15-069-25288

DRILL STEM TEST REPORT

Prepared For: **RJM OIL CO.**

P.O. BOX 256
CLAFLIN KS 67525-0256

SE SE NW NE

ATTN: JIM MUSGROVE

1150 FNL
1400 FEL

34-16S-11W BARTON

FREES #1

Start Date: 2008.11.17 @ 13:05:00
End Date: 2008.11.17 @ 19:51:30
Job Ticket #: 16169 DST #: 1

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

Printed: 2008.11.17 @ 19:43:41

RJM OIL CO. FREES #1 34-16S-11W BARTON DST #1 ARBUCKLE 2008.11.17

34-16S-11W

DRILL STEM TEST REPORT

RJM OIL CO.

P.O. BOX 256
CLAFLIN KS 67525-0256

ATTN: JIM MUSGROVE

FREES #1

34-16S-11W BARTON

Job Ticket: 16169 **DST#: 1**

Test Start: 2008.11.17 @ 13:05:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:15:30
Time Test Ended: 19:51:30

Test Type: Conventional Bottom Hole (Initial)
Tester: FRANK ZAMARRIPA
Unit No: 3335 64 M GB

Interval: 3342.00 ft (KB) To 3387.00 ft (KB) (TVD)
Total Depth: 3387.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

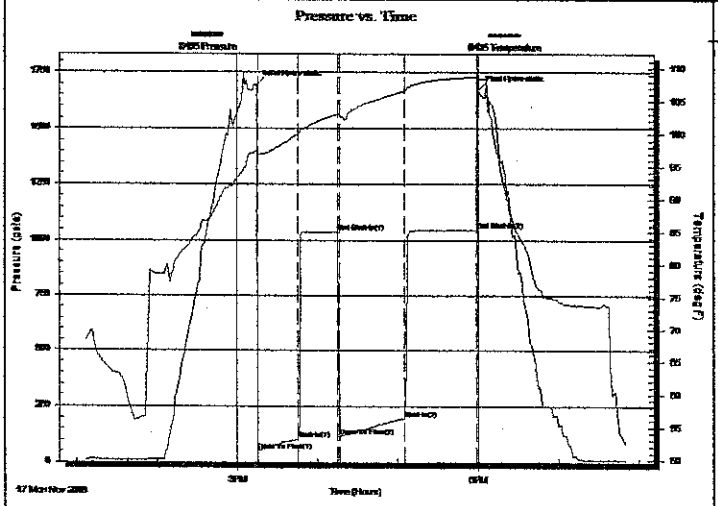
Reference Elevations: 1953.00 ft (KB)
1948.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8405 **Inside**

Press@RunDepth: 195.00 psia @ 3382.00 ft (KB)
Start Date: 2008.11.17 End Date: 2008.11.17
Start Time: 13:07:00 End Time: 19:51:30

Capacity: 2000.00 psia
Last Calib.: 2008.11.17
Time On Btm: 2008.11.17 @ 15:14:30
Time Off Btm: 2008.11.17 @ 18:00:30

TEST COMMENT: 20-INITIAL OPEN:WEAK BUILDING BLOW BUILT TO BOTTOM OF 5 GALLON BUCKET IN 16 MINUTES
30-INITIAL SHUT-IN:NO BLOW BACK
30-FINAL OPEN:WEAK BUILDING BLOW BUILT TO BOTTOM OF 5 GALLON BUCKET IN 15 MINUTES
30-FINAL SHUT-IN:WEAK BLOW BACK BUILT TO 3 INCHES



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1695.00	97.49	Initial Hydro-static
2	50.00	97.03	Open To Flow (1)
32	103.00	99.98	Shut-In(1)
62	1037.00	103.07	End Shut-In(1)
63	114.00	102.72	Open To Flow (2)
111	195.00	106.58	Shut-In(2)
165	1046.00	108.68	End Shut-In(2)
167	1675.00	108.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GAS 100%	1.75
245.00	GASSY OIL 15% GAS 85% OIL	3.58
240.00	GOCM 10% GAS 20% OIL 70% MUD	3.51

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM OIL CO.

P.O. BOX 256
CLAFLIN KS 67525-0256

ATTN: JIM MUSGROVE

FREES #1

34-16S-11W BARTON

Job Ticket: 16169 **DST#: 1**

Test Start: 2008.11.17 @ 13:05:00

Tool Information

Drill Pipe:	Length:	3323.00 ft	Diameter:	3.88	inches	Volume:	48.60	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	48.60	bbl	

Drill Pipe Above KB:	2.00 ft
Depth to Top Packer:	3342.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	45.00 ft
Tool Length:	66.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:	20000.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	40000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	34000.00 lb
Final	36000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3322.00		
Shut-In Tool	5.00			3327.00		
Hydrolic Tool	5.00			3332.00		
Packer	5.00			3337.00	21.00	Bottom Of Top Packer
Packer	5.00			3342.00		
Perforations	40.00			3382.00		
Recorder	0.00	8405	Inside	3382.00		
Recorder	0.00	4143	Outside	3382.00		
Bullnose	5.00			3387.00	45.00	Bottom Packers & Anchor
Total Tool Length:	**66.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

RJM OIL CO.

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ATTN: JIM MUSGROVE

FREES #1

34-16S-11W BARTON

Job Ticket: 16169 **DST#: 1**

Test Start: 2008.11.17 @ 13:05:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	46 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	43.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	3800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

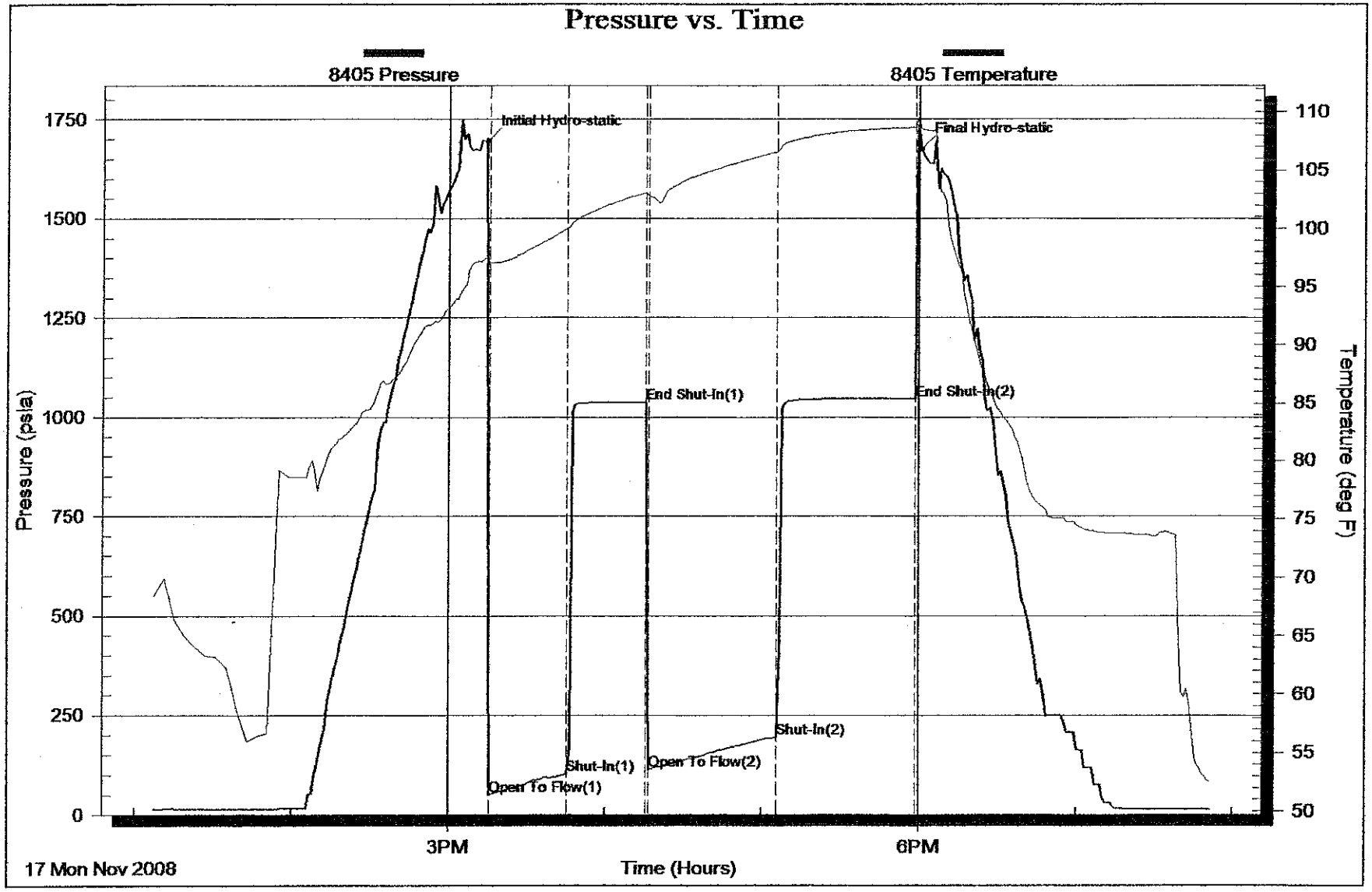
Length ft	Description	Volume bbl
120.00	GAS 100%	1.755
245.00	GASSY OIL 15% GAS 85% OIL	3.583
240.00	GOCM 10% GAS 20% OIL 70% MUD	3.510

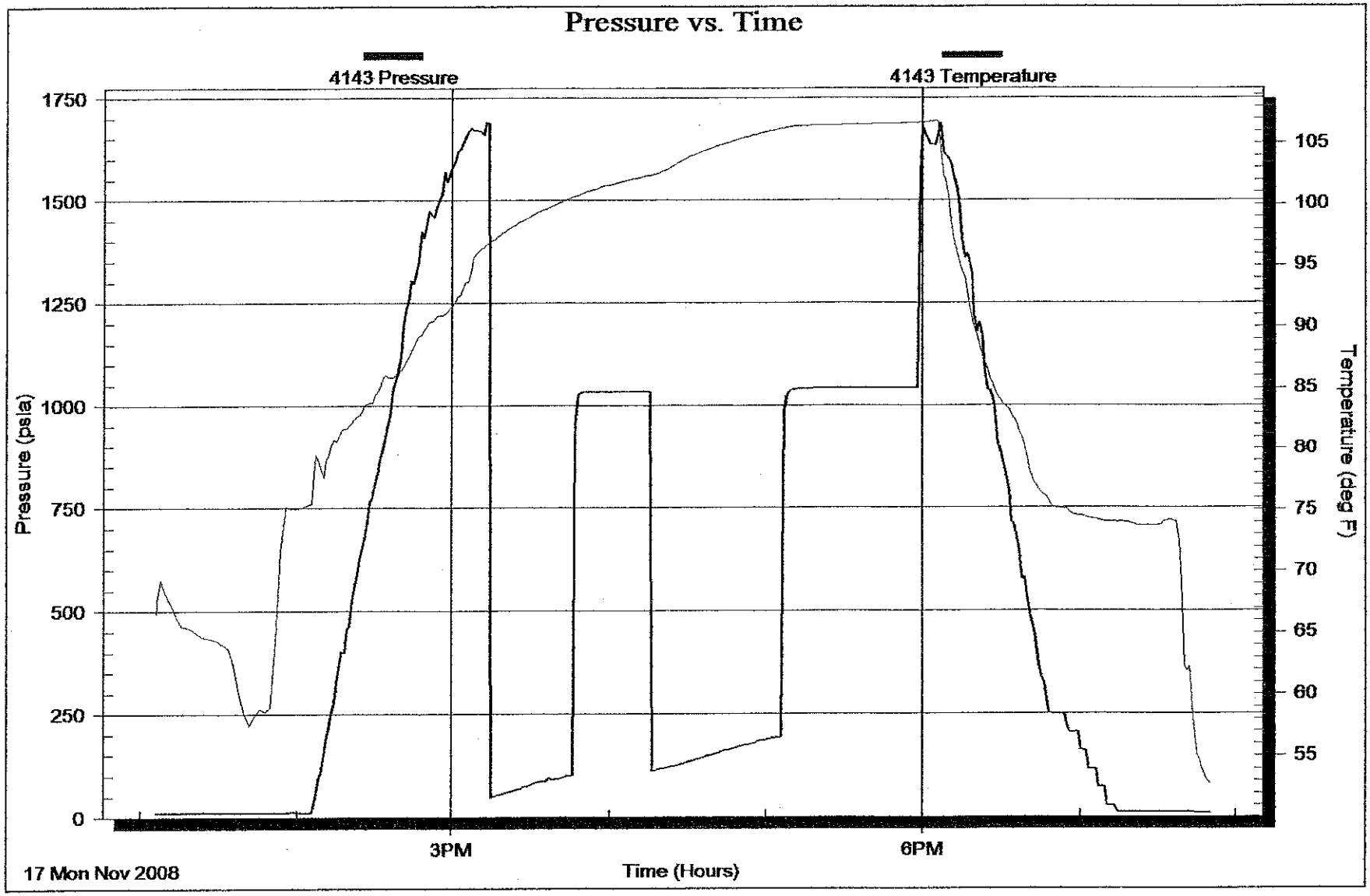
Total Length: 605.00 ft Total Volume: 8.848 bbl

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

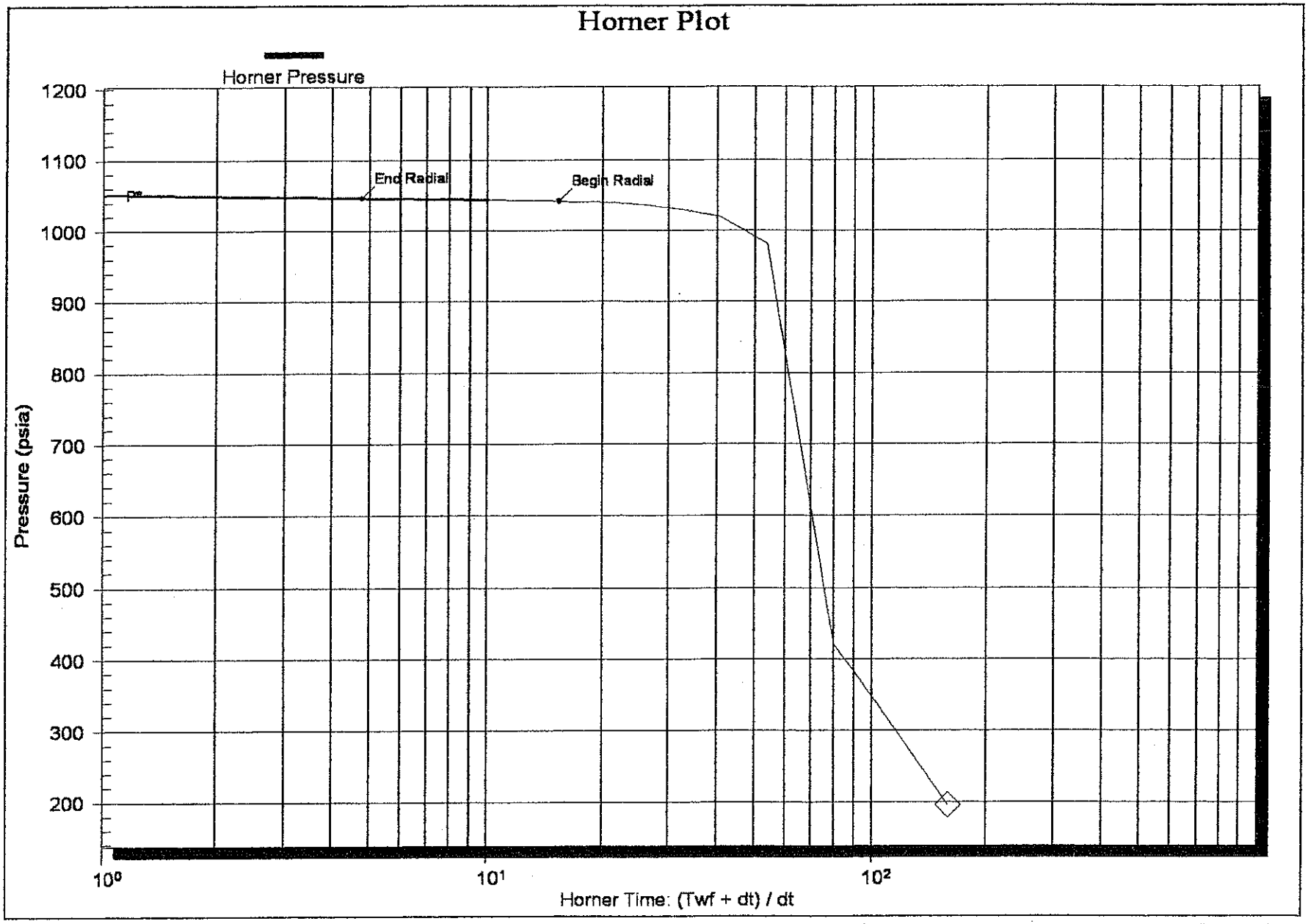
Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8405 Pressure
8405 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psia)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
110
105
100
95
90
85
80
75
70
65
60
55
50
3PM
6PM
17 Mon Nov 2008
Time (Hours)

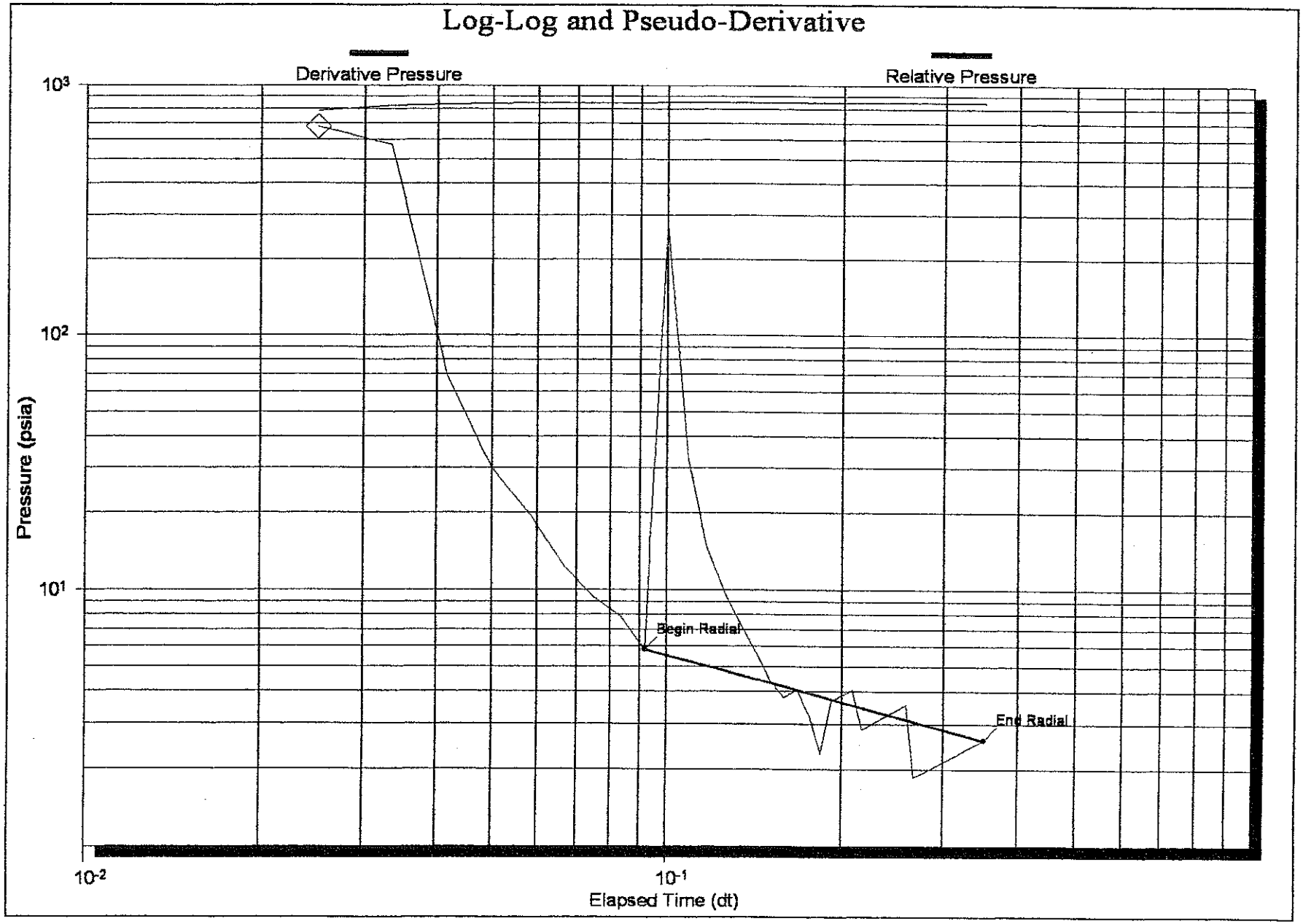

Pressure vs. Time
4143 Pressure
4143 Temperature
1750
1500
1250
1000
750
500
250
0
Pressure (psia)
105
100
95
90
85
80
75
70
65
60
55
Temperature (deg F)
3PM
6PM
Time (Hours)
17 Mon Nov 2008

RJM OIL CO. 2008.11.17 @ 13:05:00 34-16S-11W BARTON



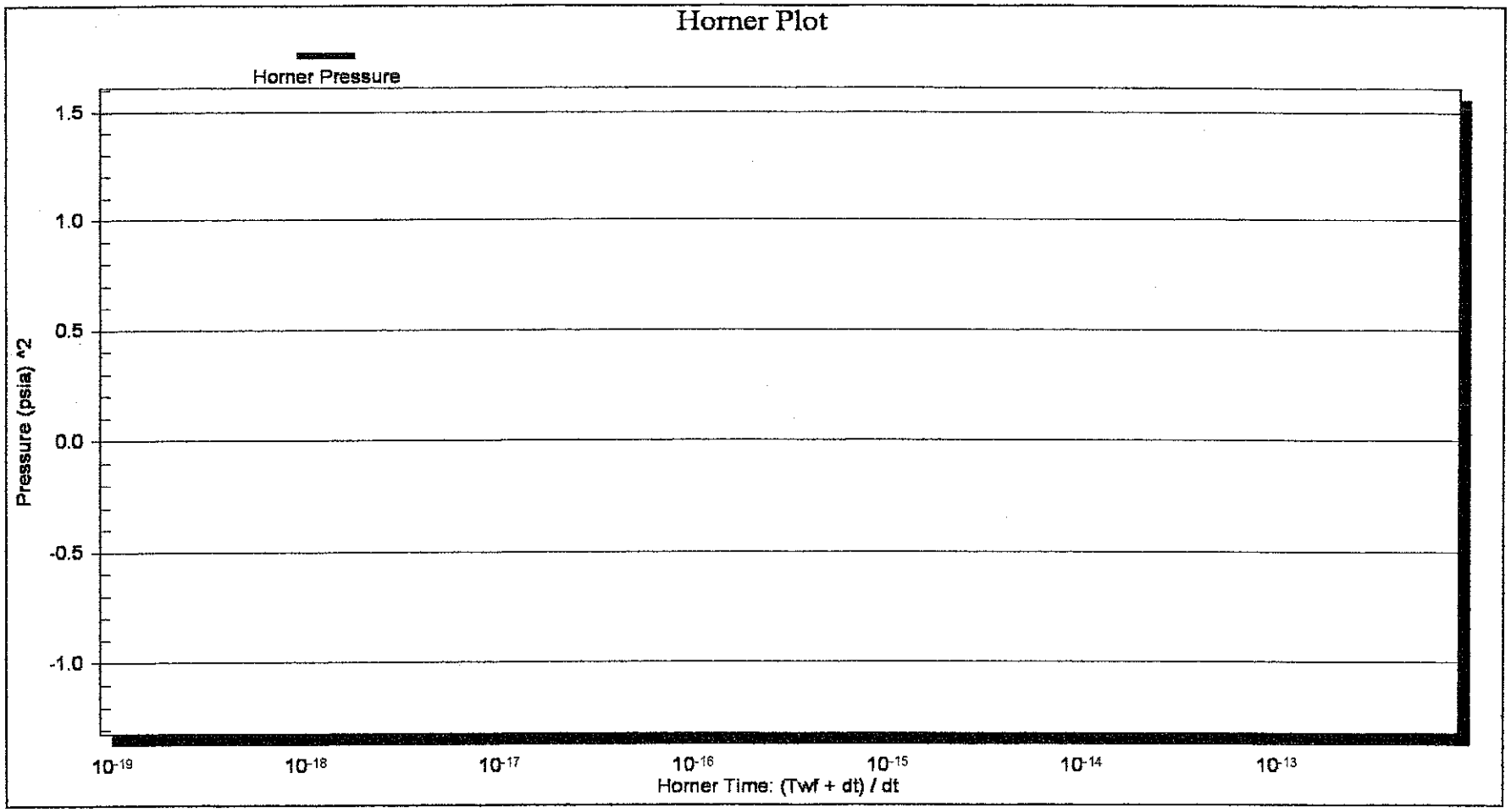
Serial Number: 8405 (Inside) P* : 1051.33 Slope (m) : 7.86 kpa/log cycle Flow Cycle: 2

RJM OIL CO. 2008.11.17 @ 13:05:00 34-16S-11W BARTON



Serial Number: 8405 (Inside) Flow Cycle: 2

RJM OIL CO. 2008.11.17 @ 13:05:00 34-16S-11W BARTON



Serial Number: 8405 (Inside) Flow Cycle: -2147483648

Analysis (Fluid)

Inputs

Average Fluid Viscosity:	1.2	Net Pay Thickness:	6.0	Inital Static Reservoir Pressure:	1051.33	Volume of Recovered Fluid:	8.85
Total System Compress:	1E-7	Formation Porosity:	0.18	Flowing Bottom Hole Pressure:	195.0	Total Flowing Time:	1.3167
Formation Volume Factor:	1.2	Water Saturation:	0.35	Wellbore Radius:	3.94		

Outputs

Horner Slope (m):	7.86	Effective Permeability:	16080.24
Radius of Investigation:	1053.2	Apparent Skin Factor:	854.39
Fluid Flow Rate:	80.0	kh:	29407.54