



DRILL STEM TEST REPORT

Prepared For: **Southwind Petroleum Cop**

1400 W 14th st Wichita Ks 67203-2901

ATTN: Bob Williams

Eileen Hagerman 4-1

04-20-16s Pawnee

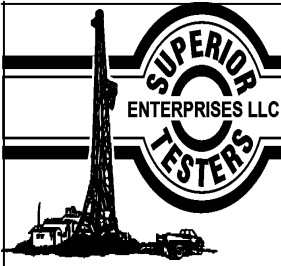
Start Date: 2013.01.11 @ 09:08:00

End Date: 2013.01.11 @ 15:43:30

Job Ticket #: 16998 DST #: 1

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

Printed: 2013.01.11 @ 16:03:18



DRILL STEM TEST REPORT

Southwind Petroleum Corp
 1400 W 14th st Wichita Ks 67203-2901
 ATTN: Bob Williams

04-20-16s Pawnee
Eileen Hagerman 4-1
 Job Ticket: 16998 **DST#: 1**
 Test Start: 2013.01.11 @ 09:08:00

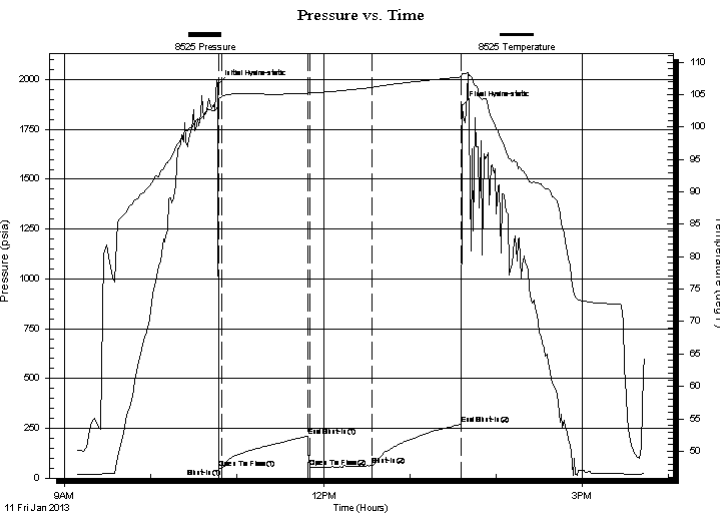
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 10:47:30 Tester: Jared Scheck
 Time Test Ended: 15:43:30 Unit No: 3320-Great Bend -30
 Interval: **3733.00 ft (KB) To 3746.00 ft (KB) (TVD)** Reference Elevations: 2025.00 ft (KB)
 Total Depth: 3746.00 ft (KB) (TVD) 2023.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 2.00 ft

Serial #: 8525

Press@RunDepth: 64.67 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.11 End Date: 2013.01.11 Last Calib.: 2013.01.11
 Start Time: 09:08:00 End Time: 15:43:30 Time On Btm: 2013.01.11 @ 10:46:30
 Time Off Btm: 2013.01.11 @ 13:36:30

TEST COMMENT: 1st Opening 2 Minutes-Strong blow built bottom of bucket w ater in 45 sec
 1st Shut-in 60 Minutes-1/2 inch blow back
 2nd Opening 45 Minutes-Weak blow built bottom of bucket in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

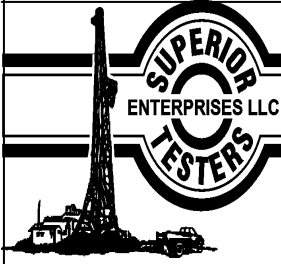
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1977.29	103.29	Initial Hydro-static
1	49.05	104.43	Open To Flow (1)
3	49.14	104.69	Shut-In(1)
63	212.20	105.22	End Shut-In(1)
64	51.89	105.25	Open To Flow (2)
107	64.67	106.10	Shut-In(2)
169	269.89	107.71	End Shut-In(2)
170	1870.95	108.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.00
0.00	450 feet gas in pipe	0.00

Gas Rates

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



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 1400 W 14th st Wichita Ks 67203-2901
 ATTN: Bob Williams

04-20-16s Pawnee
Eileen Hagerman 4-1
 Job Ticket: 16998 **DST#: 1**
 Test Start: 2013.01.11 @ 09:08:00

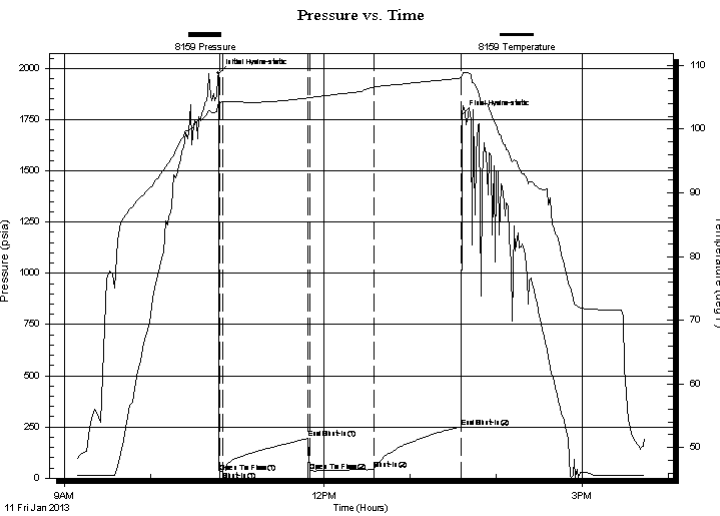
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 10:47:30 Tester: Jared Scheck
 Time Test Ended: 15:43:30 Unit No: 3320-Great Bend -30
 Interval: **3733.00 ft (KB) To 3746.00 ft (KB) (TVD)** Reference Elevations: 2025.00 ft (KB)
 Total Depth: 3746.00 ft (KB) (TVD) 2023.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 2.00 ft

Serial #: 8159

Press@RunDepth: 250.19 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.11 End Date: 2013.01.11 Last Calib.: 2013.01.11
 Start Time: 09:08:00 End Time: 15:44:00 Time On Btm: 2013.01.11 @ 10:47:00
 Time Off Btm: 2013.01.11 @ 13:36:30

TEST COMMENT: 1st Opening 2 Minutes-Strong blow built bottom of bucket w ater in 45 sec
 1st Shut-in 60 Minutes-1/2 inch blow back
 2nd Opening 45 Minutes-Weak blow built bottom of bucket in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

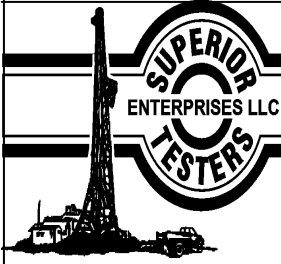
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1975.97	104.03	Initial Hydro-static
1	30.36	104.12	Open To Flow (1)
3	33.04	104.31	Shut-In(1)
63	194.87	104.91	End Shut-In(1)
64	35.09	104.94	Open To Flow (2)
108	44.37	106.60	Shut-In(2)
169	250.19	108.03	End Shut-In(2)
170	1774.26	108.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.00
0.00	450 feet gas in pipe	0.00

Gas Rates

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
 ATTN: Bob Williams

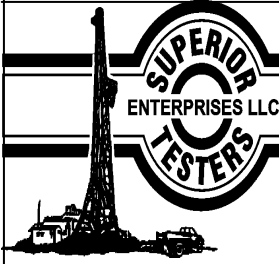
04-20-16s Pawnee
Eileen Hagerman 4-1
 Job Ticket: 16998 **DST#: 1**
 Test Start: 2013.01.11 @ 09:08:00

Tool Information

Drill Pipe:	Length: 3711.00 ft	Diameter: 0.00 inches	Volume: 0.00 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: 80000.00 lb
			<u>Total Volume: 0.00 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3733.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3712.00	
Hydraulic Tool	5.00			3717.00	
Jars	6.00			3723.00	
Packer	5.00			3728.00	26.00 Bottom Of Top Packer
Packer	5.00			3733.00	
Anchor	8.00			3741.00	
Recorder	1.00	8525	Inside	3742.00	
Recorder	1.00	8159	Outside	3743.00	
Bullnose	3.00			3746.00	13.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



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FLUID SUMMARY

Southw ind Petroluem Cop
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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:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	9.60 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	mud	0.000
0.00	450 feet gas in pipe	0.000

Total Length: 30.00 ft Total Volume: bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Ruined packer

Pressure vs. Time

