Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1189430

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 # 6677
Name: Sandlin Oil Corporation
Address 1: 621 17TH ST STE 2055
Address 2:
City: DENVER State: CO Zip: 80293 + 2001
Contact Person: GARY SANDLIN
Phone: (303) 292-3313
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: HERB DEINES
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 #:

2/9/2014	2/13/2014	2/27/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26657-00-00
Spot Description: NE NE NE NE SE
NE - NE - NE - SE Sec. 15 Twp. 12 S. R. 18 ☐ East ☑ West
2615 Feet from ☐ North / ☑ South Line of Section
170 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ellis
Lease Name: Staab-Karlin, et al Well #: 2
Field Name:
Producing Formation: ARBUCKLE
Elevation: Ground: 2150 Kelly Bushing: 2155
Total Vertical Depth: 3760 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 215 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1445 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: 57000 ppm Fluid volume: 700 bbls
Dewatering method used: Evaporated
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:** Deanna Garrison **Date:** 03/31/2014

[redacted] 1189430

Operator Name: Sandlin Oil Corporation Lease Name: Staab-Karlin, et al Well #: 2

Sec. 15 Twp. 12 S. R. 18 ☐ East ☑ West County: Ellis

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

DUAL INDUCTION LOG
COMPENSATED DENSITY/NEUTRON LOG
MICRO LOG

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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	12.25	8.625	23	215	COMMON	150	2%GEL 3%CC
PRODUCTION	7.875	5.5	15.5	3759	OMMON	150	5%Gil

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Sandlin Oil Corporation
Well Name	Staab-Karlin, et al 2
Doc ID	1189430

Tops

Name	Top	Datum
ANHYDRITE	1417	+738
TOPEKA	3122	-967
HEEBNER SHALE	3353	-1198
LKC	3399	-1244
BKC	3645	-1490
SIMPSON SHALE	3662	-1507
ARBUCKLE	3670	-1515
RTD	3760	-1605
LTD	3759	-1604

OPERATOR

Company:	SANDLIN OIL CORPORATION		
Address:	621 17TH STE.2055 DENVER, CO 80293-2001		
Contact Geologist:	GARY SANDLIN		
Contact Phone Nbr:	303-292-3313		
Well Name:	STAAB-KARLIN, et al # 2		
Location:	NE NE NE SE Sec.15-12s-18w	API:	15-051-26,657-00-00
Pool:		Field:	BEMIS-SHUTTS
State:	KANSAS	Country:	USA

Scale 1:240 Imperial

Well Name:	STAAB-KARLIN, et al # 2		
Surface Location:	NE NE NE SE Sec.15-12s-18w		
Bottom Location:			
API:	15-051-26,657-00-00		
License Number:	6677		
Spud Date:	2/9/2014	Time:	6:00 AM
Region:	ELLIS COUNTY		
Drilling Completed:	2/13/2014	Time:	9:45 PM
Surface Coordinates:	2615' FSL & 170' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	2145.00ft		
K.B. Elevation:	2155.00ft		
Logged Interval:	3000.00ft	To:	3760.00ft
Total Depth:	3760.00ft		
Formation:	ARBUCKLE		
Drilling Fluid Type:	CHEMICAL/FRESH WATER GEL		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	-99.2978412	Latitude:	39.0086772
N/S Co-ord:	2615' FSL		
E/W Co-ord:	170' FEL		

LOGGED BY

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

CONTRACTOR

Contractor:	VAL ENERGY, INC.		
Rig #:	6		
Rig Type:	MUD ROTARY		
Spud Date:	2/9/2014	Time:	6:00 AM
TD Date:	2/13/2014	Time:	9:45 PM
Rig Release:	2/15/2014	Time:	9:00 AM

ELEVATIONS

K.B. Elevation:	2155.00ft	Ground Elevation:	2145.00ft
K.B. to Ground:	10.00ft		

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON FAVORABLE STRUCTURE AND POSITIVE RESULTS OF DRILL STEM TEST # 1

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

DRILL STEM TESTING BY TRILOBITE TESTING INC: ONE (1) STRADDLE TEST

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

	STAAB-KARLIN et al # 2 NE NE NE SE SEC.15-12S-18W 2145'GL 2155'KB		**STAAB-KARLIN #1 SE SW SE NE SEC15-12S-18W**
FORMATION	SAMPLE TOPS	LOG TOPS	COMPARISON
Anhydrite	1420 +735	**1417 +738**	*+ 731*
B-Anhydrite	1451 +704	**1452 +703**	*+ 698*
Topeka	3123 -968	**3122 -967**	*- 966*
Heebner Shale	3355-1200	**3353-1198**	*-1198*
Toronto	3378-1223	**3374-1219**	*-1219*
LKC	3399-1244	**3399-1244**	*-1243*
BKC	3645-1490	**3645-1490**	*-1486*
Simpson Shale	3660-1505	**3662-1507**	
Arbuckle	3670-1515	**3642-1626**	*-1644*
RTD	3760-1605	**3759-1604**	*-1592*

SUMMARY OF DAILY ACTIVITY

2-09-14	RU, Spud 6:00 AM, set 8 5/8" surface casing to 214.85' w/ 150 sxs Common 2%Gel 3%CC, plug down 1:15PM, slope ¼ degree
2-10-14	630'
2-11-14	2048', drilling
2-12-14	2932', drilling, displaced 2791'
2-13-14	3488', RTD 3760' @9:45PM, short trip 33 stands, CCH, TOWB, slope ¾ degree
2-14-14	3760', logs, straddle DST # 1 Arbuckle 3662' to 3694', TIWB
2-15-14	3760', LDDP, run production casing, RD

DST # 1 STRADDLE TEST 3662' TO 3694' ARBUCKLE BOTTOM PACKER HELD

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sandlin Oil Corp

621 17th St 2055
Denver Co 80293

ATTN: Herb Dienes

15-12S-18W Ellis

Staab-Karlin #2

Job Ticket: 56185 **DST#: 1**

Test Start: 2014.02.14 @ 12:18:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:12:30
Time Test Ended: 20:11:00

Test Type: Conventional Straddle (Initial)
Tester: Tim Phillips
Unit No: 59

Interval: 3662.00 ft (KB) To 3694.00 ft (KB) (TVD)
Total Depth: 3760.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

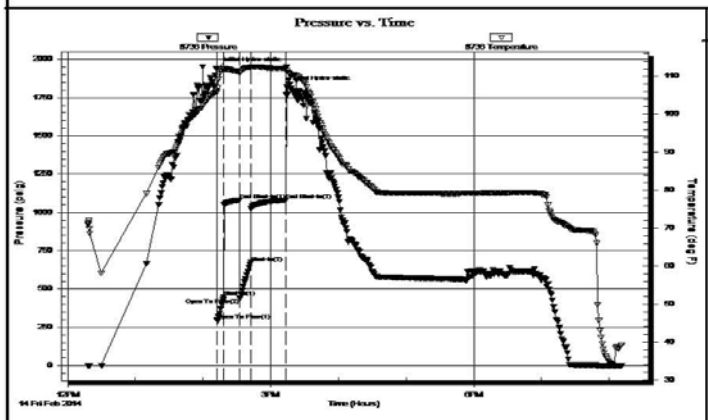
Reference Elevations: 2155.00 ft (KB)
2150.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8736

Press@RunDepth: 670.95 psig @ ft (KB)
Start Date: 2014.02.14 End Date: 2014.02.14
Start Time: 12:18:05 End Time: 20:10:59

Capacity: 8000.00 psig
Last Calib.: 2014.02.14
Time On Btm: 2014.02.14 @ 14:12:00
Time Off Btm: 2014.02.14 @ 15:14:00

TEST COMMENT: IFP-5- BOB in 30 sec
ISI-15-Blow back built to 2.5 in
FF-10-BOB in 15 sec
FSI-30-Blow back built to 4.5 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.71	106.25	Initial Hydro-static
1	296.82	105.72	Open To Flow (1)
6	446.36	111.83	Shut-In(1)
21	1079.70	111.18	End Shut-In(1)
21	439.58	110.90	Open To Flow (2)
31	670.95	112.38	Shut-In(2)
62	1080.92	112.00	End Shut-In(2)
62	1817.72	112.32	Final Hydro-static

Recovery

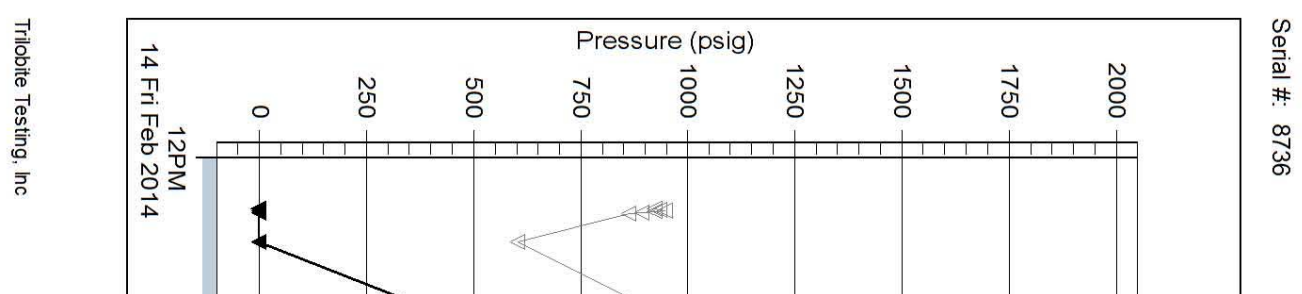
Length (ft)	Description	Volume (bbl)
2152.00	GO 85%O, 15% G	30.19
0.00	GIP 190 ft	0.00

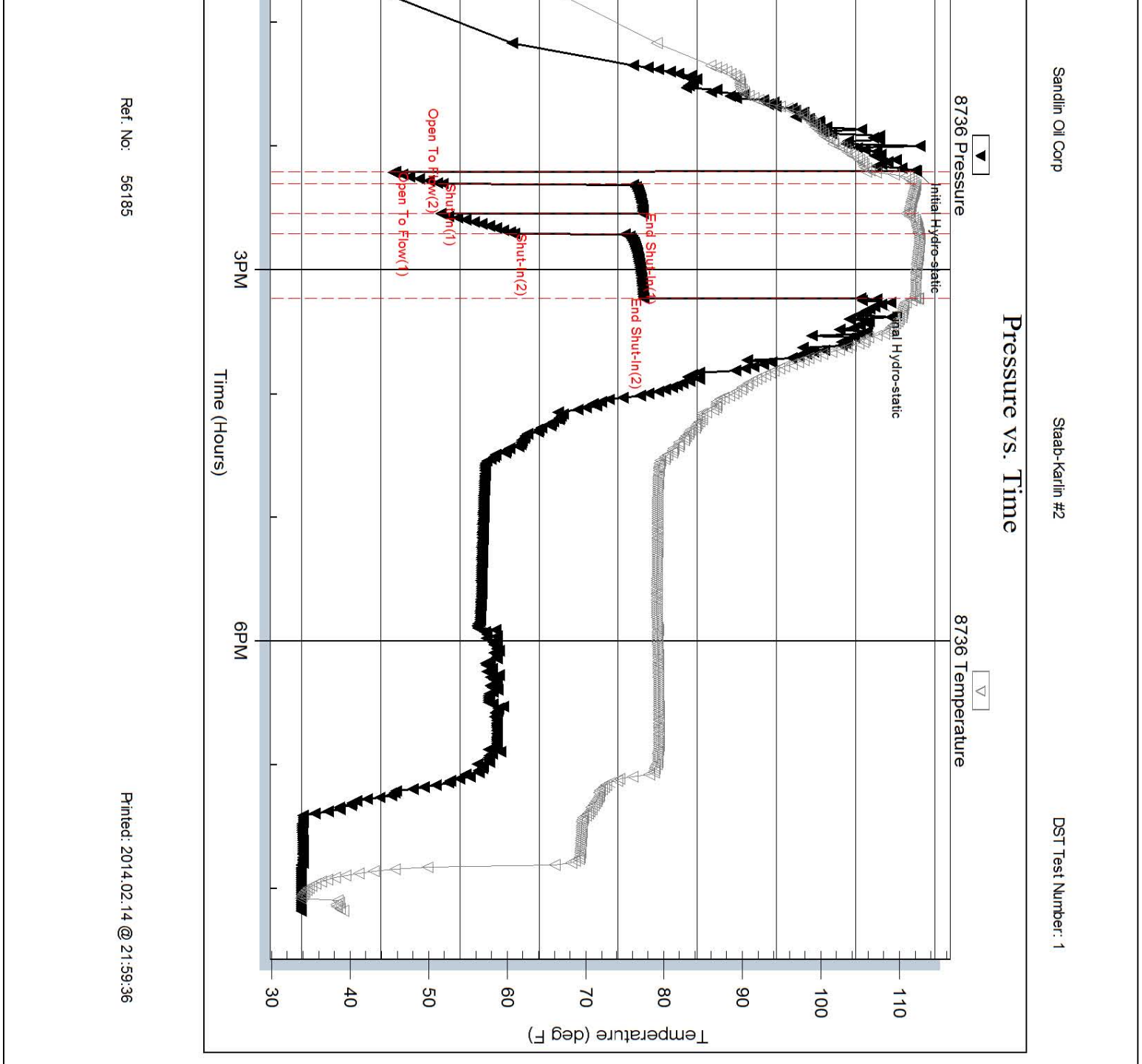
Gas Rates

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

Trilobite Testing, Inc Ref. No: 56185 Printed: 2014.02.14 @ 21:59:34

DST # 1 STRADDLE TEST EXPANDED CHART





ROCK TYPES

Clystgy	Lmst fw<7	shale, grn	shale, red
Clystcol	Lmst fw7>	shale, gry	
Dolprim	Lscongl	Carbon Sh	

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- △ Chert White

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1 ROP (min/ft) 1:240 Imperial	Depth | Intervals (Cored Interval / DST Interval)	DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3 1:240 Imperial
0 ROP (min/ft) 5	3000				BEGIN 1' DRILL TIME FROM 3000' TO RTD BEGIN 10' WET AND DRY SAMPLES FROM 3000' TO RTD	**8 5/8" SURFACE CASING SET TO 214.84' W/150 SXS COMMON 2%GEL 3%CC**
	3010				**ANHYDRITE TOP 1417+738** **ANHYDRITE BASE 1452+703** Shale, lt gray, soft sticky clumps	**SLOPE 1/4 DEGREE @ 215'**
	3020				Lime, med gray, granular, shaley	
	3030				Lime, med brn, fnxln	
	3040				Shale, lt gray, soft forming sticky clumps	
	3050				Lime, lt brn, fnxln	
	3060				Lime, lt brn, fnxln, thin beds of fusulinids Shale, dove gray, soft sticky clumps	
	3070				Lime, lt brn, fnxln	

Shale, lt-med gray soft blocky to soft sticky clumps

Lime, lt brn, fnxln, slightly fossiliferous-fusulinids

Shale, lt-med gray, soft forming sticky clumps

TOPEKA ELog 3122-967

Lime, lt-med brn, fnxln-granular in part, speckled with gray fossil remnants

Lime, lt-med brn-med gray, fnxln

Lime, lt gray-offwhite, fnxln-granular in part, 1 chip with trace of fine oil specks, no odor, NFO

Lime, lt brn-lt grayish brn, fnxln, slightly fossiliferous

Shale, lt-med gray, soft blocky

Lime, lt brn-lt grayish brn, fnxln

Lime, lt-med brn, fnxln, slightly fossiliferous-fusulinids

Lime, lt brn-lt gray, fn-vfxln-slighly micro xln in part

Lime, lt brn, mostly fnxln-slightly granular in part

Lime, lt-med brn, increasing granular with slight chalk matrix

Lime, lt-med brn, increasing bedded chalk

Lime, tan-crm, fnxln, bedded chalk

Lime, tan-lt brn, fnxln with bedded chalk
Chert, gray, fresh, sharp

Lime, lt-med brn, fnxln, increasing chalky matrix and bedded chalk

Shale, lime green, soft forming sticky clumps

Lime, lt-med brn, fnxln-granular, bedded chalk, slightly fossiliferous

Shale, black carbonaceous, blocky

Lime, med brn, fnxln, slightly fossiliferous

Lime, crm-lt brn-lt gray, fnxln, some soft on crush, slight bedded chalk

Lime, crm-lt grayish brn, fn-vfxln, slight bedded chalk

Lime, tan-lt brn, granular with bedded chalk and scattered sticky clumps of chalk

Lime, tan-lt brn, fnxln, slight bedded chalk

Lime, tan-lt brn, fnxln, bedded chalk

Lime, tan-lt brn, fnxln, bedded chalk

HEEBNER SHALE SPL 3355-1200 ELog 3353-1198

Shale, black carbonaceous, fissile, blocky
Lime, lt-med brn, fn-vfxln

Shale, lime green, soft forming sticky clumps

TORONTO ELog 3374-1219

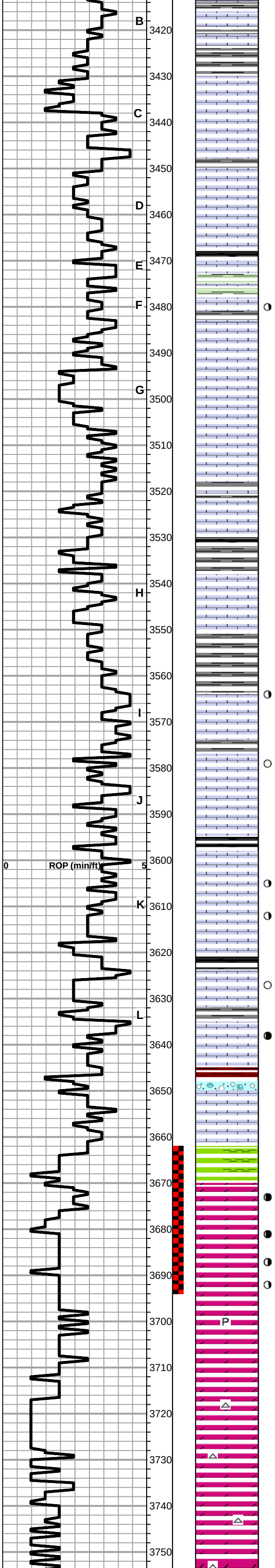
Lime, tan-crm, fnxln, bedded chalk, NS

Lime, lt brn, fn-vfxln

LKC ELog 3399-1244

Lime, tan-lt brn, fnxln-granular, chalky matrix with bedded chalk in part, NS

Lime, lt-med brn, fnxln-vfxln in part



Lime, lt-med brn, fnxln

Shale, lt gray forming soft mud clumps

Lime, lt-med brn, fnxln, slight bedded chalk, NS

Lime, tan-lt brn, fnxln, slight bedded chalk

Lime, tan, fnxln, chalky, NS

Lime, tan, fnxln, bedded chalk

Shale, black carbonaceous

Lime, tan-lt brn, mostly fnxln with fine pinpoint porosity with trace of lt stain, NFO, No Odor

Lime, crm-tan, fnxln, bedded chalk, NS

Lime, tan, fnxln, bedded chalk, NS

Lime, tan-lt brn, fn-vfxln, bedded chalk

Lime, tan-lt brn, fn-vfxln, bedded chalk

Lime, lt-med brn, fnxln

Shale, med gray, firm blocky with black carbonaceous in part

Lime, tan-lt brn, fn-vfxln, bedded chalk

Lime, tan, fnxln, lot of bedded chalk

Shale, lt gray, soft blocky with sticky clumps in part

Lime, tan-lt brn, fnxln, bedded chalk, one chip with fine inter xln scattered fine pinpoint porosity, few free floating oil globules in tray, no odor

Lime, tan-lt grayish brn, fn-vfxln, hard on crush, bedded chalk in part, one piece oomoldic with trace of stain, NFO, No Odor.

Lime, crm-tan-slightly off white, fnxln with scattered oomoldic. appears poorly developed

Shale, gray-black carbonaceous

Lime, tan-lt brn, mostly fnxln, few specks of free oil, very lt odor, fine interxln with scattered pinpoint porosity. Not well developed.

Lime, tan-lt brn, fn-micro xln

Lime, tan with with chalk, NFO, No Odor, good wet cut on crush in chalk clumps

Lime,crm-tan, fnxln, more inter xln and vuggy porosity with scattered staining, MSFO with lt odor

BKC ELog 3645-1490

Shale, red soft mud
Lime, crm, fnxln with specks of glauconite and reworked

SIMPSON SHALE ELog 3662-1507

Shale, blue green, soft sticky to firm dark, blue green, waxy

ARBUCKLE ELog 3670-1515

Dolomite, tan-med brn, mostly fnxln, spotty staining, lt odor

Dolomite, tan-lt brn, fnxln, lt odor and scattered staining in porous chips, scattered vugs and inter xln porosity

Dolomite, tan-lt brn, fnxln, med xln sucrosic in part, lt odor

Dolomite, tan-lt brn, pyritic in part, fnxln

Dolomite, tan-lt brn, fn-vfxln, hard on crush

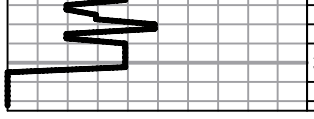
Dolomite, tan-lt brn, fnxln
Chert, bone white, fresh, sharp

Dolomite, tan-lt brn, fnxln-granular in part
Chert, milky white, fresh, sharp

Dolomite, tan-lt brn, fn-vfxln, hard on crush

Dolomite tan-lt brn, fn-vfxln

DST # 1 STRADDLE TEST OF ARBUCKLE. SEE HEADER FOR TEST SUMMARY



RTD 3760-1605 LTD 3759-1504

SLOPE 3/4 DEGREE @3760'

DRILL STEM TEST REPORT

Sandlin Oil Corp

621 17th St 2055
Denver Co 80293

ATTN: Herb Dienes

15-12S-18W Ellis

Staab-Karlin #2

Job Ticket: 56185 **DST#: 1**

Test Start: 2014.02.14 @ 12:18:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:12:30
Time Test Ended: 20:11:00

Test Type: Conventional Straddle (Initial)
Tester: Tim Phillips
Unit No: 59

Interval: 3662.00 ft (KB) To 3694.00 ft (KB) (TVD)
Total Depth: 3760.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

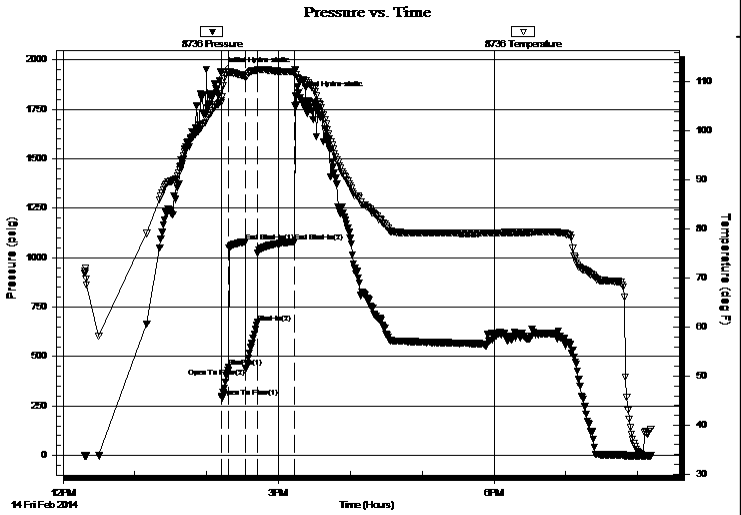
Reference Elevations: 2155.00 ft (KB)
2150.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8736

Press@RunDepth: 670.95 psig @ ft (KB)
Start Date: 2014.02.14 End Date: 2014.02.14
Start Time: 12:18:05 End Time: 20:10:59

Capacity: 8000.00 psig
Last Calib.: 2014.02.14
Time On Btm: 2014.02.14 @ 14:12:00
Time Off Btm: 2014.02.14 @ 15:14:00

TEST COMMENT: IFP-5- BOB in 30 sec
ISI-15-Blow back built to 2.5 in
FF-10-BOB in 15 sec
FSI-30-Blow back built to 4.5 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.71	106.25	Initial Hydro-static
1	296.82	105.72	Open To Flow (1)
6	446.36	111.83	Shut-In(1)
21	1079.70	111.18	End Shut-In(1)
21	439.58	110.90	Open To Flow (2)
31	670.95	112.38	Shut-In(2)
62	1080.92	112.00	End Shut-In(2)
62	1817.72	112.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2152.00	GO 85%O, 15% G	30.19
0.00	GIP 190 ft	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Sandlin Oil Corp

621 17th St 2055
Denver Co 80293

ATTN: Herb Dienes

15-12S-18W Ellis

Staab-Karlin #2

Job Ticket: 56185 **DST#: 1**

Test Start: 2014.02.14 @ 12:18:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:12:30
Time Test Ended: 20:11:00

Test Type: Conventional Straddle (Initial)
Tester: Tim Phillips
Unit No: 59

Interval: 3662.00 ft (KB) To 3694.00 ft (KB) (TVD)
Total Depth: 3760.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

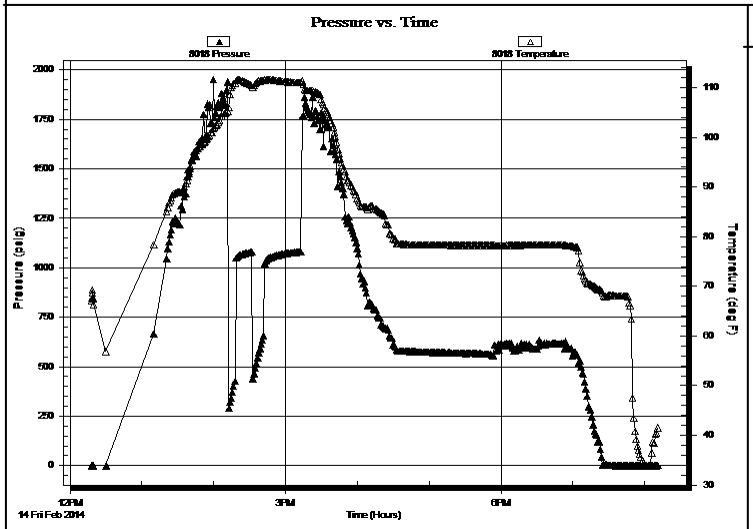
Reference Elevations: 2155.00 ft (KB)
2150.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8018

Press@RunDepth: psig @ ft (KB)
Start Date: 2014.02.14 End Date: 2014.02.14
Start Time: 12:18:05 End Time: 20:10:59

Capacity: 8000.00 psig
Last Calib.: 2014.02.14
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-5- BOB in 30 sec
ISI-15-Blow back built to 2.5 in
FF-10-BOB in 15 sec
FSI-30-Blow back built to 4.5 in



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2152.00	GO 85%O, 15% G	30.19
0.00	GIP 190 ft	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Sandlin Oil Corp

621 17th St 2055
Denver Co 80293

ATTN: Herb Dienes

15-12S-18W Ellis

Staab-Karlin #2

Job Ticket: 56185 **DST#: 1**

Test Start: 2014.02.14 @ 12:18:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:12:30
Time Test Ended: 20:11:00

Test Type: Conventional Straddle (Initial)
Tester: Tim Phillips
Unit No: 59

Interval: 3662.00 ft (KB) To 3694.00 ft (KB) (TVD)
Total Depth: 3760.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

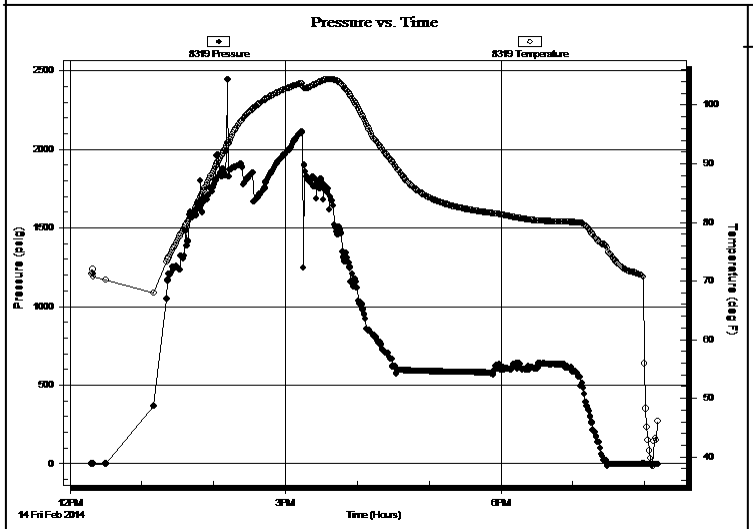
Reference Elevations: 2155.00 ft (KB)
2150.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8319

Press@RunDepth: psig @ ft (KB)
Start Date: 2014.02.14 End Date: 2014.02.14
Start Time: 12:18:05 End Time: 20:11:14

Capacity: 8000.00 psig
Last Calib.: 2014.02.14
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-5- BOB in 30 sec
ISI-15-Blow back built to 2.5 in
FF-10-BOB in 15 sec
FSI-30-Blow back built to 4.5 in



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2152.00	GO 85%O, 15% G	30.19
0.00	GIP 190 ft	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Sandlin Oil Corp

621 17th St 2055
Denver Co 80293

ATTN: Herb Dienes

15-12S-18W Ellis

Staab-Karlin #2

Job Ticket: 56185 **DST#: 1**

Test Start: 2014.02.14 @ 12:18:00

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.77 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2152.00	GO 85%O, 15% G	30.187
0.00	GIP 190 ft	0.000

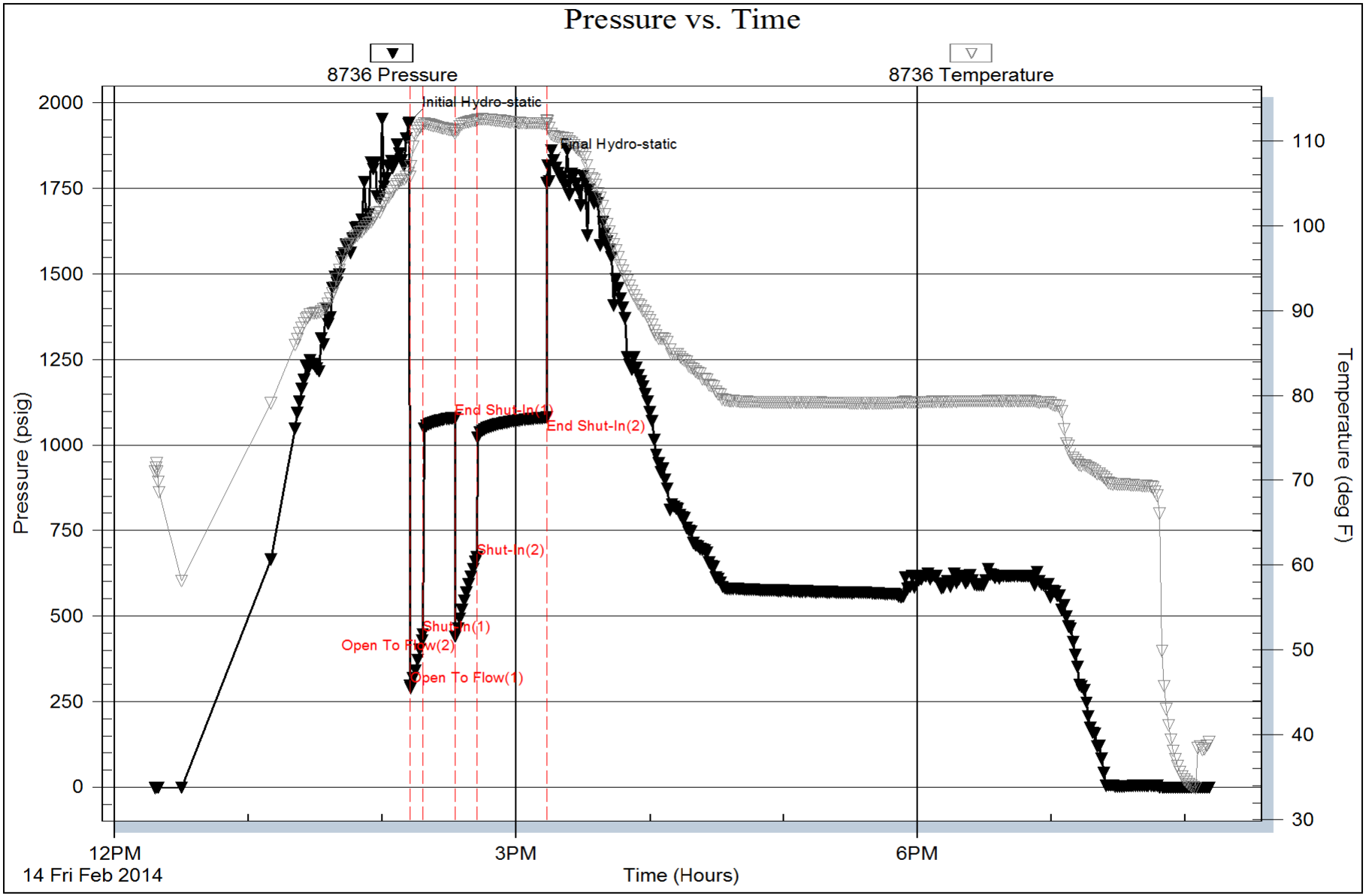
Total Length: 2152.00 ft Total Volume: 30.187 bbl

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

Laboratory Name: Laboratory Location:

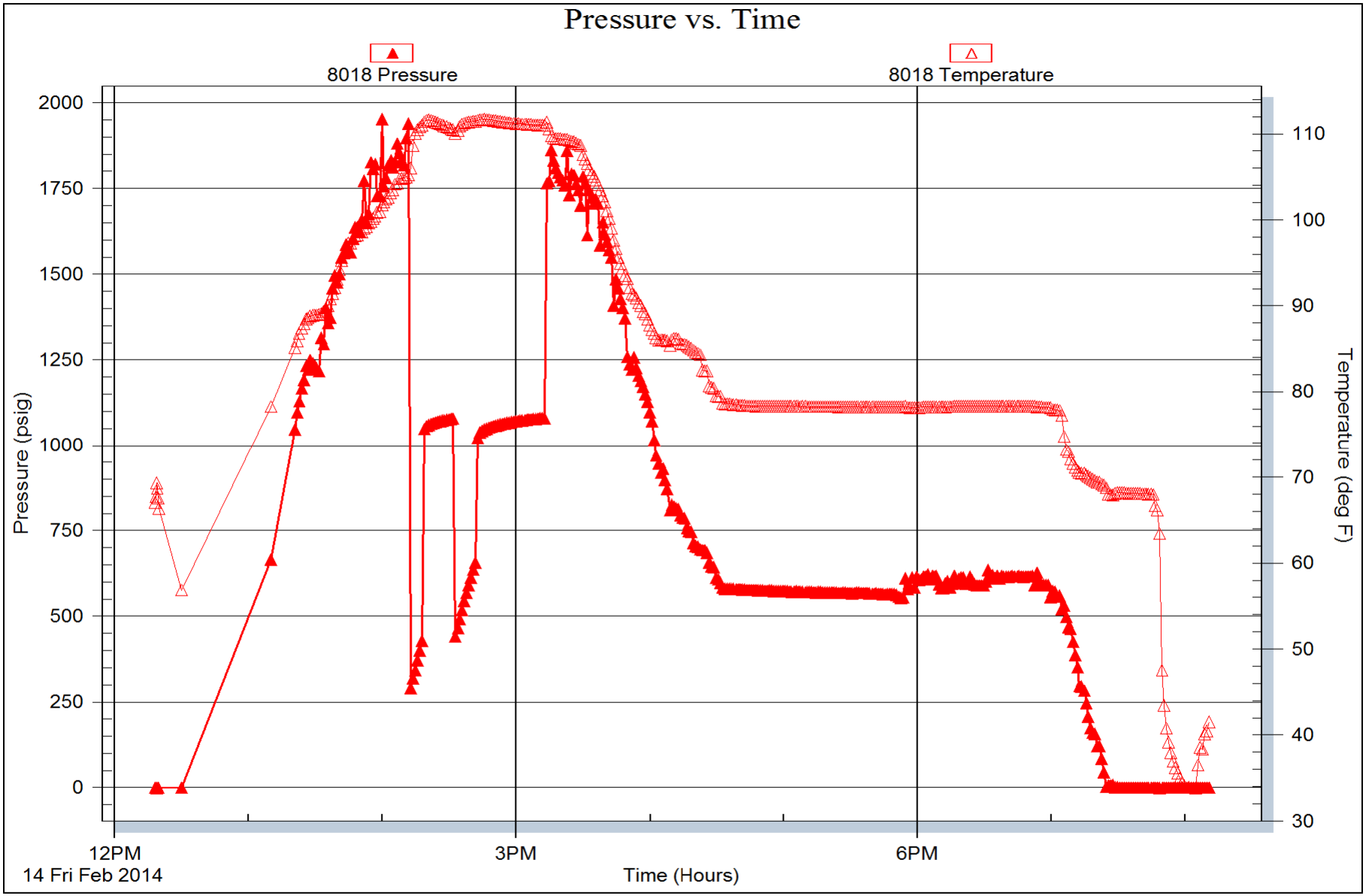
Recovery Comments:

Serial #: 8736 Sandlin Oil Corp Staab-Karlin #2 DST Test Number: 1



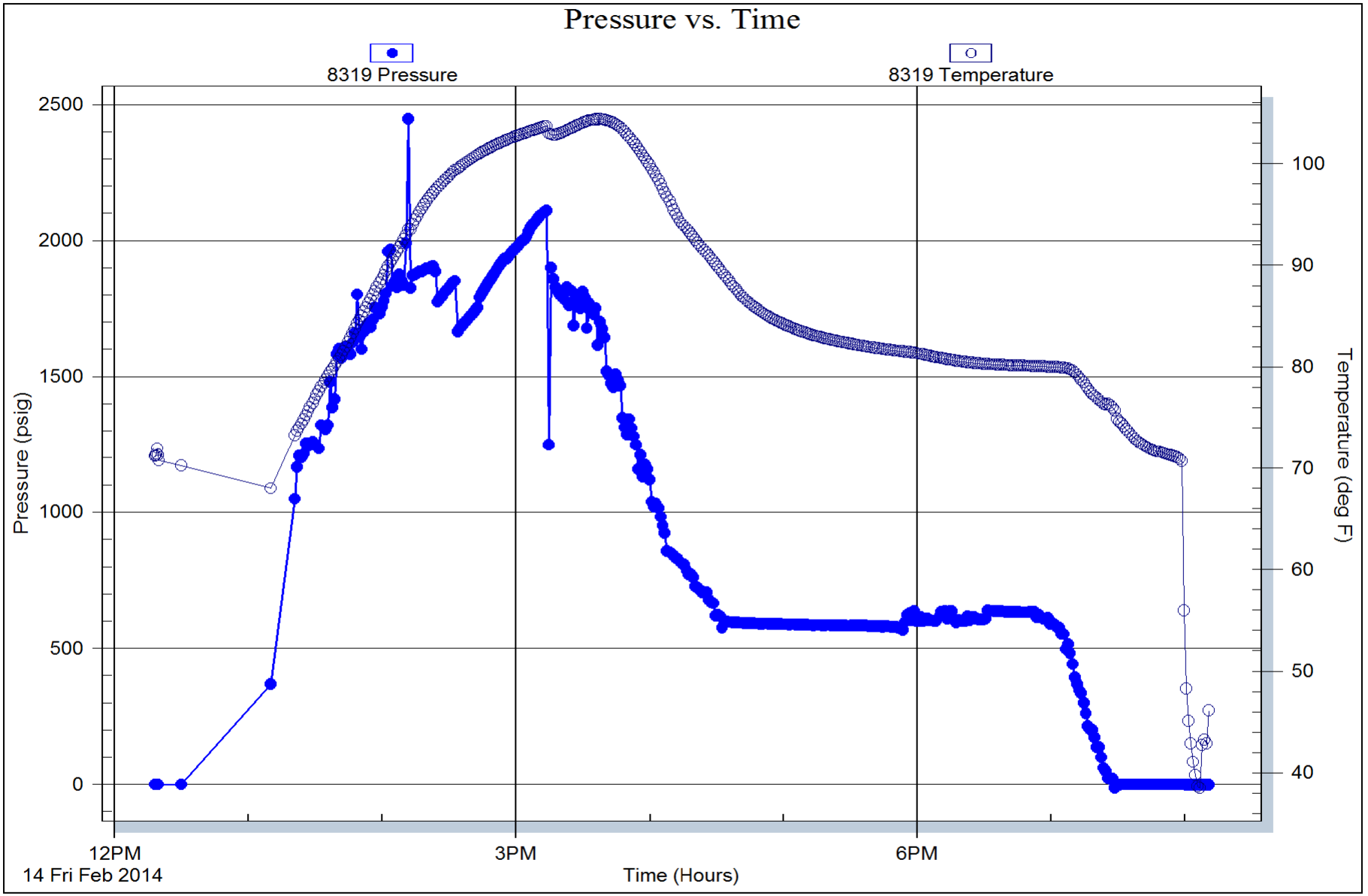
Trilobite Testing, Inc Ref. No: 56185 Printed: 2014.02.14 @ 21:59:36

Serial #: 8018 | Sandlin Oil Corp | Staab-Karlin #2 | DST Test Number: 1



Trilobite Testing, Inc | Ref. No: 56185 | Printed: 2014.02.14 @ 21:59:36

Serial #: 8319 Sandlin Oil Corp Staab-Karlin #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 56185 Printed: 2014.02.14 @ 21:59:36

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. 7724

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-9-14	15	12	18	Ellis	KS		1:15 p.m.

Location Hays 1 Buckeye 1E 1/2 W into

Lease Staab Kaulin etal Well No. 2

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 Val #6

Type Job Surface

Hole Size 12 1/4 T.D. 215

Csg. 8 5/8 Depth 214

Charge To Sandlin Oil

Tbg. Size Depth

Street

Tool Depth

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 15 Shoe Joint

Cement Amount Ordered 150 com 3% CC 2% Gel

Meas Line Displace 12 1/2 BL

EQUIPMENT

Pumptrk 16	No.	Cementer	Chris
		Helper	
Bulktrk	No.	Driver	Brett
		Driver	
Bulktrk 9	No.	Driver	
		Driver	Doug

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

8 5/8 on bottom Est. Circulation
Mix 150 SK & Displace
Cement Circulated

Common	150
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	8 5/8 Swage
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	9
Tax	
Discount	
Total Charge	

X Signature Randy D Mark

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 7162

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-15-14	15	12	18	Ellis	Ks		12:00PM

Staab - Karlin ETAL — Location Hays, Ks - N to Buckeye Rd

Lease — Well No. 2 — Owner

Contractor Val Energy #6 — 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.

Type Job Longstring

Hole Size 7 7/8" — T.D. 3760' — Charge To Sandlin Oil Corporation

Csg. 14# 5½" New — Depth 37 — Street

Tbg. Size — Depth — City — State

Tool Port Collar — Depth 1430' — The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 23.60' — Shoe Joint 23.60' — Cement Amount Ordered 150 sx Common 10% Salt 5% Gilsonite - 500 gal mud Clear 48

Meas Line — Displace 90 Bbls

EQUIPMENT

Pumptrk 16 No. — Cementer Helper Billy

Bulktrk 1 No. — Driver Driver Lonnie W.

Bulktrk ~~P.U.~~ No. — Driver Driver Rick

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers 2, 5, 8

Baskets

D/V or Port Collar 55 Jt 1430'

Pipe on bottom break Circulation pump 500 gal Mud Clear 48 plug Rathole w/ 30sk plug Mousehole w/ 15 sx Hook to 5½" Casing + mix 175 sx Shut down, wash pump + lines Released plug + Displaced with 90 Bbls of water Released + held

Lift pressure 600 #

Land plug to 1500 #

Common	150
Poz. Mix	
Gel.	13
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	750#
Mud CLR 48	500 gal
CFL-117 or CD110 CAF 38	
Sand	
Handling	170
Mileage	

FLOAT EQUIPMENT

Guide Shoe	1
Centralizer	3
Baskets	
AFU Inserts	
~~Float Shoe~~	1 Port Collar
Latch Down	
Pumptrk Charge	Prod String
Mileage	9
Tax	
Discount	
Total Charge	

X Signature Randy D Martin

ALLIED OIL & GAS SERVICES, LLC 055040

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell, Ks

DATE 2-21-14	SEC. 15	TWP. 12	RANGE 18	CALLED OUT	ON LOCATION	JOB START 1100 AM	JOB FINISH 1130 Am
LEASE Karlin Stoop	WELL # #2		LOCATION Hays, Ks			COUNTY Ellis	STATE Ks
OLD OR NEW (Circle one)			N to Buckeye Rd 1/2 East N into				

CONTRACTOR Express Well Service
TYPE OF JOB Port Collar
HOLE SIZE T.D.
CASING SIZE 5½ DEPTH —
TUBING SIZE 2⅜ DEPTH 1445'
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 6.63 bbls 1120 —

OWNER

EQUIPMENT

PUMP TRUCK CEMENTER Corey Hammond
417 HELPER Danny S.
BULK TRUCK
473 DRIVER Joe C
BULK TRUCK
DRIVER

CEMENT

AMOUNT ORDERED 300 sk
60/40 + 4% gel
~~2986.0~~

COMMON	~~200~~ sk	@ $14.93	~~$4,477.00~~
POZMIX		@	
GEL	5 6 4 lb	@ .24	$ 135.36
CHLORIDE		@	
ASC		@	
Flo-Seal	2 # 71 lb	@ 3.70	$ 262.70
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	300 sk 4%	@ 2.48	$ 744.00
MILEAGE	141 11m	260	$ 366.60

TOTAL ~~$5,954.66~~ $ 4,494.66

REMARKS:

See Cementing Job Log
Cement to Surface

SERVICE

DEPTH OF JOB		1445'
PUMP TRUCK CHARGE		$ 2,249.84
EXTRA FOOTAGE	@	
MILEAGE Heavy 20m	@ 7.7	$ 154.00
MANIFOLD hightOm	@ 4.4	$ 44.00
	@	
	@	

TOTAL $ 2447,84

CHARGE TO: Sandlin Oil Inc
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

Good Job!
Fred

To: Allied Oil & Gas Services, 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

SALES TAX (If Any)
TOTAL CHARGES ~~$ 6,832.50~~ $ 6,942.50
DISCOUNT ~~$ 1388.50~~ IF PAID IN 30 DAYS
Net 5554.00