



DRILL STEM TEST REPORT

Prepared For: **Southwind Petroleum Corp.**

1400 West 14th Street
Wichita, KS 67203-2901

ATTN: Robert Williams

Dirks #27-2

27-19s-16w Rush, KS

Start Date: 2015.01.15 @ 20:20:00

End Date: 2015.01.16 @ 02:02:00

Job Ticket #: 62069 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.16 @ 16:22:13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Southwind Petroleum Corp.

27-19s-16w Rush, KS

1400 West 14th Street
Wichita, KS 67203-2901

Dirks #27-2

Job Ticket: 62069

DST#: 1

ATTN: Robert Williams

Test Start: 2015.01.15 @ 20:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:43:30

Time Test Ended: 02:02:00

Test Type: Conventional Straddle (Initial)

Tester: Gene Budig

Unit No: 60

Interval: 3756.00 ft (KB) To 3764.00 ft (KB) (TVD)

Reference Elevations: 2038.00 ft (KB)

Total Depth: 3898.00 ft (KB) (TVD)

2033.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 6651 Outside

Press@RunDepth: 161.46 psig @ 3763.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.15

End Date: 2015.01.16

Last Calib.: 2015.01.16

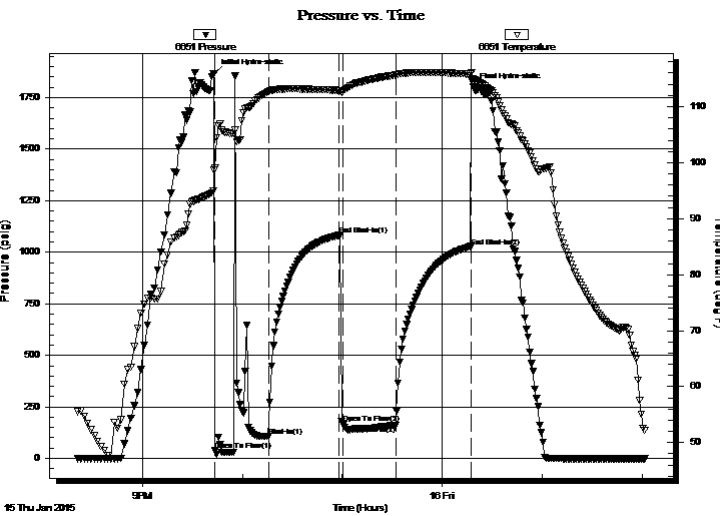
Start Time: 20:21:00

End Time: 02:02:00

Time On Btm: 2015.01.15 @ 21:43:00

Time Off Btm: 2015.01.16 @ 00:18:30

TEST COMMENT: 1st Opening 30 Minutes Surging blow died Flushed tool surging blow built to BOB in 5 minutes
1st Shut-In 45 Minutes- No blow back
2nd Opening 30 Minutes-Fair blow BOB in 5 minutes
2nd Shut-In 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.90	98.64	Initial Hydro-static
1	39.34	98.99	Open To Flow (1)
33	107.20	112.65	Shut-In(1)
75	1082.29	112.90	End Shut-In(1)
77	170.56	112.67	Open To Flow (2)
109	161.46	115.64	Shut-In(2)
154	1028.20	115.80	End Shut-In(2)
156	1801.03	114.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	1.68
60.00	V SOMCW 2% Oil 2% Mud 96% Water	0.84
60.00	GOCMW 8% Gas 12% Oil 65% Water	1590.841
60.00	OCWM 15% Gas 22% Oil 25% Water 40%	0.84
0.00	1850' Gas in the pipe	0.00

Gas Rates

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



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Southwind Petroleum Corp.

27-19s-16w Rush, KS

1400 West 14th Street
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Dirks #27-2

Job Ticket: 62069

DST#: 1

ATTN: Robert Williams

Test Start: 2015.01.15 @ 20:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:43:30

Time Test Ended: 02:02:00

Test Type: Conventional Straddle (Initial)

Tester: Gene Budig

Unit No: 60

Interval: 3756.00 ft (KB) To 3764.00 ft (KB) (TVD)

Reference Elevations: 2038.00 ft (KB)

Total Depth: 3898.00 ft (KB) (TVD)

2033.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8288

Inside

Press@RunDepth: 1027.65 psig @ 3763.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.15

End Date:

2015.01.16

Last Calib.:

2015.01.15

Start Time: 20:21:00

End Time:

02:02:00

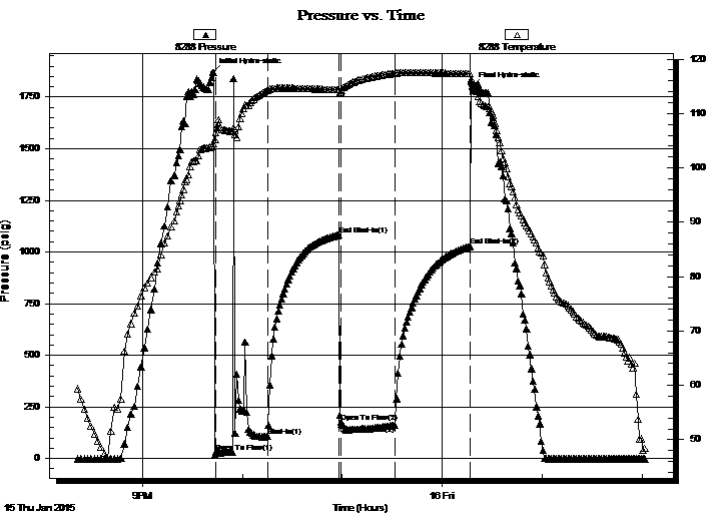
Time On Btm:

2015.01.15 @ 21:42:00

Time Off Btm:

2015.01.16 @ 00:18:00

TEST COMMENT: 1st Opening 30 Minutes Surging blow died Flushed tool surging blow built to BOB in 5 minutes
1st Shut-In 45 Minutes- No blow back
2nd Opening 30 Minutes-Fair blow BOB in 5 minutes
2nd Shut-In 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1869.72	104.06	Initial Hydro-static
2	30.62	106.49	Open To Flow (1)
33	106.64	114.27	Shut-In(1)
76	1082.24	114.37	End Shut-In(1)
77	177.97	113.96	Open To Flow (2)
110	160.11	117.40	Shut-In(2)
155	1027.65	117.28	End Shut-In(2)
156	1802.06	115.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	1.68
60.00	V SOMCW 2% Oil 2% Mud 96% Water	0.84
60.00	GOCMW 8% Gas 12% Oil 65% Water	1590.841
60.00	OCWM 15% Gas 22% Oil 25% Water 40%	0.84
0.00	1850' Gas in the pipe	0.00

Gas Rates

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



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TESTING, INC**

DRILL STEM TEST REPORT

Southwind Petroleum Corp.
1400 West 14th Street
Wichita, KS 67203-2901
ATTN: Robert Williams

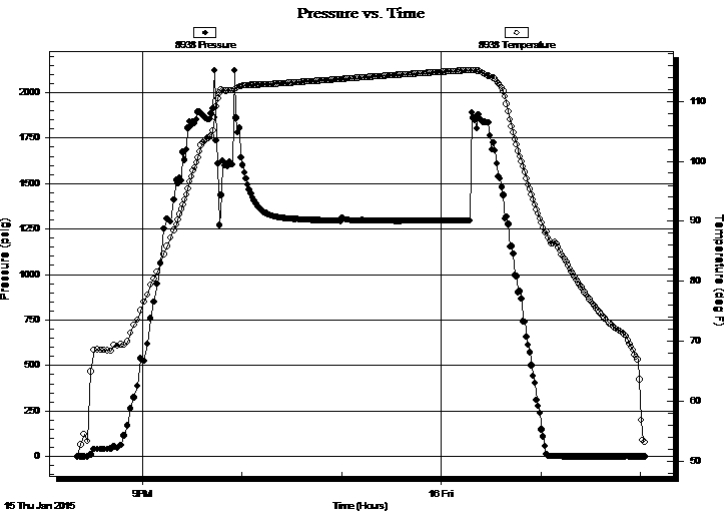
27-19s-16w Rush, KS
Dirks #27-2
Job Ticket: 62069 **DST#: 1**
Test Start: 2015.01.15 @ 20:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:43:30
Time Test Ended: 02:02:00
Interval: 3756.00 ft (KB) To 3764.00 ft (KB) (TVD)
Total Depth: 3898.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Straddle (Initial)
Tester: Gene Budig
Unit No: 60
Reference Elevations: 2038.00 ft (KB)
2033.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8938 Below (Straddle)
Press@RunDepth: psig @ 3898.29 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.01.15 End Date: 2015.01.16 Last Calib.: 2015.01.16
Start Time: 20:21:00 End Time: 02:03:00 Time On Btm:
Time Off Btm:

TEST COMMENT: 1st Opening 30 Minutes Surging blow died Flushed tool surging blow built to BOB in 5 minutes
1st Shut-In 45 Minutes- No blow back
2nd Opening 30 Minutes-Fair blow BOB in 5 minutes
2nd Shut-In 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	1.68
60.00	V SOMCW 2% Oil 2% Mud 96% Water	0.84
60.00	GOCMW 8% Gas 12% Oil 65% Water	0.84
60.00	OCWM 15% Gas 22% Oil 25% Water	0.84
0.00	1850' Gas in the pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Southwind Petroleum Corp.

27-19s-16w Rush, KS

1400 West 14th Street
Wichita, KS 67203-2901

Dirks #27-2

Job Ticket: 62069

DST#: 1

ATTN: Robert Williams

Test Start: 2015.01.15 @ 20:20:00

Tool Information

Drill Pipe:	Length: 3737.00 ft	Diameter: 3.80 inches	Volume: 52.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 52.42 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3756.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	3764.00 ft			
Interval between Packers:	8.00 ft			
Tool Length:	175.29 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3733.00	
Hydraulic tool	5.00			3738.00	
Jars	6.00			3744.00	
Safety Joint	2.00			3746.00	
Top Packer	5.00			3751.00	
Packer	5.00			3756.00	28.00 Bottom Of Top Packer
Anchor	7.00			3763.00	
Recorder	0.00	8288	Inside	3763.00	
Recorder	0.00	6651	Outside	3763.00	
Blank Off Sub	1.00			3764.00	8.00 Tool Interval
Packer	5.00			3769.00	
Change Over Sub	0.75			3769.75	
Drill Pipe	126.79			3896.54	
Change Over Sub	0.75			3897.29	
Anchor	1.00			3898.29	
Recorder	0.00	8938	Below	3898.29	
Bullnose	5.00			3903.29	139.29 Bottom Packers & Anchor
Total Tool Length:	175.29				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Southw ind Petroleum Corp.

27-19s-16w Rush,KS

1400 West 14th Street
Wichita,KS 67203-2901

Dirks #27-2

Job Ticket: 62069

DST#: 1

ATTN: Robert Williams

Test Start: 2015.01.15 @ 20:20:00

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:

17000 ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Water	1.683
60.00	VSOMCW 2% Oil 2%Mud 96%Water	0.842
60.00	GOCMW 8%Gas 12% Oil 65%Water 15%Mu	0.842
60.00	OCWM 15%Gas 22%Oil 25%Water 40%mud	0.842
0.00	1850' Gas in the pipe	0.000

Total Length: 300.00 ft Total Volume: 4.209 bbl

Num Fluid Samples: 0

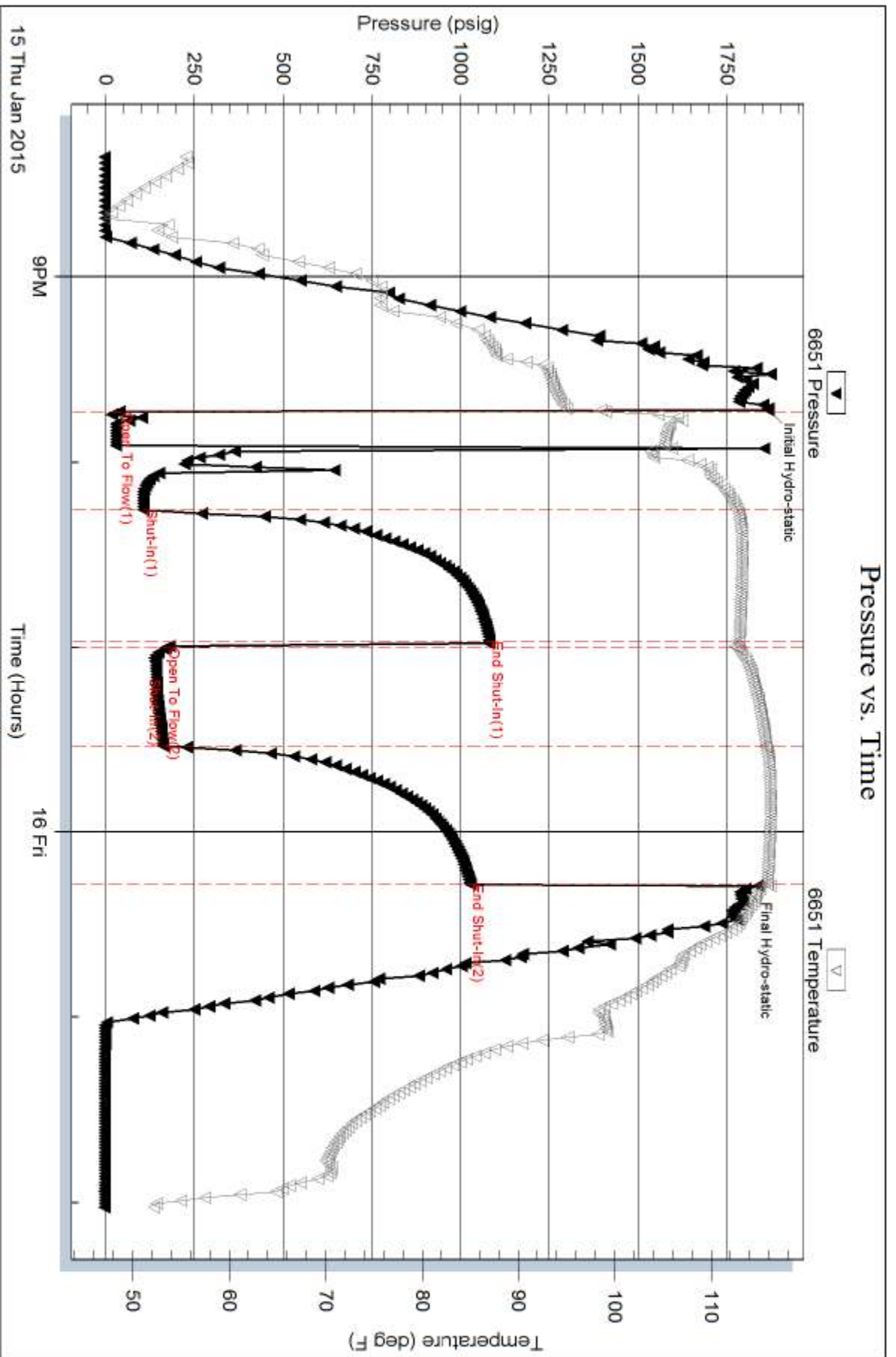
Num Gas Bombs: 0

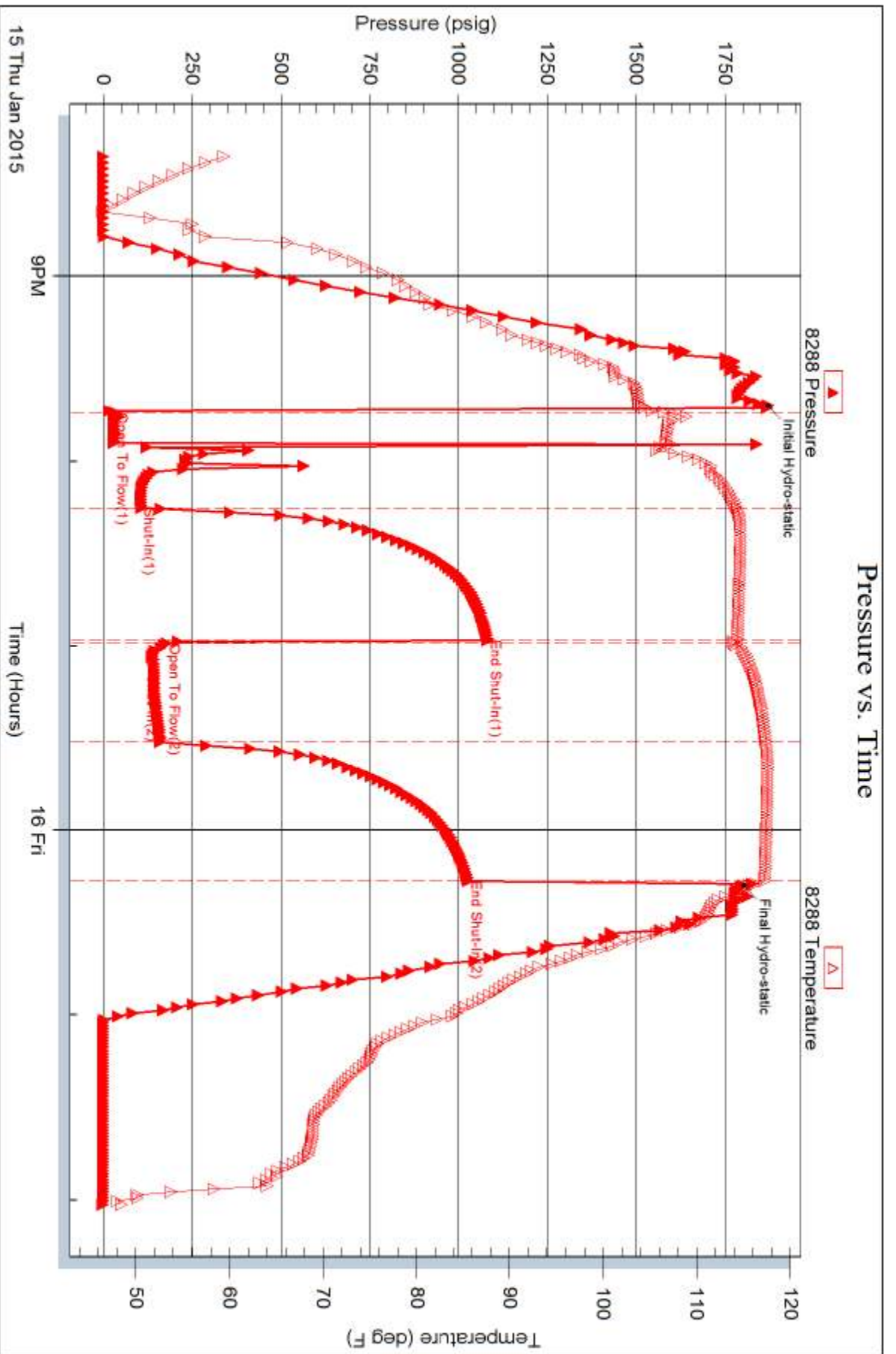
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Chlordes 17000



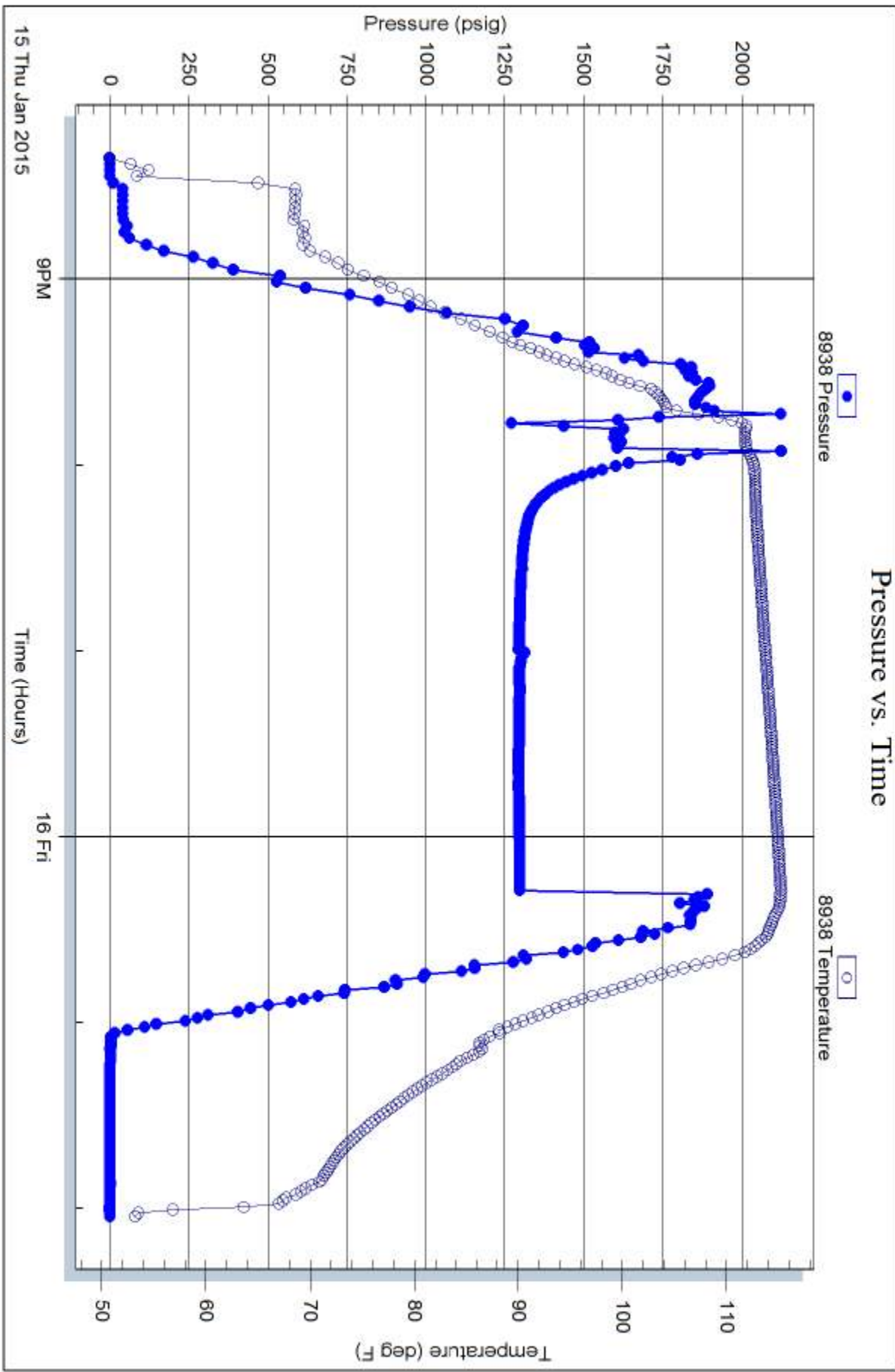


Serial #: 8938

Below (Stratally) ind Petroleum Corp.

Diags #27-2

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62069

Well Name & No. DIRKS #27-2 Test No. 1 Date 1-15-15
 Company Southwind Petroleum Corp. Elevation 3038 KB 2033 GL
 Address 1400 West 14th Street Wichita Kansas 67203-2901
 Co. Rep / Geo. Robert Williams Rig MURFIN Drilling #16
 Location: Sec. 27 Twp. 19 S Rge. 16 W Co. Rush State KANSAS

Interval Tested 3756-3764 Zone Tested ARBUCKLE
 Anchor Length 8 Drill Pipe Run 3730 Mud Wt. 9.1
 Top Packer Depth 3751-3756 Drill Collars Run NONE Vis 49
 Bottom Packer Depth 3764 Wt. Pipe Run NONE WL 8.8
 Total Depth 3898 Chlorides 6000 ppm System LCM 3

Blow Description 1st OPEN - Surging blow died flushed tool - Surging build blow Bob in 5 min
2nd OPEN - FAIR blow Bob in 5 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>WATER CHLORIDES 17,000</u>	<u>TRACE</u>	<u>100</u>		
<u>60</u>	<u>SLIGHTLY oil cut WATER</u>	<u>0</u>	<u>96</u>	<u>2</u>	
<u>60</u>	<u>oil cut muddy water</u>	<u>8</u>	<u>65</u>	<u>15</u>	
<u>60</u>	<u>oil cut muddy water</u>	<u>15</u>	<u>25</u>	<u>40</u>	
<u>2900</u>	<u>Gas in the P.P.E</u>				

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1869 Test 1050 T-On Location 8:00 P.M.
 (B) First Initial Flow 14 Jars 250 T-Started 8:20 P.M.
 (C) First Final Flow 30 Safety Joint 75 T-Open 9:44 P.M.
 (D) Initial Shut-In 1082 Circ Sub _____ T-Pulled 12:14 AM
 (E) Second Initial Flow 177 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 160 Mileage 32 32 Comments _____
 (G) Final Shut-In 1027 Sampler _____
 (H) Final Hydrostatic 1802 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total _____
 Day Standby _____ Total _____
 Accessibility _____ MP/DST Disc't _____
 Sub Total _____

Approved By _____ Our Representative Mene Bady

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