



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1215568
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: _____



1215568

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
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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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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: _____ _____
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Form	ACO1 - Well Completion
Operator	Sandlin Oil Corporation
Well Name	Brown Etal 1
Doc ID	1215568

Tops

Name	Top	Datum
ANHYDRITE	1248	+815
TOPEKA	2938	-875
HEEBNER SHALE	3169	-1106
TORONTO	3186	-1123
LKC	3210	-1147
BKC	3454	-1391
ARBUCKLE	3532	-1469
RTD	3645	-1582

OPERATOR

Company: SANDLIN OIL CORPORATION
 Address: 621 17TH ST STE 2055
 DENVER, COLORADO
 80293-2001
 Contact Geologist: GARY SANDLIN
 Contact Phone Nbr: 303-292-3313
 Well Name: BROWN ETAL #1
 Location: SW NE SW NE S17 T10S R16W
 API: 15-163-24,233-00-00
 Pool:
 State: KANSAS
 Field: WILDCAT
 Country: USA

Scale 1:240 Imperial

Well Name: BROWN ETAL #1
 Surface Location: SW NE SW NE S17 T10S R16W
 Bottom Location:
 API: 15-163-24,233-00-00
 License Number: 6677
 Spud Date: 7/11/2014 Time: 2:28 PM
 Region: ROOKS COUNTY
 Drilling Completed: 7/18/2014 Time: 6:00 AM
 Surface Coordinates: 1800 FNL & 1825 FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2057.00ft
 K.B. Elevation: 2063.00ft
 Logged Interval: 2900.00ft To: 3650.00ft
 Total Depth: 3650.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: CHEMICAL / FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.1286511
 Latitude: 39.1857911
 N/S Co-ord: 1800 FNL
 E/W Co-ord: 1825 FEL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601
 Phone Nbr: (785) 639-1337
 Logged By: GEOLOGIST Name: STEVE REED / HERB DEINES

CONTRACTOR

Contractor: ROYAL DRILLING, INC.
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 7/11/2014 Time: 2:28 PM
 TD Date: 7/18/2014 Time: 6:00 AM
 Rig Release: 7/19/2014 Time: 12:00 PM

ELEVATIONS

K.B. Elevation: 2063.00ft Ground Elevation: 2057.00ft
 K.B. to Ground: 6.00ft

NOTES

FOLLOWING THE POSITIVE RESULTS OF DST #3 THE DECISION WAS MADE TO SET PRODUCTION CASING TO FURTHER TEST POTENTIAL TOPEKA ZONES. THE BROWN ETAL #1 RAN STRUCTURALLY VERY HIGH TO SURROUNDING WELLS, THIS PROVED A SEISMIC SUCCESS. THE HIGH STRUCTURE AND CLOSURE GIVES

THIS WELL CONSIDERABLE ADVANTAGE IN THIN ZONES. ALL NOTED OIL SHOWS SHOULD BE TREATED AS POTENTIAL ZONES AND TESTED ACCORDINGLY.

RESPECTFULLY SUBMITTED BY: STEVE REED

OPEN HOLE LOGGING PROVIDED BY: NABORS COMPLETION AND PRODUCTION SERVICES CO:
 DUAL INDUCTION LOG, COMPENSATED NEUTRON/DENSITY POROSITY LOG, AND MICRORESISTIVITY LOGS WERE PERFORMED

DRILL STEM TESTING PROVIDED BY: SUPERIOR TESTERS
 TWO (2) CONVENTIONAL TESTS AND ONE (1) STRADDLE TEST WERE COMPLETED

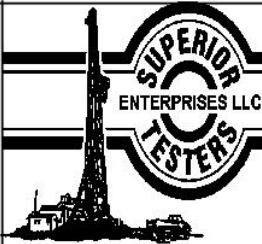
FORMATION TOPS AND DAILY ACTIVITY SUMMARY

	WELL NAME		COMPARISON WELL	COMPARISON WELL
	BROWN ETAL #1		GANOUNG CHAR. A #1-7	DOUGHERTY #1
	API: 15-163-24233		API: 15-163-24160	API: 15-163-20272
FORMATION	SAMPLE TOPS	LOG TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)
ANHYDRITE	1251' (+812)	802' (+964')	+807'	+806'
TOPEKA	2942' (-879')	2938' (-875')	-893'	-908'
HEEBNER	3173' (-1110')	3169' (-1106')	-1123'	-1136'
TORONTO	3193' (-1130')	3186' (-1123')	-1141'	-1155'
LKC	3215' (-1152')	3210' (-1147')	-1163'	-1176'
BKC	3459' (-1396')	3454' (-1391')	-1405'	-1440'
ARBUCKLE	3541' (-1478')	3532' (-1469')	-1537'	-1547'
RTD	3650' (-1587')	3645' (-1582')	-1600'	-1563'

SUMMARY OF DAILY ACTIVITY

- 7-11-14** R.U., spud
- 7-12-14** 650', LOC @ 710, 8 5/8" surface casing set at 1107.39' w/450 sxs 70/30, 2% gel, 3% cc, WOC
- 7-13-14** 1110', drilling
- 7-14-14** 2255', drilling
- 7-15-14** 2975', drilling, LOC @ 3111, 3119, and 3130, plugged bit with hulls, blew Kelly hose, TOWB, CFS @ 3142
- 7-16-14** 3250', drilling, CFS@ 3323, short trip (10 stands), TOWB, strap 3.14 short, survey 1°, DST #1 3312 to 3323, CFS @ 3368, CFS @3386, CFS @ 3410
- 7-17-14** 3410', mini trip (5 stands), CTCH, TOWB, DST #2 3334 to 3410, drilling, CFS @ 3556, TD @ 3650, CFS
- 7-18-14** 3650' mini trip (7 stands), CTCH, TOWB for logs, logging, TIWT, DST #3 straddle 3160 to 3225, prepare to set production casing.
- 7-19-14** release rig

DST #1 SUMMARY

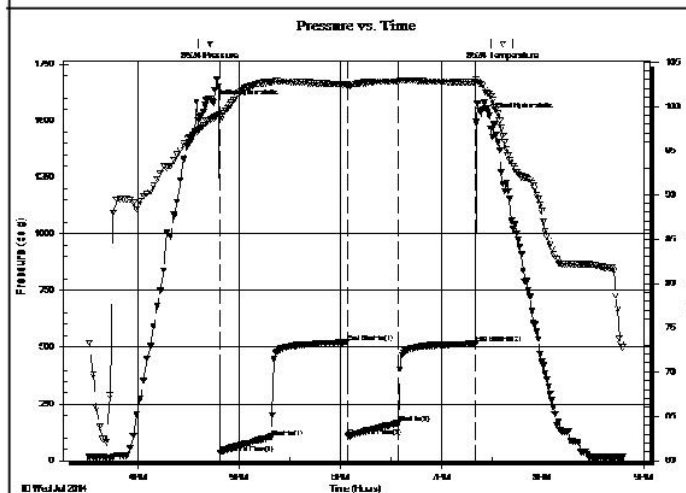
	DRILL STEM TEST REPORT	
	Sandlin Oil Corporation 621 17th St STE 2055 Denver Co, 80293-2001 ATTN: Steve Reed	17/10s/16w/Rooks Brown Etal #1 Job Ticket: 18598 DST#: 1 Test Start: 2014.07.16 @ 15:30:00

GENERAL INFORMATION:

Formation: Kansas City "G" Deviated: No Whipstock: ft (KB) Time Tool Opened: 16:48:30 Time Test Ended: 20:47:30 Interval: 3312.00 ft (KB) To 3323.00 ft (KB) (TVD) Total Depth: 3323.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Poor	Test Type: Conventional Bottom Hole (Initial) Tester: Shane Konzem Unit No: 3330/126/Great Bend Reference Elevations: 2055.00 ft (KB) 2049.00 ft (CF) KB to GR/CF: 6.00 ft
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Serial #: 8524	Inside		
Press@RunDepth:	164.98 psig @	3319.00 ft (KB)	Capacity: 5000.00 psig
Start Date:	2014.07.16	End Date: 2014.07.16	Last Calib.: 2014.07.16
Start Time:	15:31:00	End Time: 20:47:30	Time On Btm: 2014.07.16 @ 16:44:30
			Time Off Btm: 2014.07.16 @ 19:28:30

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 15 minutes and 30 seconds.
 1st Shut In/ 45 Minutes. Weak surface blow back.
 2nd Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 19 minutes and 50 seconds.
 2nd Shut In/ 45 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1579.29	98.62	Initial Hydro-static
4	33.82	98.77	Open To Flow (1)
35	104.94	102.75	Shut-In(1)
80	521.63	102.46	End Shut-In(1)
80	106.79	102.35	Open To Flow (2)
110	164.98	102.86	Shut-In(2)
156	517.27	102.72	End Shut-In(2)
164	1521.94	101.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	382 feet 100% gas	0.00
10.00	100% Clean oil	0.14
30.00	40% Mud, 55% w ater, 5% oil	0.42
63.00	40% mud, 60% w ater	0.88

Gas Rates

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


63.00	20% mud, 80% w ater	0.88
63.00	10% mud, 90%w ater	0.88

Superior Testers Enterprises LLC

Ref. No: 18598

Printed: 2014.07.16 @ 22:21:57

DST #2 SUMMARY

	DRILL STEM TEST REPORT	
	Sandlin Oil Corporation 621 17th St STE 2055 Denver Co, 80293-2001 ATTN: Steve Reed	17/10s/16w/Rooks Brown Etal #1 Job Ticket: 18599 DST#: 2 Test Start: 2014.07.17 @ 09:50:00

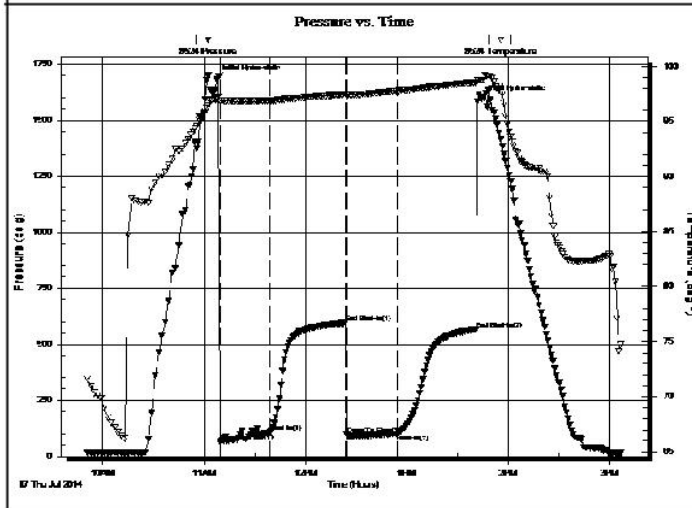
GENERAL INFORMATION:

Formation: **Kansas City "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:09:30
 Time Test Ended: 15:06:30
 Interval: **3334.00 ft (KB) To 3410.00 ft (KB) (TVD)**
 Total Depth: 3410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/126/Great Bend
 Reference Elevations: 2055.00 ft (KB)
 2049.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8524

Press@RunDepth: 101.57 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.17 End Date: 2014.07.17 Last Calib.: 2014.07.17
 Start Time: 09:51:00 End Time: 15:06:30 Time On Btm: 2014.07.17 @ 11:07:30
 Time Off Btm: 2014.07.17 @ 13:44:30

TEST COMMENT: 1st Open/ 30 Min utes. Fair blow built to 6 inches into bucket of water.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 30 Minutes. Fair blow built to 5 inches into bucket of water.
 2nd Shut In/ 45 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.34	97.05	Initial Hydro-static
2	65.70	96.91	Open To Flow (1)
32	107.09	96.88	Shut-In(1)
76	594.55	97.47	End Shut-In(1)
77	94.35	97.36	Open To Flow (2)
107	101.57	97.77	Shut-In(2)
154	567.66	98.53	End Shut-In(2)
157	1596.35	98.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% clean oil	0.01
29.00	Gassy oil, cut Mud	0.41
0.00	10% Gas, 17.5% Oil, 70% Mud, 2.5% w a	0.00
63.00	Oil cut watery mud	0.88
0.00	2.5% Oil, 65% Mud, 65% Mud	0.00

Gas Rates

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


0.00	Chloride recov, 28000 ppm	0.00
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Superior Testers Enterprises LLC

Ref. No: 18599

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DST #3 SUMMARY

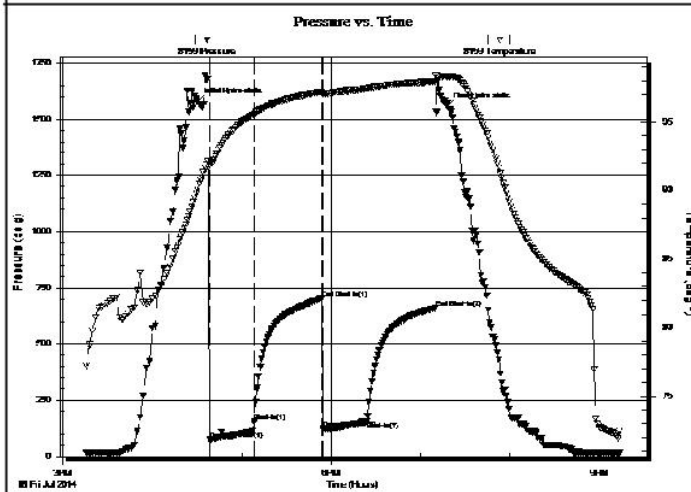
	DRILL STEM TEST REPORT	
	Sandlin Oil Corporation 621 17th St STE 2055 Denver Co, 80293-2001 ATTN: Steve Reed	17/10s/16w/Rooks Brown Etal #1 Job Ticket: 18600 DST#: 3 Test Start: 2014.07.18 @ 15:15:00

GENERAL INFORMATION:

Formation: Toronto	Test Type: Conventional Straddle (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Shane Konzem
Time Tool Opened: 16:38:30	Unit No: 3330/126/Great Bend
Time Test Ended: 21:14:00	Reference Elevations: 2055.00 ft (KB)
Interval: 3160.00 ft (KB) To 3225.00 ft (KB) (TVD)	2049.00 ft (CF)
Total Depth: 3645.00 ft (KB) (TVD)	KB to GR/CF: 6.00 ft
Hole Diameter: 7.88 inches Hole Condition: Poor	

Serial #: 8159 Inside	Capacity: 5000.00 psig
Press@RunDepth: 154.63 psig @ 3223.35 ft (KB)	Last Calib.: 2014.07.18
Start Date: 2014.07.18 End Date: 2014.07.18	Time On Btm: 2014.07.18 @ 16:30:30
Start Time: 15:15:00 End Time: 21:14:00	Time Off Btm: 2014.07.18 @ 19:17:30

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 8 minutes.
 1st Shut In/ 45 Minutes. Weak surface blow back.
 2nd Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 3 minutes and 30 seconds.
 2nd Shut In/ 45 Minutes. weak surface blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.88	90.15	Initial Hydro-static
8	75.43	91.88	Open To Flow (1)
38	153.57	95.59	Shut-In(1)
84	704.09	97.18	End Shut-In(1)
84	123.98	97.04	Open To Flow (2)
114	154.63	97.42	Shut-In(2)
160	659.92	97.93	End Shut-In(2)
167	1557.12	98.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1850 foot 100% Gas	0.00
262.00	100% Clean gassy oil	3.68
0.00	Oil gravity was 40 corrected	0.00

Gas Rates

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

DST #3 PRESSURE VS TIME CHART

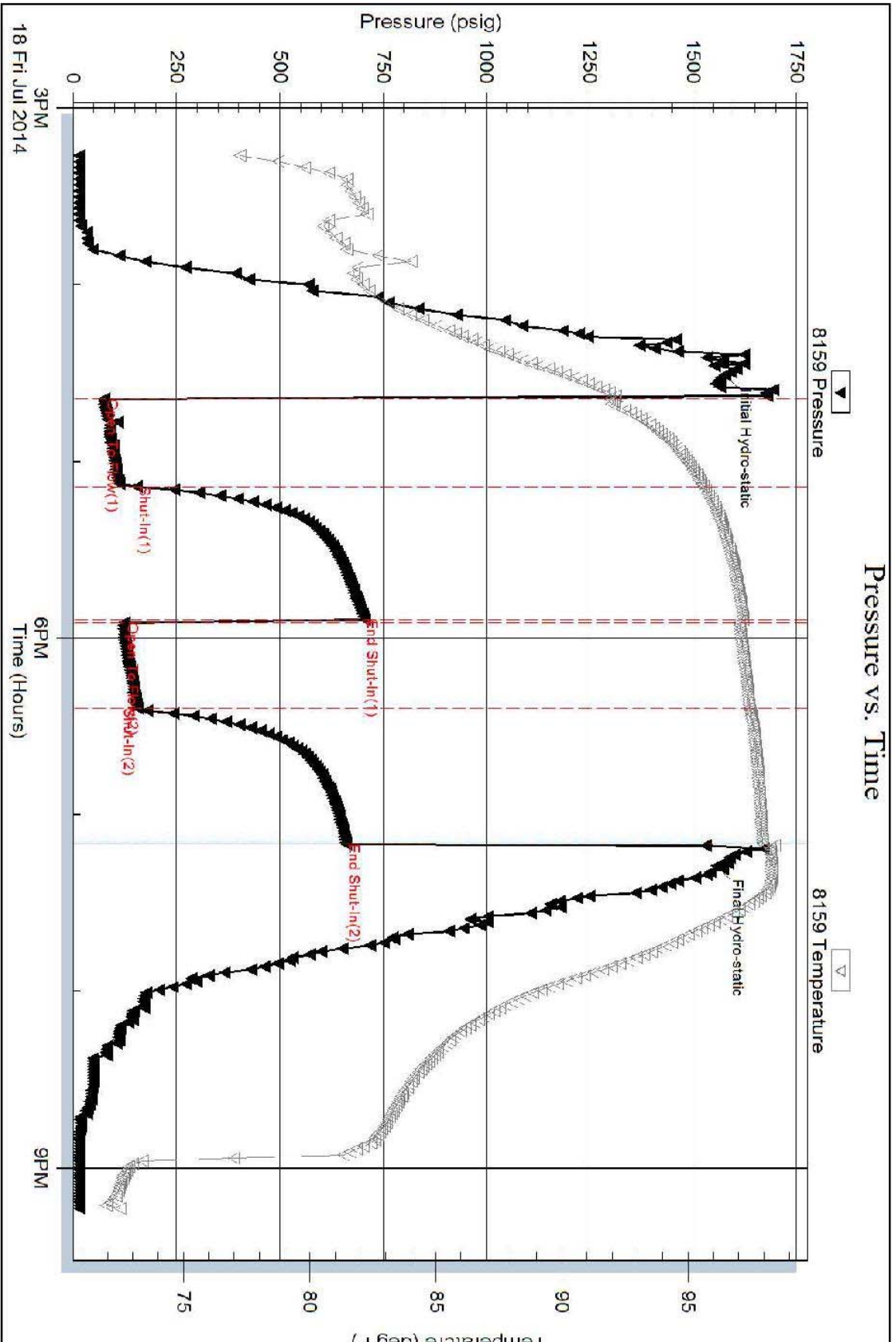
Serial #: 8159

Inside

Sandlin Oil Corporation

Brown Bal #1

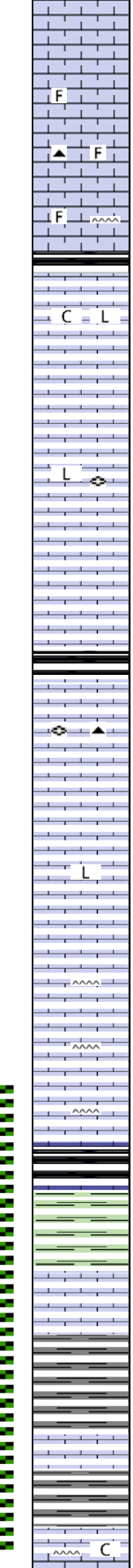
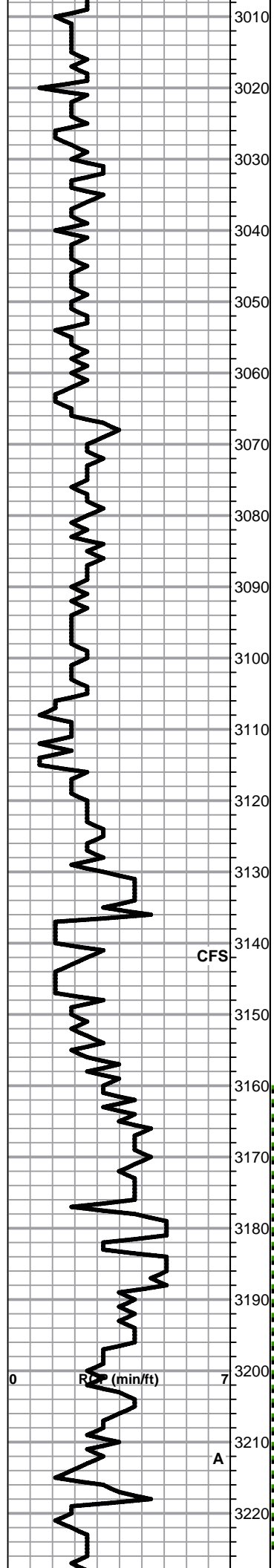
DST Test Number: 3



Superior Testers Enterprises LLC

Ref. No: 18600

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Lm - tan-light brown, fnxln with fossil fragments, mottled, dense, brittle, no shows

Lm - tan-cream, fnxln, slightly fossiliferous, brittle

Lm - tan-light gray, fnxln, dense, brittle, black fossiliferous chert

Lm - light gray, fossiliferous, brittle, cherty

Sh - black, carbonaceous, waxy, soft

Lm - tan, fnxln to lithographic in part, slightly chalky

Sh - medium gray, soft, fissile

Lm - tan-cream, vfxln to lithographic in some, dense, hard, brittle, fusilinids, bedded chalk in part

Lm - cream, vfxln, dense, very hard, bedded chalk, pyrite

Lm - cream, vfxln to lithographic, dense, brittle, bedded chalk

Sh - black, carbonaceous, waxy, soft

Lm - cream-light brown, fnxln, brittle, fusilinids, brown opaque chert

Lm - light brown-tan, fnxln, slightly fossiliferous, bedded chalk in part

Lm - medium brown, lithographic, dense, very hard

Lm - cream-light brown, slightly fossiliferous, granular, friable, no odor, no shows

Lm - tan-light brown, fine pinpoint porosity with light scattered stain, slight SFO upon crush, faint odor, slightly cherty

Lm - offwhite, vfxln, dense, hard, bedded chalk, cherty

Lm - light brown, fine interxln porosity, dense, very hard, cherty

HEEBNER SPL 3173 (-1110) ELOG 3169 (-1106)
 Sh - black, carbonaceous, waxy, fissile

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

TORONTO SPL 3193 (-1130) ELOG 3186 (-1123)
 Lm - bright white, fnxln, some chips with saturated light brown stain, fine pinpoint porosity with scattered vugs, strong streaming wet cut under UV light, NSFO, no odor

Sh - light gray, soft, blocky

LKC SPL 3215 (-1152) ELOG 3210 (-1147)
 Lm - mostly cream, fnxln, brittle, some with saturated light brown stain, fine pinpoint porosity, SFO upon crush, questionable odor

Lm - cream-tan, fnxln, brittle, cherty, chalky

MUD WT. 8.8
 VIS. 60
 LCM 1.5#

losing circulation, mix mud

losing circulation, mix mud

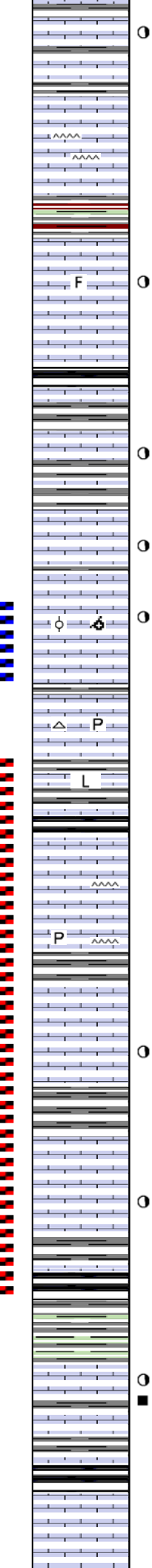
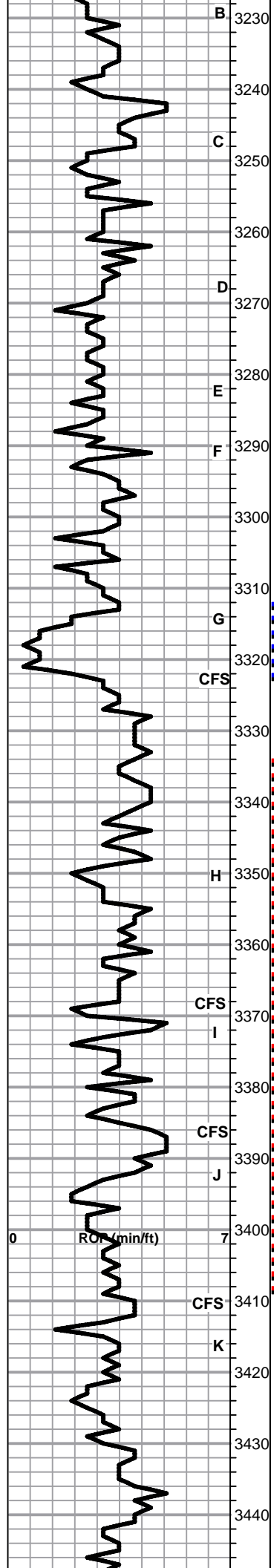
losing circulation, mix mud plugged bit, blew kelly hose

DST #3 STRADDLE
 3160 TO 3225
 SEE HEADER FOR TEST SUMMARY

CFS

R_{sp} (min/ft)

A



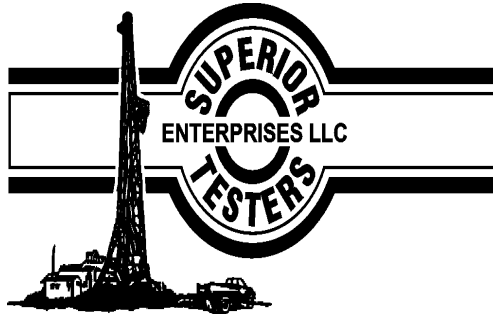
- B** 3230 **O** Lm - cream-light brown, vfxln, dense, hard, some rare pinpoint porosity with scattered stain, NSFO, no odor
- 3240
- C** 3250 Lm - cream-light brown, fnxln, bedded chalk, cherty, no shows
- 3260 Sh - medium gray/maroon/green, soft, blocky
- D** 3270 **O** Lm - offwhite, fossiliferous, scattered light brown stain, fine interxln porosity, NSFO, UV fluorescence, faint odor
- 3280 Sh - black, carbonaceous, waxy, soft
- E**
- F** 3290 **O** Lm - buff-tan, vfxln, hard, scattered pinpoint porosity with slight scattered stain, NSFO, no odor
- 3300 Sh - dark gray, soft, fissile
- O** Lm - cream-tan, fnxln, brittle, some scattered pinpoint porosity with slight staining, NSFO, no odor
- 3310
- G** 3320 **O** Lm - cream, oolitic/oomoldic with fine interxln porosity slightly vuggy with slight scattered stain, SFO upon crush, fair odor, strong streaming wet cut.
- CFS** 3330 Lm - cream-tan, microxln, dense, very hard, white chert, pyrite, clean and barren
- 3340 **L** Lm - cream, lithographic, dense, hard, brittle
- Sh - dark gray-black, carbonaceous, fissile, waxy
- H** 3350 Lm - light-medium brown, microxln, dense, hard, cherty
- 3360 **P** Lm - light brown-cream, microxln, very hard, pyrite specks, no shows, cherty
- Lm - tan, vfxln, very hard, bedded chalk, chert, orange and maroon shales
- CFS** 3370 **I** **O** Lm - cream, slightly fossiliferous, fine interxln porosity with scattered vugs, scattered light golden brown stain, no odor, good streaming wet cut under UV light
- 3380
- CFS** 3390 **J** Lm - cream-light brown, fnxln, hard, brittle
- O** Lm - cream, slightly fossiliferous, fine interxln porosity, slightly scattered stain, SFO in some, good streaming wet cut, faint odor
- 3400
- CFS** 3410 Sh - black, carbonaceous, waxy, fissile
- Sh - greenish gray, soft, blocky
- K** 3420 **O** Lm - cream, fossiliferous, fine interxln porosity, slight scattered golden brown stain, no odor, NSFO, good streaming wet cut, limited total porosity
- 3430
- Sh - black, carbonaceous, firm fissile, copper specks
- 3440 Lm - light gray-light brown, fnxln, brittle, clean and barren

MUD WT. 8.8
VIS. 93
LCM 11#

DST #1 3312 TO 3323
SEE HEADER FOR TEST SUMMARY

DST #2 3334 TO 3410
SEE HEADER FOR TEST SUMMARY

MUD WT. 8.9
VIS. 53
LCM 8#



DRILL STEM TEST REPORT

Prepared For: **Sandlin Oil Corporation**

621 17th St STE 2055
Denver Co, 80293-2001

ATTN: Steve Reed

Brown Etal #1

17/10s/16w/Rooks

Start Date: 2014.07.16 @ 15:30:00

End Date: 2014.07.16 @ 20:47:30

Job Ticket #: 18598 DST #: 1

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

Printed: 2014.07.16 @ 22:21:57



DRILL STEM TEST REPORT

Sandlin Oil Corporation
 621 17th St STE 2055
 Denver Co, 80293-2001
 ATTN: Steve Reed

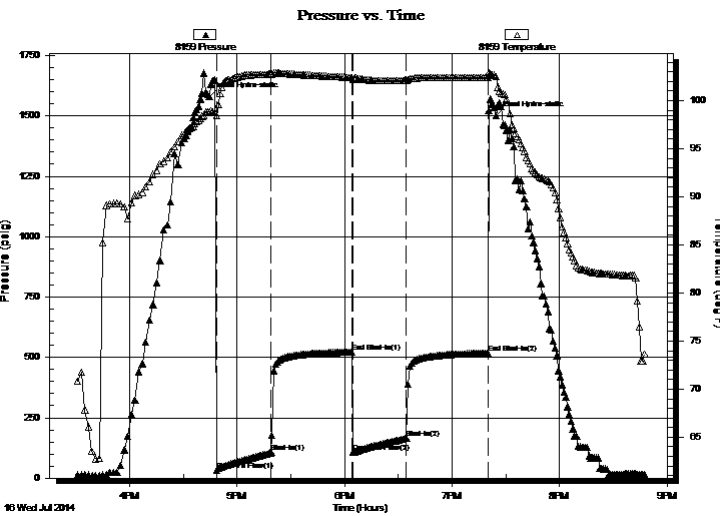
17/10s/16w/Rooks
Brown Etal #1
 Job Ticket: 18598 **DST#: 1**
 Test Start: 2014.07.16 @ 15:30:00

GENERAL INFORMATION:

Formation: **Kansas City "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:48:30
 Time Test Ended: 20:47:30
 Interval: **3312.00 ft (KB) To 3323.00 ft (KB) (TVD)**
 Total Depth: 3323.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/126/Great Bend
 Reference Elevations: 2055.00 ft (KB)
 2049.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8159 Outside
 Press@RunDepth: 518.13 psig @ 3320.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.16 End Date: 2014.07.16 Last Calib.: 2014.07.16
 Start Time: 15:31:00 End Time: 20:47:30 Time On Btm: 2014.07.16 @ 16:44:30
 Time Off Btm: 2014.07.16 @ 19:24:30

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 15 minutes and 30 seconds.
 1st Shut In/ 45 Minutes. Weak surface blow back.
 2nd Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 19 minutes and 50 seconds.
 2nd Shut In/ 45 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.38	98.89	Initial Hydro-static
4	33.73	98.44	Open To Flow (1)
35	105.86	102.77	Shut-In(1)
80	522.56	102.40	End Shut-In(1)
80	107.44	102.23	Open To Flow (2)
110	165.52	102.13	Shut-In(2)
156	518.13	102.38	End Shut-In(2)
160	1499.98	102.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	382 feet 100% gas	0.00
10.00	100% Clean oil	0.14
30.00	40% Mud, 55% water, 5% oil	0.42
63.00	40% mud, 60% water	0.88
63.00	20% mud, 80% water	0.88
63.00	10% mud, 90% water	0.88

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Sandlin Oil Corporation

17/10s/16w/Rooks

621 17th St STE 2055
Denver Co, 80293-2001

Brown Etal #1

Job Ticket: 18598

DST#: 1

ATTN: Steve Reed

Test Start: 2014.07.16 @ 15:30:00

Tool Information

Drill Pipe:	Length: 3299.00 ft	Diameter: 3.80 inches	Volume: 46.28 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 46.28 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3312.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	31.00 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			3297.00	
Hydraulic tool	5.00			3302.00	
Top Packer	5.00			3307.00	
Packer	5.00			3312.00	20.00 Bottom Of Top Packer
Anchor	6.00			3318.00	
Recorder	1.00	8524	Inside	3319.00	
Recorder	1.00	8159	Outside	3320.00	
Bull Plug	3.00			3323.00	11.00 Anchor Tool

Total Tool Length: 31.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Sandlin Oil Corporation

17/10s/16w/Rooks

621 17th St STE 2055
Denver Co, 80293-2001

Brown Etal #1

Job Ticket: 18598

DST#: 1

ATTN: Steve Reed

Test Start: 2014.07.16 @ 15:30:00

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: 93.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	382 feet 100% gas	0.000
10.00	100% Clean oil	0.140
30.00	40% Mud, 55% w ater, 5% oil	0.421
63.00	40% mud, 60% w ater	0.884
63.00	20% mud, 80% w ater	0.884
63.00	10% mud, 90%w ater	0.884
63.00	100% w ater	0.884
0.00	Chloride recov 27000 ppm	0.000
0.00	resist recov .22 ohms at 50 degrees	0.000

Total Length: 292.00 ft Total Volume: 4.097 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

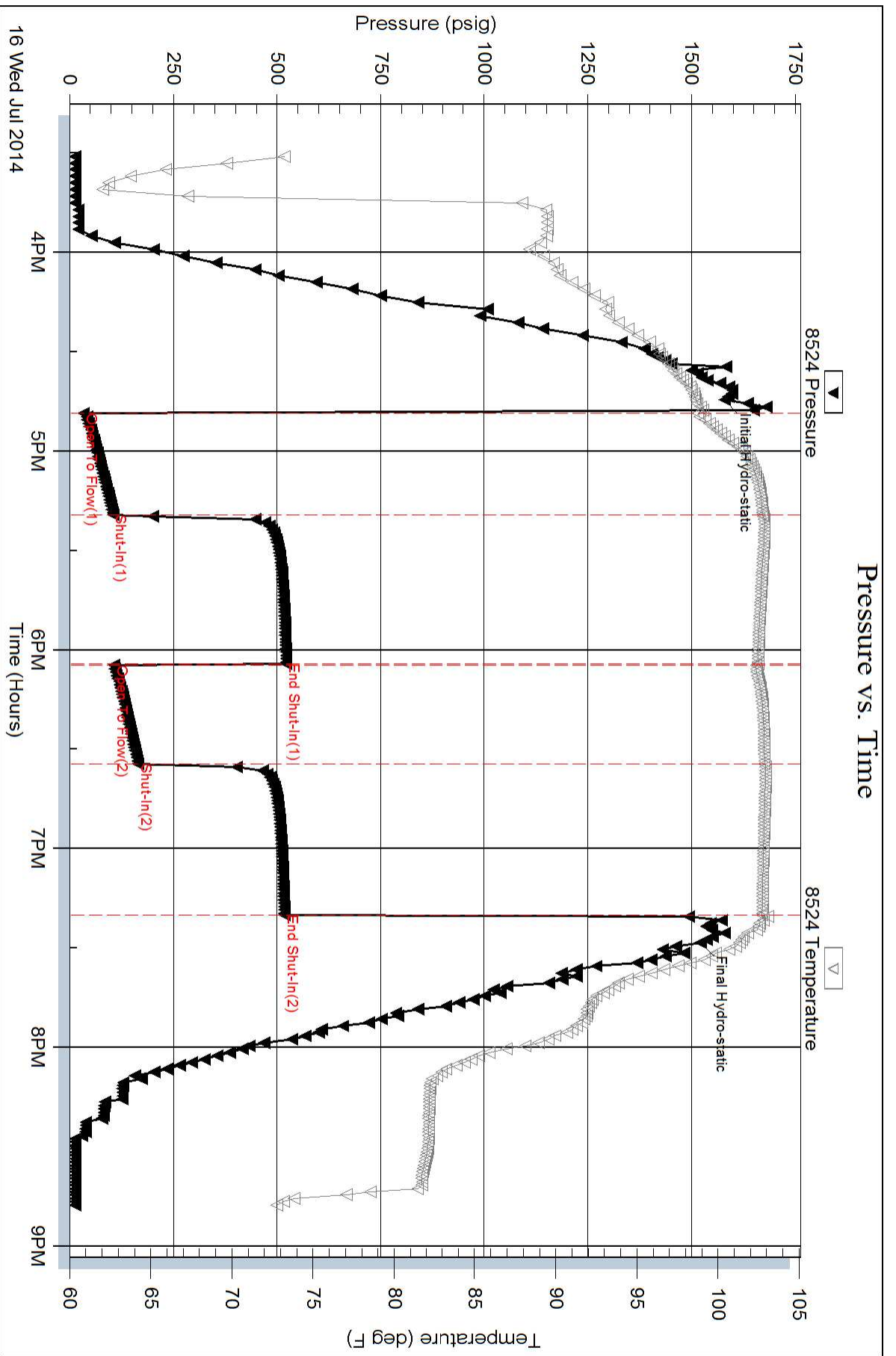
Serial #: 8524

Inside

Sandlin Oil Corporation

Brown Bal #1

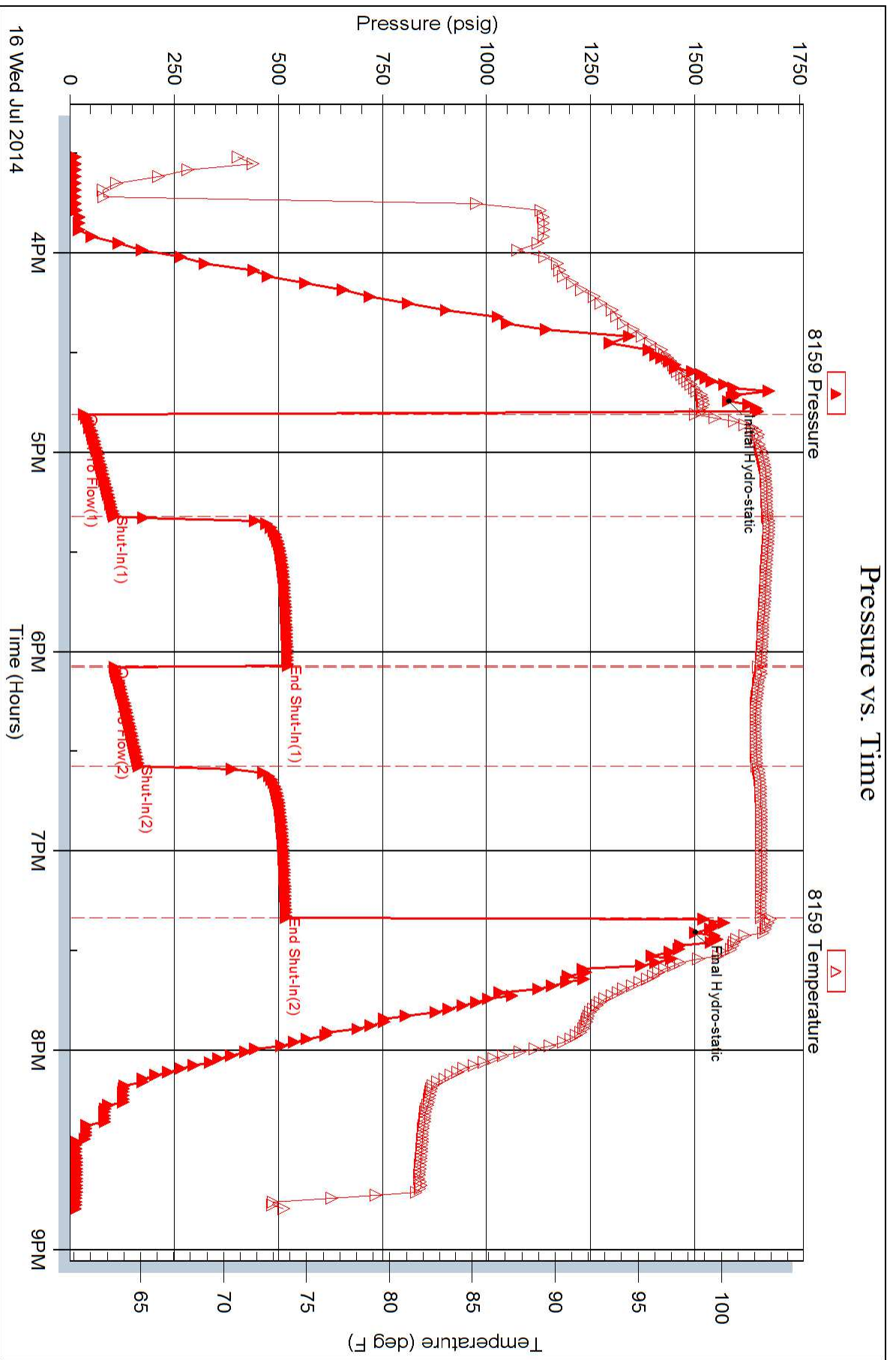
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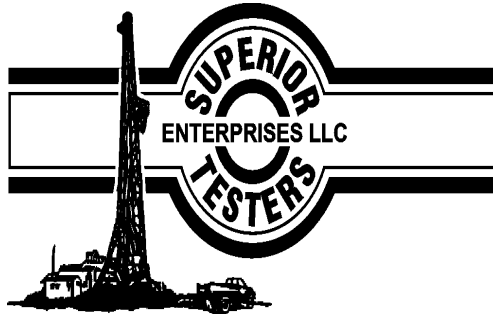


Superior Testers Enterprises LLC

Ref. No: 18598

Printed: 2014.07.16 @ 22:21:57





DRILL STEM TEST REPORT

Prepared For: **Sandlin Oil Corporation**

621 17th St STE 2055
Denver Co, 80293-2001

ATTN: Steve Reed

Brown Etal #1

17/10s/16w/Rooks

Start Date: 2014.07.17 @ 09:50:00

End Date: 2014.07.17 @ 15:06:30

Job Ticket #: 18599 DST #: 2

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

Printed: 2014.07.17 @ 16:50:22



DRILL STEM TEST REPORT

Sandlin Oil Corporation
 621 17th St STE 2055
 Denver Co, 80293-2001
 ATTN: Steve Reed

17/10s/16w/Rooks
Brown Etal #1
 Job Ticket: 18599 **DST#: 2**
 Test Start: 2014.07.17 @ 09:50:00

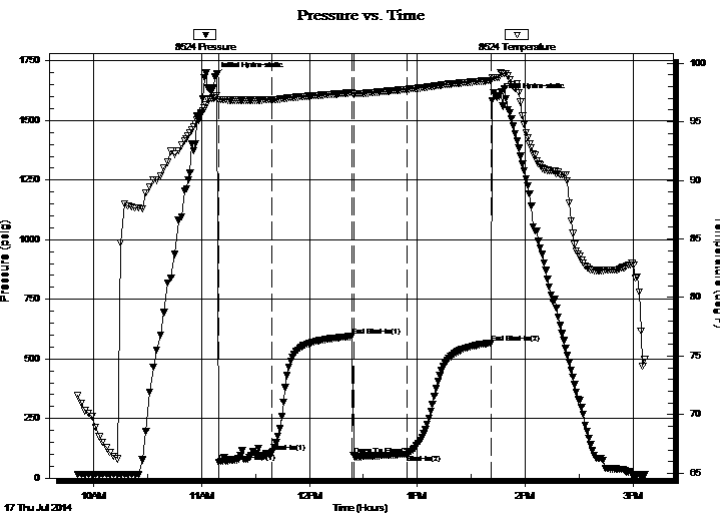
GENERAL INFORMATION:

Formation: **Kansas City "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:09:30
 Time Test Ended: 15:06:30
 Interval: **3334.00 ft (KB) To 3410.00 ft (KB) (TVD)**
 Total Depth: 3410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/126/Great Bend
 Reference Elevations: 2055.00 ft (KB)
 2049.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8524

Press@RunDepth: 101.57 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.17 End Date: 2014.07.17 Last Calib.: 2014.07.17
 Start Time: 09:51:00 End Time: 15:06:30 Time On Btm: 2014.07.17 @ 11:07:30
 Time Off Btm: 2014.07.17 @ 13:44:30

TEST COMMENT: 1st Open/ 30 Min utes. Fair blow built to 6 inches into bucket of w ater.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 30 Minutes. Fair blow built to 5 inches into bucket of w ater.
 2nd Shut In/ 45 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.34	97.05	Initial Hydro-static
2	65.70	96.91	Open To Flow (1)
32	107.09	96.88	Shut-In(1)
76	594.55	97.47	End Shut-In(1)
77	94.35	97.36	Open To Flow (2)
107	101.57	97.77	Shut-In(2)
154	567.66	98.53	End Shut-In(2)
157	1596.35	98.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% clean oil	0.01
29.00	Gassy oil, cut Mud	0.41
0.00	10% Gas, 17.5% Oil, 70% Mud, 2.5% w a	0.00
63.00	Oil cut w atery mud	0.88
0.00	2.5% Oil, 65% Mud, 65% Mud	0.00
0.00	Chloride recov, 28000 ppm	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Sandlin Oil Corporation
 621 17th St STE 2055
 Denver Co, 80293-2001
 ATTN: Steve Reed

17/10s/16w/Rooks
Brown Etal #1
 Job Ticket: 18599 **DST#: 2**
 Test Start: 2014.07.17 @ 09:50:00

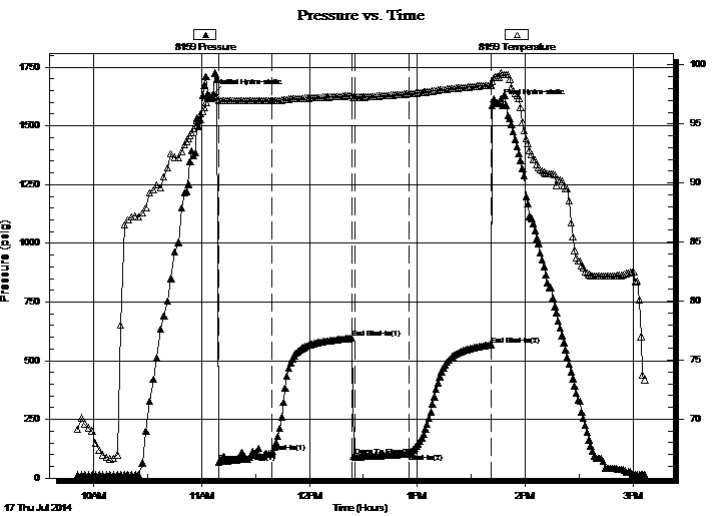
GENERAL INFORMATION:

Formation: **Kansas City "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:09:30
 Time Test Ended: 15:06:30
 Interval: **3334.00 ft (KB) To 3410.00 ft (KB) (TVD)**
 Total Depth: 3410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/126/Great Bend
 Reference Elevations: 2055.00 ft (KB)
 2049.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8159

Press@RunDepth: 568.88 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.17 End Date: 2014.07.17 Last Calib.: 2014.07.17
 Start Time: 09:51:00 End Time: 15:07:00 Time On Btm: 2014.07.17 @ 11:06:30
 Time Off Btm: 2014.07.17 @ 13:44:30

TEST COMMENT: 1st Open/ 30 Min utes. Fair blow built to 6 inches into bucket of w ater.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 30 Minutes. Fair blow built to 5 inches into bucket of w ater.
 2nd Shut In/ 45 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.88	97.25	Initial Hydro-static
3	67.32	96.98	Open To Flow (1)
33	108.67	96.97	Shut-In(1)
77	595.64	97.40	End Shut-In(1)
79	91.45	97.27	Open To Flow (2)
109	107.25	97.56	Shut-In(2)
155	568.88	98.29	End Shut-In(2)
158	1596.86	98.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% clean oil	0.01
29.00	Gassy oil, cut Mud	0.41
0.00	10% Gas, 17.5% Oil, 70% Mud, 2.5% w a	0.00
63.00	Oil cut w atery mud	0.88
0.00	2.5% Oil, 65% Mud, 65% Mud	0.00
0.00	Chloride recov, 28000 ppm	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Sandlin Oil Corporation

17/10s/16w/Rooks

621 17th St STE 2055
Denver Co, 80293-2001

Brown Etal #1

Job Ticket: 18599

DST#: 2

ATTN: Steve Reed

Test Start: 2014.07.17 @ 09:50:00

Tool Information

Drill Pipe:	Length: 3331.00 ft	Diameter: 3.80 inches	Volume: 46.73 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			Total Volume: 46.73 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3334.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.36 ft			
Tool Length:	96.36 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			3319.00	
Hydraulic tool	5.00			3324.00	
Packer	5.00			3329.00	20.00 Bottom Of Top Packer
Packer	5.00			3334.00	
Anchor	5.00			3339.00	
Change Over Sub	0.75			3339.75	
Drill Pipe	31.86			3371.61	
Change Over Sub	0.75			3372.36	
Anchor	33.00			3405.36	
Recorder	1.00	8524	Inside	3406.36	
Recorder	1.00	8159	Outside	3407.36	
Bull Plug	3.00			3410.36	76.36 Bottom Packers & Anchor

Total Tool Length: 96.36



DRILL STEM TEST REPORT

FLUID SUMMARY

Sandlin Oil Corporation

17/10s/16w/Rooks

621 17th St STE 2055
Denver Co, 80293-2001

Brown Etal #1

Job Ticket: 18599

DST#: 2

ATTN: Steve Reed

Test Start: 2014.07.17 @ 09:50:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100% clean oil	0.014
29.00	Gassy oil, cut Mud	0.407
0.00	10% Gas, 17.5% Oil, 70% Mud, 2.5% water	0.000
63.00	Oil cut w atery mud	0.884
0.00	2.5% Oil, 65% Mud, 65% Mud	0.000
0.00	Chloride recov, 28000 ppm	0.000
0.00	Resist recov .22 ohms at 50 degrees	0.000

Total Length: 93.00 ft Total Volume: 1.305 bbl

Num Fluid Samples: 0

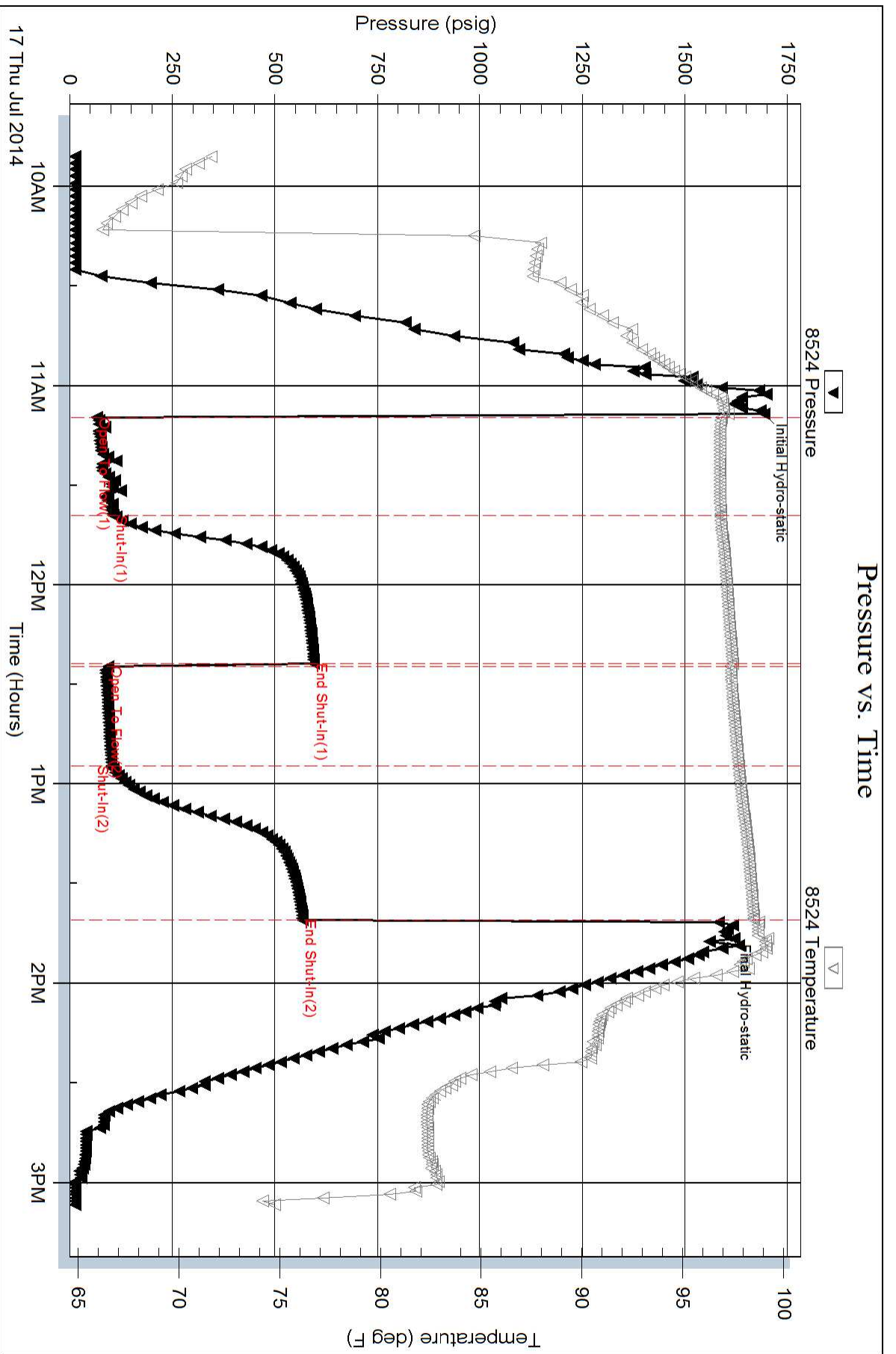
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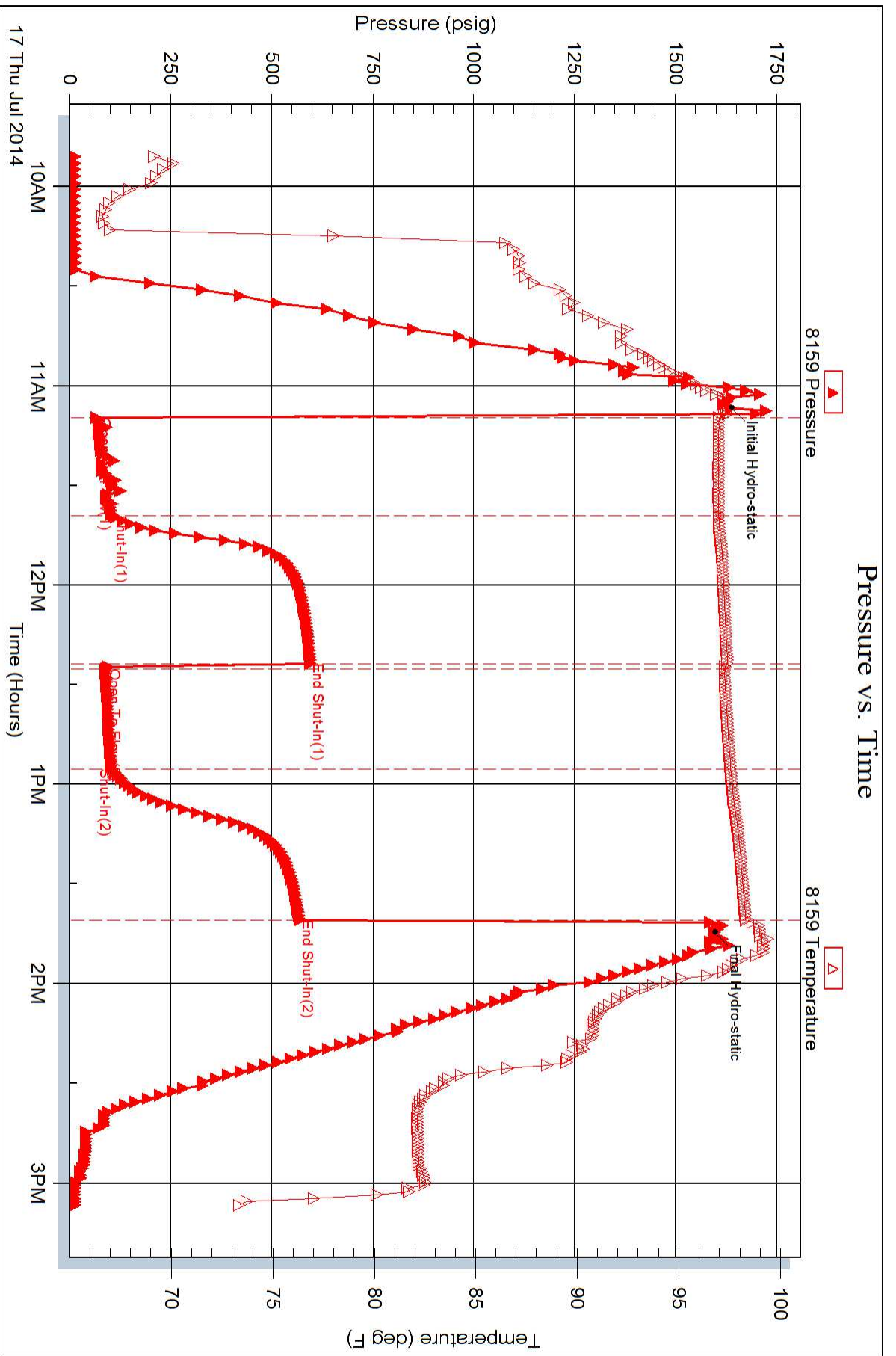
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Sandlin Oil Corporation**

621 17th St STE 2055
Denver Co, 80293-2001

ATTN: Steve Reed

Brown Etal #1

17/10s/16w/Rooks

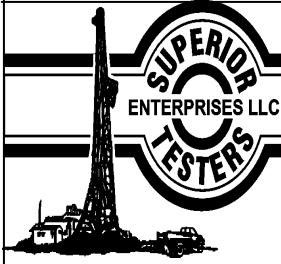
Start Date: 2014.07.18 @ 15:15:00

End Date: 2014.07.18 @ 21:14:00

Job Ticket #: 18600 DST #: 3

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

Printed: 2014.07.18 @ 22:32:05



DRILL STEM TEST REPORT

Sandlin Oil Corporation
 621 17th St STE 2055
 Denver Co, 80293-2001
 ATTN: Steve Reed

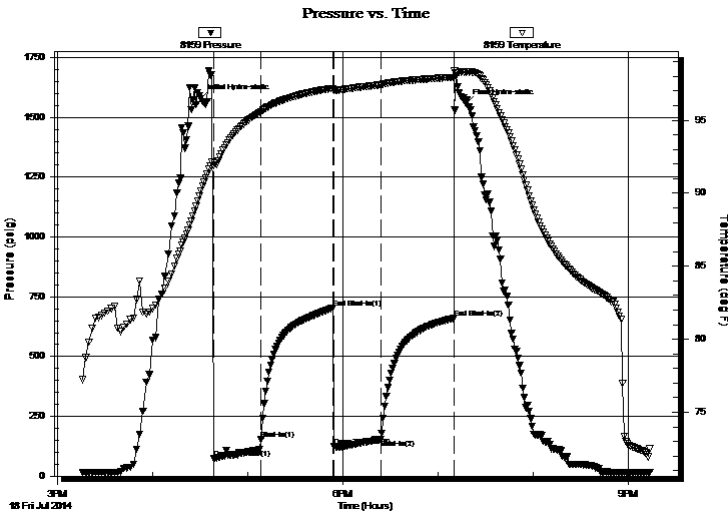
17/10s/16w/Rooks
Brown Etal #1
 Job Ticket: 18600 **DST#: 3**
 Test Start: 2014.07.18 @ 15:15:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:38:30
 Time Test Ended: 21:14:00
 Interval: **3160.00 ft (KB) To 3225.00 ft (KB) (TVD)**
 Total Depth: 3645.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Straddle (Initial)
 Tester: Shane Konzem
 Unit No: 3330/126/Great Bend
 Reference Elevations: 2055.00 ft (KB)
 2049.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8159 Inside
 Press@RunDepth: 154.63 psig @ 3223.35 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.18 End Date: 2014.07.18 Last Calib.: 2014.07.18
 Start Time: 15:15:00 End Time: 21:14:00 Time On Btm: 2014.07.18 @ 16:30:30
 Time Off Btm: 2014.07.18 @ 19:17:30

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 8 minutes.
 1st Shut In/ 45 Minutes. Weak surface blow back.
 2nd Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 3 minutes and 30 seconds.
 2nd Shut In/ 45 Minutes. weak surface blow back.



PRESSURE SUMMARY

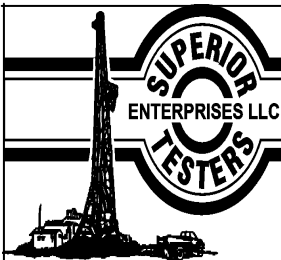
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.88	90.15	Initial Hydro-static
8	75.43	91.88	Open To Flow (1)
38	153.57	95.59	Shut-In(1)
84	704.09	97.18	End Shut-In(1)
84	123.98	97.04	Open To Flow (2)
114	154.63	97.42	Shut-In(2)
160	659.92	97.93	End Shut-In(2)
167	1557.12	98.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1850 foot 100% Gas	0.00
262.00	100% Clean gassy oil	3.68
0.00	Oil gravity w as 40 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Sandlin Oil Corporation

17/10s/16w/Rooks

621 17th St STE 2055
Denver Co, 80293-2001

Brown Etal #1

Job Ticket: 18600 **DST#: 3**

ATTN: Steve Reed

Test Start: 2014.07.18 @ 15:15:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:38:30

Time Test Ended: 21:14:00

Test Type: Conventional Straddle (Initial)

Tester: Shane Konzem

Unit No: 3330/126/Great Bend

Interval: 3160.00 ft (KB) To 3225.00 ft (KB) (TVD)

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3645.00 ft (KB) (TVD)

2049.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 6.00 ft

Serial #: 6806

Outside

Press@RunDepth: 659.05 psig @ 3224.35 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.18 End Date: 2014.07.18

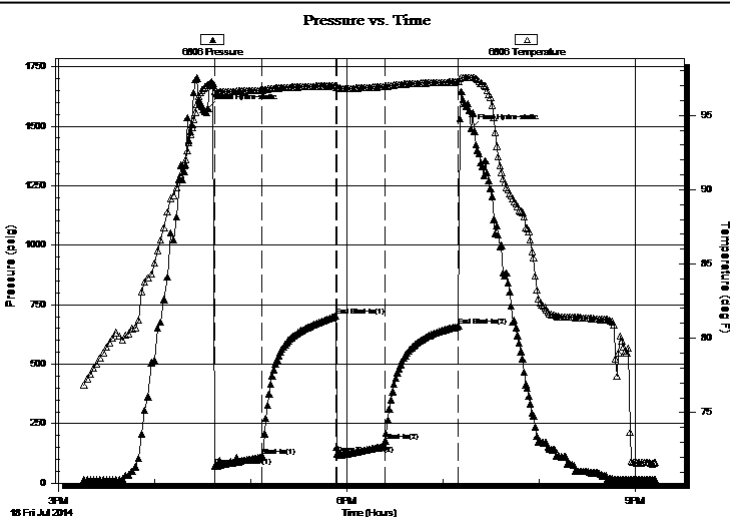
Last Calib.: 2014.07.18

Start Time: 15:15:00 End Time: 21:13:00

Time On Btm: 2014.07.18 @ 16:33:30

Time Off Btm: 2014.07.18 @ 19:17:30

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 8 minutes.
1st Shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 3 minutes and 30 seconds.
2nd Shut In/ 45 Minutes. weak surface blow back.



PRESSURE SUMMARY

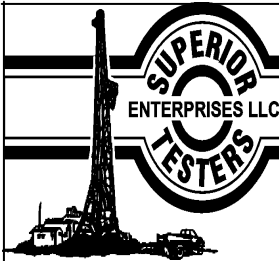
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1574.73	97.04	Initial Hydro-static
4	71.67	96.61	Open To Flow (1)
34	111.45	96.69	Shut-In(1)
80	703.25	97.00	End Shut-In(1)
81	122.27	96.87	Open To Flow (2)
111	177.44	96.94	Shut-In(2)
156	659.05	97.25	End Shut-In(2)
164	1489.86	97.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1850 foot 100% Gas	0.00
262.00	100% Clean gassy oil	3.68
0.00	Oil gravity w as 40 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Sandlin Oil Corporation
 621 17th St STE 2055
 Denver Co, 80293-2001
 ATTN: Steve Reed

17/10s/16w/Rooks
Brown Etal #1
 Job Ticket: 18600 **DST#: 3**
 Test Start: 2014.07.18 @ 15:15:00

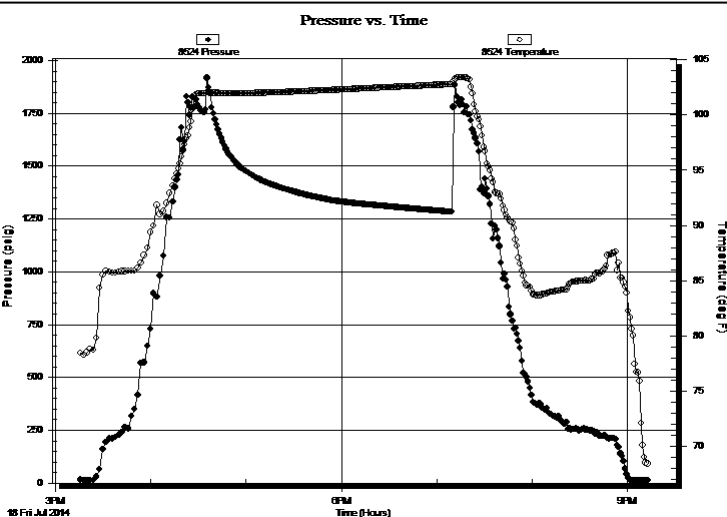
GENERAL INFORMATION:

Formation: Toronto			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Straddle (Initial)	
Time Tool Opened: 16:38:30		Tester: Shane Konzem	
Time Test Ended: 21:14:00		Unit No: 3330/126/Great Bend	
Interval: 3160.00 ft (KB) To 3225.00 ft (KB) (TVD)		Reference Elevations: 2055.00 ft (KB)	
Total Depth: 3645.00 ft (KB) (TVD)		2049.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Poor	KB to GR/CF: 6.00 ft	

Serial #: 8524 Below (Straddle)

Press@RunDepth: psig @ 3645.78 ft (KB)	Capacity: 5000.00 psig
Start Date: 2014.07.18 End Date: 2014.07.18	Last Calib.: 2014.07.18
Start Time: 15:15:00 End Time: 21:12:30	Time On Btm:
	Time Off Btm:

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 8 minutes.
 1st Shut In/ 45 Minutes. Weak surface blow back.
 2nd Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 3 minutes and 30 seconds.
 2nd Shut In/ 45 Minutes. weak surface blow back.



PRESSURE SUMMARY

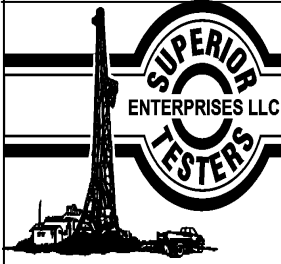
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1850 foot 100% Gas	0.00
262.00	100% Clean gassy oil	3.68
0.00	Oil gravity w as 40 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Sandlin Oil Corporation

17/10s/16w/Rooks

621 17th St STE 2055
Denver Co, 80293-2001

Brown Etal #1

Job Ticket: 18600

DST#: 3

ATTN: Steve Reed

Test Start: 2014.07.18 @ 15:15:00

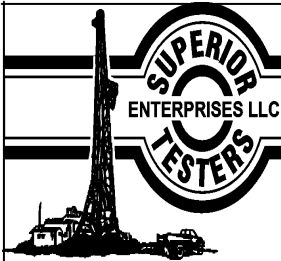
Tool Information

Drill Pipe:	Length: 3165.00 ft	Diameter: 3.80 inches	Volume: 44.40 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 44.40 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3160.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	3225.10 ft			
Interval between Packers:	65.10 ft			
Tool Length:	508.78 ft			
Number of Packers:	3	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			3145.00	
Hydraulic tool	5.00			3150.00	
Packer	5.00			3155.00	20.00 Bottom Of Top Packer
Packer	5.00			3160.00	
Perforations	6.00			3166.00	
Change Over Sub	0.75			3166.75	
Drill Pipe	31.85			3198.60	
Change Over Sub	0.75			3199.35	
Perforations	23.00			3222.35	
Recorder	1.00	8159	Inside	3223.35	
Recorder	1.00	6806	Outside	3224.35	
Blank Off Sub	0.75			3225.10	65.10 Tool Interval
Packer	5.00			3230.10	
Change Over Sub	0.75			3230.85	
Drill Pipe	413.18			3644.03	
Change Over Sub	0.75		Inside	3644.78	
Recorder	1.00	8524	Below	3645.78	
Bull Plug	3.00			3648.78	423.68 Bottom Packers & Anchor

Total Tool Length: 508.78



DRILL STEM TEST REPORT

FLUID SUMMARY

Sandlin Oil Corporation

17/10s/16w/Rooks

621 17th St STE 2055
Denver Co, 80293-2001

Brown Etal #1

Job Ticket: 18600

DST#: 3

ATTN: Steve Reed

Test Start: 2014.07.18 @ 15:15:00

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:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1850 foot 100% Gas	0.000
262.00	100% Clean gassy oil	3.675
0.00	Oil gravity w as 40 corrected	0.000

Total Length: 262.00 ft Total Volume: 3.675 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8159

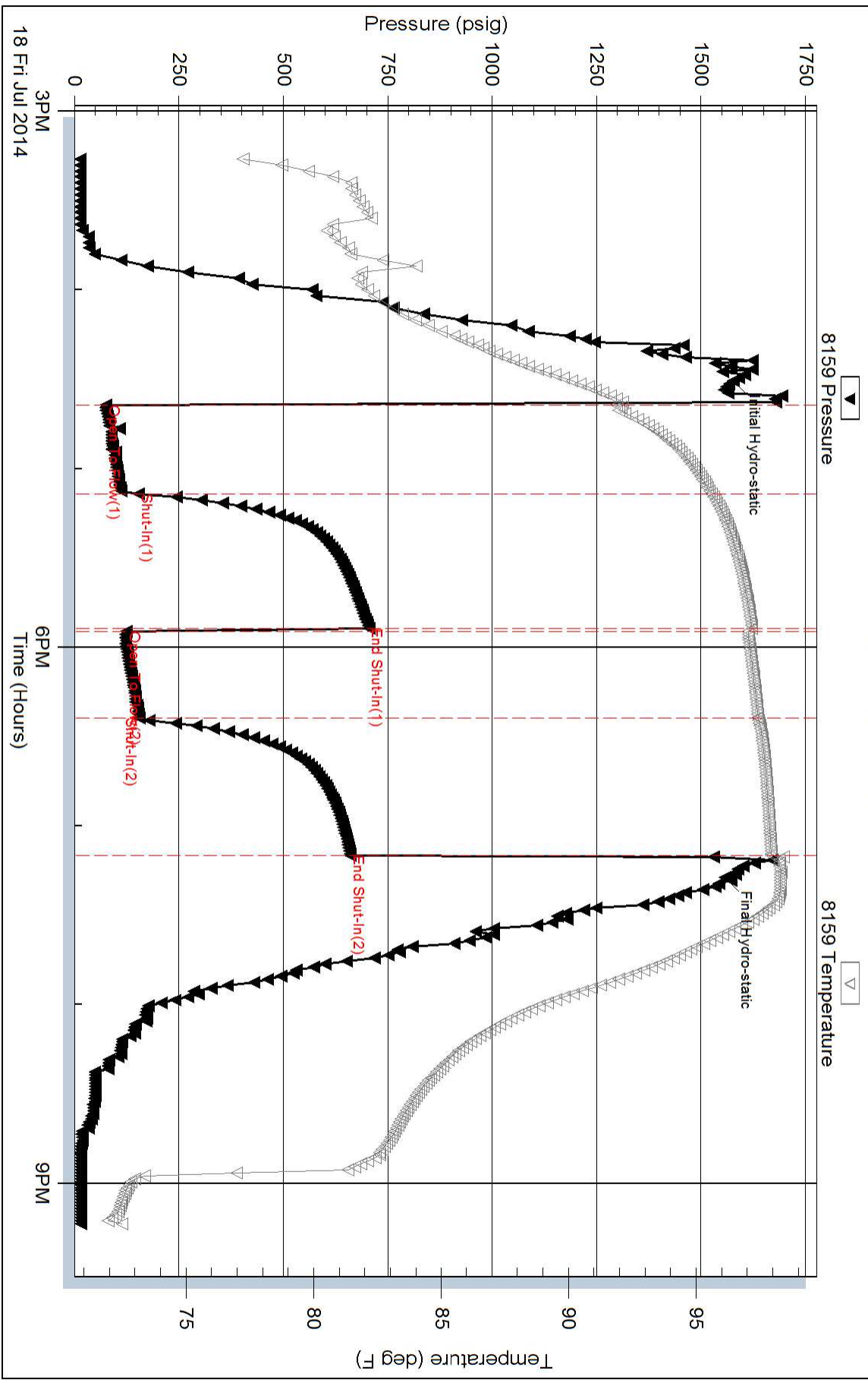
Inside

Sandlin Oil Corporation

Brown Bal #1

DST Test Number: 3

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 18600

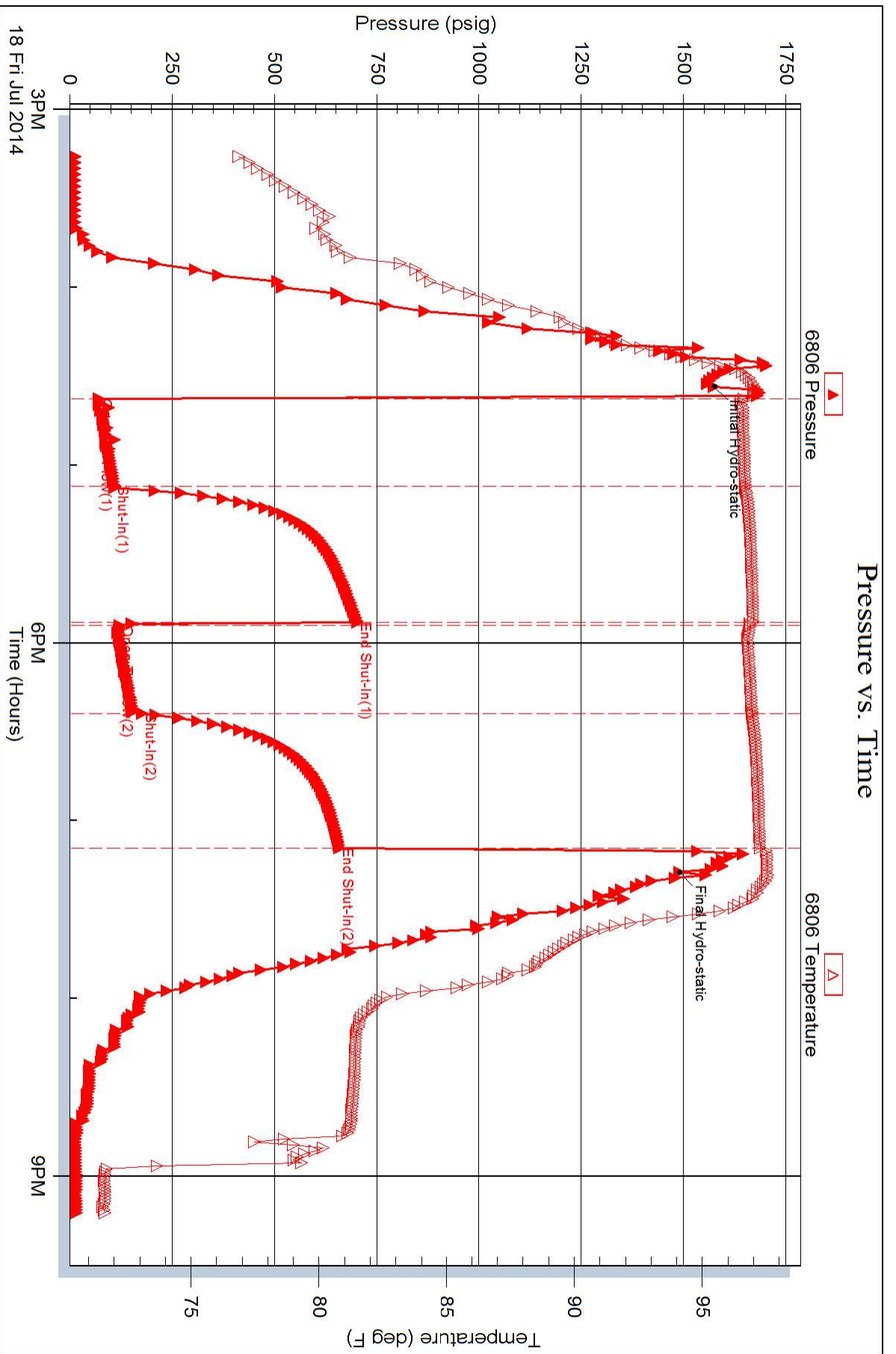
Printed: 2014.07.18 @ 22:32:06

Serial #: 6806

Outside Sandlin Oil Corporation

Brown Bal #1

DST Test Number: 3

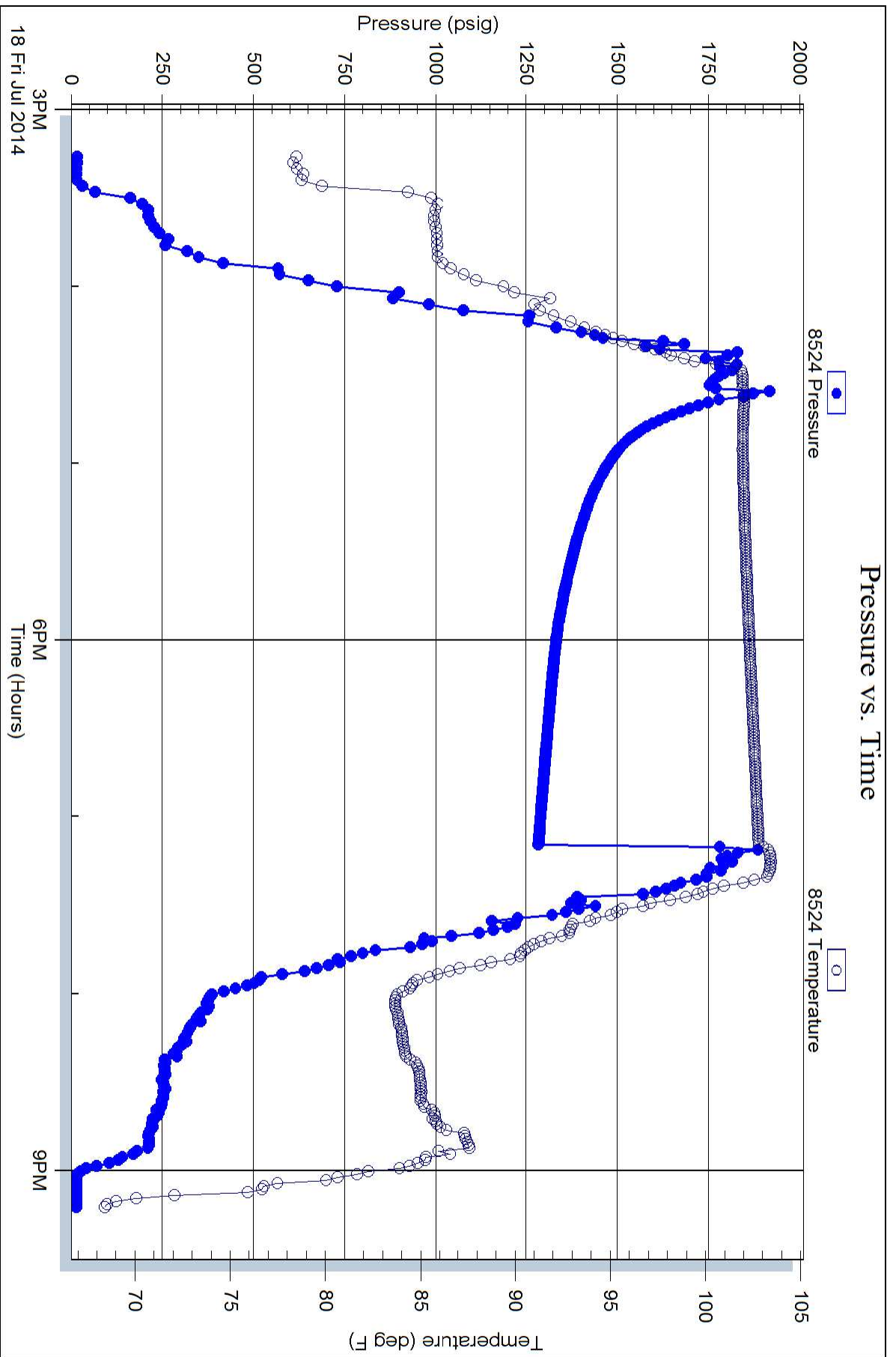


Serial #: 8524

Below (Stratton) Oil Corporation

Brown Bal #1

DST Test Number: 3



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. 356

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-12-14	17	10	16	ROCKS	KS		6:15pm

Location *Natoma 4 W 70 27 N 13*

Lease	Well No.	Owner	
<i>Brown ETAL</i>	<i>1</i>	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	
<i>Royal #1</i>		<i>Sandlin 0.1</i>	
Type Job		Street	
<i>Surface</i>		City	
Hole Size	T.D.	State	
<i>12 1/4</i>	<i>1110</i>		
Csg.	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
<i>8 5/8</i>	<i>1110</i>		
Tbg. Size	Depth	Cement Amount Ordered	
		<i>450 70/30 S/CL 2/6 RL</i>	
Tool	Depth	Meas Line	
		Displace <i>68.8L</i>	
Cement Left in Csg.	Shoe Joint		
<i>42</i>	<i>42</i>		

EQUIPMENT

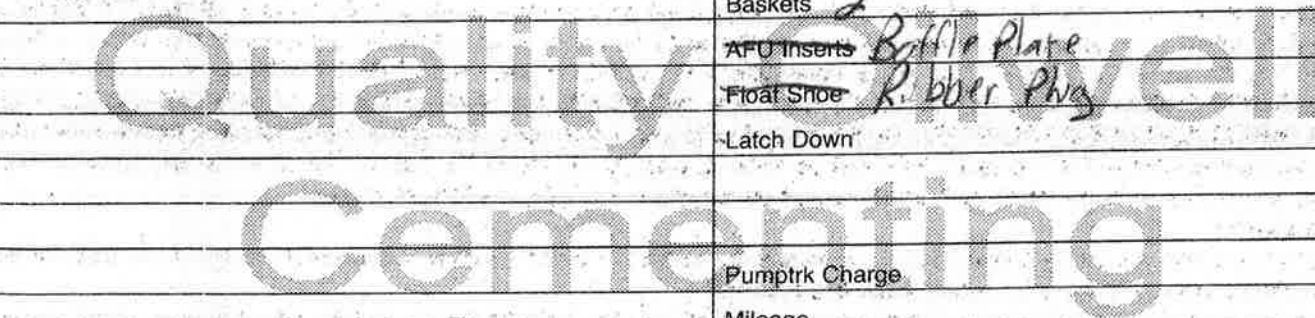
Pumptrk	No.	Cementor	
<i>5</i>		<i>David</i>	
Bulktrk	No.	Helper	
		<i>Doug</i>	
Bulktrk	No.	Driver	
<i>4</i>		<i>Doug</i>	

JOB SERVICES & REMARKS

Remarks:
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar
*8 5/8 on bottom. Est Circulation.
Mix 450 S/CL & Displace Plug
Cement Circulated.*

FLOAT EQUIPMENT

Guide Shoe	<i>8 5/8</i>
Centralizer	
Baskets	<i>2</i>
AFU Inserts	<i>Baffle Plate</i>
Float Shoe	<i>Rubber Plug</i>
Latch Down	
Pumptrk Charge	
Mileage	



X Signature *Doug Buey*

Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 268

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

Date 7-19-14	Sec. 17	Twp. 10	Range 16	County Rooks	State KS	On Location	Finish 7:00AM
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Location Natoma, w to 27Rd, S n 2

Lease Brown Etal	Well No. 1	Owner 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 Royal #1		
Type Job long string		
Hole Size 7 7/8	T.D. 3650	Charge To Sandlin Oil Corp
Csg. 5 1/2 #14	Depth 3400	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint 42	Cement Amount Ordered 150 sx com, 10% salt, 5% gilsonite
Meas Line	Displace 81.9661	1/4 # Flow

EQUIPMENT

Pumptrk 17	No. Cementer		Common
	Helper Lonnie W		Poz. Mix
Bulktrk 15	No. Driver		Gel.
	Driver Tylor		Calcium
Bulktrk Pu	No. Driver		
	Driver Travis		

JOB SERVICES & REMARKS

Remarks:	
Rat Hole 30 sx	
Mouse Hole 15 sx	
Centralizers	
Baskets	
D/V or Port Collar	

Pipe on bottom broke circulation. Pumped 500 gal Mud CLR-48 with 10 bbl fw behind it. Plug Rat hole with 30 sx and mouse hole with 15 sx. Hooked to 5 1/2 Mixed 105 sx shut down washed pump and lines. Released plug and displaced with 82661 fw. Plug landed and held.
Lift pressure 600 psi

FLOAT EQUIPMENT

Handling	
Mileage	
Guide Shoe	
Centralizer 3	
Baskets	
AFU Inserts	
Float Shoe 1	
Latch Down 1	

Plug landed at 1500 psi	
Pumptrk Charge	
Mileage	

Tax	
Discount	
Total Charge	

X Signature *Robert B. ...*

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

January 06, 2015

GARY SANDLIN
Sandlin Oil Corporation
621 17TH ST STE 2055
DENVER, CO 80293-2001

Re: ACO-1
API 15-163-24233-00-00
Brown Etal 1
NE/4 Sec.17-10S-16W
Rooks County, Kansas

Dear GARY SANDLIN:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 7/11/2014 and the ACO-1 was received on January 05, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department