



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1251270
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- 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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1251270

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size: _____ Set At: _____ Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Sandlin Oil Corporation
Well Name	Chesney 1
Doc ID	1251270

Tops

Name	Top	Datum
ANHYDRITE	1228	+720
TOPEKA	2824	-876
HEEBNER SHALE	3040	-1092
TORONTO	3059	-1111
LKC	3080	-1132
BKC	3322	-1374
CONGLOMERATE	3400	-1452
RTD	3496	-1548

ALLIED OIL & GAS SERVICES, LLC 055753

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell KS

DATE <u>4-22-15</u>	SEC. <u>24</u>	TWP. <u>8</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Chesney</u>	WELL # <u>1</u>	LOCATION <u>Code 1 Hwy 18 1/2 W to 24</u>		COUNTY	STATE		
OLD OR NEW (Circle one)		<u>8N to Qrd 1W to 23rd 3/4 N</u>					

CONTRACTOR Royal #2 E 1/2 into

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 215

CASING SIZE 8 7/8 20' DEPTH 215

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 13

OWNER

CEMENT

AMOUNT ORDERED 160 com 390 cc

COMMON	<u>160</u>	@	<u>17.90</u>	<u>2864.00</u>
POZMIX		@		
GEL		@		
CHLORIDE	<u>453</u>	@	<u>1.10</u>	<u>498.30</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>160</u>	@	<u>2.48</u>	<u>396.80</u>
MILEAGE	<u>227</u>	@	<u>2.75</u>	<u>622.98</u>
			TOTAL	<u>4381.98</u>

EQUIPMENT

PUMP TRUCK CEMENTER Robert Yakubowich

409 HELPER Tracy Jordan

BULK TRUCK

985 DRIVER Ben Griffen

BULK TRUCK

DRIVER

REMARKS:

see log

Had circulation throw out job 20 sks to pit of cement

Thank you!!!

CHARGE TO: Sandlin Oil Corp

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 215

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE 30 LVMI @ 4.40 132.00

MANIFOLD @

60 HVMI @ 7.70 462.00

TOTAL 2106.25

PLUG & FLOAT EQUIPMENT

@

@

@

@

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1238

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-27-15	24	8	17	ROCKS	KS		3:45pm

Location Chesney 1 W to 24th 912 Ave 1st 340 E 1120

Lease	Well No.	Owner	
Chesney	1	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor		Charge To	
Royal #1		Sandlin	
Type Job	T.D.	Street	
Production String	3500		
Hole Size	Depth	City	
7 7/8		State	
Csg. 5 1/2	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
	1278	Cement Amount Ordered 150 com 10/ salt 5/6 oil sensitive	
Tbg. Size	Depth	50 gal mud clear	
Port Collar #52	Shoe Joint		
38.90	38.90		
Cement Left in Csg.	Displace		
	84 1/2 RL		

EQUIPMENT

Pumptrk	No.	Cementor	Common
20		Chad	Poz. Mix
		Helper	
Bulktrk	No.	Driver	Gel.
		1/1 CK	
Bulktrk	No.	Driver	Calcium
9		Chad	

JOB SERVICES & REMARKS

Remarks:	3,57.10	Hulls
Rat Hole	30SK	Salt
Mouse Hole	153K	Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
5 1/2 on bottom Est Circulation		Sand
Pump 50 gal mud clear 1/16" spacer		Handling
Cement Rathole mouse hole cement		Mileage
5 1/2 with 10.5 SK clear lines +		FLOAT EQUIPMENT
Displace plug		Guide Shoe
		5 1/2
		Centralizer
		4 Turbo's
		Baskets
		AFU Inserts
		Port Collar
		Float Shoe
		1
		Latch Down
		1

Signature	Pumptrk Charge	Tax
	Mileage	Discount
		Total Charge



SANDLIN OIL CORPORATION

Scale 1:240 Imperial

Well Name: CHESNEY #1
 Surface Location: SE NE SW NW S24 T8S R17W
 Bottom Location:
 API: 15-163-24290-00-00
 License Number: 6677
 Spud Date: 4/21/2015 Time: 5:02 PM
 Region: ROOKS COUNTY
 Drilling Completed: 4/26/2015 Time: 5:58 PM
 Surface Coordinates: 1860 FNL & 1025 FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1942.00ft
 K.B. Elevation: 1948.00ft
 Logged Interval: 2700.00ft To: 3500.00ft
 Total Depth: 3500.00ft
 Formation: LANSING KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

OPERATOR

Company: SANDLIN OIL CORPORATION
 Address: 621 17TH ST STE 2055
 DENVER, CO 80293-2001
 Contact Geologist: GARY SANDLIN
 Contact Phone Nbr: 303-292-3313
 Well Name: CHESNEY #1
 Location: SE NE SW NW S24 T8S R17W
 API: 15-163-24290-00-00
 Pool:
 State: KANSAS Field: WILDCAT
 Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.1719186
 Latitude: 39.3454281
 N/S Co-ord: 1860 FNL
 E/W Co-ord: 1025 FWL

LOGGED BY



Company: SOLUTIONS CONSULTING, INC.
 Address: 108 WEST 35TH
 HAYS, KANSAS 67601
 Phone Nbr: 785-650-4540 / 785-639-1337
 Logged By: GEOLOGIST Name: STEVE REED

CONTRACTOR

Contractor: ROYAL DRILLING
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 4/21/2015 Time: 5:02 PM
 TD Date: 4/26/2015 Time: 5:58 PM
 Rig Release: 4/28/2015 Time: 12:00 AM

ELEVATIONS

K.B. Elevation: 1948.00ft Ground Elevation: 1942.00ft
 K.B. to Ground: 6.00ft

NOTES

BASED ON FAVORABLE STRUCTURE, POSITIVE LOG ANALYSIS WITH NUMEROUS THIN ZONES THAT CALCULATE, AND OIL RECOVERY WITH GOOD PRESSURES FROM DST #1. THE DECISION WAS MADE TO SET 4 1/2" PRODUCTION CASING TO FURTHER TEST THE POTENTIAL OF THE CHESNEY #1.

OPEN HOLE LOGGING BY NABORS COMPLETION & PRODUCTION: DUAL INDUCTION LOG, COMPENSATED DENSITY/NEUTRON POROSITY LOG, MICRO LOG

DRILL STEM TESTING BY EAGLES TESTERS: ONE CONVENTIONAL TEST AND ONE STRADDLE TEST

RESPECTFULLY SUBMITTED BY:

STEVE REED

	WELL NAME		COMPARISON WELL	COMPARISON WELL
	CHESNEY #1		HARRISON #1	CHESNEY #1
	API: 15-163-24290		API: 15-163-20859	API: 15-163-22707
	SE NE SW NW S24 T8S R17W		SW NE SE S23 T8S R17W	SE SW NE S23 T8S R17W
FORMATION	SAMPLE TOPS	LOG TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)
ANHYDRITE	1232' (+716)	1228' (+720')	+718'	+717'
TOPEKA	2927' (-879')	2824' (-876')	-880'	-881'
HEEBNER	3041' (-1093')	3040' (-1092')	-1095'	-1094'
TORONTO	3066' (-1118')	3059' (-1111')	-1116'	-1122'
LKC	3088' (-1140')	3080' (-1132')	-1139'	-1140'
CONGLOMERATE	3401' (-1453')	3400' (-1452')	NA	-1455'
BKC	3327' (-1379')	3322' (-1374')	-1382'	-1382'
ARBUCKLE	NO CALL	3454' (-1506')	NA	NA
RTD	3500' (-1552')	3496' (-1548')	-1442'	-1507'

SUMMARY OF DAILY ACTIVITY

- 4-21-15** R.U., spud @ 1:00PM
- 4-22-15** 215', 8 5/8" surface casing set at 215' w/150 sxs common, 2% gel, 3% cc, plug down 4:45am WOC, drill plug 12:45pm
- 4-23-15** 1440', drilling
- 4-24-15** 2450', drilling
- 4-25-15** 3134', drilling, CFS @ 3160, CFS @ 3200, CFS @ 3255, CFS @ 3275, Short Trip (22 stands), CTCH, TOWB, strap 1.34 long to board , survey 1/2°, DST #1 3226 to 3275
- 4-26-15** 3290', drilling, CFS@ 3422, TD reached @ 5:58pm, CFS @ 3500 TOWB for logs, logging, DST #2 3266 to 3500
- 4-27-14** 3500', TOWT, prepare to set 4 1/2" production casing
- 4-28-14** release rig



DRILL STEM TEST REPORT

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver , Colorado 80293-2001
 ATTN: Steve Reed

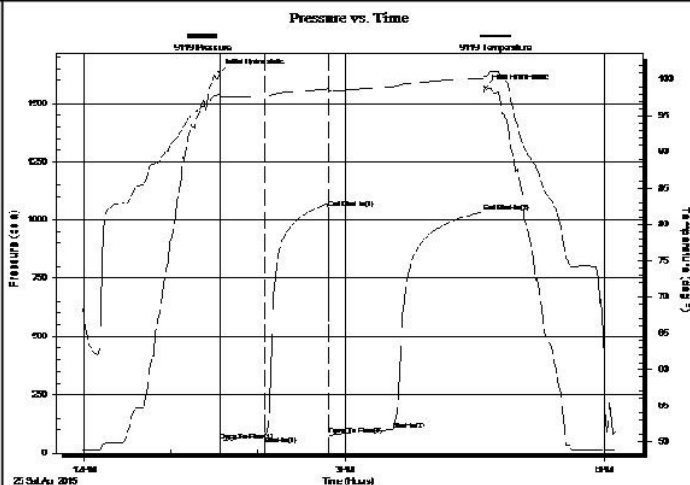
24-8s-17w Rooks
Cheney #1
 Job Ticket: 01028 **DST#: 1**
 Test Start: 2015.04.26 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: #1
 Interval: **3226.00 ft (KB) To 3275.00 ft (KB) (TVD)**
 Total Depth: 3275.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1948.00 ft (KB)
 1942.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 9119 Outside
 Press@RunDepth: 1034.17 psia @ 3270.37 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.04.25 End Date: 2015.04.25 Last Calib.: 2015.04.26
 Start Time: 11:58:00 End Time: 18:07:30 Time On Btm: 2015.04.25 @ 13:33:30
 Time Off Btm: 2015.04.25 @ 16:37:00

TEST COMMENT: 1st Opening 30 Minutes-Weak building blow built to 9 inches into the water
 1st Shut-In 45 Minutes- No blow back
 2nd Opening 45 Minutes-Weak building blow built to 11 inches into the water
 2nd Shut-In 60 Minutes- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1634.12	97.95	Initial Hydro-static
1	50.08	97.20	Open To Flow (1)
32	73.35	97.73	Shut-In(1)
75	1049.24	98.69	End Shut-In(1)
76	77.55	98.44	Open To Flow (2)
120	100.56	99.05	Shut-In(2)
182	1034.17	100.25	End Shut-In(2)
184	1569.66	100.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Thick heavy oil cut muddy w ater	0.84
0.00	50%Mud 30%Water 20%Oil	0.00
40.00	Thick heavy oil cut mud 80% Mud 20% Oil	0.56
20.00	Clear oil	0.28

Gas Rates

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

20.00	Clean oil	0.26
0.00	Chlorides 14,000	0.00

Eagle Testers

Ref. No: 01028

Printed: 2015.04.26 @ 05:02:34

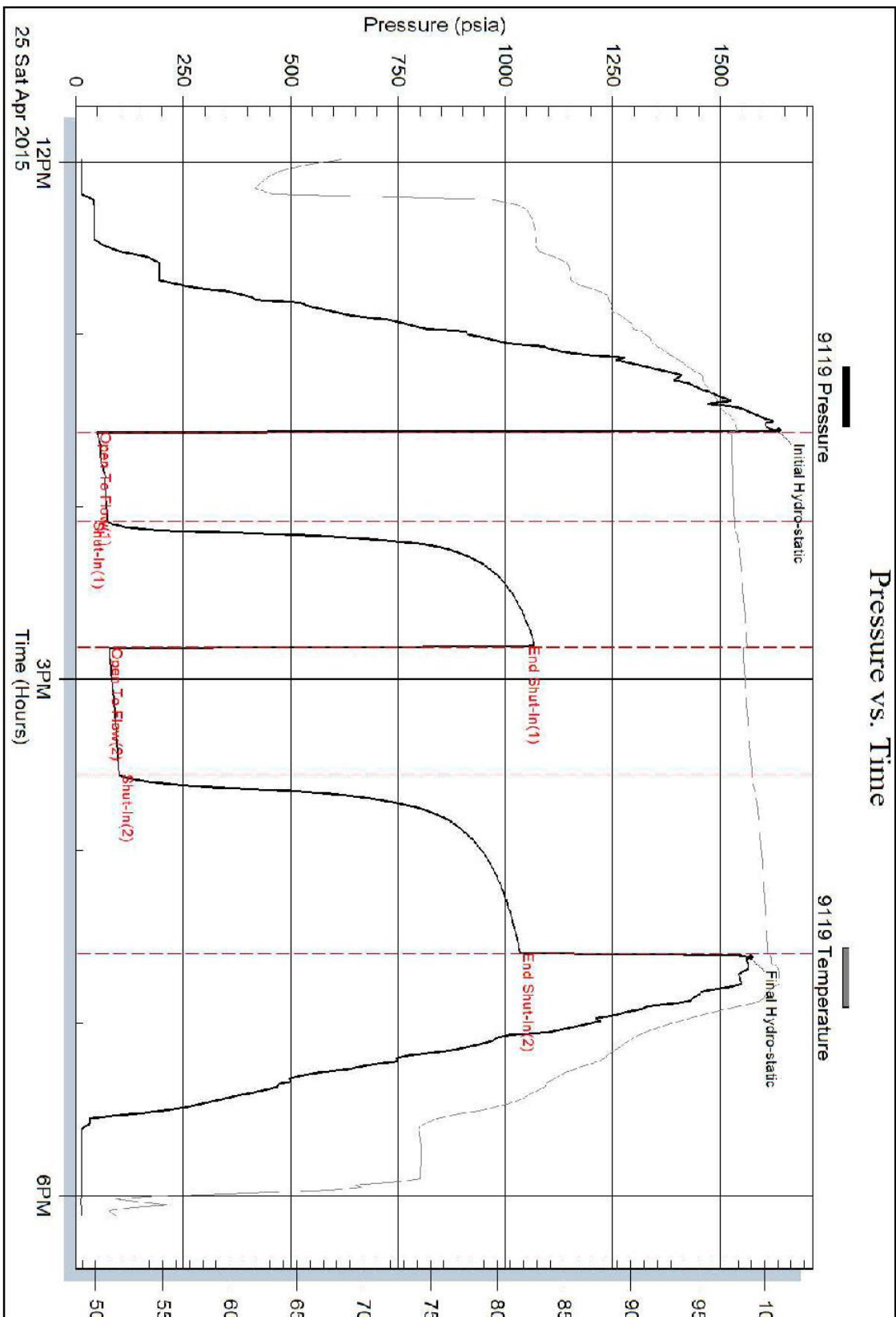
Serial #: 9119

Outside Sandin Oil Corporation

Cheney #1

DST Test Number: 1

Pressure vs. Time



Eagle Testers

Ref. No: 01028

Printed: 2015.04.26 @ 05:02:35



DRILL STEM TEST REPORT

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver, Colorado 80293-2001
 ATTN: Steve Reed

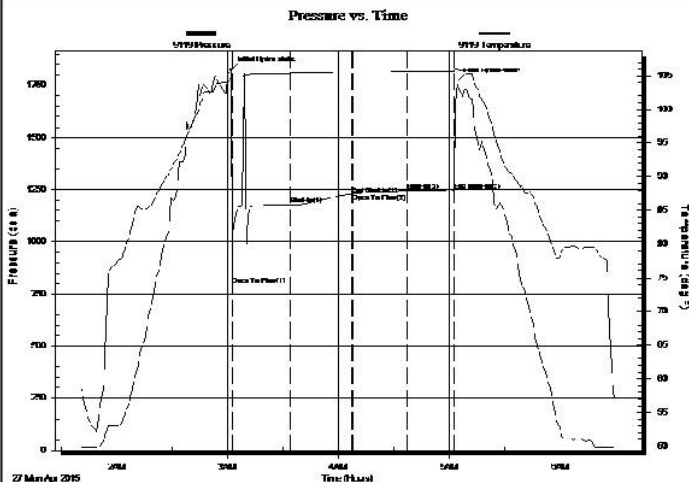
24-8s-17w Rooks
Cheney #1
 Job Ticket: 01029 **DST#: 2**
 Test Start: 2015.04.27 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "J" -Arb**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Bujdig
 Unit No: 1
 Interval: **3266.00 ft (KB) To 3296.00 ft (KB) (TVD)**
 Total Depth: 3296.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1948.00 ft (KB)
 1942.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 1247.90 psia @ 3571.98 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.04.27 End Date: 2015.04.27 Last Calib.: 2015.04.27
 Start Time: 01:40:00 End Time: 06:29:30 Time On Btm: 2015.04.27 @ 03:02:00
 Time Off Btm: 2015.04.27 @ 05:04:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow fofr 19 Minutes and died
 1st Shuty-In 30 Minutes-No blow back
 2nd Opening 30 Minutes-No blow
 2nd Shut-In 30 Minutes- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1825.21	104.64	Initial Hydro-static
1	796.29	104.55	Open To Flow (1)
32	1177.14	105.33	Shut-In(1)
65	1229.09	105.51	End Shut-In(1)
66	1230.09	105.52	Open To Flow (2)
95	1245.42	105.65	Shut-In(2)
121	1247.90	105.75	End Shut-In(2)
122	1770.65	105.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling	0.56

Gas Rates

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

Serial #: 9119

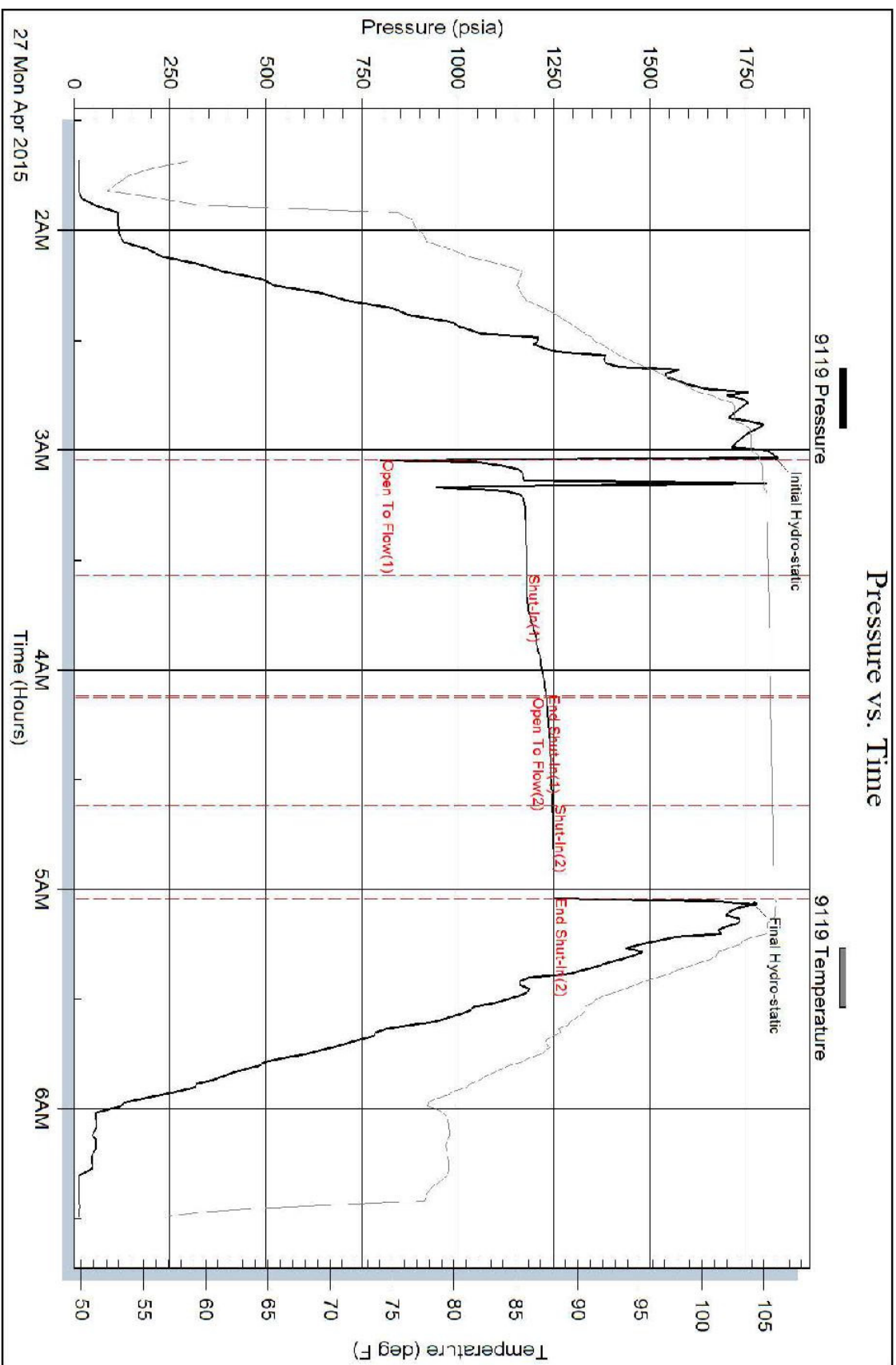
Inside

Sandin Oil Corporation

Cheney #1

DST Test Number: 2

Pressure vs. Time

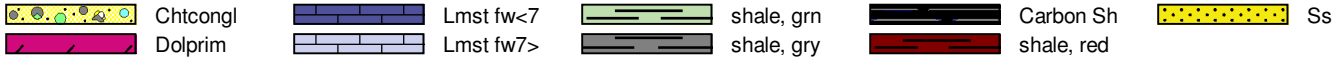


Eagle Testers

Ref. No: 01029

Printed: 2015.04.27 @ 07:20:18

ROCK TYPES



ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- △ Chert White
- Mc Mica
- ∕ Euhed rhombs of dol or

FOSSIL

- F Fossils < 20%
- φ Oolite
- ⊗ Fossilinid

STRINGER

- ~~~~ Chert
- ▨ Dolomite

TEXTURE

- C Chalky

OTHER SYMBOLS

EVENTS

- ⌋ Casing Shoe
- ▽ RTF
- ▶ Sidewall
- ▲ Left Casing Shoe
- ▼ Right Casing Shoe

INTERVALS

- Core
- DST

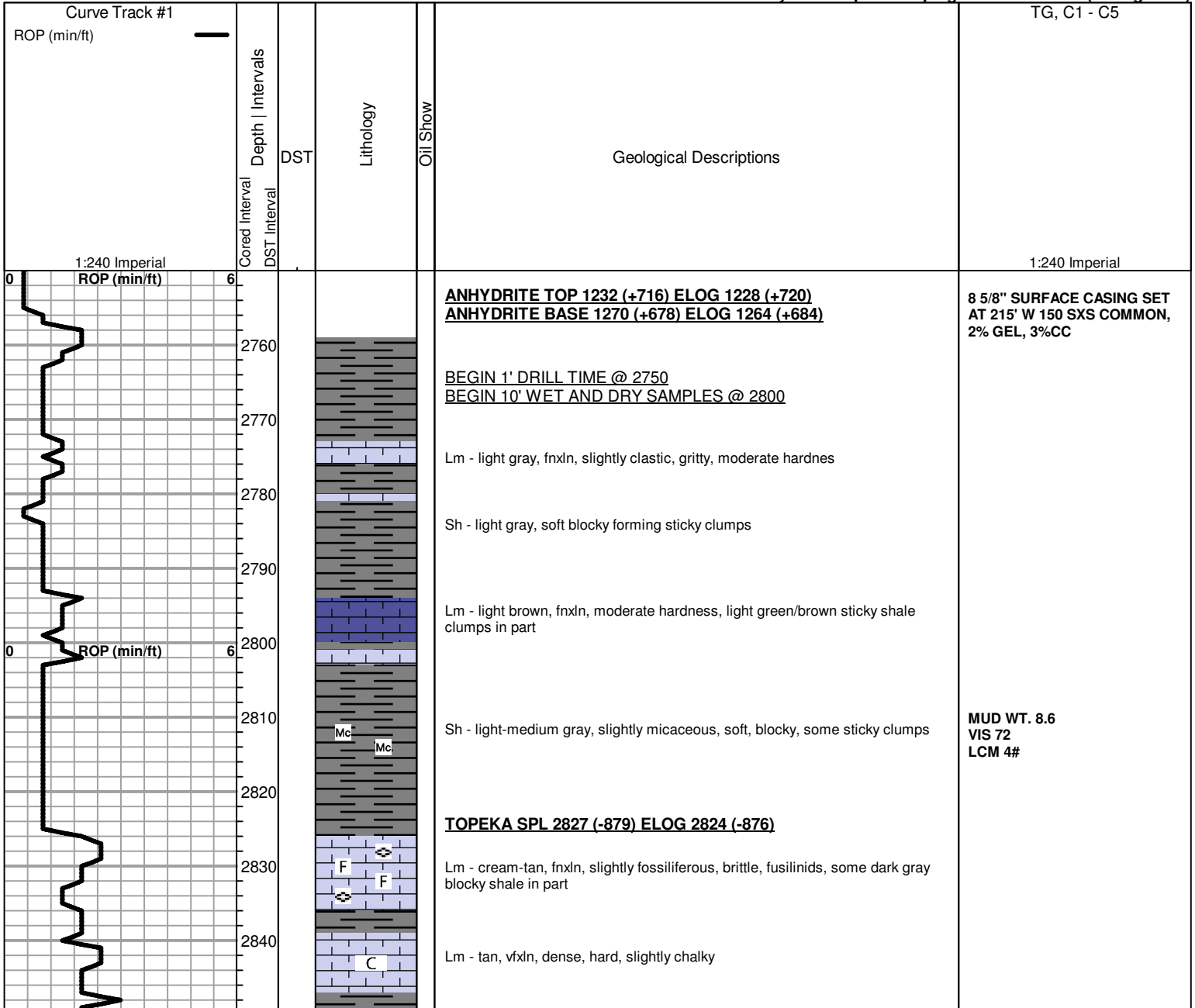
Oil Show

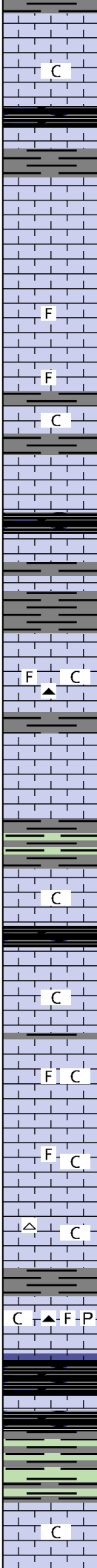
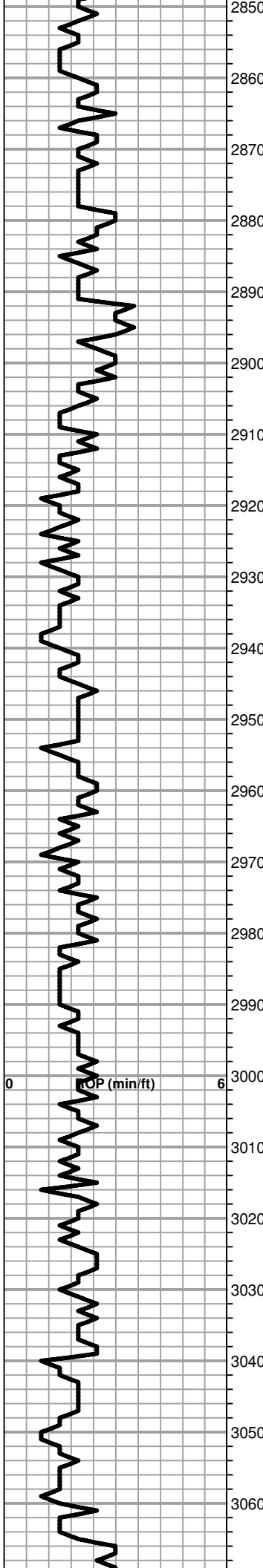
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe
- DST
- DST
- DST

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





Lm - tan-light brown, vfxln, hard, sharp

2860 C Lm - cream-tan, fnxln, moderate hardness, slightly chalky, slightly fossiliferous

2870 Sh - black carbonaceous, fissile

2880 Lm - tan-light gray, mottled, vfxln, dense, brittle, sharp

2890 Lm - tan, fnxln moderate hardness, clean, sharp

2900 F Lm - tan, fnxln, moderate hardness, brittle, slightly fossiliferous

2910 F Lm - light gray-light brown, vf-fnxln, hard on crush, dark fossil clasts in part

2910 C Lm - tan-light gray, fnxln, brittle, chalky

2920 Lm - cream-tan, fn-medxln, bedded chalk in part

2930 Sh - black carbonaceous, soft, waxy, fissile, bronze specks

2940 Sh - light gray, soft blocky, forming sticky clumps

2945 F C Lm - cream-tan, fnxln, moderate hardness, slightly chalky, slightly fossiliferous, medium gray fossiliferous chert

2950 Lm - buff, fnxln, hard, sharp, pyrite clusters

2960 Sh - light greenish gray, soft, blocky

2970 C Lm - cream, fnxln, hard, brittle, bedded chalk

2980 Sh - black, carbonaceous, soft, waxy

2990 C Lm - cream-buff, fnxln, slight bedded chalk, 1 chip with slight staining, NSFO, no odor

3000 F C Lm - cream-tan, fnxln, dark fossil clasts in some, bedded chalk in part, light brown fossiliferous chert

3010 F C Lm - cream-light brown, fnxln, slightly fossiliferous, brittle, bedded chalk

3020 C Lm - cream-tan, fnxln, brittle, bedded chalk, gray chert

3030 C F P Lm - tan-light brown, fnxln, slightly fossiliferous, bedded chalk, black chert, pyrite

HEEBNER SPL 3041 (-1093) ELOG 3040 (-1092)

Sh - black, carbonaceous, waxy
Lm - tan, fnxln, slightly clastic, hard

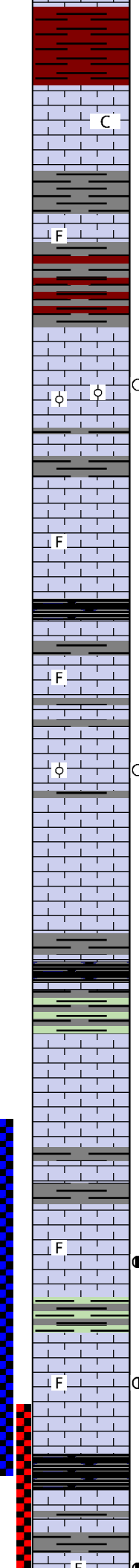
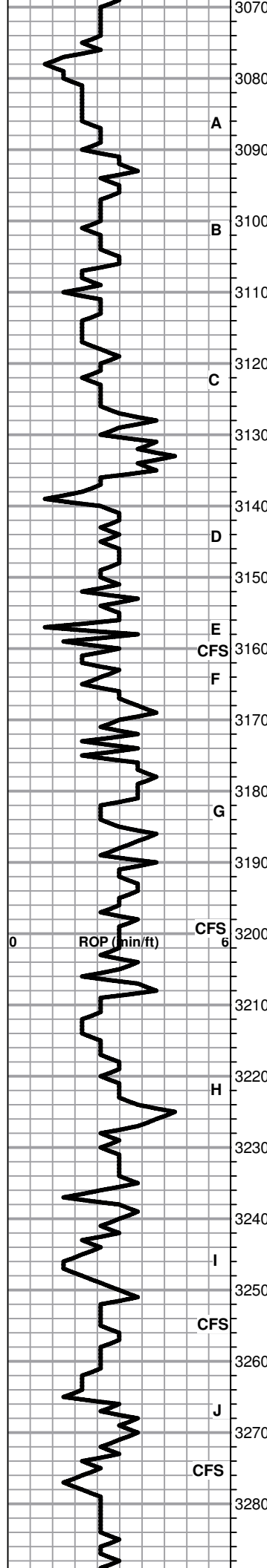
3050 Sh - light greenish gray, soft blocky, forming sticky clumps

TORONTO SPL 3066 (-1118) ELOG 3059 (-1111)

3060 C Lm - offwhite, fn-medxln, some with fine pinpoint porosity, no shows, white sticky chalk in part

MUD WT 8.6
VIS 61
LCM 3#

MUD WT 8.7
VIS 58
LCM 2#



Sh - maroon, soft very sticky, forming red wash

LKC SPL 3088 (-1140) ELOG 3080 (-1132)

Lm - cream-tan, fnxln, dense, brittle, slightly chalky, no shows

Lm - cream, fnxln, slightly fossiliferous, dense, brittle, cherty

Sh - light gray-maroon, soft, very sticky clumps

Lm - cream, oolitic, fine interxln porosity, scattered golden brown stain, slight odor, few specks of free oil, overall very tight

Sh - light gray, soft, blocky

Lm - cream-light brown, fossiliferous, fine interxln porosity, dense, hard, slight bedded chalk in part, no shows

Sh - black, carbonaceous, waxy, soft
Lm - light gray, vfxln, very hard

Lm - tan, granular, well cemented, fossiliferous, hard, no shows

Lm - cream, slightly oolitic, fine interxln porosity with vugs, scattered stain, slight odor, NSFO

Lm - cream, fnxln, dense, very hard, no shows

Lm - cream, clean, fnxln, hard, brittle, no shows

Sh - black, carbonaceous, waxy

Sh - medium gray-green, soft, blocky

Lm - cream, fossiliferous, fnxln, dense, hard, pyrite

Lm - cream-tan, slightly chalky, brittle on crush, no shows

Lm - cream, fnxln, hard, brittle

Lm - cream-tan, fossiliferous, fine pinpoint porosity, saturated golden brown stain, SFO upon crush, floating on water, good odor, light gassy sheen, good streaming wet cut under UV light

Sh - greenish gray, soft, sticky

Lm - tan, fossiliferous, fine pinpoint porosity, saturated stain in some, slight odor, good streaming wet cut, slight show of free oil

Sh - black, carbonaceous, soft, waxy

Lm - cream, fossiliferous, fine interxln porosity, saturated stain, slight odor

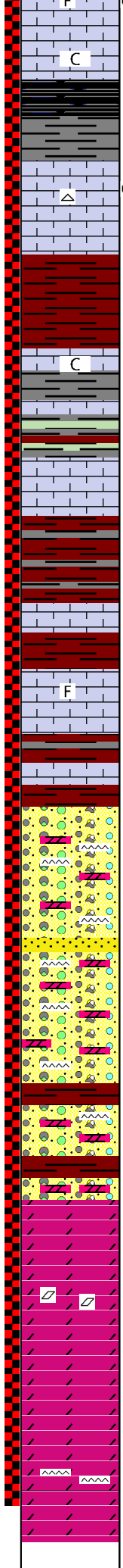
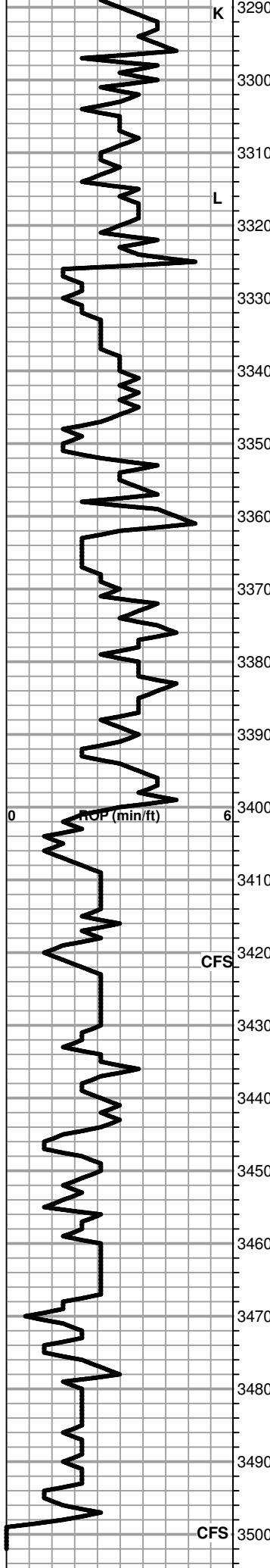
MUD WT 8.7
VIS 57

MUD WT 8.9
VIS 54
LCM 2#

DST #1 3226 TO 3275
SEE HEADER FOR RESULTS

MUD WT 9.0
VIS 53
LCM 3#

DST #2 3266 TO 3496
MISRUN
SEE HEADER FOR SUMMARY



Lm - cream, fossiliferous, fine interxn porosity, saturated stain, slight odor, NSFO, good streaming wet cut, tight.

Lm - cream-light gray, fnxn, dense, hard, slight bedded chalk

Sh - black, carbonaceous, fissile

Lm - cream-offwhite, fine pinpoint porosity, 2 chips with slight scattered stain, NSFO, no odor, cherty

BKC SPL 3327 (-1379) ELOG 3322 (-1374)

Sh - maroon, soft, blocky

Lm - offwhite, granular, sucrosic, some friable, others very hard, chalky

Sh - greenish gray-maroon, soft, blocky

Lm - offwhite, medxn, brittle, pyrite

Sh - maroon-medium gray, soft, blocky, some forming sticky clumps

Lm - bright white, medxn, chalky in part, brittle

Lm - cream-bright white, fossiliferous, brittle, hard

Sh - maroon-light gray, soft, blocky

CONGLOMERATE SPL 3401 (-1453) ELOG 3400 (-1452)

Cong - mixture of various Lm's, Dolomites, colored cherts, and shales

Cong - A/A

Ss - very fine grained, well sorted, well rounded, sucrosic, friable, clean and barren

Cong - A/A

Sh - maroon, soft, sticky, increasing red wash

Cong - A/A

ARBUCKLE ELOG 3454 (-1452)

Dolo - cream-tan, medxn, hard, clean and barren

Dolo - tan, fn-medxn, well developed rhombic xtals, clean and barren

Dolo - cream, fn-medxn, hard, no shows, no odor

Dolo - cream-salmon pink, fn-medxn, clean and barren

Dolo - tan, fnxn, no shows, cherty

RTD 3500 (-1552) ELOG 3496 (-1548)

MUD WT 9.0
VIS 50
LCM 1#

MUD WT 9.1
VIS 51
LCM 2#



DRILL STEM TEST REPORT

Prepared For: **Sandin Oil Corporation**

621 17th Street Suite 2005
Denver , Colorado 80293-2001

ATTN: Steve Reed

Cheney #1

24-8s-17w Rooks

Start Date: 2015.04.26 @ 00:00:00

End Date: 2015.04.26 @ 00:00:00

Job Ticket #: 01028 DST #: 1

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2015.04.26 @ 05:02:34



DRILL STEM TEST REPORT

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver, Colorado 80293-2001
 ATTN: Steve Reed

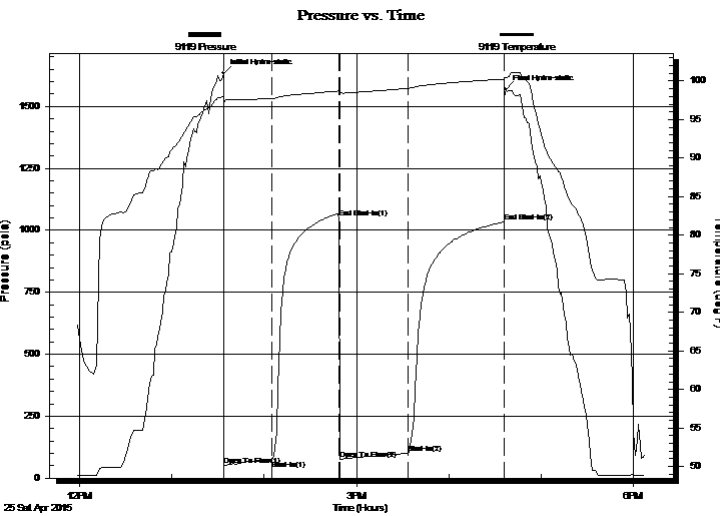
24-8s-17w Rooks
Cheney #1
 Job Ticket: 01028 **DST#: 1**
 Test Start: 2015.04.26 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3226.00 ft (KB) To 3275.00 ft (KB) (TVD)**
 Total Depth: 3275.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: #1
 Reference Elevations: 1948.00 ft (KB)
 1942.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 9119 Outside
 Press@RunDepth: 1034.17 psia @ 3270.37 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.04.25 End Date: 2015.04.25 Last Calib.: 2015.04.26
 Start Time: 11:58:00 End Time: 18:07:30 Time On Btm: 2015.04.25 @ 13:33:30
 Time Off Btm: 2015.04.25 @ 16:37:00

TEST COMMENT: 1st Opening 30 Minutes-Weak building blow built to 9 inches into the water
 1st Shut-In 45 Minutes- No blow back
 2nd Opening 45 Minutes-Weak building blow built to 11 inches into the water
 2nd Shut-In 60 Minutes- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1634.12	97.95	Initial Hydro-static
1	50.08	97.20	Open To Flow (1)
32	73.35	97.73	Shut-In(1)
75	1049.24	98.69	End Shut-In(1)
76	77.55	98.44	Open To Flow (2)
120	100.56	99.05	Shut-In(2)
182	1034.17	100.25	End Shut-In(2)
184	1569.66	100.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Thick heavy oil cut muddy w ater	0.84
0.00	50%Mud 30%Water 20%Oil	0.00
40.00	Thick heavy oil cut mud 80% Mud 20% Oil	0.56
20.00	Clean oil	0.28
0.00	Chlorides 14,000	0.00

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver, Colorado 80293-2001
 ATTN: Steve Reed

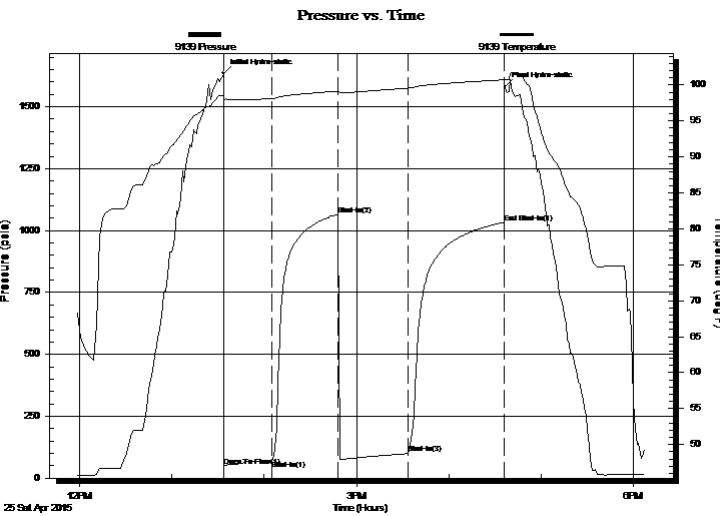
24-8s-17w Rooks
Cheney #1
 Job Ticket: 01028 **DST#: 1**
 Test Start: 2015.04.26 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3226.00 ft (KB) To 3275.00 ft (KB) (TVD)**
 Total Depth: 3275.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: #1
 Reference Elevations: 1948.00 ft (KB)
 1942.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 9139 Inside
 Press@RunDepth: 1032.44 psia @ 3270.37 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.04.25 End Date: 2015.04.25 Last Calib.: 2015.04.26
 Start Time: 11:58:00 End Time: 18:07:30 Time On Btm: 2015.04.25 @ 13:33:30
 Time Off Btm: 2015.04.25 @ 16:36:30

TEST COMMENT: 1st Opening 30 Minutes-Weak building blow built to 9 inches into the water
 1st Shut-In 45 Minutes- No blow back
 2nd Opening 45 Minutes-Weak building blow built to 11 inches into the water
 2nd Shut-In 60 Minutes- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1635.45	98.50	Initial Hydro-static
1	49.14	97.90	Open To Flow (1)
32	72.14	98.13	Shut-In(1)
75	1065.55	99.16	Shut-In(2)
120	99.41	99.58	Shut-In(3)
182	1032.44	100.72	End Shut-In(1)
183	1582.35	100.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Thick heavy oil cut muddy w ater	0.84
0.00	50%Mud 30%Water 20%Oil	0.00
40.00	Thick heavy oil cut mud 80% Mud 20% Oil	0.56
20.00	Clean oil	0.28
0.00	Chlorides 14,000	0.00

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver, Colorado 80293-2001
 ATTN: Steve Reed

24-8s-17w Rooks
Cheney #1
 Job Ticket: 01028 **DST#: 1**
 Test Start: 2015.04.26 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3223.00 ft	Diameter: 3.80 inches	Volume: 45.21 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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: 52000.00 lb
			Total Volume: 45.21 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3226.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.37 ft			
Tool Length:	78.37 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			3202.00	
Hydraulic tool	5.00			3207.00	
Jars	7.00			3214.00	
Safety Joint	2.00		Fluid	3216.00	
Top Packer	5.00			3221.00	
Packer	5.00			3226.00	29.00 Bottom Of Top Packer
Anchor	5.00			3231.00	
Change Over Sub	0.75		Inside	3231.75	
Drill Pipe	31.87			3263.62	
Change Over Sub	0.75			3264.37	
Anchor	6.00			3270.37	
Recorder	0.00	9139	Inside	3270.37	
Recorder	0.00	9119	Outside	3270.37	
Bullnose	5.00			3275.37	49.37 Anchor Tool

Total Tool Length: 78.37



DRILL STEM TEST REPORT

FLUID SUMMARY

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver , Colorado 80293-2001
 ATTN: Steve Reed

24-8s-17w Rooks
Cheney #1
 Job Ticket: 01028 **DST#: 1**
 Test Start: 2015.04.26 @ 00:00:00

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:	14000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1800.00 ppm			
Filter Cake: 1.00 inches			

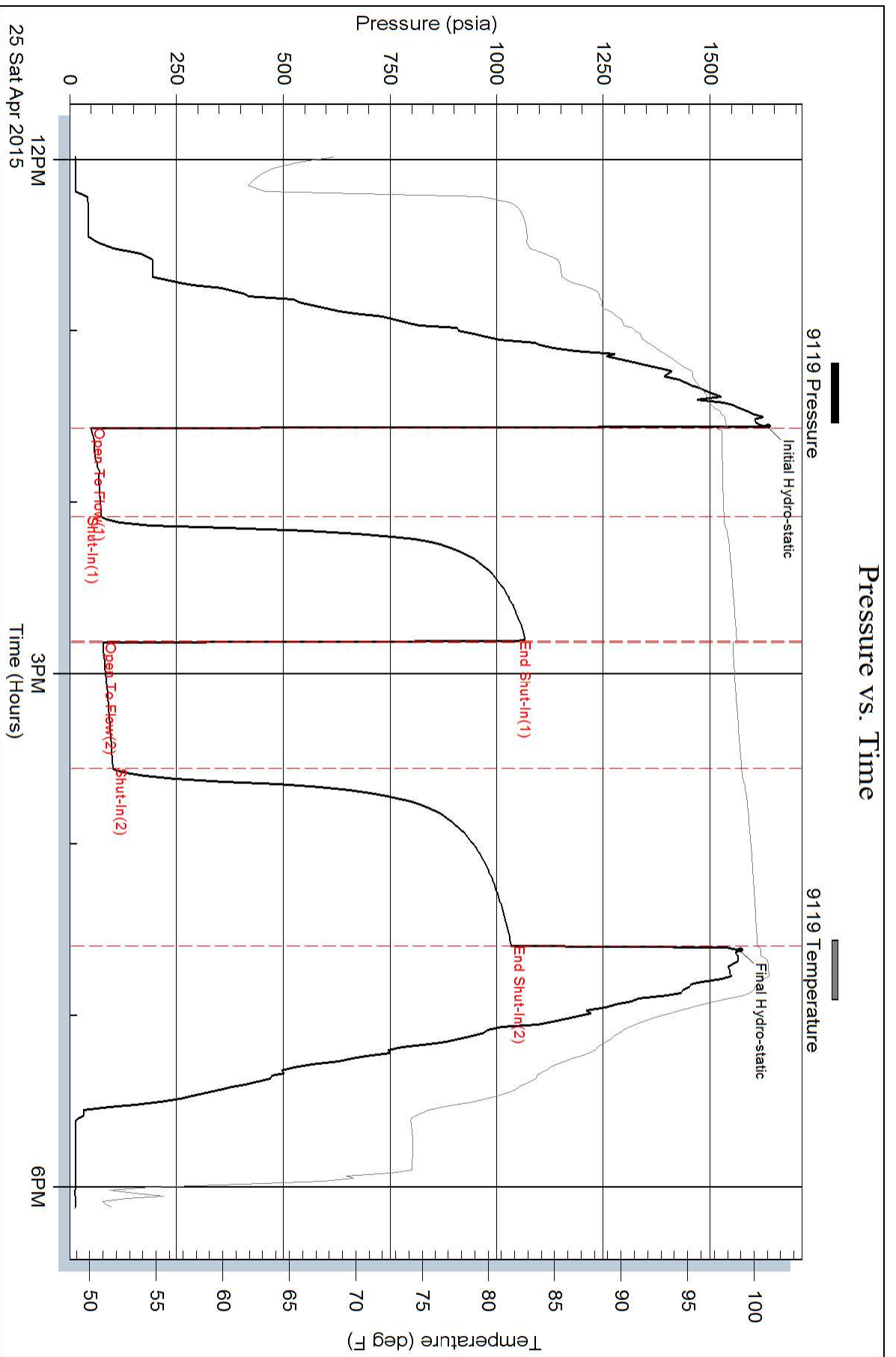
Recovery Information

Recovery Table

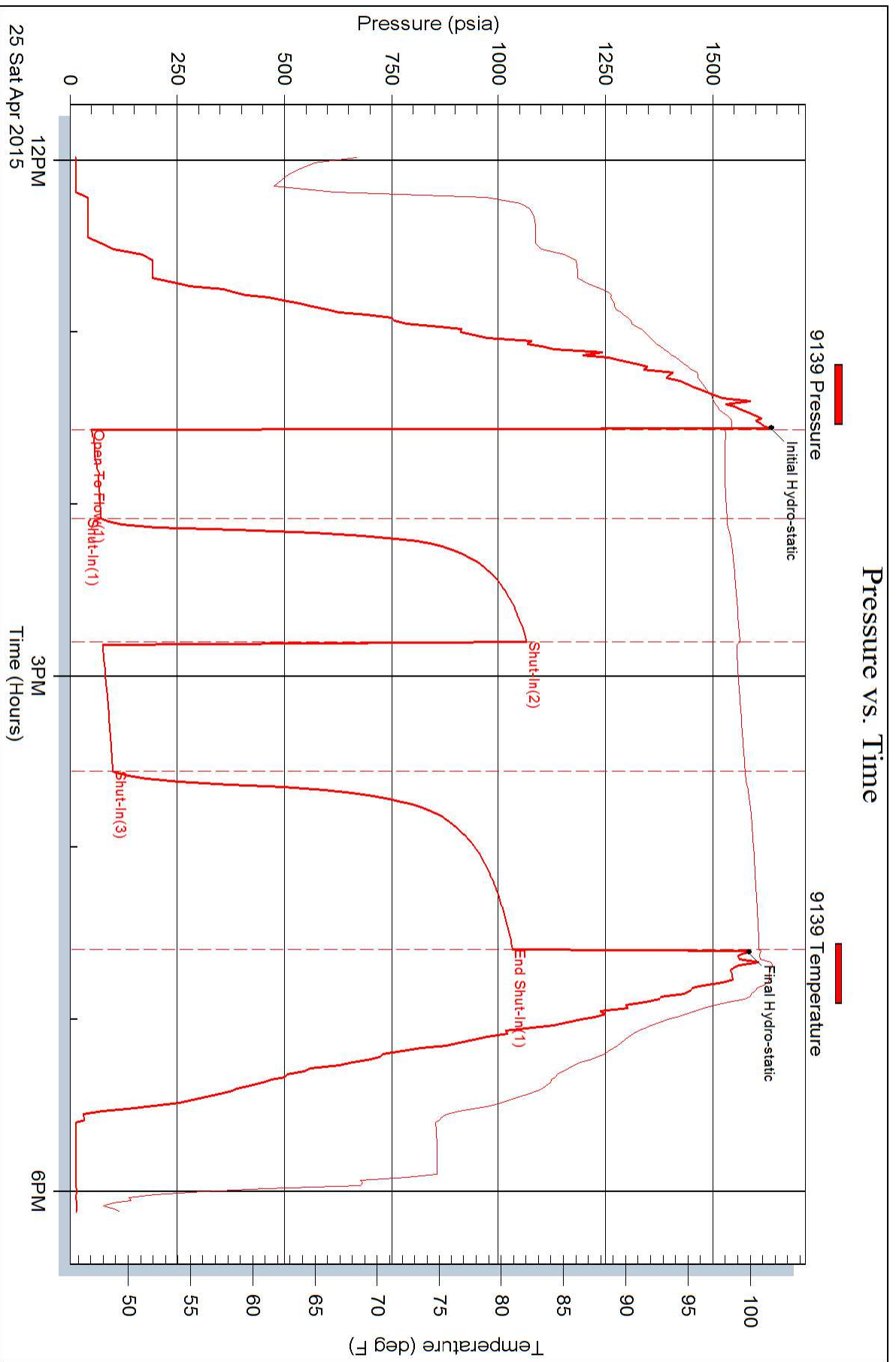
Length ft	Description	Volume bbl
60.00	Thick heavy oil cut muddy w ater	0.842
0.00	50%Mud 30%Water 20%Oil	0.000
40.00	Thick heavy oil cut mud 80% Miud 20%Oil	0.561
20.00	Clean oil	0.281
0.00	Chlorides 14,000	0.000

Total Length: 120.00 ft Total Volume: 1.684 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Sandin Oil Corporation**

621 17th Street Suite 2005
Denver , Colorado 80293-2001

ATTN: Steve Reed

Cheney #1

24-8s-17w Rooks

Start Date: 2015.04.27 @ 00:00:00

End Date: 2015.04.27 @ 00:00:00

Job Ticket #: 01029 DST #: 2

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2015.04.27 @ 07:20:16



DRILL STEM TEST REPORT

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver, Colorado 80293-2001
 ATTN: Steve Reed

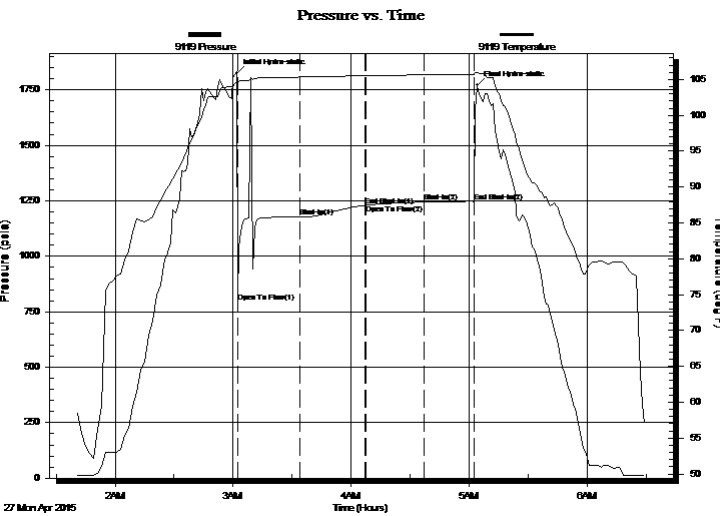
24-8s-17w Rooks
Cheney #1
 Job Ticket: 01029 **DST#: 2**
 Test Start: 2015.04.27 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "J" -Arb**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3266.00 ft (KB) To 3296.00 ft (KB) (TVD)**
 Total Depth: 3296.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Bujdig
 Unit No: 1
 Reference Elevations: 1948.00 ft (KB)
 1942.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 1247.90 psia @ 3571.98 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.04.27 End Date: 2015.04.27 Last Calib.: 2015.04.27
 Start Time: 01:40:00 End Time: 06:29:30 Time On Btm: 2015.04.27 @ 03:02:00
 Time Off Btm: 2015.04.27 @ 05:04:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow for 19 Minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 30 Minutes-No blow
 2nd Shut-In 30 Minutes- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1825.21	104.64	Initial Hydro-static
1	796.29	104.55	Open To Flow (1)
32	1177.14	105.33	Shut-In(1)
65	1229.09	105.51	End Shut-In(1)
66	1230.09	105.52	Open To Flow (2)
95	1245.42	105.65	Shut-In(2)
121	1247.90	105.75	End Shut-In(2)
122	1770.65	105.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling	0.56

Gas Rates

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



DRILL STEM TEST REPORT

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver, Colorado 80293-2001
 ATTN: Steve Reed

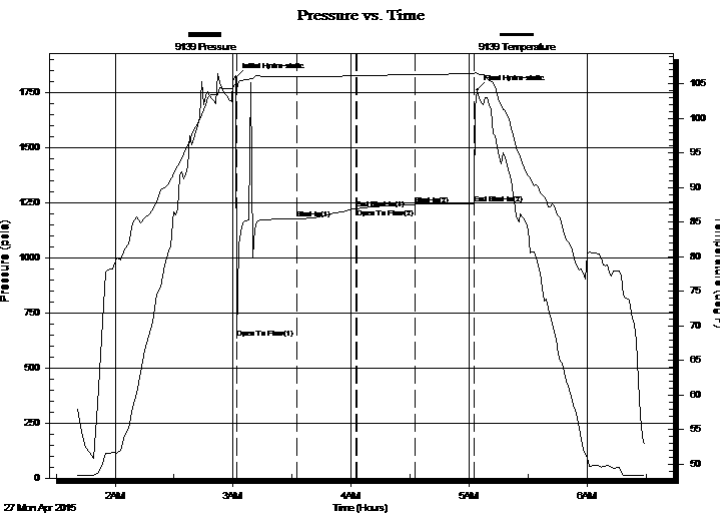
24-8s-17w Rooks
Cheney #1
 Job Ticket: 01029 **DST#: 2**
 Test Start: 2015.04.27 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "J" -Arb**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3266.00 ft (KB) To 3296.00 ft (KB) (TVD)**
 Total Depth: 3296.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Bujdig
 Unit No: 1
 Reference Elevations: 1948.00 ft (KB)
 1942.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 1247.08 psia @ 3571.98 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.04.27 End Date: 2015.04.27 Last Calib.: 2015.04.27
 Start Time: 01:40:00 End Time: 06:29:30 Time On Btm: 2015.04.27 @ 03:01:30
 Time Off Btm: 2015.04.27 @ 05:04:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow for 19 Minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 30 Minutes-No blow
 2nd Shut-In 30 Minutes- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1821.12	105.02	Initial Hydro-static
1	634.79	104.29	Open To Flow (1)
31	1176.67	106.10	Shut-In(1)
61	1222.95	106.17	End Shut-In(1)
62	1223.61	106.17	Open To Flow (2)
91	1242.36	106.33	Shut-In(2)
121	1247.08	106.47	End Shut-In(2)
123	1763.19	106.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling	0.56

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver , Colorado 80293-2001
 ATTN: Steve Reed

24-8s-17w Rooks
Cheney #1
 Job Ticket: 01029 **DST#: 2**
 Test Start: 2015.04.27 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3257.00 ft	Diameter: 3.80 inches	Volume: 45.69 bbl	Tool Weight:	2000.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	52000.00 lb	
			Total Volume:	45.69 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	44000.00 lb	
Depth to Top Packer:	3266.00 ft			Final	44000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	805.98 ft					
Tool Length:	825.98 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			3251.00	
Hydraulic tool	5.00			3256.00	
Top Packer	5.00			3261.00	
Packer	5.00			3266.00	20.00 Bottom Of Top Packer
Anchor	5.00			3271.00	
Change Over Sub	75.00			3346.00	
Drill Pipe	190.23			3536.23	
Change Over Sub	0.75			3536.98	
Anchor	35.00			3571.98	
Recorder	0.00	9119	Inside	3571.98	
Recorder	0.00	9139	Outside	3571.98	
Bullnose	500.00			4071.98	805.98 Anchor Tool

Total Tool Length: 825.98



DRILL STEM TEST REPORT

FLUID SUMMARY

Sandin Oil Corporation
 621 17th Street Suite 2005
 Denver , Colorado 80293-2001
 ATTN: Steve Reed

24-8s-17w Rooks
Cheney #1
 Job Ticket: 01029 **DST#: 2**
 Test Start: 2015.04.27 @ 00:00:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

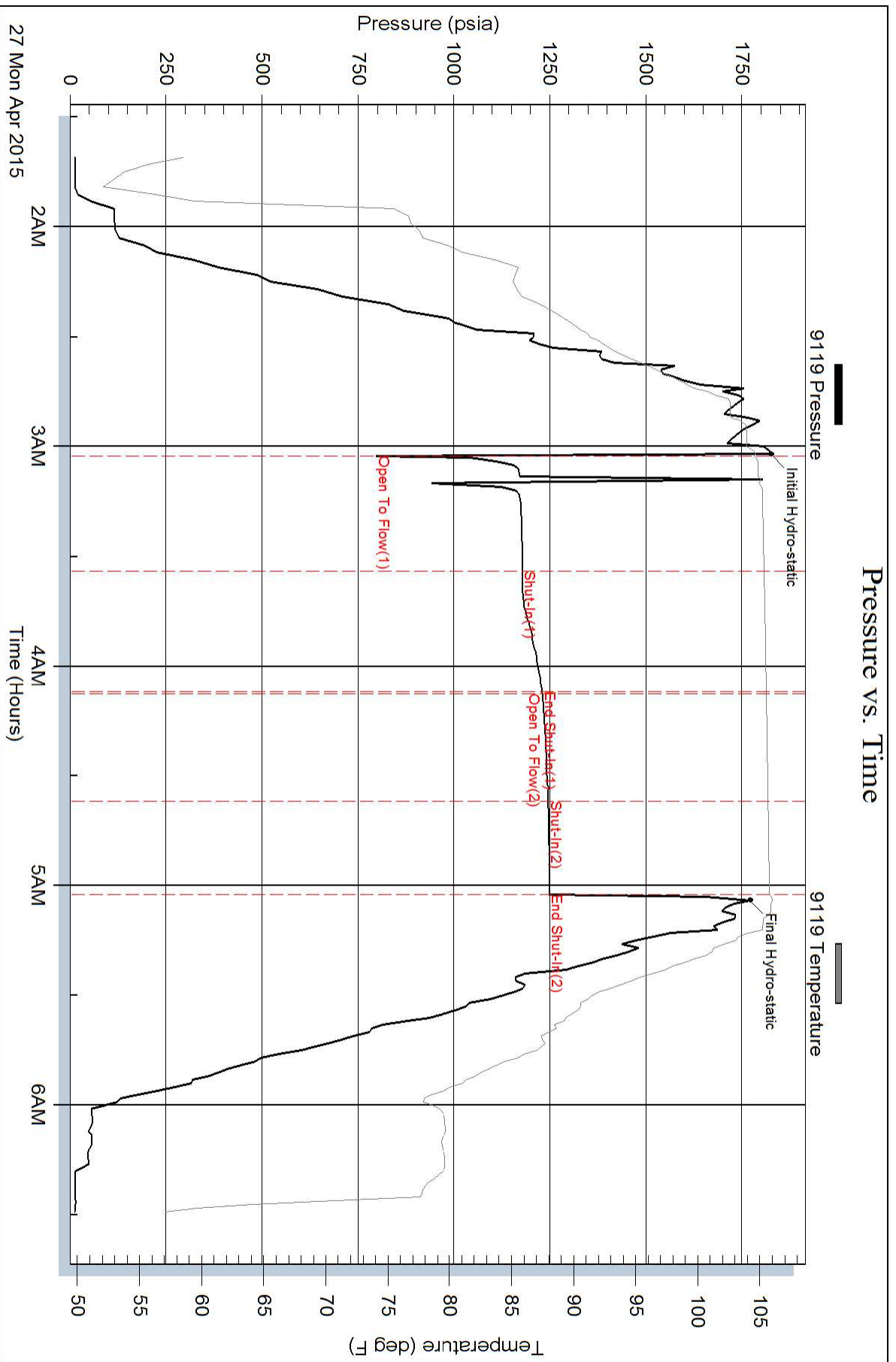
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drilling	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time

