

**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McEvain, Oil & Gas Prop. inc.

Hemmert #24-9

1050 17th  
STE 2500  
Denver, CO. 80265+2080  
ATTN: Richard Bell

24-11s-23w Trego

Job Ticket: 041532

DST#: 1

Test Start: 2011.01.06 @ 17:12:05

## GENERAL INFORMATION:

Formation: **LKC"A"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 18:43:40

Time Test Ended: 23:04:50

Test Type: **Conventional Bottom Hole**

Tester: **Andy Carreira**

Unit No: **31**

Interval: **3604.00 ft (KB) To 3630.00 ft (KB) (TVD)**

Total Depth: **3630.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2364.00 ft (KB)**

**2359.00 ft (CF)**

KB to GRVCF: **5.00 ft**

Serial #: **8352**

Outside

Press@RunDepth: **23.96 psig @ 3605.00 ft (KB)**

Start Date: **2011.01.06**

End Date:

**2011.01.06**

Start Time: **17:12:05**

End Time:

**23:04:50**

Capacity: **8000.00 psig**

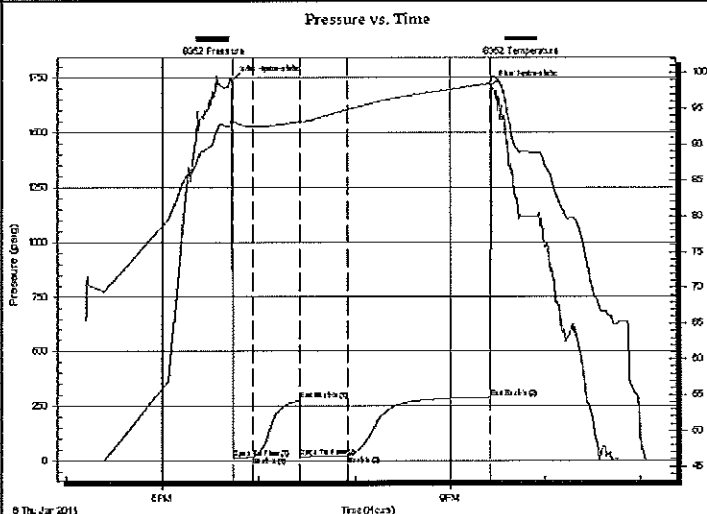
Last Calib.: **2011.01.06**

Time On Btm: **2011.01.06 @ 18:42:50**

Time Off Btm: **2011.01.06 @ 21:26:20**

TEST COMMENT: IF: Weak, Half inch  
IS: No Return  
FF: Weak, Half inch  
FS: No Return

## PRESSURE SUMMARY



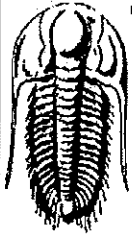
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1738.66	93.56	Initial Hydro-static
1	13.05	93.05	Open To Flow (1)
14	18.38	92.49	Shut-In(1)
43	276.91	93.21	End Shut-In(1)
43	18.90	93.07	Open To Flow (2)
73	23.96	94.88	Shut-In(2)
163	289.67	98.50	End Shut-In(2)
164	1712.64	99.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w /oil specks in tool	0.05

## Gas Rates

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



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24-11s-23w Trego  
Job Ticket: 041532      DST#: 1  
Test Start: 2011.01.06 @ 17:12:05

## 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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w/oil specks in tool	0.049

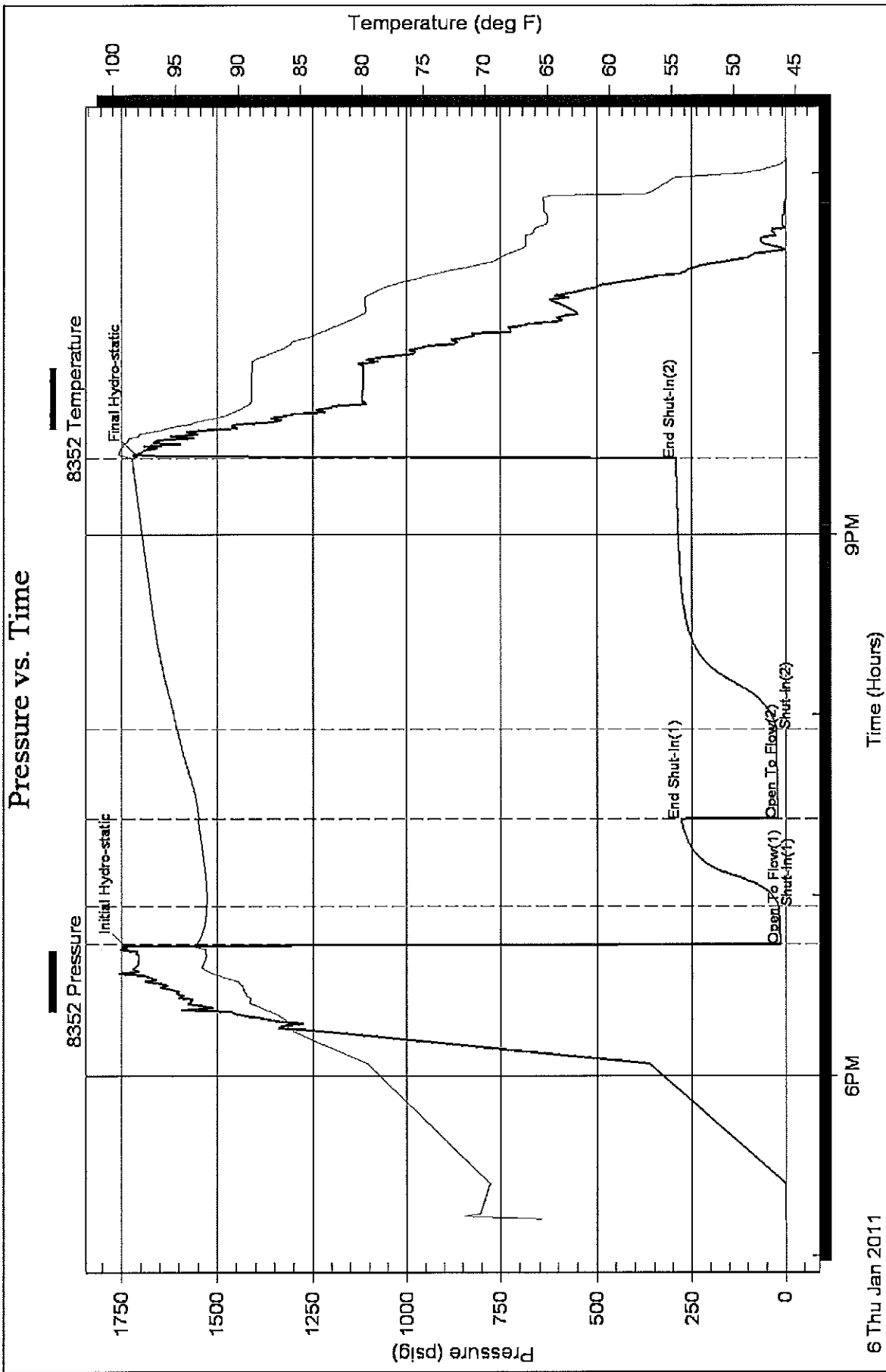
Total Length: 10.00 ft      Total Volume: 0.049 bbl

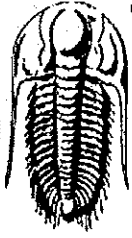
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





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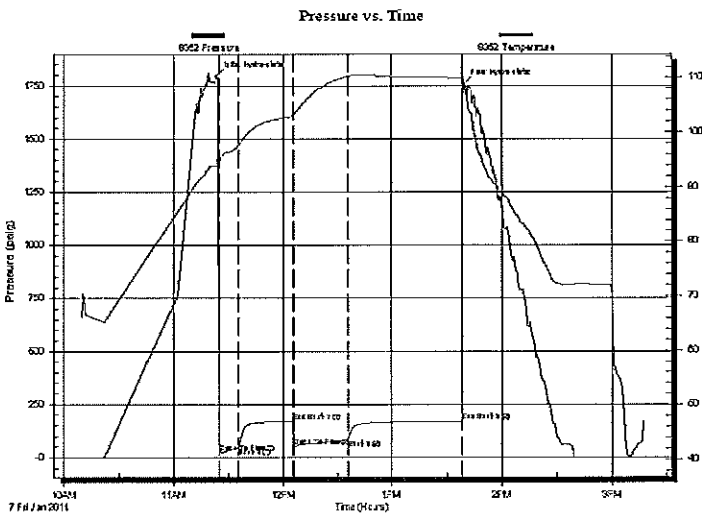
**Hemmert #24-9**  
**24-11s-23w Trego**  
Job Ticket: 041533      **DST#: 2**  
Test Start: 2011.01.07 @ 10:10:05

## GENERAL INFORMATION:

Formation: **LKC"F"**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 11:24:50  
Time Test Ended: 15:17:20  
Test Type: Conventional Bottom Hole  
Tester: Andy Carreira  
Unit No: 31  
Interval: **3693.00 ft (KB) To 3710.00 ft (KB) (TVD)**  
Reference Elevations: 2364.00 ft (KB)  
Total Depth: 3710.00 ft (KB) (TVD)                      2359.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair                      KB to GRVCF: 5.00 ft

**Serial #: 8352**      **Outside**  
Press@RunDepth: 83.13 psig @ 3694.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.01.07      End Date: 2011.01.07      Last Calib.: 2011.01.07  
Start Time: 10:10:05      End Time: 15:17:20      Time On Btm: 2011.01.07 @ 11:23:30  
Time Off Btm: 2011.01.07 @ 13:39:10

TEST COMMENT: IF: BOB, 3min.  
IS: No Return  
FF: BOB, 8min.  
FS: No Return



## PRESSURE SUMMARY

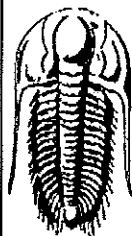
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1793.51	94.15	Initial Hydro-static
2	22.20	94.54	Open To Flow (1)
12	47.22	97.64	Shut-In(1)
42	169.76	102.91	End Shut-In(1)
43	50.57	102.89	Open To Flow (2)
73	83.13	110.25	Shut-In(2)
135	170.02	109.95	End Shut-In(2)
136	1757.82	108.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMV g=5% m=35% w=60%	0.30
90.00	GOSMV g=5% o=5% m=10% w=80%	0.69
0.00	GIP=750ft	0.00

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/d)



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ATTN: Richard Bell

24-11s-23w Trego  
Job Ticket: 041533      DST#: 2  
Test Start: 2011.01.07 @ 10:10:05

## 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMV g=5% m=35% w=60%	0.295
90.00	GOSMV g=5% o=5% m=10% w=80%	0.689
0.00	GIP=750ft	0.000

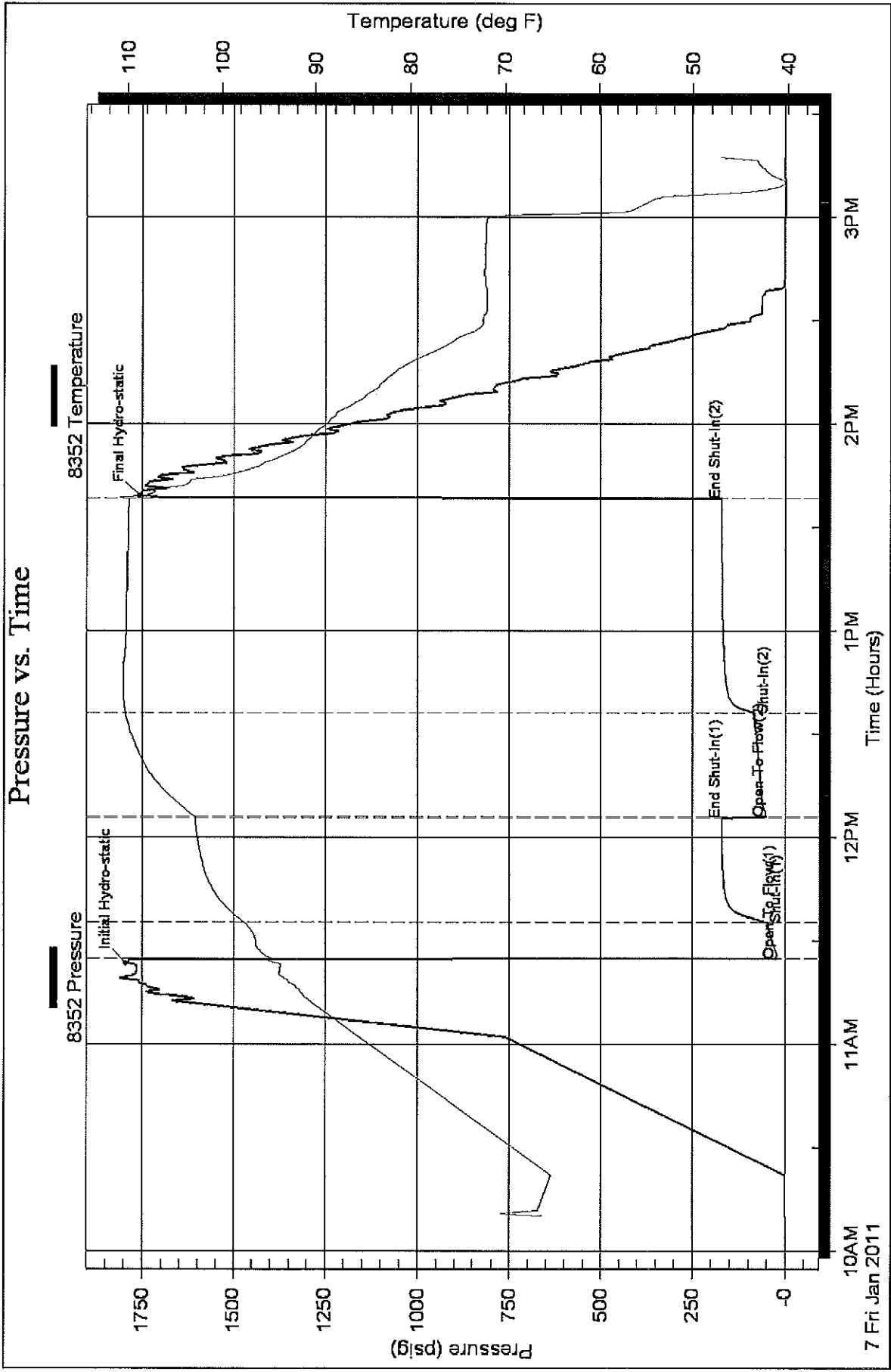
Total Length: 150.00 ft      Total Volume: 0.984 bbl

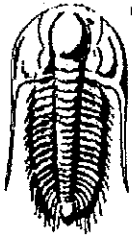
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





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**24-11s-23w Trego**

Job Ticket: 041534 **DST#: 3**

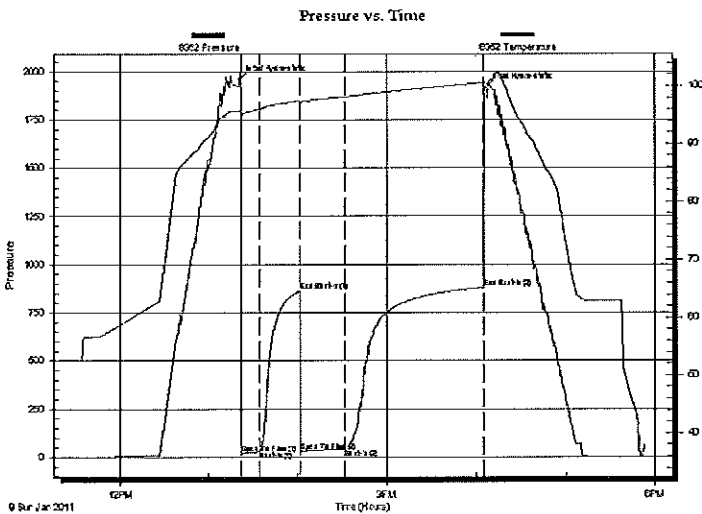
Test Start: 2011.01.09 @ 11:35:05

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 13:21:50  
 Tester: Andy Carreira  
 Time Test Ended: 17:52:50  
 Unit No: 31  
 Interval: **3930.00 ft (KB) To 3999.00 ft (KB) (TVD)**  
 Reference Elevations: 2364.00 ft (KB)  
 Total Depth: 3999.00 ft (KB) (TVD)  
 2359.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

**Serial #: 8352** Outside  
 Press@RunDepth: 43.73 psig @ 3937.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.01.09 End Date: 2011.01.09 Last Calib.: 2011.01.09  
 Start Time: 11:35:05 End Time: 17:52:50 Time On Btm: 2011.01.09 @ 13:20:40  
 Time Off Btm: 2011.01.09 @ 16:05:39

**TEST COMMENT:** IF: Weak, 1+ inch  
 IS: No Return  
 FF: 2. & one half inches  
 FS: No Return



## PRESSURE SUMMARY

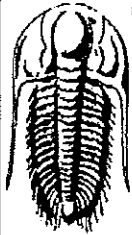
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1958.25	95.63	Initial Hydro-static
2	20.65	94.53	Open To Flow (1)
14	29.61	96.06	Shut-In(1)
42	864.02	97.44	End Shut-In(1)
42	32.09	96.99	Open To Flow (2)
72	43.73	98.10	Shut-In(2)
165	880.26	100.50	End Shut-In(2)
165	1912.48	100.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM o=10% m=90%	0.30
2.00	Oil o=100%	0.01

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/d)



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Job Ticket: 041534      **DST#: 3**  
Test Start: 2011.01.09 @ 11:35:05

## 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM o=10% m=90%	0.295
2.00	Oil O=100%	0.010

Total Length: 62.00 ft      Total Volume: 0.305 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



### Pressure vs. Time

