

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaour Exploration & Production LLC

5/7s/28w Sheridan, KS

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schamberger #2-5**

Job Ticket: 64087

**DST#: 1**

ATTN: Bob Peterson

Test Start: 2018.09.15 @ 14:46:00

## GENERAL INFORMATION:

Formation: **LKC upper "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:03:30

Time Test Ended: 23:01:45

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: **4015.00 ft (KB) To 4031.00 ft (KB) (TVD)**

Reference Elevations: 2780.00 ft (KB)

Total Depth: 4031.00 ft (KB) (TVD)

2775.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8652 Outside**

Press@RunDepth: 168.10 psig @ 4016.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.16 End Date: 2018.09.16

Last Calib.: 2018.09.16

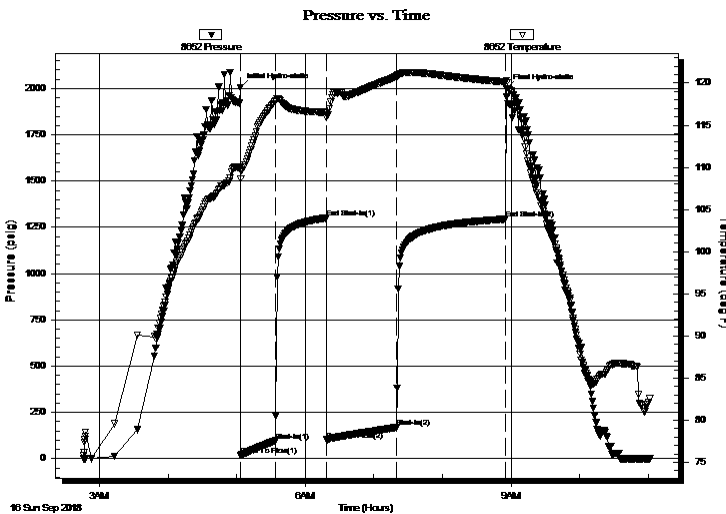
Start Time: 02:46:05 End Time: 11:01:44

Time On Btm: 2018.09.16 @ 05:03:15

Time Off Btm: 2018.09.16 @ 08:56:00

**TEST COMMENT:** 30 - IF: 1/4" Blow at open, built to 8"  
45 - IS: No blow back  
60 - FF: Blow built to BOB (11") at 49 1/4 min., built to 13 1/2"  
90 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.15	109.96	Initial Hydro-static
1	19.85	108.66	Open To Flow (1)
31	96.15	117.84	Shut-In(1)
75	1299.93	116.50	End Shut-In(1)
76	101.83	115.89	Open To Flow (2)
137	168.10	120.75	Shut-In(2)
232	1294.30	120.13	End Shut-In(2)
233	2000.30	120.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
297.00	MCW w/trace oil 84%w, 16%m	2.30
40.00	MW w/oil spots 52%w, 45%m, 3%o	0.56
3.00	CO 97%o, 3%g	0.04

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Suemaur Exploration & Production LLC

**5/7s/28w Sheridan, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schamberger #2-5**

Job Ticket: 64087

**DST#: 1**

ATTN: Bob Peterson

Test Start: 2018.09.15 @ 14:46:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

52000 ppm

Viscosity: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
297.00	MCW w/trace oil 84%w , 16%m	2.299
40.00	MW w/oil spots 52%w , 45%m, 3%o	0.561
3.00	CO 97%o, 3%g	0.042

Total Length: 340.00 ft      Total Volume: 2.902 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

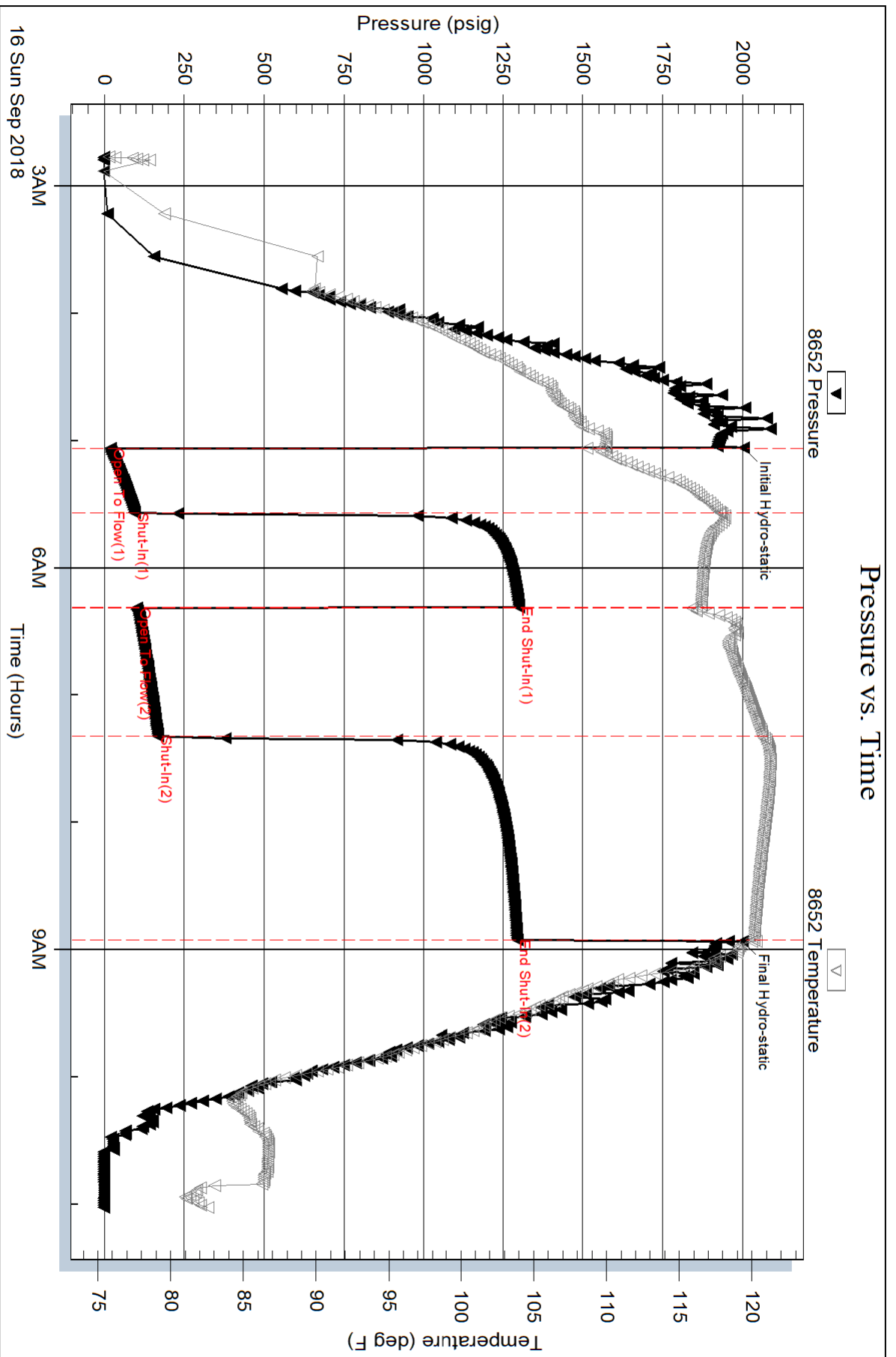
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 36 api @ 80 deg F Corrected Gravity = 34 api

RW = .137 ohms @ 77.6 deg F Chlorides = 52,000 ppm



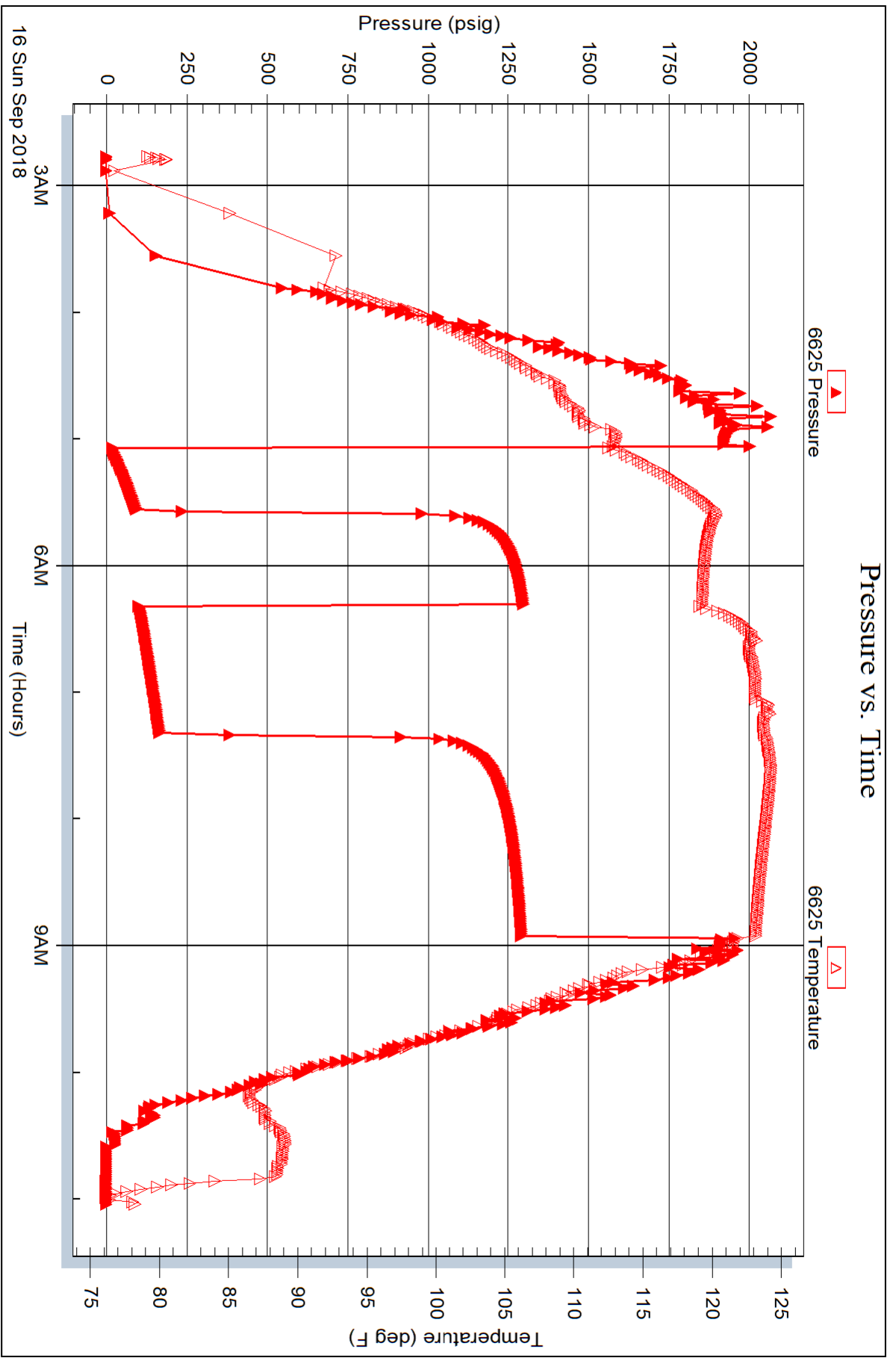
Serial #: 6625

Inside

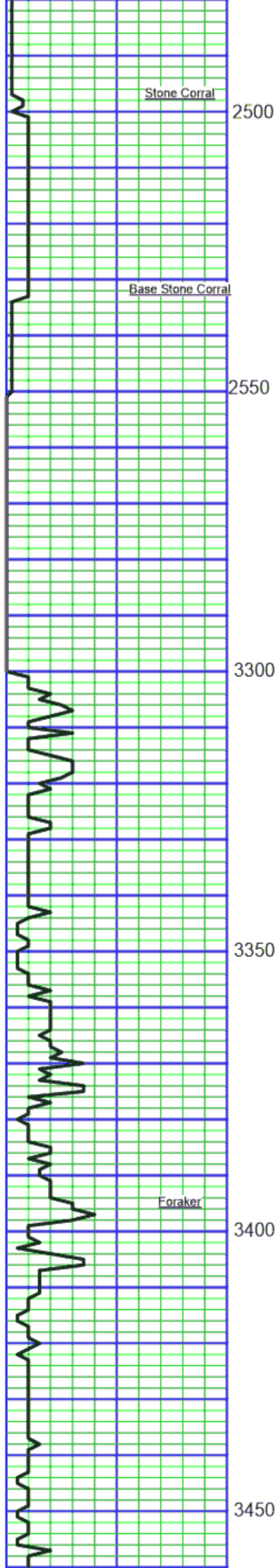
Suennaur Exploration & Production LLC

Scharberger #2-5

DST Test Number: 1







SAMPLE DESCRIPTION

LS; Cream/tan, fine crystalline, chalky + SD; Tan, fine grained + SH; Brown, sandy (3320)

Dolo; Tan, fine crystalline + SH; Red/gray, silty-sandy (3350)

Dolo; Cream/gray, fine crystalline, cherty + SH; Red/gray (3360)

SH; Red, sandy + Dolo; Gray, fine crystalline (3370)

LS; Cream/tan, fine crystalline, dolo, chalky w/black shale mottle + SH; Gray, sandy (3380-3390)

SH; Red/gray, sandy + LS; Cream, fine crystalline, dolomitic, chalky (3400)

Dolo; Gray, fine crystalline, chalky + SH; Green, sandy (3410)

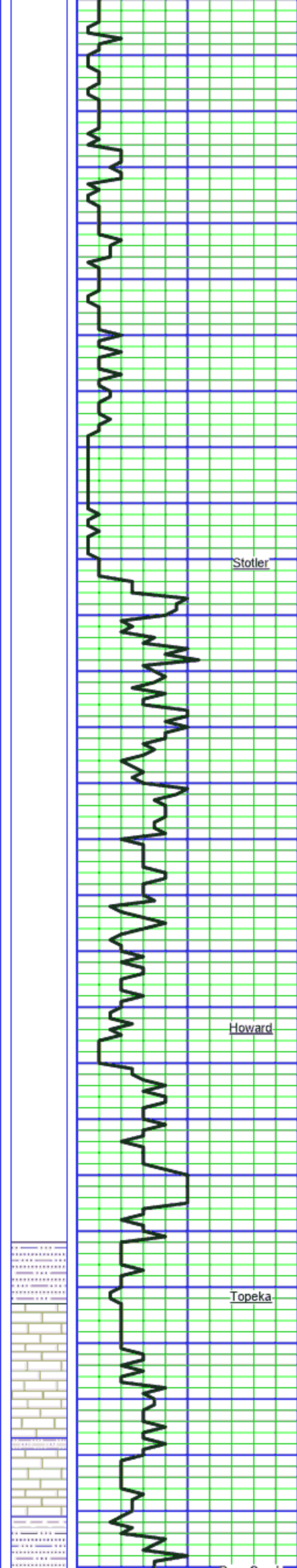
LS; Cream/white w/gray mottle, fine crystalline, dolo, chalky, sl cherty (3430)

LS; Cream/gray, fine crystalline, dolo, chalky, sl cherty, tr dead stain (3440)

LS; Cream/gray, fine crystalline, dolo w/black shalke mottle, very chalky + SH; Dark gray/black (3460)

+ SH;Red/gray, sandy (3470)

LS; Cream/gray, fine crystalline, dolo, cherty + SH; Red/gray, sandy (3480-3490\_



LS; Tan/cream, fine crystalline to dense, chalky, sl mottled + SH; Gray (3500)

LS; Cream/gray, fine crystalline, chalky, mottled, dolomitic + SD; Gray, very fine grained (3510)

3500 LS; Cream/gray, fine crystalline, dolo, shaley + SH; Dark gray (3520-3530))

LS; Cream. Fine crystalline, dolo + SH; Gray, sandy (3540)

LS; Cream w/black shale mottle, fine crystalline to dense, cherty + SH; Red/gray (3550)

3550 LS; Cream/tan, dense, chalky, cherty (3560)

BIT TRIP @3562'  
PULLED PDC BIT  
RAN IN BUTTON BIT

Stotler

MORGAN MUD CHECK 3562'  
VIS 79/WT 8.7/WL 6.0/LCM 6#  
CHLORIDES: 600 PPM

LS; Cream/lt gray, fense, foss, sl cherty, tr dead stain +SH; Green/gray, sandy (3570)

LS; Gray/dark gray, subchalky + SH; Gray-soft, foss (3580)

LS; Tan/gray, fine crystalline to dense, very foss, arg + SH; Black (3590)

LS; Tan, dense, foss, granular, chalky + SH; Gray, silty (3600)

3600 LS; Cream/tan, very fine crystalline to dense, foss, chalky (3610)

LS; Cream/gray, fine crystalline, foss, chalky, sl cherty + SH; Red/gray, sandy (3620)

LS; Cream/white, fine crystalline, foss/ool, granular, chalky w/tr chert inclusions (3630)

LS; Cream/tan, fine crystalline, sl dolo, tr glauc, foss (3640)

LS; Tan, very fine crystalline, chalky (3650)

Howard

SH; Gray, tr sd clear/med -coarse, sl glauc (3650)

3650 LS; Cream/white, fine crystalline, ool, chalky, cherty + SH; Red, sandy (3660)

LS; Cream/gray, fine crystalline, ool, chlaky (3670)

SH; Dark gray/red (3670)

LS; Cream/lt gray, fine crystalline, foss, sl dolo (3680)

SH; Red/gray (3680)

LS; Cream/gray, fine crystalline, foss, sl dolo, cherty + SH; Red/gray (3690)

SH; Gray, sandy + SH; Dark gray (3700)

Topeka

3700 LS; Cream/gray, fine crystalline, foss, chalky (3700)  
LS; Cream/tan, fine crystalline, ool/foss, chalky, sl cherty + SH; Maroon (3710)

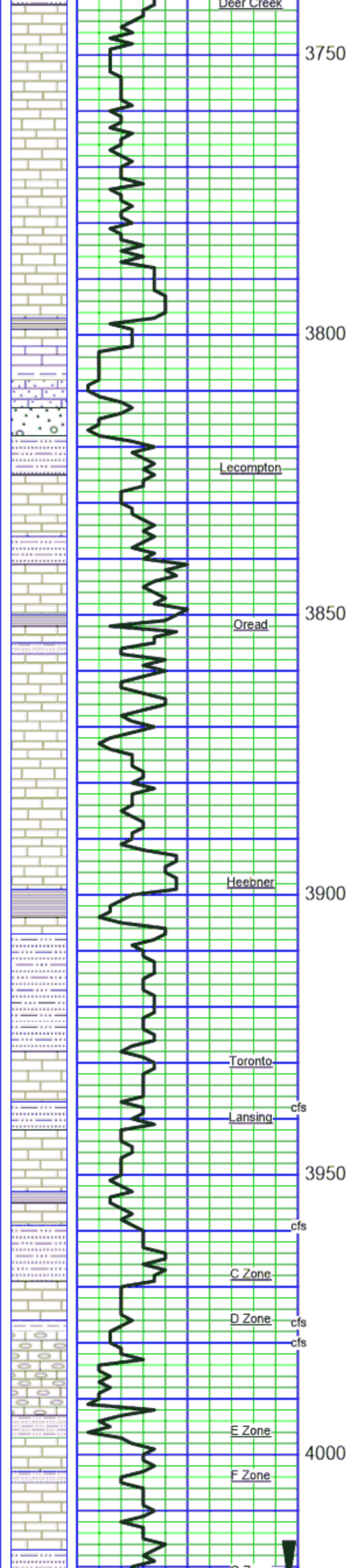
LS; Cream/white, fine crystalline, ool, chalky (3720)

SH; Black/SH; Red, sandy (3730)

LS; Cream/ltgray, fine crystalline, ool, chalky (soft) (3740)

SH; Dark gray/red (3750)

LOST 50 BBL MUD  
RAISED LCM to 12#



LS; Cream/tan, fine crystalline to dense, ool/foss, chalky (3760)

3750

LS; Cream, fine crystalline, ool, chalky (soft)(3770-3780)

LS; Cream/tan, fine crystalline, ool/foss, chalky w/tr chert (3790)

LS; Cream/tan, fine crystalline, ool/foss, chalky + LS; Gray, dense, foss, blocky (3800)

3800

LS; Cream/lt gray, fine crystalline to dense, foss, chalky (3810)

SH; Black (3820)

LS; Gray, fine crystalline, foss, sandy, chalky (3820)

SD; Gray, fine to med, subrounded, friable to well cem, + LS: Tan/gray, foss, sandy + SH; Red/gray, silty, sandy (3830)

Lecompton

SH; Red/gray, sandy (3840)

LS; Cream, fine crystalline, fos, chalky (3840)

SH; Maroon/gray, sandy (3850)

LS; Cream/lt gray, fine crystalline, foss, chalky (3850)

3850

LS; Cream, fine crystalline to dense, foss, chalky (3860)

SH; Black (tr 3860-3870)

Oread

LS; Tan, fine crystalline, foss, chalky + SH; Gray (3870)

LS; Cream/tan, fine crystalline, foss, chalky, cherty (tan angular), tr dead edge stain on fracture (3880)

LS; Cream/tan/gray, fine crystalline, ool-granular, chalky w/fair moldic por (barren) (3890)

Morgan Mud Check 3880'  
VIS 73/WT 8.9/WL 5.6/LCM 14#  
CHL: 600 PPM

LS; Cream/tan/gray, fine crystalline to dense w/coarse crsytalline, chalkt, cherty (angular/tan/gray), tr poor moldic por w/questionable dead stain (3900)

Heebner

3900

LS; Cream/gray, fine crystalline, foss, chalky, cherty (3910)

SH; Black (3910)

LS; Tan/brown, dense, foss, hard, cherty (3920)

SH; Red/gray, sandy (3920/incr 3930) + SD; Gray, fine grained, ang (3930)

Toronto

LS; Cream, fine crystalline, ool, chalky w/poor moldic por (barren) (3938)

LS; Cream, fine crystalline, ool/foss, chalky, cherty (3938/20-40")

Lansing

cfs

SH; Red, silty (3938/40" 3950)

LS; Cream/tan, fine crystalline, ool/foss, chalky, no vis por, tr dead stain (3950)

LS; Cream, fine crystalline, ool-granular, chalky, cherty (orange/cream blocky), tr dead stain in frac no vis por(3960)

3950

LS; Cream/lt gray, fine crystalline, ool-granular, cherty (orange-white-angular to blocky), chalky, sl dolo, poor to fair moldic por (barren)(3960/20")

LS; Cream/tan, fine crystalline, foss, chalky, cherty + SH; Black (3960/40")

SH; Red, sandy (3960/60" 3965)

WIPER TRIP @3960'

LS; Cream/gray, very fine crystalline, foss + SH' Red/gray, silty (3970)

SH; Gray, calc/foss, silty (3975)

SH; Red/gray/green-gray, silty (3976/20-40")

C Zone

LS; Cream/lt gray, fine crystalline, tr cherty matrix, foss, granular in part, chalky, tr cream/gray chert, (3976/40-60")

D Zone

cfs

LS; Cream, fine crystalline, ool, granular in part, sl dolo, chalky (3980/20") LS: Cream/lt gray, fine crystalline to dense, shaley in part (blue-green) + SH; Blue-gren/red (3980/40")

LS; Lt gray, very fine crystalline, cherty (orange/cream blocky) + SH; Red, silty (3980/60")

LS; Cream, fine crystalline to dene, chalky, cherty (abund orange/cream blocky (3990-4000)

E Zone

SH; Dark gray (4000-4010)

4000

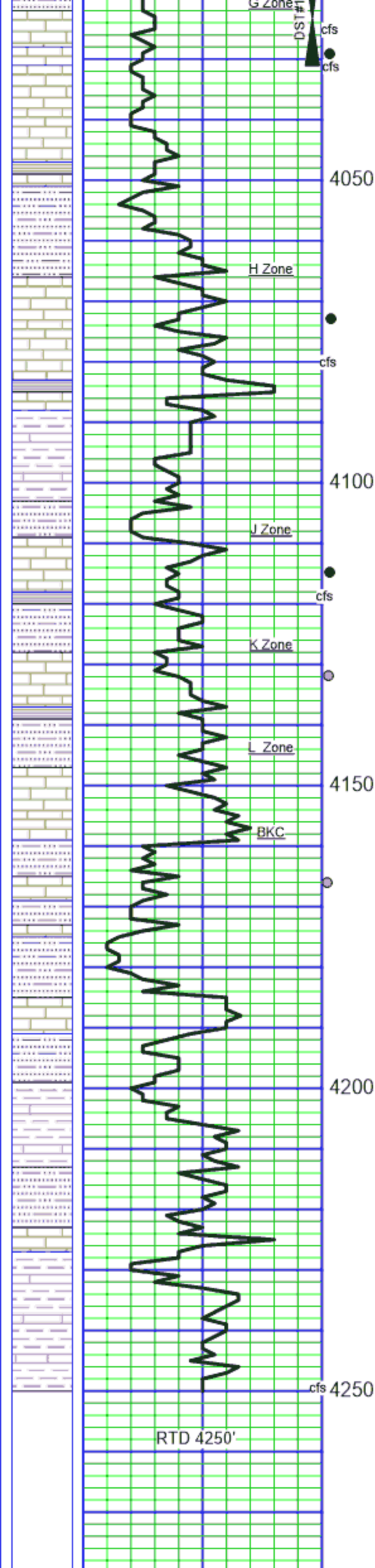
LS; Cream/lt gray, very fine crystalline, ool/foss, chalky (4010)

F Zone

LS; Cream/tan, very fine to fine crystalline, ool/foss granular in part, chalky (soft) (4020)

SH; Red, sandy (4025/15")

DST #1  
4015-4031'  
30-45-60-90 min.  
IF: Built to 8"  
No return blow  
FF: B.O.B. in 49 1/4 min.  
(built to 13 1/2" in 60 min.)  
No return blow  
Recovered:  
3' Clean oil  
40' MW w/oil spots  
(3% oil/52% w/45% mud)  
297' MCW w/tr oil  
(tr oil/84% w/16% mud)  
SIP: 1300-1254#  
FP: 20-96/102-168#  
HP: 2004-2000#



LS; Cream/gray, fine crystalline to dense, foss/ool gran in part, chalky (4025/15-30") sl dolo, tr chert, tr edge stain, nsfo (4025/45-60")(4031/15")  
 LS; Cream/white, fine crystalline, foss, granular w/fair to good moldic por, gsfo, odor, dark sat on dry (4031/30-60")  
 LS; Cream/white, fine crystalline, foss, chalky (4040) (poor sample)

BHT: 120F  
 OIL API: 34  
 SPOT 40 BBL MUD (NO LCM)  
 @ 4031' BEFORE DST  
 MORGAN MUD CHECK 4031'  
 VIS 64/Wt 8.5/WL 6.0/LCM 12#  
 CHLORIDES 600 PPM

LS; Cream/lt gray, fine crystalline, foss, chalky (4050) cherty(blocky) + SH; Black(4060)

SH; Red/gray, sandy + LS; Cream/tan/brown, fine crystalline to dense, foss, cherty, chalky, tr dead oil flakes from crushed sample (4070)

SH; Red/gray, silty-sandy (4080)  
 LS; Cream/tan, fine crystalline, ool-granular, chalky-cherty, tr poor intergran /moldic por, sfo (black) odor, dark brown sat on dry (4080/4080-15")  
 LS; Cream/lt gray/tan, fine crystalline to dense, foss, chalky, cherty (4080/15")  
 SH; Black (tr 4080/30")  
 LS; Cream/gray, very fine crystalline to dense, foss, chalky, cherty + SH; Dark gray/red (4090)

LS; Cream/gray, fine crystalline tr coarse crystalline, foss; hard, chalky in part, + SH; Red/gray, silty-sandy, tr hard blocky red shale (4100)

LS; Gray, fine crystalline, foss, shaley in part + LS: Cream, fine crystalline, foss, chalky, trace chert (white) + SH; Gray, silty-sandy (4110)

SH; Red, silty-sandy (4118)

LS; Cream/gray, very fine crystalline, foss, chalky (4118)  
 LS; Cream, fine crystalline, foss in part, w/fair moldic/ppt por, sfo (brown), odor, med brown stain on dry (4118/15-30")  
 LS; Lt gray, fine crystalline, foss, chalky (4120)  
 SH; Black/dark gray (tr 4130)

SH; Red/gray, sandy +SD; Gray, fine grained, silty, friable to well cem (4140)

LS; Cream/tan/lt gray, sl fos, chalky w/tr ppt por, w/edge stain, vssfo, no odor (4140)

LS; Cream, very fine crystalline to dense, chalky, sl cherty (4150)

SH; Black /SH; Red, silty(4160)  
 LS; Cream, very fine crystalline to dense, foss, chalky (4160)  
 LS; Cream/lt gray, very fine crystalline to dense, chalky, sl cherty w/tr red shale stain (4170)  
 SH; Red/gray, silty-sandy (4170)  
 LS; Cream, very fine crystalline to dense, sl foss, chalky, tr ppt por, vssfo, no odor,lt brown stain dry (4180)

SH; Red, silty-sandy (4180)+ SD; Gray, fine grained (4190)

LS; Cream/tan, dense. Foss, chalky (4200)

SH; Maroon/gray/green-gray, hard-sandy in part + LS; Cream/gray/tan, dense, foss, cherty (4210)

LS; Cream, dense, sandy, chalky + SH; Maroon/red, silty (4220)

SH; Maroon/gray/dark gray SD; Gray, hard + LS; Cream, dense, chalky w/red shale stain (4230)

LS; Cream, fine crystalline, foss, cherty +SH; Red, silty (4240)

SH; Maroon/gray, sandy + LS; Cream, fine crystalline to dense, foss (4250)SH; Maroon/gray, sandy-w/tr coarse Sd + LS; Cream/tan, foss, cherty (4250/15")

SH; Maroon/red, sandy + LS: Cream/gray, fine crystalline to dense, sl chalky, shaley-red (4250/45")

Morgan Mud Check 4228'  
 Vis 72/Wt 9.1/WL 6.4/LCM 14#  
 CHLORIDES 1,200 PPM

RTD 4250'

SUEMAUR EXPLORATION & PRODUCTION, LLC

SCHAMBERGER #2-5  
SEC. 5 TWP 7S RGE 28W  
1989' FNL & 1868' FEL  
SHERIDAN COUNTY, KANSAS  
API: 15-179-21455-00-00

ELEVATION  
KB: 2781'  
GL: 2776'  
LOG MEASURED  
FROM: KB

9/11/2018

Customer Name Suemaar Exploration  
 Well Name Schamberger 2-5  
 Job Type Surface

District Liberal  
 Supervisor Victor Corona-Marta  
 Engineer Kevin Aldridge



Seq No.	Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	9/11/2018 10:00p m	Mobilization	Arrive on Location	Cement Pump Truck	48					Arrived at location
2		Operational	Other (See comments)		76					
3		Operational	Rig Up	Cement Pump Truck	50					rig up to rig
4	12:45	Operational	Safety Meeting							safety meeting with rig crew and BJ crew
5	1:15	Operational	Pressure Test	Cement Pump Truck	54				1500	pressure test lines
6	1:16	Operational	Pump Spacer	Cement Pump Truck	56	8.33	2	10	100	20bbls of ultra flush spacer
7	1:20	Operational	Pumping Cement	Cement Pump Truck	61	14.9	5	65.6	140	pumping lead cement 65.6bbls from 275sacks at 14.9lbs
8										
11	1:44	Operational	Other (See comments)		76					wash pump and lines on top of plug
12	1:50	Operational	Pump Displacement	Cement Pump Truck	64	8.33	4	10	40	10bbls gone
13	2:00	Operational	Pump Displacement	Cement Pump Truck	64	8.33	4	18.6	90	18.6bbls gone
15										
496										had to wait for cement to set
39										had 20 bbls on water returns
40										
41										rig down
42										
43										Crew and I thanked the company man and rig crew for job opportunity
44										
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# EVENT LOG



**Customer Name:** SUEMAUR EXPLORATION and PRODUCTION LLC

**Well Name:** SCHAMBERGER 2-5

**Job Type:** Plug & Abandon

**Quote ID:** QUO-19564-ROQ0N9

**Plan ID:** ORD-11175-X5G5M8

**Execution ID:** EXC-11175-X5G5M802

**Fleets:**

**District:** Liberal, KS

**BJ Supervisor:** Aldo Espinoza Galindo

Seq.	Start Dt./Time	Event	Equipment	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	09/18/2018 19:00	Arrive on Location						
2	09/18/2018 19:25	Rig Up						Rigging up to well head to pump the first plug
3	09/18/2018 20:00	Pumping Cement		13.8000	4.00	12.60	250.00	Pump first plug @2510'
4	09/18/2018 21:00	Pumping Cement		13.8000	4.00	25.50	180.00	Pump Second Plug @1675'
5	09/18/2018 22:30	Pumping Cement		13.8000	4.00	12.60	140.00	Pump Third Plug @350'
6	09/18/2018 23:45	Pumping Cement		13.8000	4.00	2.52	130.00	Pump Four Plug @40'
7	09/19/2018 01:00	Pumping Cement		13.8000	4.00	11.46	120.00	Plug Rat and Mouse Hole



Customer: SUEMAUR EXPLORATION  
Date: Tuesday, September 18, 2018  
Well Name: SCHAMBERGER # 2-5  
Well Location: HOXIE  
Supervisor: Aldo Espinosa

Equipment Operators: ALDO ESPINOZA - GERARDO BURCIAGA - LUIS RUIZ

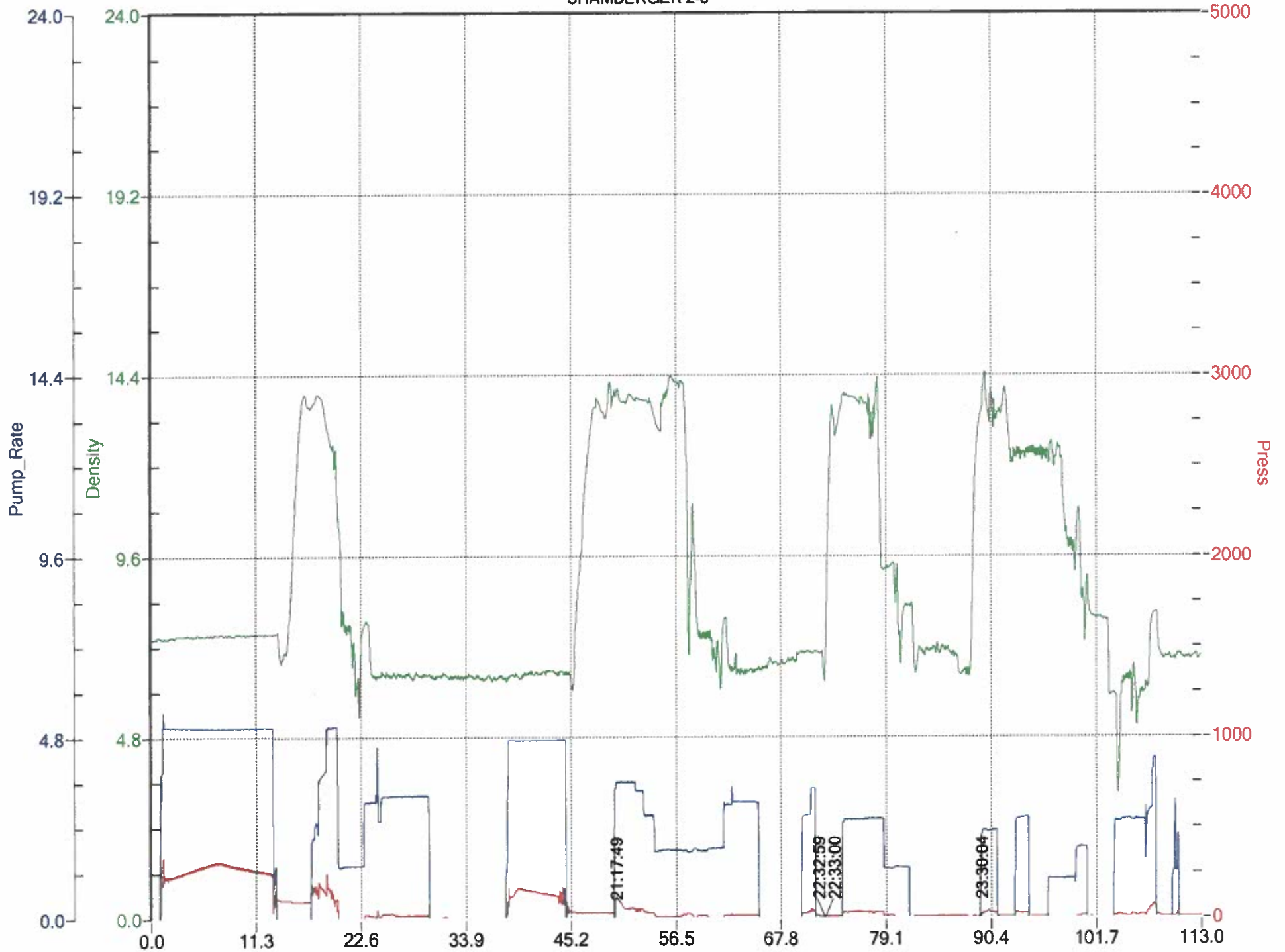
Performance	Customer	
Was the appearance of the personnel and equipment satisfactory?	Yes	No
Was the job performed in a professional manner?	Yes	No
Were the calculations prepared and explained properly?	Yes	No
Were the correct services dispatched to the job site?	Yes	No
Were the services performed as requested?	Yes	No
Did the job site environment remain unchanged?	Yes	No
Did the equipment perform in the manner expected?	Yes	No
Did the materials meet your expectations?	Yes	No
Was the crew prepared for the job?	Yes	No
Was the crew prompt in the rig-up and actual job?	Yes	No
Were reasonable recommendations given, as requested?	Yes	No
Did the crew perform safely?	Yes	No
Was the job performed to your satisfaction?	Yes	No

Customer Signature:  Date:

Additional Comments:



SUEMAUR EXPLORATION P.T.A.  
SHAMBERGER 2-5





**CEMENT MIXING WATER GUIDELINES**

Company Name:

**SUEMAUR EXPLORATION**

Lease Name:

**SCHAMBERGER # 2-5**

County

**SHERIDAN**

State

**KS**

Water Source:

**TANK**

Submitted By:

**Aldo Espinosa**

Date:

**9/18/2018**

pH Level

**7**

Must be less than 8.5

Sulfates

**400**

Must be less than 1,000 PPM

Chlorides

**0**

Must be less than 3,000 PPM

Temperature

**64**

**COMMENTS**

Thank You

Customer Signature

# Cementing Treatment



<b>Start Date</b>	9/18/2018	<b>Field Ticket#</b>	
<b>End Date</b>	9/18/2018	<b>Well</b>	SCHAMBERGER 2-5
<b>Client</b>	SUEMAUR EXPLORATION and PRODUCTION LLC	<b>API#</b>	15-179-21455
<b>Client Field Rep.</b>		<b>Well Classification</b>	
<b>Service Sup.</b>	Aldo Espinoza Galindo	<b>County</b>	SHERIDAN
<b>District</b>	Liberal, KS	<b>State/Province</b>	KS
<b>Type of Job</b>	Plug & Abandon	<b>Formation</b>	
<b>Execution ID</b>	EXC-11175-X5G5M802	<b>Rig</b>	
<b>Project ID</b>	PRJ1010890		

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	7.88			3,600.00	3,600.00			
Tubing	2.44	2.88	6.50	3,600.00	3,600.00			

Shoe Length (ft):

## HARDWARE

<b>Bottom Plug Used?</b>	No	<b>Tool Type</b>
<b>Bottom Plug Provided By</b>		<b>Tool Depth (ft)</b>
<b>Bottom Plug Size</b>		<b>Max Tubing Pressure - Rated (psi)</b>
<b>Top Plug Used?</b>	No	<b>Max Tubing Pressure - Operated (psi)</b>
<b>Top Plug Provided By</b>		<b>Max Casing Pressure - Rated (psi)</b>

# Cementing Treatment



<b>Top Plug Size</b>		<b>Max Casing Pressure - Operated (psi)</b>
<b>Centralizers Used</b>	No	<b>Pipe Movement</b>
<b>Centralizers Quantity</b>		<b>Job Pumped Through</b>
<b>Centralizers Type</b>		<b>Top Connection Thread</b>
<b>Landing Collar Depth (ft)</b>	3,600	<b>Top Connection Size</b>

## CIRCULATION PRIOR TO JOB

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<b>Well Circulated By</b>		<b>Solids Present at End of Circulation</b>	No
<b>Circulation Prior to Job</b>	No	<b>10 sec SGS</b>	
<b>Circulation Time (min)</b>		<b>10 min SGS</b>	
<b>Circulation Rate (bpm)</b>		<b>30 min SGS</b>	
<b>Circulation Volume (bbls)</b>		<b>Flare Prior to/during the Cement Job</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Gas Present</b>	No
<b>Mud Density In (ppg)</b>		<b>Gas Units</b>	
<b>Mud Density Out (ppg)</b>			
<b>PV Mud In</b>			
<b>PV Mud Out</b>			
<b>YP Mud In</b>			
<b>YP Mud Out</b>			

## TEMPERATURE

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# Cementing Treatment



Ambient Temperature (°F)

Slurry Cement Temperature (°F)

Mix Water Temperature (°F)

Flow Line Temperature (°F)

## BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Top-Out / Scavenger Slurry	Plug 1 @ 2500	13.8000	1.4259	6.89		0	50	72.0000	12.8000
Top-Out / Scavenger Slurry	Plug 2 @ 1665	13.8000	1.4259	6.89		0	100	143.0000	25.5000
Top-Out / Scavenger Slurry	Plug 3 @ 340	13.8000	1.4259	6.89		0	50	72.0000	12.8000
Top-Out / Scavenger Slurry	Plug 4 @ 40	13.8000	1.4259	6.89		0	10	15.0000	2.7000
Top-Out / Scavenger Slurry	RH/MH Plug	13.8000	1.4259	6.89		0	45	65.0000	11.6000

Fluid Type	Fluid Name	Component	Concentration	UOM
Top-Out / Scavenger Slurry	Plug 1 @ 2500	EXTENDER, BENTONITE	4.0000	BWOB
Top-Out / Scavenger Slurry	Plug 1 @ 2500	CEMENT, ASTM TYPE I	60.0000	PCT
Top-Out / Scavenger Slurry	Plug 1 @ 2500	CEMENT, FLY ASH (POZZOLAN)	40.0000	PCT
Top-Out / Scavenger Slurry	Plug 1 @ 2500	IntegraSeal CELLO	0.2500	LBS/SK
Top-Out / Scavenger Slurry	Plug 2 @ 1665	CEMENT, FLY ASH (POZZOLAN)	40.0000	PCT

# Cementing Treatment



Top-Out / Scavenger Slurry	Plug 2 @ 1665	CEMENT, ASTM TYPE I	60.0000 PCT
Top-Out / Scavenger Slurry	Plug 2 @ 1665	EXTENDER, BENTONITE	4.0000 BWOB
Top-Out / Scavenger Slurry	Plug 2 @ 1665	IntegraSeal CELLO	0.2500 LBS/SK
Top-Out / Scavenger Slurry	Plug 3 @ 340	CEMENT, FLY ASH (POZZOLAN)	40.0000 PCT
Top-Out / Scavenger Slurry	Plug 3 @ 340	EXTENDER, BENTONITE	4.0000 BWOB
Top-Out / Scavenger Slurry	Plug 3 @ 340	IntegraSeal CELLO	0.2500 LBS/SK
Top-Out / Scavenger Slurry	Plug 3 @ 340	CEMENT, ASTM TYPE I	60.0000 PCT
Top-Out / Scavenger Slurry	Plug 4 @ 40	CEMENT, ASTM TYPE I	60.0000 PCT
Top-Out / Scavenger Slurry	Plug 4 @ 40	EXTENDER, BENTONITE	4.0000 BWOB
Top-Out / Scavenger Slurry	Plug 4 @ 40	IntegraSeal CELLO	0.2500 LBS/SK
Top-Out / Scavenger Slurry	Plug 4 @ 40	CEMENT, FLY ASH (POZZOLAN)	40.0000 PCT
Top-Out / Scavenger Slurry	RH/MH Plug	CEMENT, ASTM TYPE I	60.0000 PCT
Top-Out / Scavenger Slurry	RH/MH Plug	CEMENT, FLY ASH (POZZOLAN)	40.0000 PCT
Top-Out / Scavenger Slurry	RH/MH Plug	EXTENDER, BENTONITE	4.0000 BWOB
Top-Out / Scavenger Slurry	RH/MH Plug	IntegraSeal CELLO	0.2500 LBS/SK

## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Plug 1 @ 2500	0.00	12.80			
	Plug 2 @ 1665	0.00	25.50			
	Plug 3 @ 340	0.00	12.80			
	Plug 4 @ 40	0.00	2.70			
	RH/MH Plug	0.00	11.60			

# Cementing Treatment



	Min	Max	Avg
Pressure (psi)			
Rate (bpm)			

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By		Amount of Cement Returned/Reversed	
Calculated Displacement Volume (bbls)		Method Used to Verify Returns	
Actual Displacement Volume (bbls)		Amount of Spacer to Surface	
Did Float Hold?	Yes	Pressure Left on Casing (psi)	
Bump Plug	No	Amount Bled Back After Job	
Bump Plug Pressure (psi)		Total Volume Pumped (bbls)	
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement returns During Job		Lost Circulation During Cement Job	No

## CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

## SQUEEZE

Injection Rate (bpm)		Fluid Density (ppg)	
Injection Pressure (psi)		ISIP (psi)	

# Cementing Treatment



Type of Squeeze

FSIP (psi)

Operators Max SQ Pressure (psi)

## COMMENTS

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Treatment Report

Job Summary