



DRILL STEM TEST REPORT

Prepared For: **Southwind Petroleum Corp**

1400 W 14th St Wichita KS 67203+2901

ATTN: Bob Williams

Eileen Hagerman #4-4

4-20s-16w Pawnee

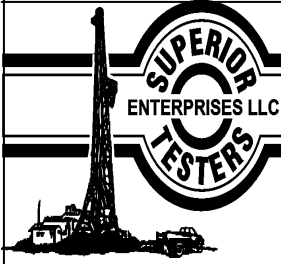
Start Date: 2014.01.14 @ 04:45:00

End Date: 2014.01.14 @ 12:03:00

Job Ticket #: 17049 DST #: 2

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

Printed: 2014.01.14 @ 12:37:43



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4-20s-16w Pawnee
Eileen Hagerman #4-4
 Job Ticket: 17049 **DST#: 2**
 Test Start: 2014.01.14 @ 04:45:00

GENERAL INFORMATION:

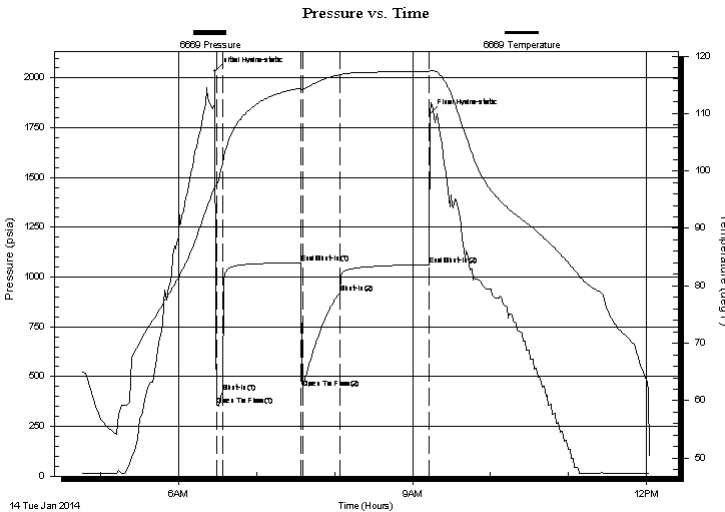
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Initial)
 Time Tool Opened: 06:29:30 Tester: Jared Scheck
 Time Test Ended: 12:03:00 Unit No: 3335-30-Great Bend
 Interval: **3780.00 ft (KB) To 3877.00 ft (KB) (TVD)** Reference Elevations: 2024.00 ft (KB)
 Total Depth: 3877.00 ft (KB) (TVD) 2016.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6669

Press@RunDepth: 920.08 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2014.01.14 End Date: 2014.01.14 Last Calib.: 2014.01.14
 Start Time: 04:45:00 End Time: 12:03:00 Time On Btm: 2014.01.14 @ 06:28:00
 Time Off Btm: 2014.01.14 @ 09:13:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in less then 1 minute
 1st Shut-in 60 Minutes-Yes
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in less then 1 minute
 2nd Shut-in 60 Minutes-Yes

PRESSURE SUMMARY



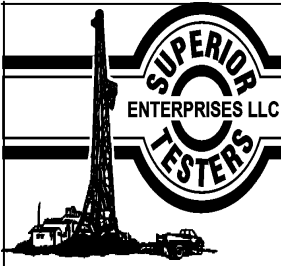
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2033.97	97.36	Initial Hydro-static
2	354.00	97.66	Open To Flow (1)
6	422.29	101.26	Shut-In(1)
66	1071.54	114.42	End Shut-In(1)
68	443.33	114.32	Open To Flow (2)
96	920.08	116.76	Shut-In(2)
165	1062.26	117.26	End Shut-In(2)
166	1821.10	117.47	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
1260.00	gas oil cut mud w ater	17.67
0.00	gas %5 oil%5 mud5% 85%w ater	0.00
960.00	w ater 5%mud 95%w ater	13.47
0.00	240 Gas in pipe	0.00
0.00	Chlorides 35,000 resisitivity .15@60degr	0.00

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



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Eileen Hagerman #4-4
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 Test Start: 2014.01.14 @ 04:45:00

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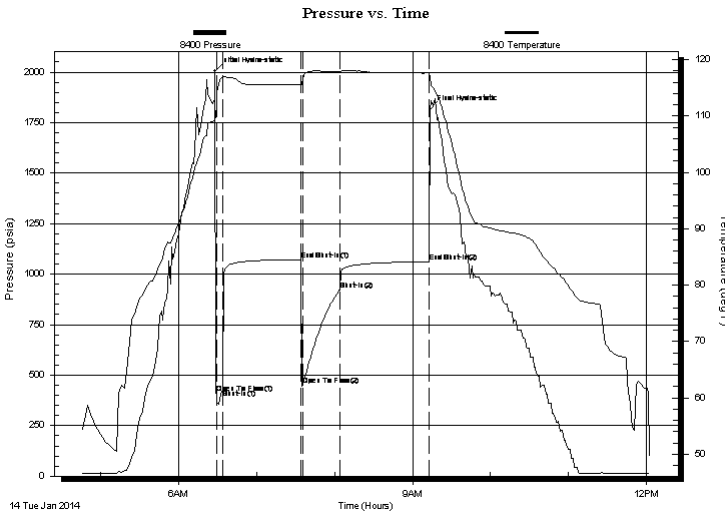
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 Total Depth: 3877.00 ft (KB) (TVD) 2016.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 1061.90 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2014.01.14 End Date: 2014.01.14 Last Calib.: 2014.01.14
 Start Time: 04:45:00 End Time: 12:03:00 Time On Btm: 2014.01.14 @ 06:28:00
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PRESSURE SUMMARY



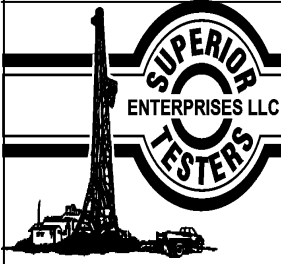
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2004.12	109.45	Initial Hydro-static
1	408.32	112.43	Open To Flow (1)
6	427.94	116.79	Shut-In(1)
66	1071.12	115.65	End Shut-In(1)
68	448.75	116.70	Open To Flow (2)
96	921.35	117.94	Shut-In(2)
165	1061.90	117.65	End Shut-In(2)
166	1816.07	117.06	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
1260.00	gas oil cut mud w ater	17.67
0.00	gas %5 oil%5 mud5% 85%w ater	0.00
960.00	w ater 5%mud 95%w ater	13.47
0.00	240 Gas in pipe	0.00
0.00	Chlorides 35,000 resistivity .15@60degr	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Southwind Petroleum Corp
 1400 W 14th St Wichita KS 67203+2901
 A T T N : Bob Williams

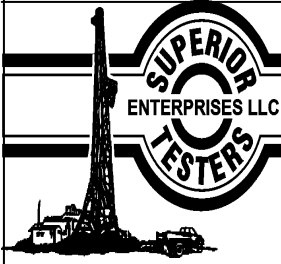
4-20s-16w Pawnee
Eileen Hagerman #4-4
 Job Ticket: 17049 **DST#: 2**
 Test Start: 2014.01.14 @ 04:45:00

Tool Information

Drill Pipe:	Length: 3762.00 ft	Diameter: 3.80 inches	Volume: 52.77 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:	70000.00 lb
			<u>Total Volume: 52.77 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3780.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	3798.00 ft				
Interval between Packers:	18.00 ft				
Tool Length:	131.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3757.00	
HYD S.I. Tool	5.00			3762.00	
Jars	6.00			3768.00	
Safety Joint	2.00			3770.00	
Packer	5.00			3775.00	28.00 Bottom Of Top Packer
Packer	5.00			3780.00	
Anchor	18.00			3798.00	
Recorder	0.00			3798.00	
Recorder	0.00			3798.00	
Blank Off Sub	0.00			3798.00	18.00 Tool Interval
Packer	5.00			3803.00	
Recorder	0.00			3803.00	
Tail pipe	80.00			3883.00	85.00 Bottom Packers & Anchor

Total Tool Length: 131.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume:		
Water Loss: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		psia
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

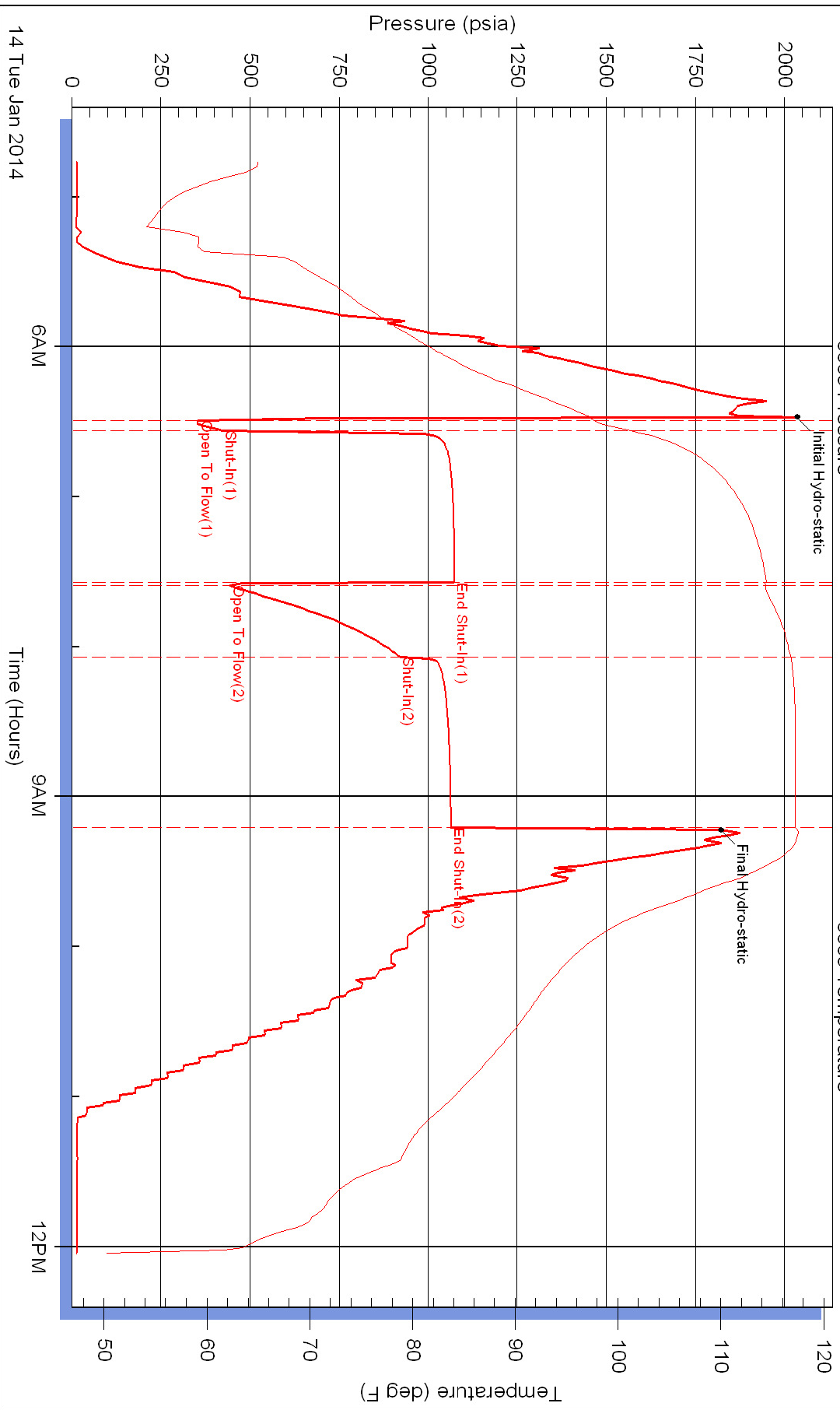
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1260.00	gas oil cut mud w ater	17.674
0.00	gas %5 oil%5 mud5% 85%w ater	0.000
960.00	w ater 5% mud 95%w ater	13.466
0.00	240 Gas in pipe	0.000
0.00	Chlorides 35,000 resisitivity .15@60degr	0.000

Total Length: 2220.00 ft Total Volume: 31.140 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time

