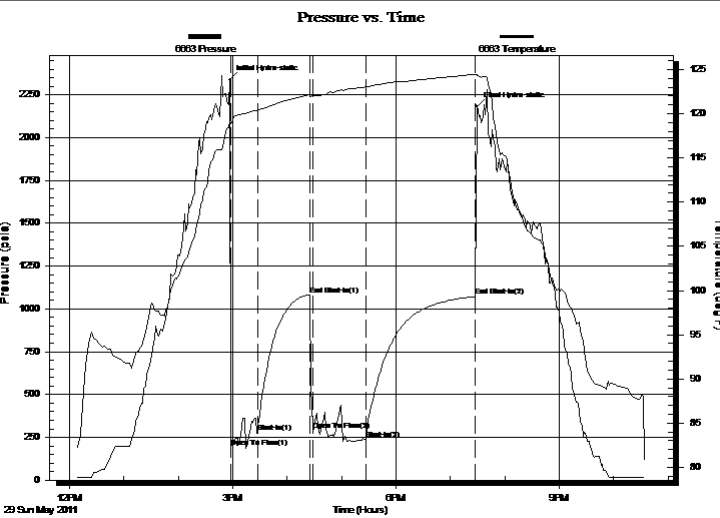
Start Time: 12:08:00

End Time: 22:35:00

Time On Btm: 2011.05.29 @ 14:57:00

Time Off Btm: 2011.05.29 @ 19:29:00

**TEST COMMENT:** 30/INTIAL OPEN STRONG BLOW 2.5 MINUTES BOTTOM OF BUCKET  
 60/INTAL SHUTIN STRONG BLOW BUIT BOTTOM  
 60/FINAL OPEN STRONG BLOW BUIT BOTTOM OF BUCKET LESS THAN ONE MINUTE  
 120/FINAL SHUT IN BUTTOM BUCKIT BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2335.79	119.30	Initial Hydro-static
1	191.68	118.84	Open To Flow (1)
30	279.95	120.40	Shut-In(1)
88	1081.62	122.14	End Shut-In(1)
92	293.38	121.98	Open To Flow (2)
150	237.83	123.03	Shut-In(2)
271	1072.80	124.45	End Shut-In(2)
272	2181.96	124.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	GASSY MUD 20% GAS 80% MUD	0.07
120.00	GASSY MUD 20% GAS 80% MUD	0.59
120.00	OIL CUT WATERY MUD 15%OIL70%MUD0.73WATER	0.73
120.00	SLIGHTLY GASSY OIL CUT MUDDY WA	11.68
0.00	10%GAS10%OIL50%MUD30%WATER	0.00
0.00	CHLORIDES 28000	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	3.70	24.96
Last Gas Rate	0.50	5.10	34.40
Max. Gas Rate	0.50	5.10	34.40



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

WO OPERATING COOLSEY CO

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Test Start: 2011.05.29 @ 12:08:00

## Tool Information

Drill Pipe:	Length: 4215.00 ft	Diameter: 3.80 inches	Volume: 59.13 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 60.31 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	6000.00 lb
Depth to Top Packer:	4474.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	121.00 ft				
Tool Length:	150.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: GAS TO SUFACE 2ND OPEN SEE GAS REPORT

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4446.00	
Shut-In Tool	5.00			4451.00	
Hydroic Tool	5.00			4456.00	
Jars	6.00			4462.00	
Safety Joint	2.00			4464.00	
Packer	5.00			4469.00	29.00 Bottom Of Top Packer
Packer	5.00			4474.00	
Perforations	0.00			4474.00	
Change Over Sub	0.75			4474.75	
Drill Pipe	94.50			4569.25	
Change Over Sub	0.75			4570.00	
Perforations	20.00			4590.00	
Recorder	1.00	6663	Inside	4591.00	
Recorder	1.00	6666	Outside	4592.00	
Bullnose	3.00			4595.00	121.00 Bottom Packers & Anchor

**Total Tool Length: 150.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

WO OPERATING COOLSEY CO

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Job Ticket: 15812

**DST#: 1**

ATTN: SCOTT ALBERG

Test Start: 2011.05.29 @ 12:08:00

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 54.00 sec/qt  
 Water Loss: 12.00 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 5000.00 ppm  
 Filter Cake: 1.00 inches

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

Oil API: deg API  
 Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GASSY MUD 20% GAS 80% MUD	0.074
120.00	GASSY MUD 20% GAS 80% MUD	0.590
120.00	OIL CUT WATERY MUD 15%OIL70%MUD15%	0.727
120.00	SLIGHTLY GASSY OIL CUT MUDDY WATER	1.683
0.00	10%GAS10%OIL50%MUD30%WATER	0.000
0.00	CHLORIDES 28000	0.000

Total Length: 375.00 ft      Total Volume: 3.074 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: GAS TO SURFACE 2ND OPEN SEE GAS REPORT /CHLORIDES 28000



# DRILL STEM TEST REPORT

**GAS RATES**

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## Gas Rates Information

Temperature: 59 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	0.50	3.70	24.96
2	20	0.50	4.20	28.33
2	30	0.50	4.20	28.33
2	40	0.50	5.10	34.40
2	50	0.50	5.10	34.40

### Pressure vs. Time

