



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Trek AEC, LLC  
 155 N. Market, Ste.155  
 Wichita Ks. 67202  
 ATTN: Roger Martin

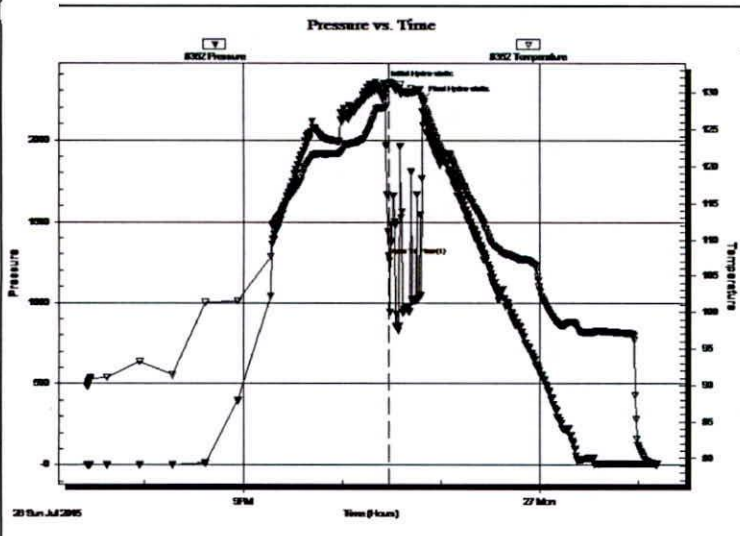
**20-29s-11w Pratt Ks.**  
**McCaskey #2-20**  
 Job Ticket: 59788      **DST#: 1**  
 Test Start: 2015.07.26 @ 19:24:48

### GENERAL INFORMATION:

Formation: **Simpson Sd**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 22:28:18  
 Time Test Ended: 01:11:33  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gary Pevoteaux  
 Unit No: 80  
 Interval: **4645.00 ft (KB) To 4660.00 ft (KB) (TVD)**  
 Total Depth: 4660.00 ft (KB) (TVD)  
 Reference Elevations: 1867.00 ft (KB)  
 1854.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor      KB to GR/CF: 13.00 ft

**Serial #: 8352      Outside**  
 Press@RunDepth:                      psig @      4646.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.07.26      End Date: 2015.07.27      Last Calib.: 2015.07.27  
 Start Time: 19:24:53      End Time: 01:11:32      Time On Btm: 2015.07.26 @ 22:25:48  
 Time Off Btm: 2015.07.26 @ 22:48:33

**TEST COMMENT:** IF: Strong blow . Packers failing. Applied more weight to tool but we were losing mud to fast on backside. Picked up off btm. Continued to loose mud on backside. Aborted test. Misrun!



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.07	127.98	Initial Hydro-static
3	1290.93	131.15	Open To Flow (1)
23	2239.02	129.20	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1920.00	Drig. mud	13.66

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



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**20-29s-11w Pratt Ks.**  
**McCaskey #2-20**  
Job Ticket: 59788      **DST#: 1**  
Test Start: 2015.07.26 @ 19:24:48

## Mud and Cushion Information

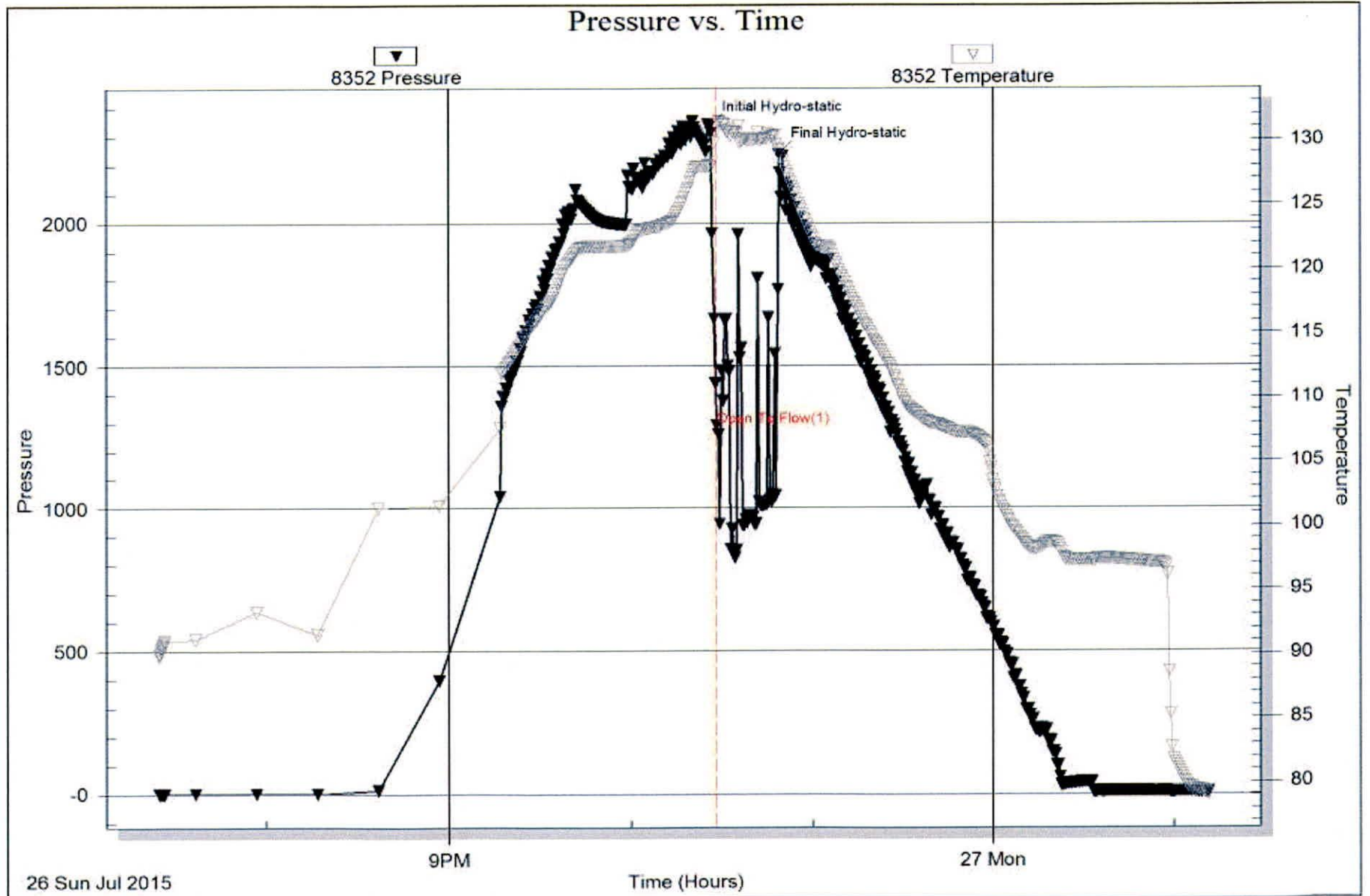
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	6000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1920.00	Drig.mud	13.656

Total Length: 1920.00 ft      Total Volume: 13.656 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





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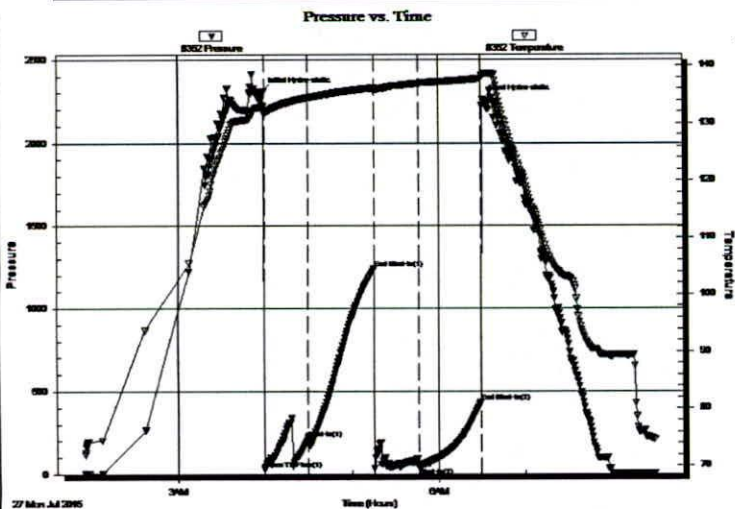
**20-29s-11w Pratt Ks.**  
**McCaskey #2-20**  
 Job Ticket: 57789      **DST#: 2**  
 Test Start: 2015.07.27 @ 01:55:17

## GENERAL INFORMATION:

Formation: **Simpson Sd**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:59:32  
 Time Test Ended: 08:29:02  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Gary Pevoteaux  
 Unit No: 80  
 Interval: **4640.00 ft (KB) To 4660.00 ft (KB) (TVD)**  
 Total Depth: 4660.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Reference Elevations: 1867.00 ft (KB)  
 1854.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 8352      Outside**  
 Press@RunDepth: 37.99 psig @ 4641.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.07.27      End Date: 2015.07.27      Last Calib.: 2015.07.27  
 Start Time: 01:55:22      End Time: 08:29:01      Time On Btm: 2015.07.27 @ 03:58:17  
 Time Off Btm: 2015.07.27 @ 06:30:32

TEST COMMENT: IF:Weak blow . 1/2" decreasing. Dead in 25 mins.  
 IS:No blow .  
 FF:No blow .  
 FS:No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.30	132.98	Initial Hydro-static
2	28.71	131.50	Open To Flow (1)
32	216.37	134.43	Shut-In(1)
77	1238.00	136.15	End Shut-In(1)
78	33.01	135.52	Open To Flow (2)
108	37.99	136.83	Shut-In(2)
151	436.09	137.75	End Shut-In(2)
153	2258.14	138.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drlg.mud Oil specs @ top of tool	0.10

\* Recovery from multiple tests

## Gas Rates

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





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## FLUID SUMMARY

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20-29s-11w Pratt Ks.

155 N. Market, Ste.155  
Wichita Ks. 67202

**McCaskey #2-20**

Job Ticket: 57789

**DST#: 2**

ATTN: Roger Martin

Test Start: 2015.07.27 @ 01:55:17

### 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:

6000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drlg.mud Oil specs @ top of tool	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

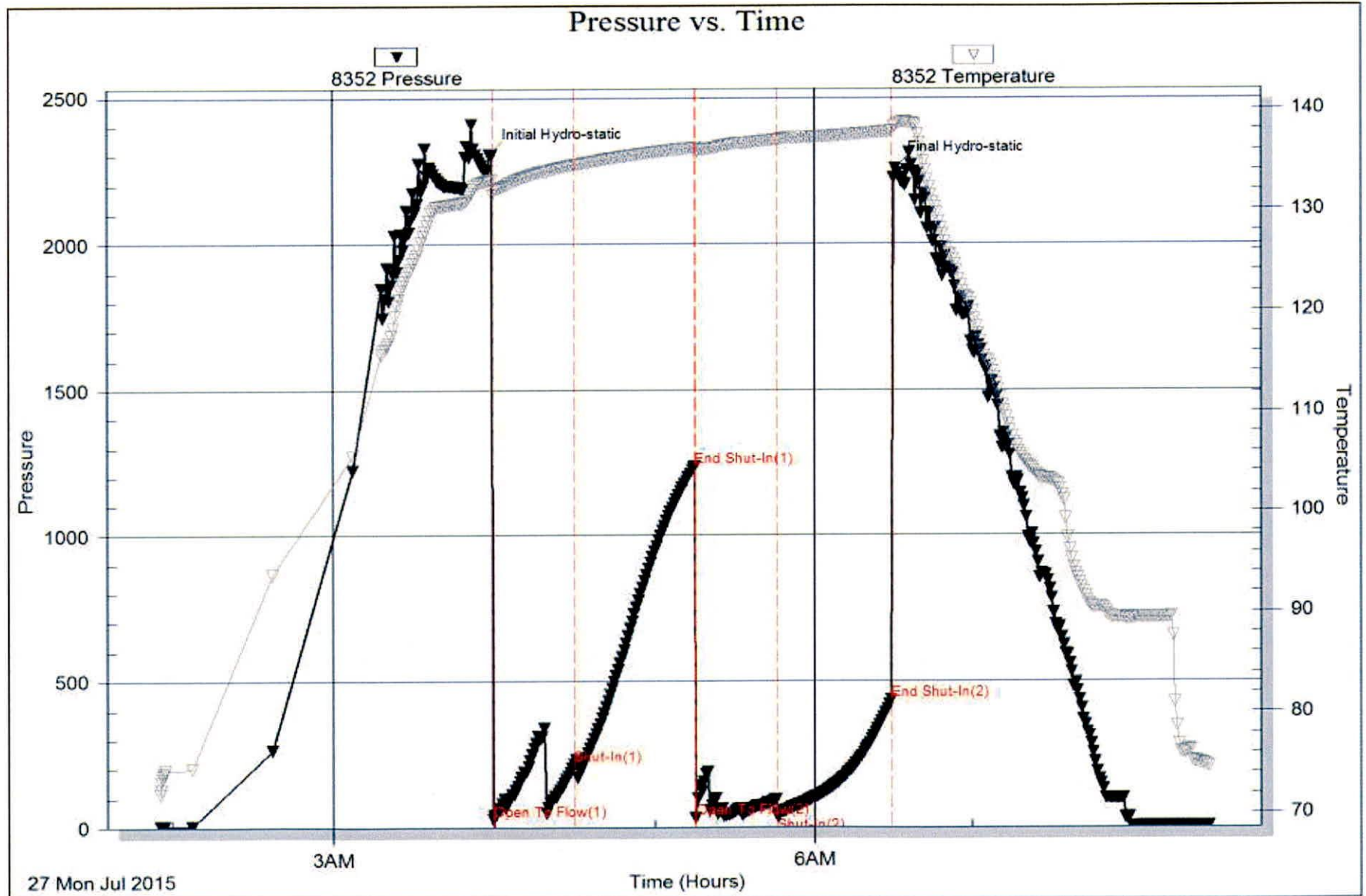
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





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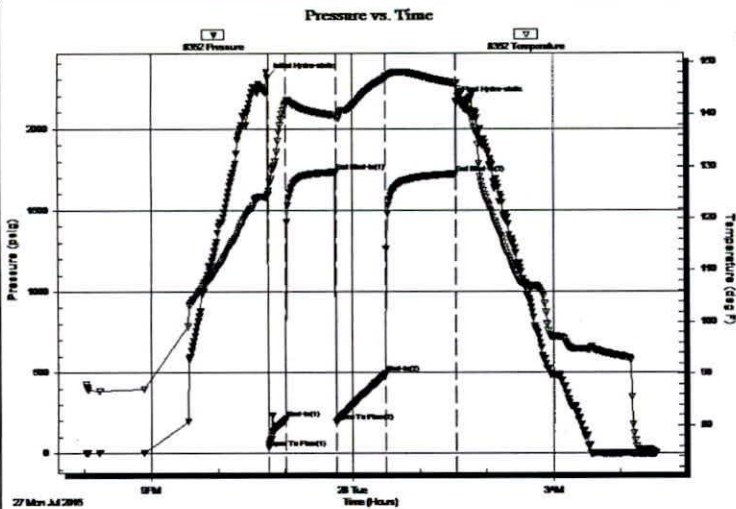
**20-29s-11w Pratt Ks.**  
**McCaskey #2-20**  
Job Ticket: 57790      **DST#: 3**  
Test Start: 2015.07.27 @ 20:01:22

### GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:45:07  
Time Test Ended: 04:31:52  
Interval: **4657.00 ft (KB) To 4703.00 ft (KB) (TVD)**  
Total Depth: 4703.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Gary Pevoteaux  
Unit No: 80  
Reference Elevations: 1867.00 ft (KB)  
1854.00 ft (CF)  
KB to GR/CF: 13.00 ft

**Serial #: 8352**      **Outside**  
Press@RunDepth: 495.94 psig @ 4658.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.07.27      End Date: 2015.07.28  
Start Time: 20:01:27      End Time: 04:31:51      Last Calib.: 2015.07.28  
Time On Btm: 2015.07.27 @ 22:44:07  
Time Off Btm: 2015.07.28 @ 01:33:07

TEST COMMENT: IF: Strong blow . B.O.B. in 8 1/2 mins.  
IS: No blow .  
FF: Strong blow . B.O.B. in 10 1/2 mins.  
FS: No blow .



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2311.11	124.30	Initial Hydro-static
1	35.84	124.53	Open To Flow (1)
17	213.83	142.11	Shut-In(1)
61	1733.66	139.82	End Shut-In(1)
62	198.45	139.33	Open To Flow (2)
106	495.94	146.92	Shut-In(2)
169	1722.04	145.88	End Shut-In(2)
169	2169.26	145.97	Final Hydro-static

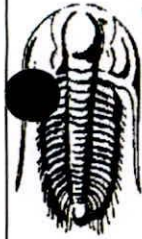
### Recovery

Length (ft)	Description	Volume (bbl)
949.00	SW/ Rw .13ohms@93deg	6.52
186.00	MW 30%w 70%w	1.37
90.00	WM 43%w 5%w	0.66

\* Recovery from multiple tests

### Gas Rates

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



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155 N. Market, Ste.155  
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**McCaskey #2-20**

Job Ticket: 57790

**DST#: 3**

ATTN: Roger Martin

Test Start: 2015.07.27 @ 20:01:22

### 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:	47000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8500.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
949.00	SW/ Rw .13ohms@93deg	6.522
186.00	MW 30%m 70%w	1.366
90.00	WM 43%w 5%m	0.661

Total Length: 1225.00 ft      Total Volume: 8.549 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



