

DRILL STEM TEST REPORT

Bird Dog Oil L.L.C 30-19-9 Rice
 1801 Broadway ste # 450 Denver CO 80202 Pioneer-Orth 1-30
 ATTN: Adam Kennedy Job Ticket: 16984 DST#: 1
Test Start: 2012.12.06 @ 09:30:00

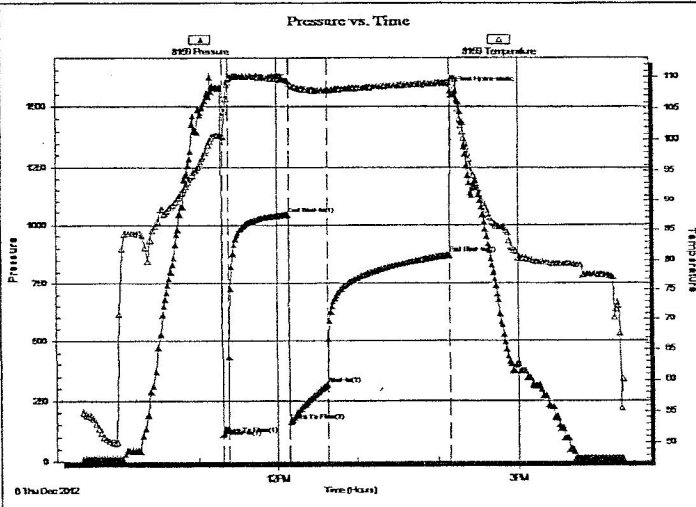
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:18:30
 Time Test Ended: 16:19:00
 Interval: 3200.00 ft (KB) To 3248.00 ft (KB) (TVD)
 Total Depth: 3284.00 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- 50
 Reference Elevations: 1732.00 ft (KB)
 1724.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8159

Press@RunDepth: 873.57 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.12.06 End Date: 2012.12.06 Last Calib.: 2012.12.06
 Start Time: 09:31:00 End Time: 16:19:00 Time On Btm: 2012.12.06 @ 11:17:30
 Time Off Btm: 2012.12.06 @ 14:09:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 2 1/2 minutes
 1st Shut-in 45 Minutes-Very weak surface blow
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 2 1/2 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

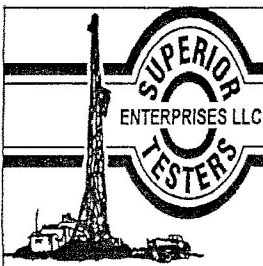
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1581.48	100.74	Initial Hydro-static
1	111.83	100.63	Open To Flow (1)
6	135.24	109.27	Shut-In(1)
51	1042.83	109.49	End Shut-In(1)
52	162.88	108.99	Open To Flow (2)
81	316.94	107.78	Shut-In(2)
171	873.57	109.05	End Shut-In(2)
172	1565.36	109.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gas oil cut mud water 5%g 70%o 20%m	51.68
120.00	gas oil cut mud 10%g 70%o 20%m	1.68
540.00	clean oil	7.57
0.00	120 gas in pipe	0.00
0.00	chlorides 10,000 resistivity .8@65degree	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil L.L.C

30-19-9 Rice

1801 Broadway ste # 450 Denver CO 80202

Pioneer-Orth 1-30

Job Ticket: 16984

DST#: 1

ATTN: Adam Kennedy

Test Start: 2012.12.06 @ 09:30:00

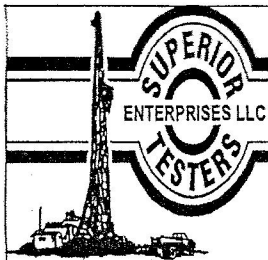
Tool Information

Drill Pipe:	Length: 3201.00 ft	Diameter: 3.80 inches	Volume: 44.90 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3200.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3177.00	
Hydraulic Tool	5.00			3182.00	
Jars	6.00			3188.00	
Safety Joint	2.00			3190.00	
Packer	5.00			3195.00	28.00 Bottom Of Top Packer
Packer	5.00			3200.00	
Anchor	43.00			3243.00	
Recorder	1.00	6731	Inside	3244.00	
Recorder	1.00	8159	Outside	3245.00	
Bullnose	3.00			3248.00	48.00 Bottom Packers & Anchor
Total Tool Length:	76.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil L.L.C

30-19-9 Rice

1801 Broadway ste # 450 Denver CO 80202

Pioneer-Orth 1-30

Job Ticket: 16984

DST#: 1

ATTN: Adam Kennedy

Test Start: 2012.12.06 @ 09:30:00

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	6700.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gas oil cut mud water 5%g 70%o20%m5%w	1.683
120.00	gas oil cut mud10%g 70%o 20%m	1.683
540.00	clean oil	7.575
0.00	120 gas in pipe	0.000
0.00	chlorides 10,000 resistivity .8@65degree	0.000

Total Length: 780.00 ft Total Volume: 10.941 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: chlorides 10,000 resistivity .8 @65 degrees

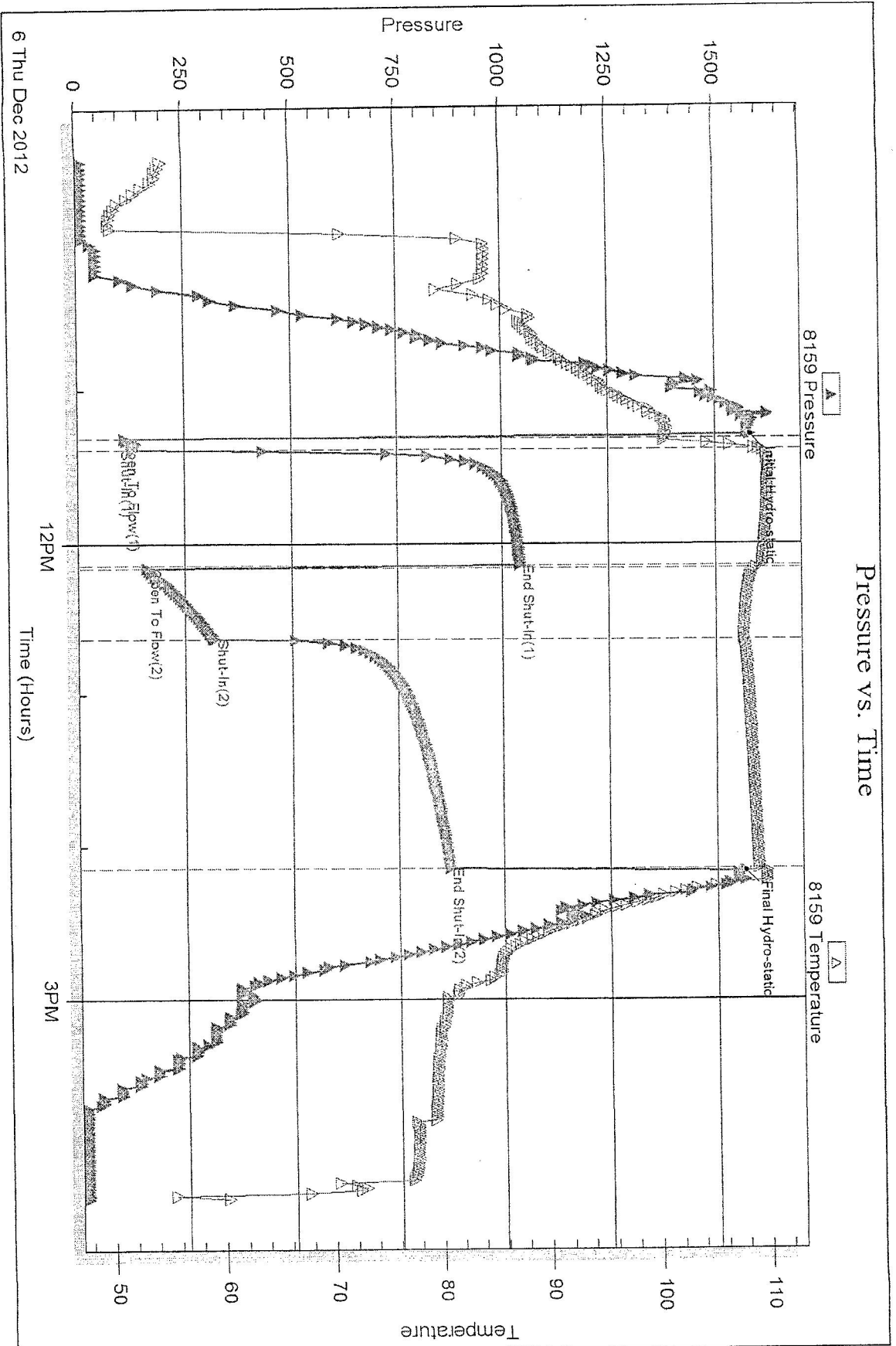
Serial #: 8159

Bird Dog Oil L.L.C

Pioneer-Orth 1-30

DST Test Number: 1

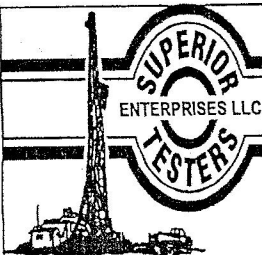
Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16984

Printed: 2012.12.09 @ 19:33:00



DRILL STEM TEST REPORT

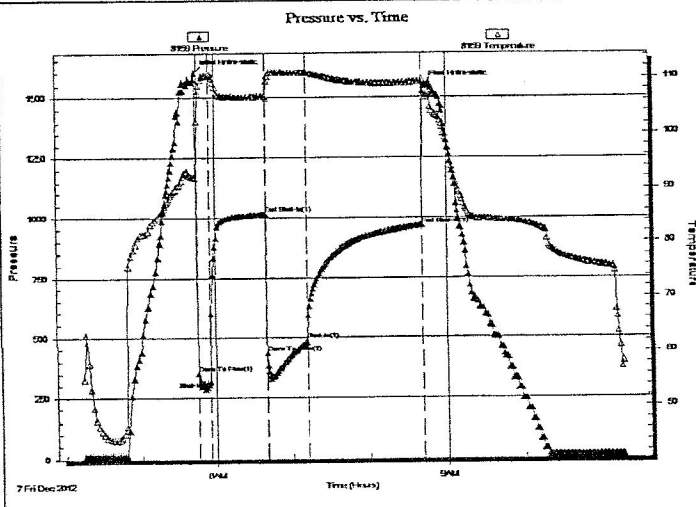
Bird Dog Oil L.L.C 30-19-9 Rice
 1801 Broadway ste # 450 Denver CO 80202 Pioneer-Orth 1-30
 A TTN: Adam Kennedy Job Ticket: 16985 DST#: 2
Test Start: 2012.12.07 @ 04:13:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:45:30 Tester: Jon Strong
 Time Test Ended: 11:17:30 Unit No: 3320-Great Bend- 50
 Interval: 3248.00 ft (KB) To 3258.00 ft (KB) (TVD) Reference Elevations: 1732.00 ft (KB)
 Total Depth: 3258.00 ft (KB) (TVD) 1724.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

Serial #: 8159
 Press@RunDepth: 968.01 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.12.07 End Date: 2012.12.07 Last Calib.: 2012.12.07
 Start Time: 04:14:00 End Time: 11:17:30 Time On Btm: 2012.12.07 @ 05:44:30
 Time Off Btm: 2012.12.07 @ 08:43:30

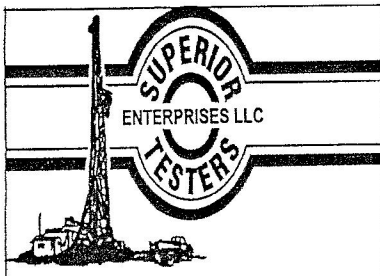
TEST COMMENT: 1st Opening 10 minutes- Strong Blow built bottom of bucket in 1 minute tool chased 6 feet to bottom
 1st Shut-in 45 minutes- No Blow Back
 2nd Opening 30 minutes- Strong Blow built bottom of bucket in 1 minute
 2nd Shut-in 90 minutes- No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1601.78	92.00	Initial Hydro-static
1	350.87	102.33	Open To Flow (1)
11	318.56	110.39	Shut-in(1)
56	1016.30	106.69	End Shut-In(1)
56	436.36	106.34	Open To Flow (2)
88	485.16	110.90	Shut-In(2)
177	968.01	109.32	End Shut-In(2)
179	1547.80	106.98	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	Muddy oil cut w ater-	0.84
0.00	Oil- 20% Mud-10% Water- 70%	0.00
300.00	Muddy oil 5%mud 95%oil	4.21
900.00	Clean gassy oil 5%gas 95%oil	12.62
0.00	60 feet gas in pipe	0.00
0.00	Chlorides 27000 resistivity .25@ 65 degr	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil L.L.C

30-19-9 Rice

1801 Broadway ste # 450 Denver CO 80202

Pioneer-Orth 1-30

Job Ticket: 16985

DST#: 2

ATTN: Adam Kennedy

Test Start: 2012.12.07 @ 04:13:00

Tool Information

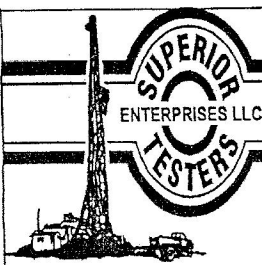
Drill Pipe: Length: 3232.00 ft Diameter: 3.80 inches Volume: 45.34 bbl
 Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
 Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
 Total Volume: 45.34 bbl

Drill Pipe Above KB: 12.00 ft
 Depth to Top Packer: 3248.00 ft
 Depth to Bottom Packer: ft
 Interval between Packers: 10.00 ft
 Tool Length: 38.00 ft
 Number of Packers: 2 Diameter: 6.75 inches

Tool Comments: Tool chased 6 feet to bottom/

Tool Weight: 1000.00 lb
 Weight set on Packer: 20000.00 lb
 Weight to Pull Loose: 70000.00 lb
 Tool Chased 6.00 ft
 String Weight: Initial 50000.00 lb
 Final 54000.00 lb

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3225.00	
Hydrolic Tool	5.00			3230.00	
Jars	6.00			3236.00	
Safety Joint	2.00			3238.00	
Packer	5.00			3243.00	28.00 Bottom Of Top Packer
Packer	5.00			3248.00	
Anchor	5.00			3253.00	
Recorder	1.00	6731	Inside	3254.00	
Recorder	1.00	8159	Outside	3255.00	
Bullnose	3.00			3258.00	10.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil L.L.C

30-19-9 Rice

1801 Broadway ste # 450 Denver CO 80202

Pioneer-Orth 1-30

Job Ticket: 16985

DST#: 2

ATTN: Adam Kennedy

Test Start: 2012.12.07 @ 04:13:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 49.00 sec/qt
 Water Loss: 7.98 in³
 Resistivity: ohm.m
 Salinity: 6700.00 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
60.00	Muddy oil cut water-	0.842
0.00	Oil- 20% Mud-10% Water- 70%	0.000
300.00	Muddy oil 5%mud 95%oil	4.208
900.00	Clean gassy oil 5%gas 95%oil	12.625
0.00	60 feet gas in pipe	0.000
0.00	Chlorides 27000 resistivity .25@ 65 degr	0.000
0.00	Gravity Oil 44	0.000

Total Length: 1260.00 ft Total Volume: 17.675 bbl

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

Laboratory Name: Laboratory Location:

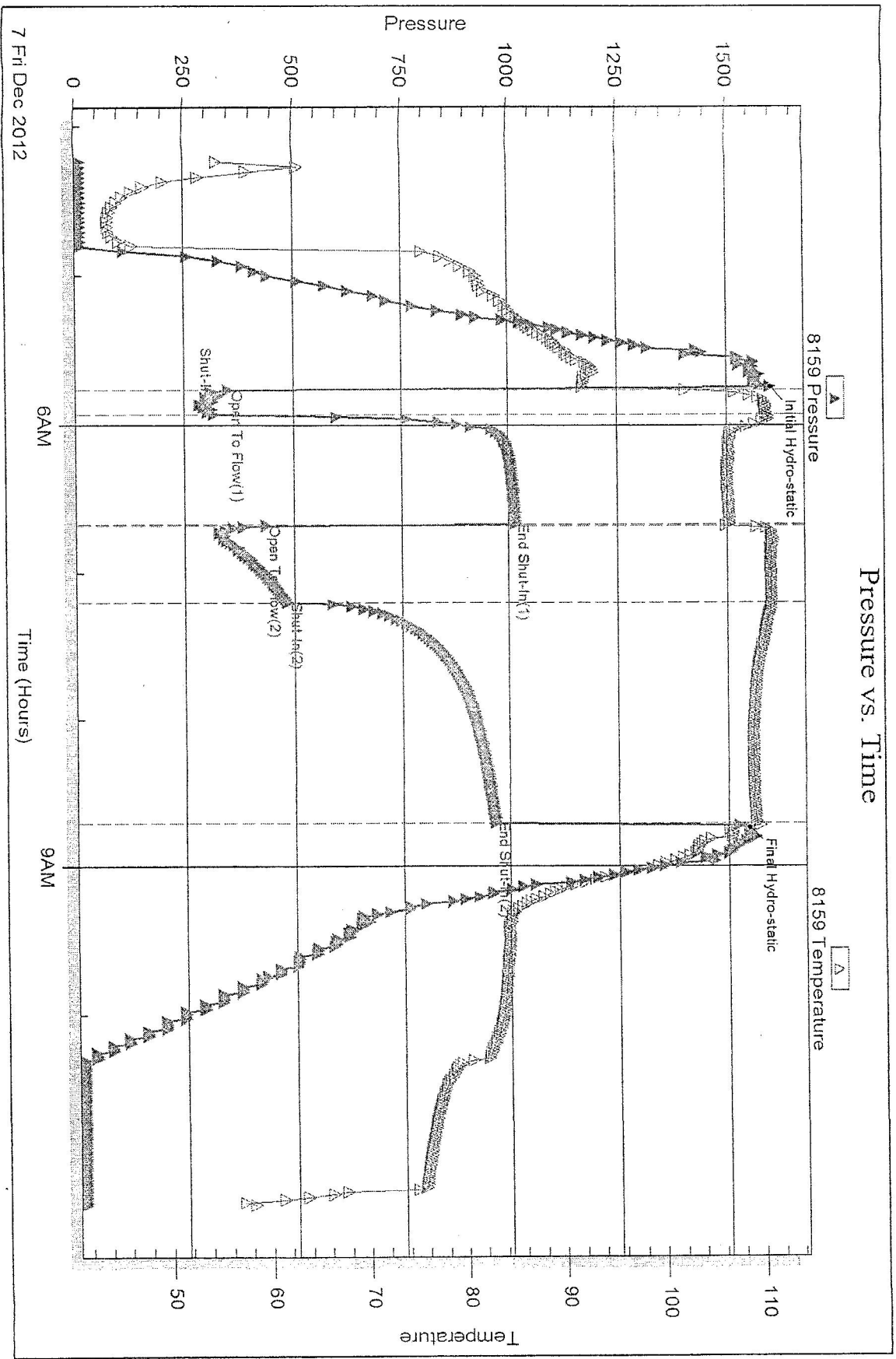
Recovery Comments: Chlorids- 27000, RW-.25 and Gravity- 44

Serial #: 8159

Bird Dog Oil L.L.C

Pioneer-Orth 1-30

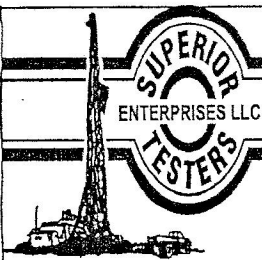
DST Test Number: 2



Superior Testers Enterprises LLC

Ref. No: 16985

Printed: 2012.12.09 @ 19:33:15



DRILL STEM TEST REPORT

Bird Dog Oil LLC
 1801 Broadway ste # 450 Denver CO 80202
 ATTN: Adam Kennedy

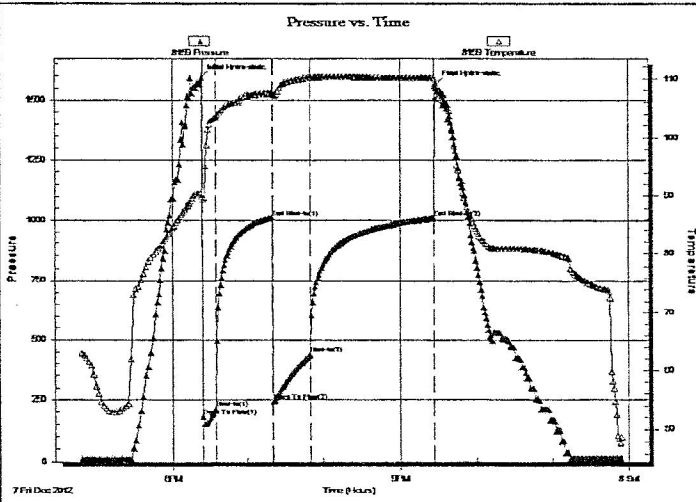
30-19-9 Rice
 Pioneer-Orth 1-30
 Job Ticket: 16986 DST#: 3
 Test Start: 2012.12.07 @ 16:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:24:00
 Time Test Ended: 23:54:00
 Interval: 3258.00 ft (KB) To 3268.00 ft (KB) (TVD)
 Total Depth: 3258.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jon Strong
 Unit No: 3320 Great Bend- 50
 Reference Elevations: 1732.00 ft (KB)
 1724.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8159 Outside
 Press@RunDepth: 1011.07 psia @ 3265.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.12.07 End Date: 2012.12.07 Last Calib.: 2012.12.08
 Start Time: 16:46:00 End Time: 23:54:30 Time On Btm: 2012.12.07 @ 18:23:30
 Time Off Btm: 2012.12.07 @ 21:28:00

TEST COMMENT: 1st Opening 10 Minutes- Strong Blow built bottom of bucket in 2 minutes
 1st Shut-in 45 minutes- 1" Blow Back
 2nd Opening 30 minutes- Strong blow built bottom of bucket in 2 minutes
 2nd Shut-in 90 minutes- 5" blow back



PRESSURE SUMMARY

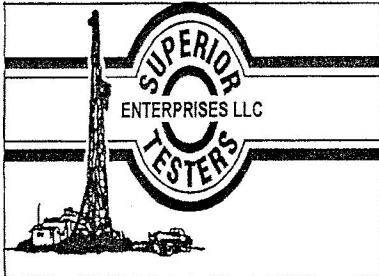
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1593.31	89.96	Initial Hydro-static
1	180.66	89.50	Open To Flow (1)
12	215.98	103.44	Shut-In(1)
56	1014.11	107.49	End Shut-In(1)
57	242.13	107.37	Open To Flow (2)
87	441.01	110.22	Shut-In(2)
183	1011.07	110.10	End Shut-In(2)
185	1562.50	109.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
720.00	10% Gas 40%Oil 10%Mud 40%Water	10.10
0.00	Gassy Mud Oil cut Water	0.00
334.00	Clean Gassy Oil	4.69
0.00	10% Gas 90% Oil	0.00
0.00	120 Gas In Pipe	0.00
0.00	Chlorides 20,000 resistivity .5 @ 60 deg	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil L.L.C

30-19-9 Rice

1801 Broadway ste # 450 Denver CO 80202

Pioneer-Orth 1-30

Job Ticket: 16986

DST#: 3

ATTN: Adam Kennedy

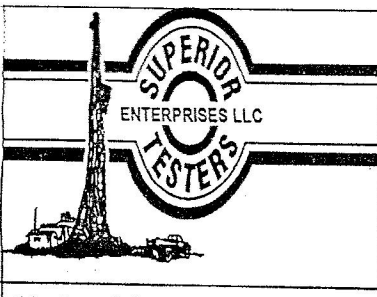
Test Start: 2012.12.07 @ 16:45:00

Tool Information

Drill Pipe:	Length: 3235.00 ft	Diameter: 3.80 inches	Volume: 45.38 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 45.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3258.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3235.00	
Hydrolic Tool	5.00			3240.00	
Jars	6.00			3246.00	
Safety Joint	2.00			3248.00	
Packer	5.00			3253.00	28.00 Bottom Of Top Packer
Packer	5.00			3258.00	
Anchor	5.00			3263.00	
Recorder	1.00	6731	Inside	3264.00	
Recorder	1.00	8159	Outside	3265.00	
Bullnose	3.00			3268.00	10.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil L.L.C
 1801 Broadway ste # 450 Denver CO 80202
 ATTN: Adam Kennedy

30-19-9 Rice
 Pioneer-Orth 1-30
 Job Ticket: 16986
 Test Start: 2012.12.07 @ 16:45:00

DST#: 3

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in*	Gas Cushion Type:		
Resistivity: 0.50 ohm.m	Gas Cushion Pressure: psia		
Salinity: 7500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
720.00	10% Gas 40%Oil 10%Mud 40%Water	10.100
0.00	Gassy Mud Oil cut Water	0.000
334.00	Clean Gassy Oil	4.685
0.00	10% Gas 90% Oil	0.000
0.00	120 Gas in Pipe	0.000
0.00	Chlorides 20,000 resistivity .5 @ 60 deg	0.000
0.00	Gravity oil 44	0.000

Total Length: 1054.00 ft Total Volume: 14.785 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Chlorides 20,000 resistivity .5 @60 degrees /Gravity oil 44

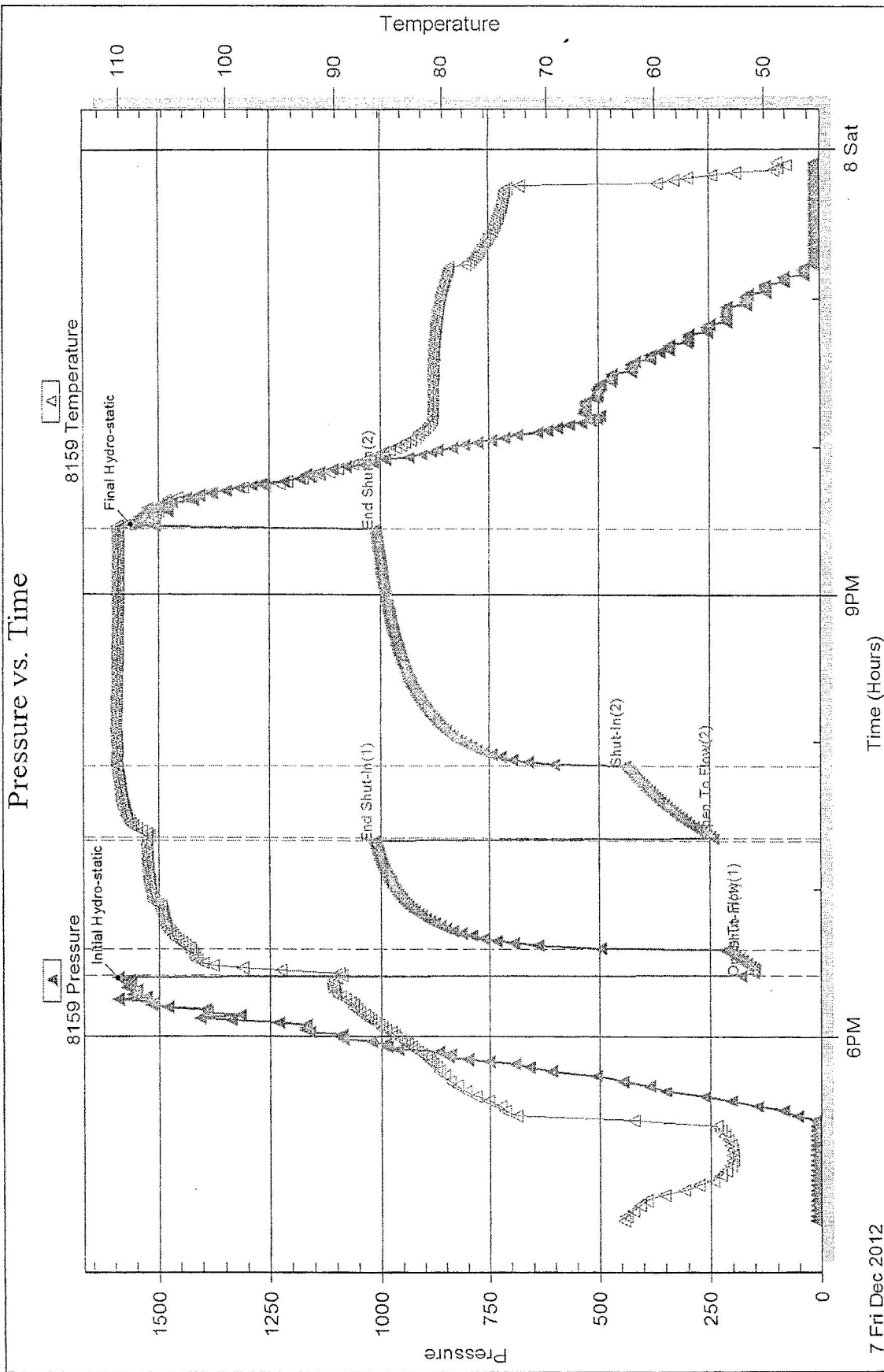
DST Test Number: 3

Pioneer-Orth 1-30

Outside Bird Dog Oil L.L.C

Serial #: 8159

Pressure vs. Time



Printed: 2012.12.09 @ 19:33:31

Ref. No: 16986

Superior Testers Enterprises LLC