

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 6677  
Name: SANDLIN OIL CORPORATION  
Address 1: 621 17TH STREET, SUITE 2055  
Address 2: \_\_\_\_\_  
City: DENVER State: CO Zip: 80293 + \_\_\_\_\_  
Contact Person: GARY SANDLIN  
Phone: ( 303 ) 292-3313  
CONTRACTOR: License # 33905  
Name: ROYAL DRILLING, INC.  
Wellsite Geologist: HERB DEINES  
Purchaser: NCRA

Designate Type of Completion:  
 New Well       Re-Entry       Workover  
 Oil       WSW       SWD       SLOW  
 Gas       D&A       ENHR       SIGW  
 OG       GSW       Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>3/29/2011</u>	<u>4/4/2011</u>	<u>4/14/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 051-26116-00-00

Spot Description: \_\_\_\_\_  
SE SW NE SE Sec. 15 Twp. 12 S. R. 18  East  West  
1,500 Feet from  North /  South Line of Section  
800 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW

County: ELLIS  
Lease Name: KARLIN Well #: 3  
Field Name: BEMIS-SHUTTS

Producing Formation: ARBUCKLE  
Elevation: Ground: 2153' Kelly Bushing: 2158'  
Total Depth: 3760' Plug Back Total Depth: 3724'  
Amount of Surface Pipe Set and Cemented at: 226 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 68,000 ppm Fluid volume: 400 bbls  
Dewatering method used: ALLOW TO DRY AND BACKFILL  
Location of fluid disposal if hauled offsite:  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]  
Title: SANDLIN OIL CORPORATION, GARY SANDLIN, PRESIDENT Date: 5/24/2011

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_ **RECEIVED**  
 Confidential Release Date: \_\_\_\_\_ **MAY 26 2011**  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Dlg Date: 6/1/11  
**KCC WICHITA**

Operator Name: SANDLW OIL CORPORATION Lease Name: KARLIN Well #: 3  
 Sec. 15 Twp. 12 S. R. 18  East  West County: ELLIS

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>DIL, CD/CNL, MEL, CEMENT BOND</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>HEEBNER</td> <td>3359</td> <td>(-1199)</td> </tr> <tr> <td>LANSING</td> <td>3404</td> <td>(-1244)</td> </tr> <tr> <td>BASE KC</td> <td>3657</td> <td>(-1503)</td> </tr> <tr> <td>ARBUCKLE</td> <td>3674</td> <td>(-1514)</td> </tr> </tbody> </table>	Name	Top	Datum	HEEBNER	3359	(-1199)	LANSING	3404	(-1244)	BASE KC	3657	(-1503)	ARBUCKLE	3674	(-1514)
Name	Top	Datum														
HEEBNER	3359	(-1199)														
LANSING	3404	(-1244)														
BASE KC	3657	(-1503)														
ARBUCKLE	3674	(-1514)														

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4	8-5/8	23	226	COMMON	150	3%CC, 2% GEL
PRODUCTION	7-7/8	5-1/2	14	3759	COMMON	180	10% SALT, 2%GEL
PORT COLLAR				2215	COMMON	375	6% GEL, 1/4 FLO

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3675-3685		

TUBING RECORD:	Size: <u>2-7/8</u>	Set At: <u>3720</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>RECEIVED</b> <b>MAY 26 2011</b> <b>KCC WICHITA</b>
Date of First, Resumed Production, SWD or ENHR. <u>4-14-2011</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>85</u>	Gas Mcf	Water Bbls. <u>0</u>	Gas-Oil Ratio	Gravity <u>26.5</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3675-3685</u>
---	--	--



# ALLIED CEMENTING CO., LLC. 036462

P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell Ks.  
4-5-2011

DATE <u>4-4-2011</u>	SEC. <u>15</u>	TWP. <u>12 S</u>	RANGE <u>18 W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00AM</u>	JOB FINISH <u>2:30AM</u>
LEASE <u>KARLIN</u>	WELL # <u>3</u>	LOCATION <u>Hays Ks. 7N 1E 1/4N 1/4W</u>			COUNTY <u>ELLIS</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>Royal DALG. Rig #1</u>	OWNER
TYPE OF JOB <u>PRODUCTION STRING</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>3760</u> <u>3759</u> <u>1' OFF BOTTOM</u>
CASING SIZE <u>5 1/2 New</u>	DEPTH @ <u>3724 + 42</u>
TUBING SIZE <u>14 # CSG</u>	DEPTH @ <u>2130 + 42</u>
PIPE PORT-COLLAR DEPTH @ <u>2130 + 42</u>	AMOUNT ORDERED <u>180sx Comm.</u>
TOOL AFU INSERT DEPTH @ <u>3682 + 42</u>	<u>10% Salt 2% Gel</u>
PRES. MAX <u>1,000#</u>	MINIMUM <u>3724</u>
MEAS. LINE	SHOE JOINT <u>42</u>
CEMENT LEFT IN CSG. <u>42</u>	POZMIX
PERFS.	GEL
DISPLACEMENT <u>89.85/BBL</u>	CHLORIDE
EQUIPMENT	ASC
	Self 15 @ <u>23.95</u> <u>359.25</u>
PUMP TRUCK CEMENTER <u>Glenn</u>	
# <u>398</u> HELPER <u>WOODY</u>	
BULK TRUCK	WFR-2 500 gal @ <u>1.27</u> <u>635.00</u>
# <u>378</u> DRIVER <u>MARK</u>	
BULK TRUCK	
#	
DRIVER	HANDLING <u>198</u> @ <u>2.25</u> <u>445.50</u>
	MILEAGE <u>11/56/1/2</u> <u>653.40</u>
	TOTAL <u>5081.90</u>

REMARKS: (2130) Part collar on JT #38

Ran 87 JT's New 14 #5/8 csg.  
Set @ 3724, Circulate on bottom  
30 minutes mix WFR-2 mud flush +  
cement w/ 130 sx comm, 10% salt 2% gel  
line - Release rubber plug + displace  
90 BBL H<sub>2</sub>O, Land Aug @ 1000#  
15 sx @ mousehole (Release pressure + float)  
30 sx @ Rathole  
THANKS

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>2225.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>60</u> @ <u>7.00</u>	<u>420.00</u>
MANIFOLD	@	
	@	
	<u>LVA 60</u> @ <u>4.00</u>	<u>240.00</u>
RECEIVED		

MAY 26 2011

TOTAL 2585.00

KCC WICHITA PLOG & FLOAT EQUIPMENT

1-Guide shoe		<u>168.00</u>
1-AFU INSERT	@	<u>200.00</u>
4-CENTRALIZERS	@ <u>49.00</u>	<u>196.00</u>
1-BASKET	@	<u>337.00</u>
1-PORT-COLLAR	@	<u>2600.00</u>
1-T.R.P.	@	<u>73.00</u>

TOTAL 3574.00

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES \_\_\_\_\_  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

CHARGE TO: SANDLIN OIL CORPORATION  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Fred Barber  
SIGNATURE Fred Barber





## DRILL STEM TEST REPORT

Prepared For: **Sandlin Oil Company**

621 17th Street Suite 2055 Denver ,Colorado  
80293-2001

ATTN: Herb Deines

**15-12s-18w**

**Karlin #3**

Start Date: 2011.04.03 @ 01:00:00

End Date: 2011.04.03 @ 00:00:00

Job Ticket #: 16045                      DST #: 1

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

RECEIVED  
MAY 26 2011  
KCC WICHITA

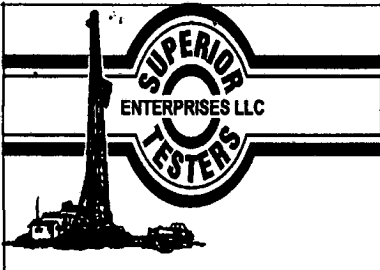
Printed: 2011.04.05 @ 11:40:54

Sandlin Oil Company      Karlin #3      15-12s-18w      DST # 1      Arbuckle      2011.04.03









# DRILL STEM TEST REPORT

TOOL DIAGRAM

Sandlin Oil Company  
 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16045      **DST#: 1**  
 Test Start: 2011.04.03 @ 01:00:00

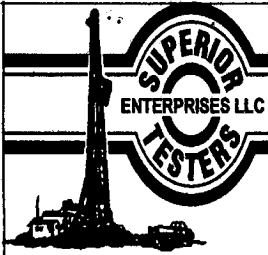
### Tool Information

Drill Pipe:	Length: 3674.00 ft	Diameter: 3.80 inches	Volume: 51.54 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: 50000.00 lb
			<u>Total Volume: 51.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3664.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3644.00	
Shut-In Tool	5.00			3649.00	
Hydroic Tool	5.00			3654.00	
Packer	5.00			3659.00	21.00      Bottom Of Top Packer
Packer	5.00			3664.00	
Perforations	14.00			3678.00	
Recorder	1.00	4143	Inside	3679.00	
Recorder	1.00	4005	Outside	3680.00	
Bullnose	3.00			3683.00	19.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

Sandlin Oil Company  
 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16045      **DST#: 1**  
 Test Start: 2011.04.03 @ 01:00:00

## Mud and Cushion Information

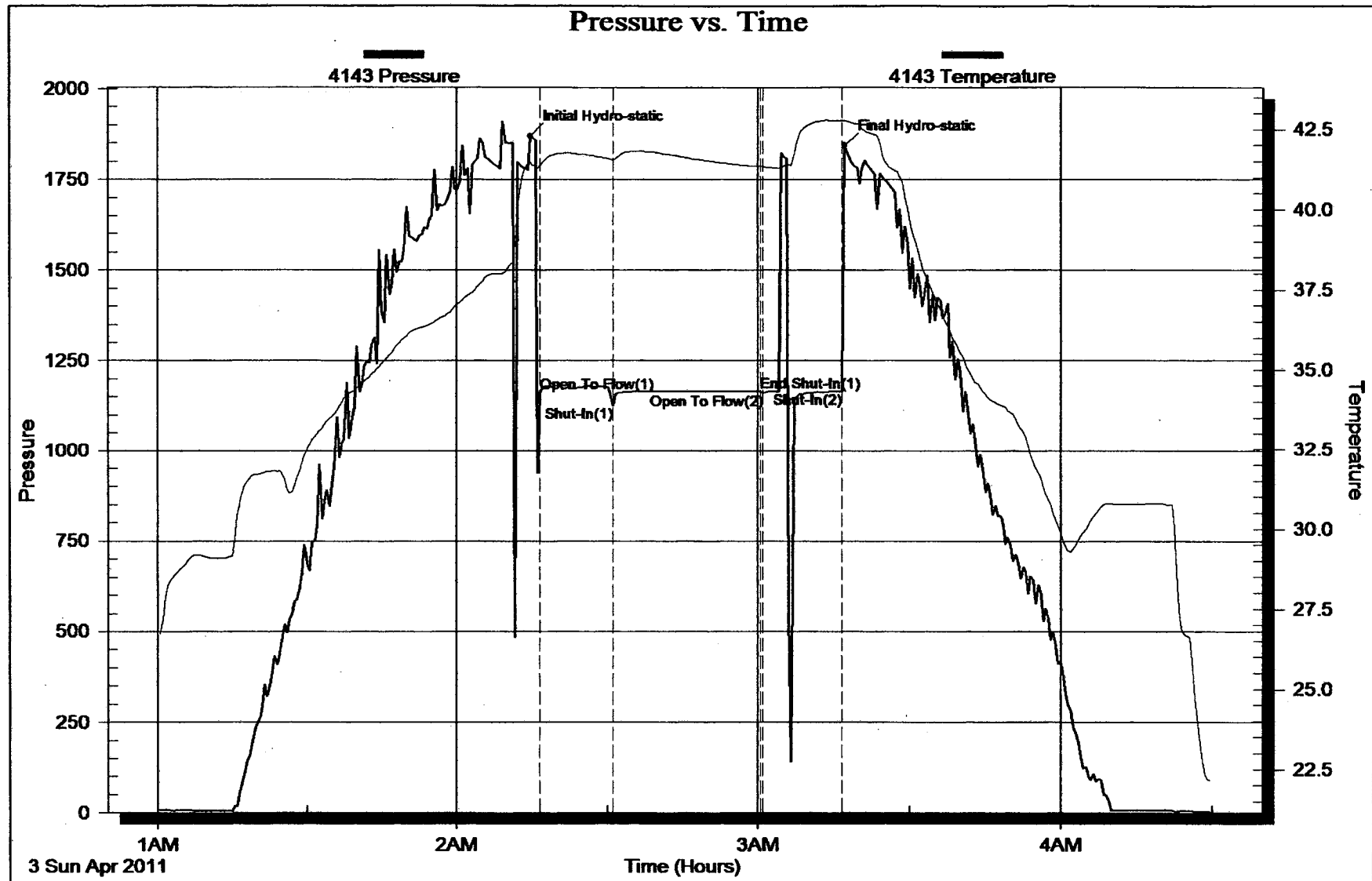
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Oil Cut Mud 15%oil 85%Mud	0.701

Total Length: 50.00 ft      Total Volume: 0.701 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

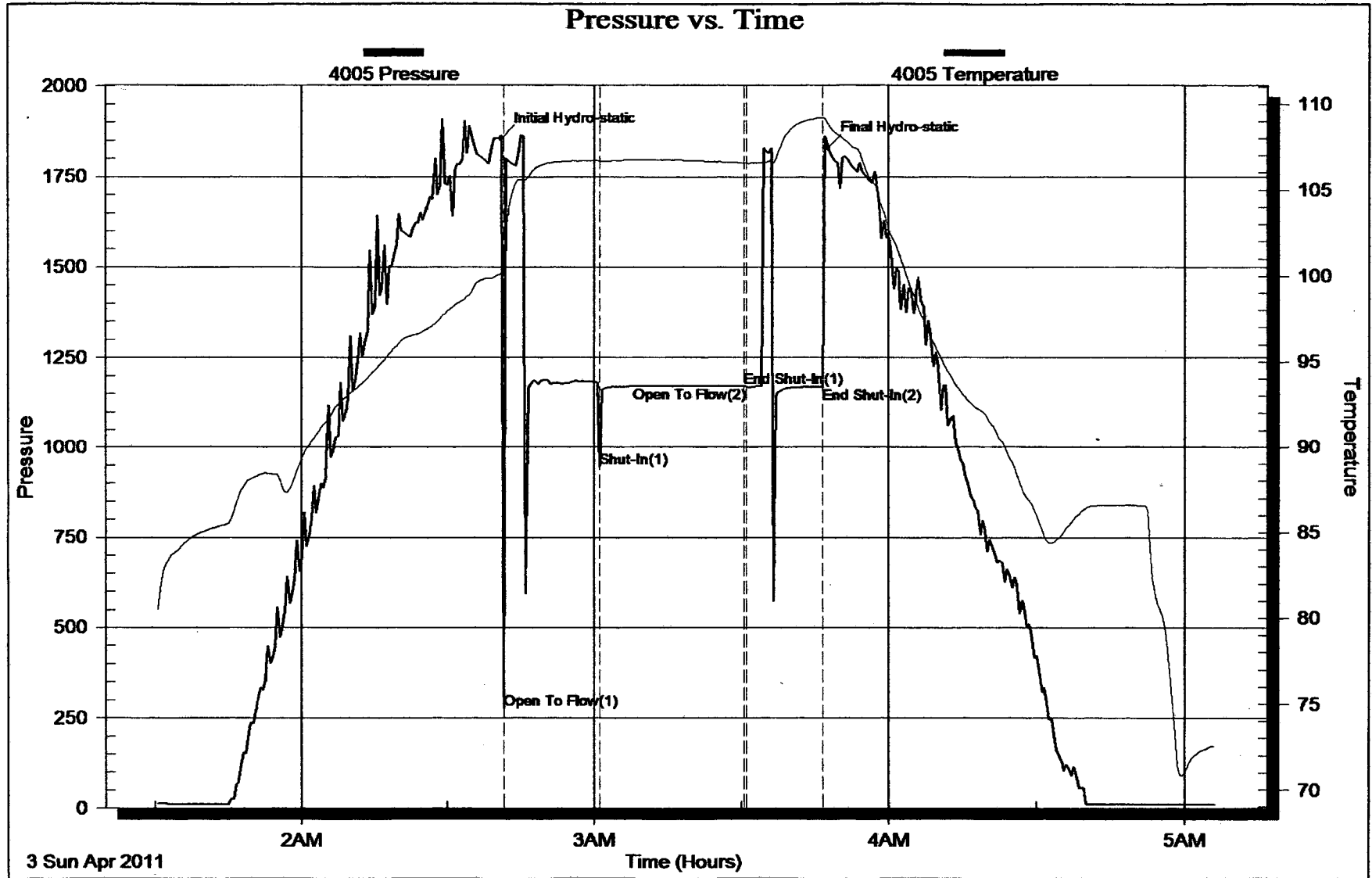


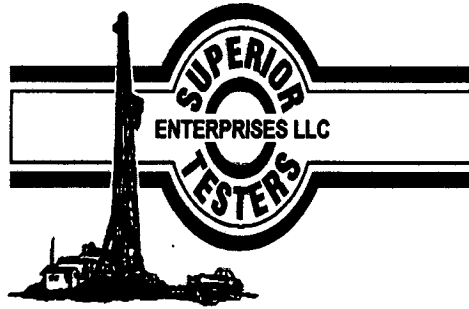
Serial #: 4005

Outside Sandlin Oil Company

15-12s-18w

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Sandlin Oil Company**

621 17th Street Suite 2055 Denver ,Colorado  
80293-2001

ATTN: Herb Deines

**15-12s-18w**

**Karlin #3**

Start Date: 2011.04.04 @ 09:00:00

End Date: 2011.04.04 @ 00:00:00

Job Ticket #: 16046                      DST #: 2

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

Printed: 2011.04.05 @ 11:41:14

Sandlin Oil Company

Karlin #3

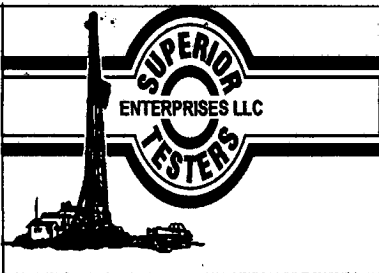
15-12s-18w

DST #2

Arbuckle

2011.04.04





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sandlin Oil Company **Karlin #3**  
 621 17th Street Suite 2055 Denver, Colorado **15-12s-18w**  
 80293-2001 Job Ticket: 16046 **DST#: 2**  
 ATTN: Herb Deines Test Start: 2011.04.04 @ 09:00:00

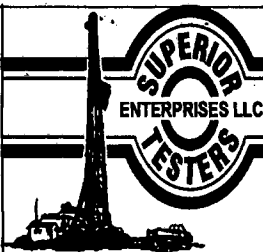
**Tool Information**

Drill Pipe: Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe: Length: 0.00 ft	Diameter: 2.76 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: 60000.00 lb
	<b>Total Volume: 51.10 bbl</b>		Tool Chased: 0.00 ft
Drill Pipe Above KB: 8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer: 3656.00 ft			Final 49000.00 lb
Depth to Bottom Packer: ft			
Interval between Packers: 101.50 ft			
Tool Length: 122.50 ft			
Number of Packers: 2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3636.00	
Shut-In Tool	5.00			3641.00	
Hydroic Tool	5.00			3646.00	
Packer	5.00			3651.00	21.00 Bottom Of Top Packer
Packer	5.00			3656.00	
Perforations	1.00			3657.00	
Change Over Sub	0.75			3657.75	
Drill Pipe	30.58			3688.33	
Change Over Sub	0.75			3689.08	
Perforations	5.00			3694.08	
Recorder	1.00	4006	Inside	3695.08	
Recorder	1.00	4143	Outside	3696.08	101.50 Tool Interval
Packer	3.00			3699.08	
Anchor	2.00			3701.08	
Change Over Sub	0.75			3701.83	
Drill Pipe	31.92			3733.75	
Change Over Sub	0.75			3734.50	
Anchor	19.00		Outside	3753.50	
Recorder	1.00	26180	Outside	3754.50	
Bullnose	3.00			3757.50	1000121.50 Bottom Packers & Anchor

**Total Tool Length: 122.50**



# DRILL STEM TEST REPORT

FLUID SUMMARY

Sandlin Oil Company **Karlin #3**  
621 17th Street Suite 2055 Denver, Colorado **15-12s-18w**  
80293-2001 Job Ticket: 16046 **DST#: 2**  
ATTN: Herb Deines Test Start: 2011.04.04 @ 09:00:00

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl

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



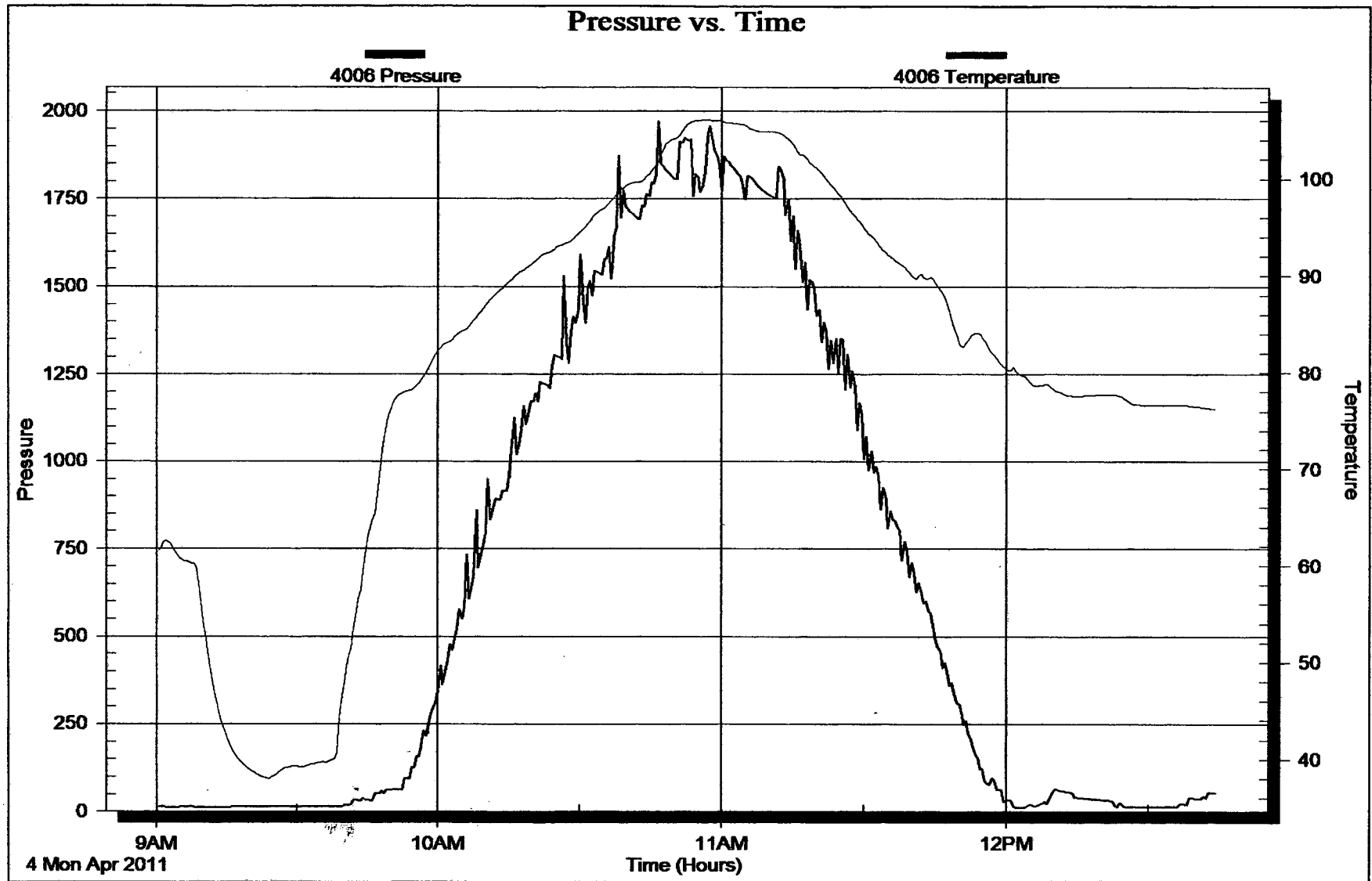
Serial #: 4006

Inside

Sandlin Oil Company

15-12s-18w

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Sandlin Oil Company**

621 17th Street Suite 2055 Denver ,Colorado  
80293-2001

ATTN: Herb Deines

**15-12s-18w**

**Karlin #3**

Start Date: 2011.04.04 @ 09:00:00

End Date: 2011.04.04 @ 00:00:00

Job Ticket #: 16047                      DST #: 3

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

Printed: 2011.04.05 @ 11:41:26

Sandlin Oil Company

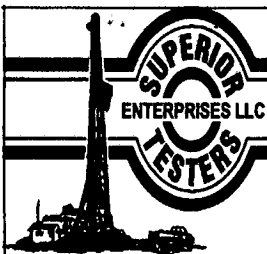
Karlin #3

15-12s-18w

DST # 3

Arbuckle

2011.04.04



# DRILL STEM TEST REPORT

Sandlin Oil Company  
 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

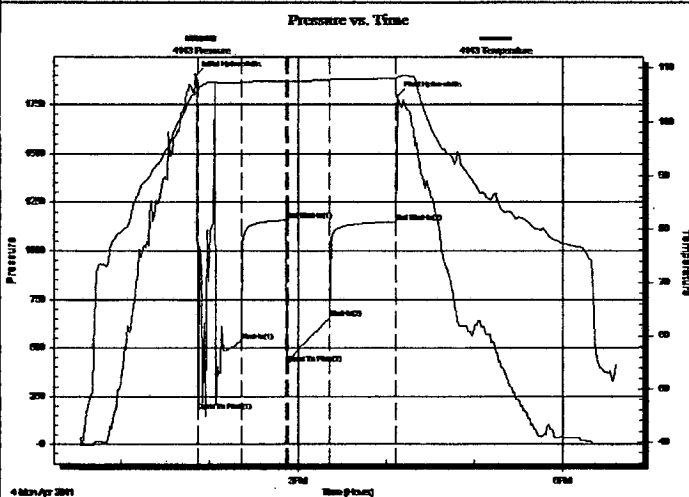
**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16047      **DST#: 3**  
 Test Start: 2011.04.04 @ 09:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3616.00 ft (KB) To 3700.00 ft (KB) (TVD)**  
 Total Depth: **3700.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Real-Time)  
 Tester: Gene Budig  
 Unit No: 3335-152  
 Reference Elevations: 2160.00 ft (KB)  
 2155.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 4143**      **Inside**  
 Press@RunDepth: 1149.89 psia @ 3694.99 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2011.04.04      End Date: 2011.04.04      Last Calib.: 2011.04.04  
 Start Time: 12:32:30      End Time: 18:37:00      Time On Btm: 2011.04.04 @ 13:50:30  
 Time Off Btm: 2011.04.04 @ 16:07:30

**TEST COMMENT:** 1st Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 Minutes  
 1st Shut-In 30 Minutes-Slight blow back  
 2nd Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 minutes  
 2nd Shut-In 45 Minutes-Slight blow back



## PRESSURE SUMMARY

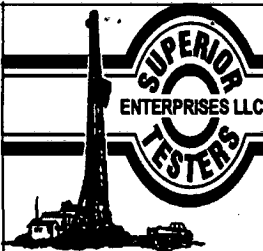
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1900.82	105.36	Initial Hydro-static
2	172.20	105.79	Open To Flow (1)
31	536.37	107.28	Shut-In(1)
62	1158.25	107.57	End Shut-In(1)
63	420.72	107.53	Open To Flow (2)
91	652.51	107.74	Shut-In(2)
136	1149.89	108.08	End Shut-In(2)
137	1795.83	108.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	Muddy Gassy Oil	3.51
0.00	Would not grind out	0.00
1150.00	Slightly gassy oil	16.13
0.00	12% Gas 88% Oil Gravity 29 Corrected	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Sandlin Oil Company  
 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

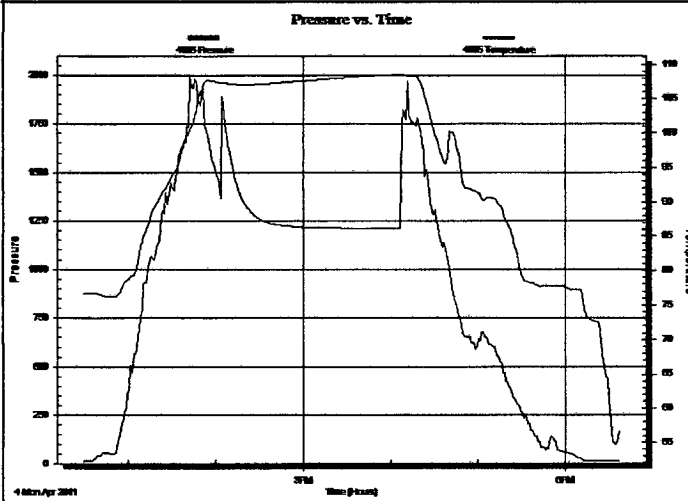
**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16047      **DST#: 3**  
 Test Start: 2011.04.04 @ 09:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3616.00 ft (KB) To 3700.00 ft (KB) (TVD)**  
 Total Depth: **3700.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Real-Time)  
 Tester: Gene Budig  
 Unit No: 3335-152  
 Reference Elevations: 2160.00 ft (KB)  
 2155.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 4005**      **Outside**  
 Press@RunDepth: psia @ 3695.99 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2011.04.04      End Date: 2011.04.04      Last Calib.: 2011.04.04  
 Start Time: 12:29:30      End Time: 18:38:00      Time On Btmr:  
 Time Off Btmr:

**TEST COMMENT:** 1st Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 Minutes  
 1sr Shut-In 30 Minutes-Slight blow back  
 2nd Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 minutes  
 2nd Shut-In 45 Minutes-Slight blow back



## PRESSURE SUMMARY

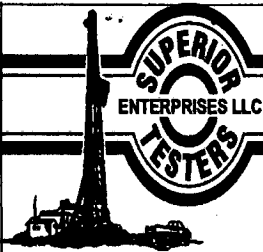
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	Muddy Gassy Oil	3.51
0.00	Would not grind out	0.00
1150.00	Slightly gassy oil	16.13
0.00	12%Gas 88%Oil Gravity 29 Corrected	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Sandlin Oil Company  
 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

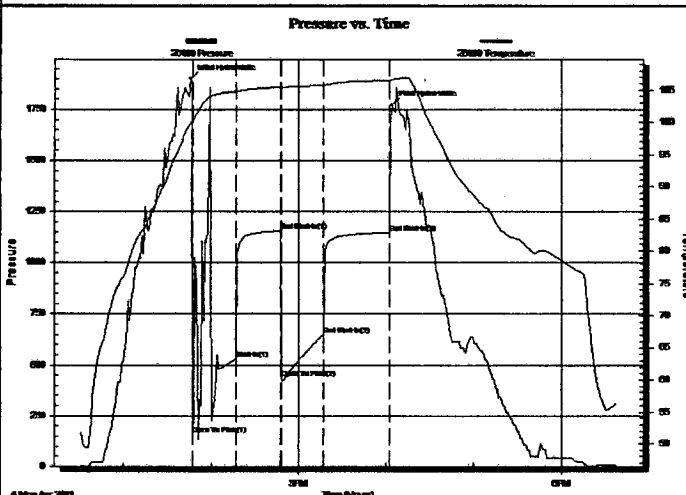
**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16047      **DST#: 3**  
 Test Start: 2011.04.04 @ 09:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3616.00 ft (KB) To 3700.00 ft (KB) (TVD)**  
 Total Depth: 3700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Real-Time)  
 Tester: Gene Budig  
 Unit No: 3335-152  
 Reference Elevations: 2160.00 ft (KB)  
 2155.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 26180 Below**  
 Press@RunDepth: 1148.46 psia @ 3757.41 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011.04.04 End Date: 2011.04.04 Last Calib.: 2011.04.04  
 Start Time: 12:31:00 End Time: 18:38:00 Time On Btm: 2011.04.04 @ 13:46:00  
 Time Off Btm: 2011.04.04 @ 16:04:00

**TEST COMMENT:** 1st Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 Minutes  
 1sr Shut-In 30 Minutes-Slight blow back  
 2nd Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 minutes  
 2nd Shut-In 45 Minutes-Slight blow back



## PRESSURE SUMMARY

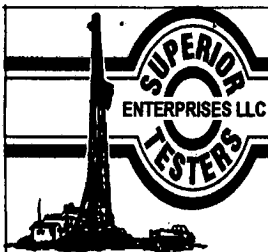
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1901.87	99.81	Initial Hydro-static
2	160.19	100.31	Open To Flow (1)
31	532.59	104.72	Shut-In(1)
62	1156.91	105.42	End Shut-In(1)
62	437.68	105.43	Open To Flow (2)
91	650.62	105.74	End Shut-In(2)
136	1148.46	106.48	End Shut-In(3)
138	1773.09	106.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	Muddy Gassy Oil	3.51
0.00	Would not grind out	0.00
1150.00	Slightly gassy oil	16.13
0.00	12% Gas 88% Oil Gravity 29 Corrected	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Sandlin Oil Company  
 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

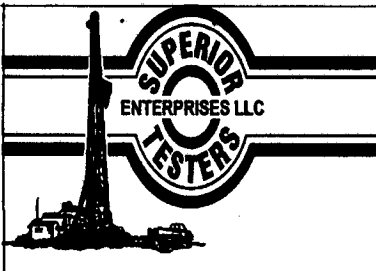
**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16047      DST#: 3  
 Test Start: 2011.04.04 @ 09:00:00

## Tool Information

Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 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: 65000.00 lb
			<u>Total Volume: 50.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3616.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	144.41 ft			
Tool Length:	165.41 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3596.00	
Shut-In Tool	5.00			3601.00	
Hydroic Tool	5.00			3606.00	
Packer	5.00			3611.00	21.00      Bottom Of Top Packer
Packer	5.00			3616.00	
Perforations	10.00			3626.00	
Change Over Sub	0.75			3626.75	
Drill Pipe	61.49			3688.24	
Change Over Sub	0.75			3688.99	
Perforations	5.00			3693.99	
Recorder	1.00	4143	Inside	3694.99	
Recorder	1.00	4005	Outside	3695.99	
Blank Off Sub	1.00			3696.99	144.41      Tool Interval
Packer	5.00			3701.99	
Anchor	2.00			3703.99	
Change Over Sub	0.75			3704.74	
Drill Pipe	31.92			3736.66	
Change Over Sub	0.75			3737.41	
Anchor	19.00			3756.41	
Recorder	1.00	26180	Below	3757.41	
Bullnose	3.00			3760.41	1000164.41      Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>165.41</b>			



# DRILL STEM TEST REPORT

FLUID SUMMARY

Sandlin Oil Company  
 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16047      DST#: 3  
 Test Start: 2011.04.04 @ 09:00:00

## Mud and Cushion Information

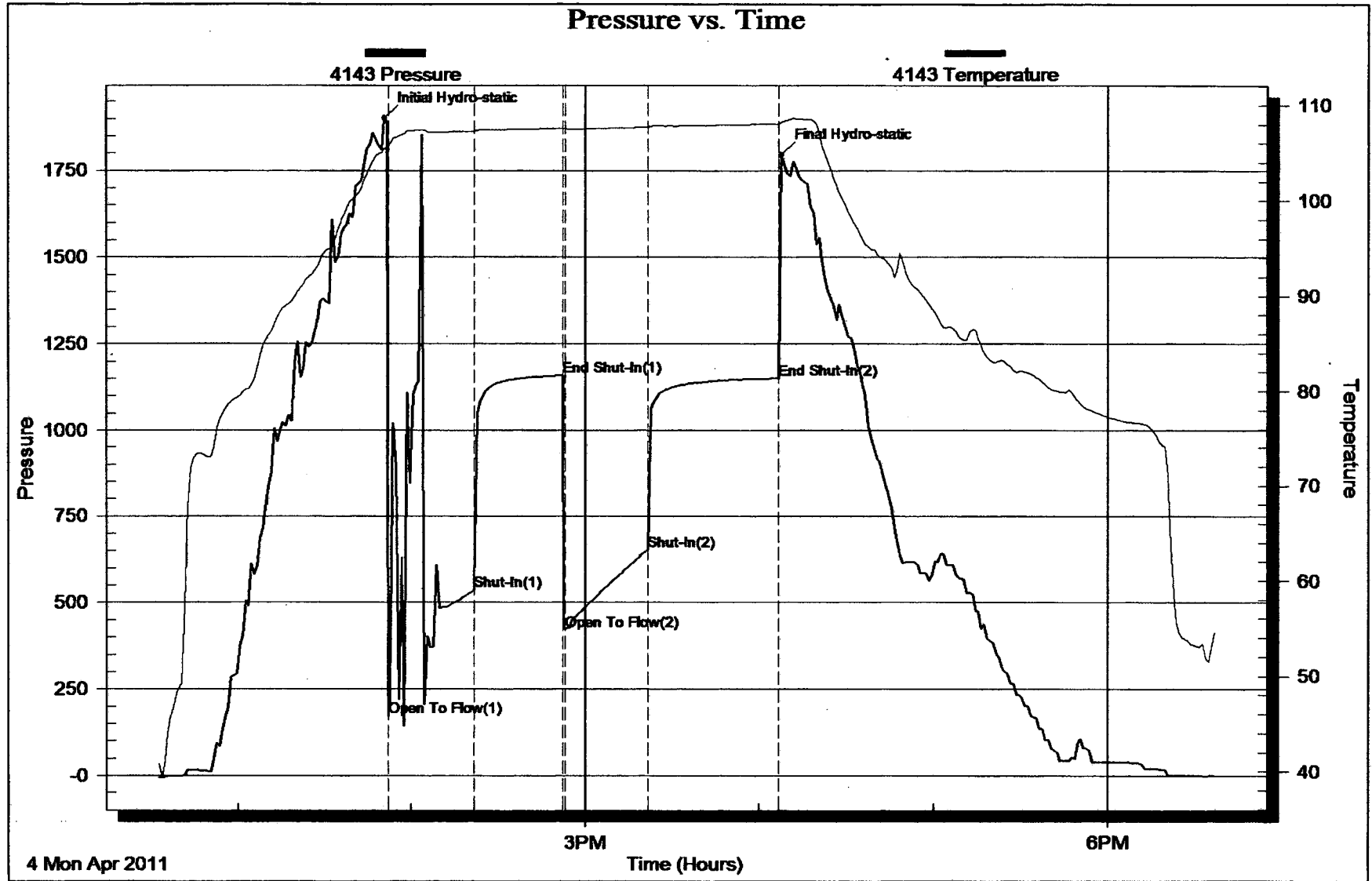
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 50001.00 ppm			
Filter Cake: inches			

## Recovery Information

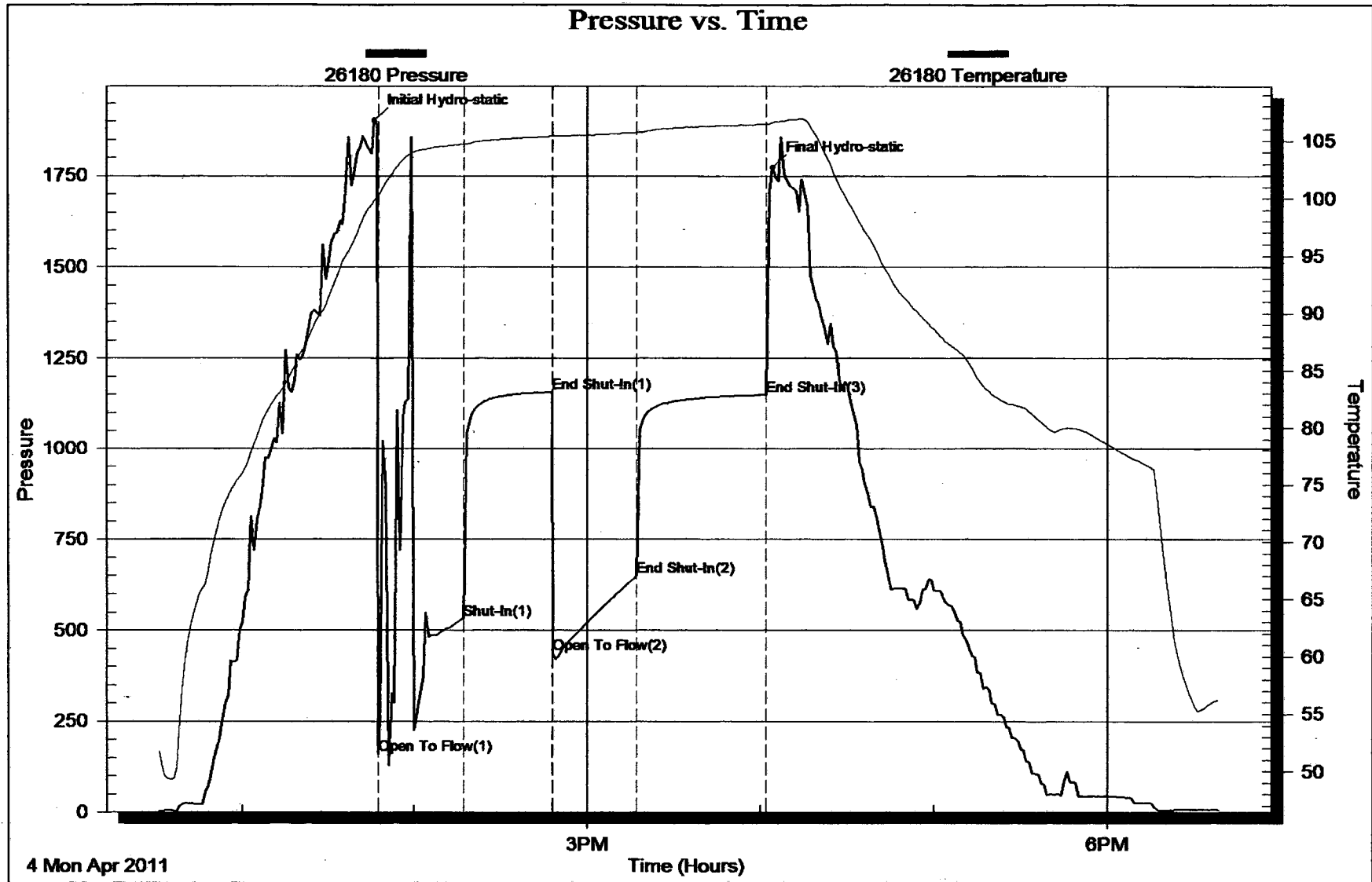
Recovery Table

Length ft	Description	Volume bbl
250.00	Muddy Gassy Oil	3.507
0.00	Would not grind out	0.000
1150.00	Slightly gassy oil	16.131
0.00	12%Gas 88%Oil Gravity 29 Corrected	0.000

Total Length: 1400.00 ft      Total Volume: 19.638 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







Serial #: 4005

Outside Sandlin Oil Company

15-12s-18w

DST Test Number: 3

