KOLAR Document ID: 1371503

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 # 31819
Name: Cholla Production, LLC
Address 1: 10390 BRADFORD RD. SUITE 201
Address 2:
City: LITTLETON State: CO Zip: 80127 + ____
Contact Person: EMILY HUNDLEY-GOFF
Phone: (303) 623-4565
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: CLAYTON ERICKSON
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 #:

10/10/2017 Spud Date or Recompletion Date
10/19/2017 Date Reached TD
10/20/2017 Completion Date or Recompletion Date

API No.: 15-083-21945-00-00
Spot Description:
SE - SW - SW - NE Sec. 18 Twp. 21 S. R. 26 ☐ East ☑ West
2510 Feet from ☑ North / ☐ South Line of Section
2150 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: Hodgeman
Lease Name: SRF FARMS Well #: 1-18
Field Name:
Producing Formation: NA
Elevation: Ground: 2531 Kelly Bushing: 2539
Total Vertical Depth: 5000 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 305 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: 11800 ppm Fluid volume: 800 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: 11/06/2017
☑ **Confidential Release Date:** 11/06/2019
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 11/06/2017

Operator Name: Cholla Production, LLC Lease Name: SRF FARMS Well #: 1-18

Sec. 18 Twp. 21 S. R. 26 ☐ East ☑ West County: Hodgeman

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

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

Name	Top	Datum
STONE CORRAL	1765	774
HEEBNER	3852	-1313
BASE KANSAS CITY	4280	-1741
MISSISSIPPIAN	4536	-1997
VIOLA	4939	-2400

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	305	COMMON	185	3%CC;2%GEL;1/4#FLOW SEAL

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	-			
	-			

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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Cholla Production, LLC
Well Name	SRF FARMS 1-18
Doc ID	1371503

All Electric Logs Run

INDUCTION
SONIC
MICROLOG
DENSITY/NEUTRON

Form	ACO1 - Well Completion
Operator	Cholla Production, LLC
Well Name	SRF FARMS 1-18
Doc ID	1371503

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	305	COMMON	185	3%CC;2% GEL;1/4#FLOW SEAL

DRILL STEM TEST REPORT

Cholla Prodution LLC

10390 Bradford Rd Suite 201 Littleton Co 80127

ATTN: Bill Goff ,Clayton E

18-21s-26w Hodgeman

SRF Farms 1-18

Job Ticket: 63089 **DST#: 1**

Test Start: 2017.10.17 @ 05:10:34

GENERAL INFORMATION:

Formation: **Lower Cher**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:44:14
Time Test Ended: 12:44:43

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schw ager
Unit No: 77

Interval: 4450.00 ft (KB) To 4525.00 ft (KB) (TVD)
Total Depth: 4525.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

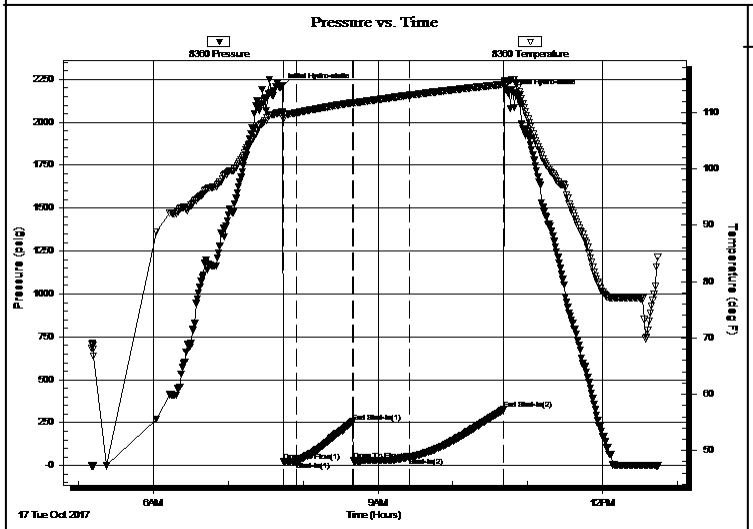
Reference Elevations: 2539.00 ft (KB)
2531.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8360 **Inside**

Press@RunDepth: 49.16 psig @ 4458.00 ft (KB)
Start Date: 2017.10.17 End Date: 2017.10.17
Start Time: 05:10:34 End Time: 12:44:43

Capacity: 8000.00 psig
Last Calib.: 2017.10.17
Time On Btm: 2017.10.17 @ 07:42:14
Time Off Btm: 2017.10.17 @ 10:44:13

TEST COMMENT: 10-IFP-surface bl , died in 7 min
45-ISIP-no bl
30-FFP-surface bl , died in 20 min
90-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2204.65	110.05	Initial Hydro-static
2	23.38	108.86	Open To Flow (1)
13	26.87	109.99	Shut-In(1)
58	255.62	111.77	End Shut-In(1)
58	28.59	111.72	Open To Flow (2)
103	49.16	113.09	Shut-In(2)
179	325.85	115.00	End Shut-In(2)
182	2169.30	115.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / show of oil	0.02

Gas Rates

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

DRILL STEM TEST REPORT

Cholla Prodution LLC

10390 Bradford Rd Suite 201 Littleton Co 80127

ATTN: Bill Goff ,Clayton E

18-21s-26w Hodgeman

SRF Farms 1-18

Job Ticket: 63089 **DST#: 1**

Test Start: 2017.10.17 @ 05:10:34

GENERAL INFORMATION:

Formation: **Lower Cher**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:44:14
Time Test Ended: 12:44:43

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schw ager
Unit No: 77

Interval: 4450.00 ft (KB) To 4525.00 ft (KB) (TVD)
Total Depth: 4525.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

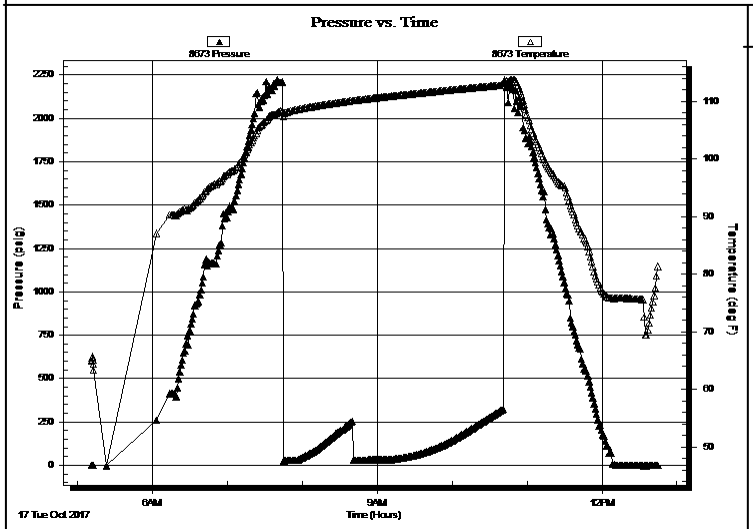
Reference Elevations: 2539.00 ft (KB)
2531.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8673 **Outside**

Press@RunDepth: psig @ 4458.00 ft (KB)
Start Date: 2017.10.17 End Date: 2017.10.17
Start Time: 05:11:03 End Time: 12:44:57

Capacity: 8000.00 psig
Last Calib.: 2017.10.17
Time On Btm:
Time Off Btm:

TEST COMMENT: 10-IFP-surface bl , died in 7 min
45-ISIP-no bl
30-FFP-surface bl , died in 20 min
90-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / show of oil	0.02

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Prodution LLC

10390 Bradford Rd Suite 201 Littleton Co 80127

ATTN: Bill Goff ,Clayton E

18-21s-26w Hodgeman

SRF Farms 1-18

Job Ticket: 63089 **DST#: 1**

Test Start: 2017.10.17 @ 05:10:34

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.75 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / show of oil	0.025

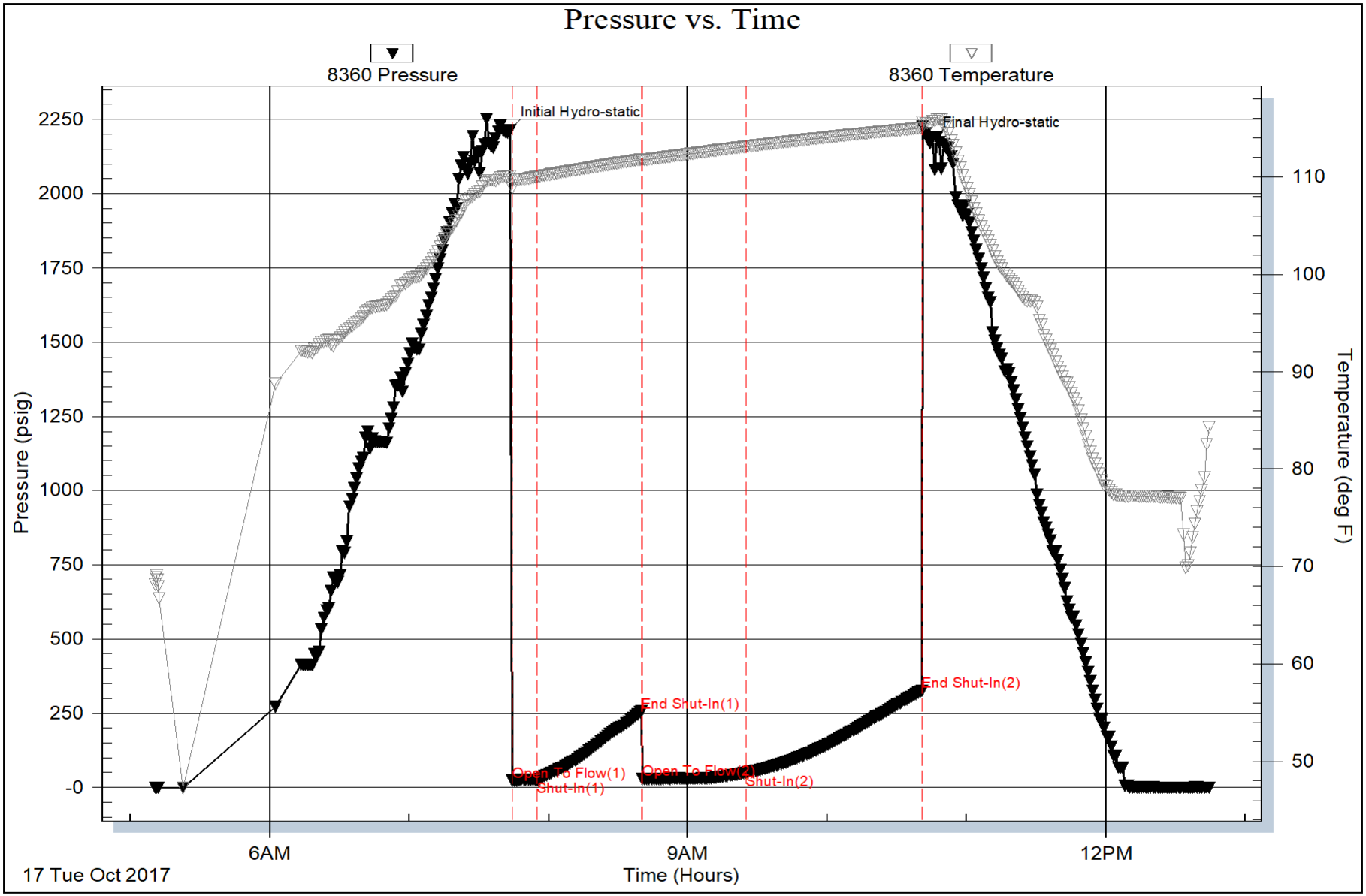
Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

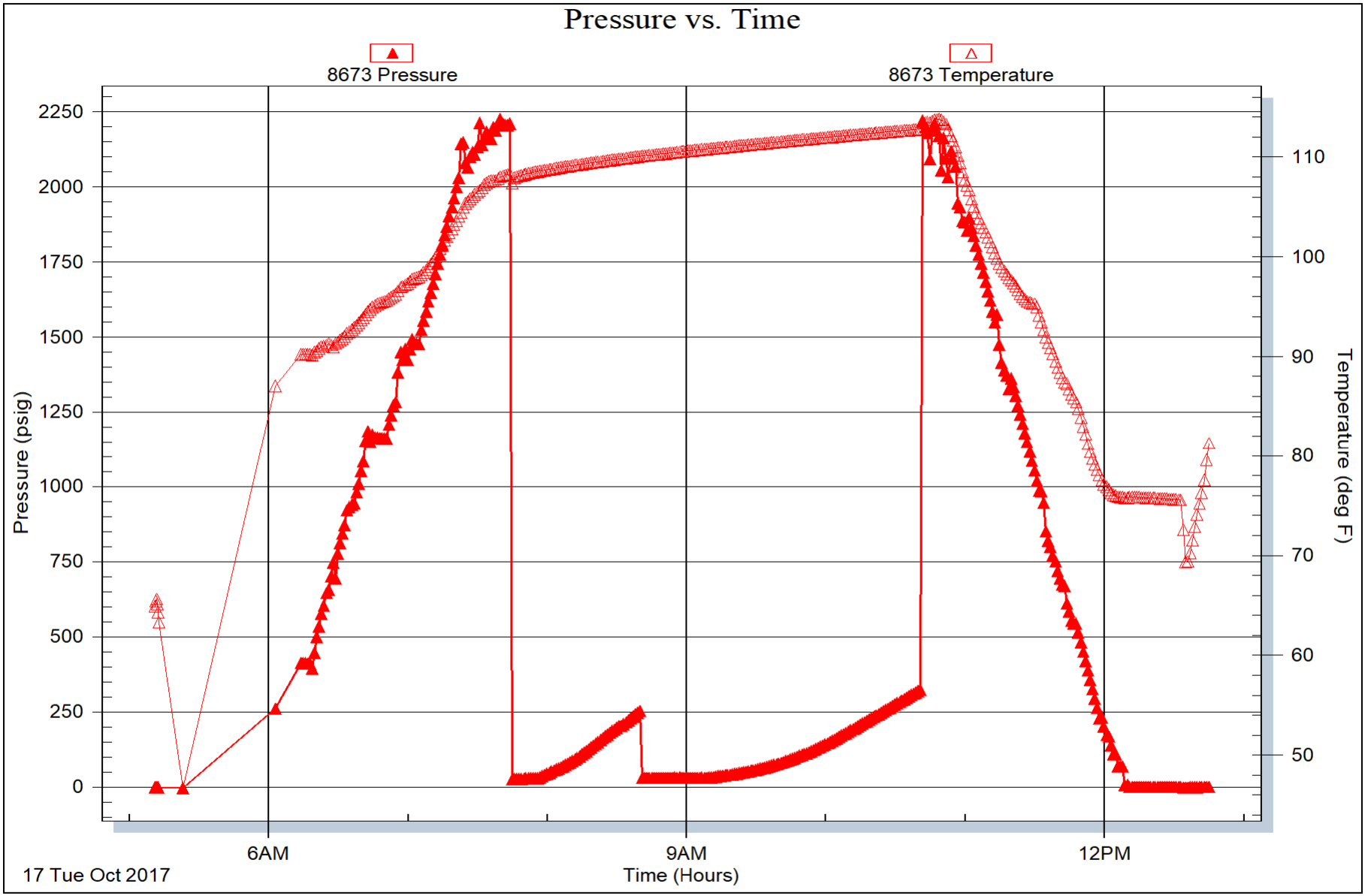
Recovery Comments: Sampler Data: 1900 ML mud 100ML Oil PSI 50#

Serial #: 8360 **Inside** Cholla Prodution LLC SRF Farms 1-18 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63089 Printed: 2017.10.17 @ 13:11:19

Serial #: 8673 **Outside** Cholla Prodution LLC SRF Farms 1-18 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63089 Printed: 2017.10.17 @ 13:11:19

DRILL STEM TEST REPORT

Cholla Prodution LLC

10390 Bradford Rd Suite 201 Littleton Co 80127

ATTN: Bill Goff ,Clayton E

18-21s-26w Hodgeman

SRF Farms 1-18

Job Ticket: 63090 **DST#: 2**

Test Start: 2017.10.18 @ 09:10:24

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:32:34
Time Test Ended: 17:31:33

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schw ager
Unit No: 77

Interval: 4540.00 ft (KB) To 4660.00 ft (KB) (TVD)
Total Depth: 4660.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

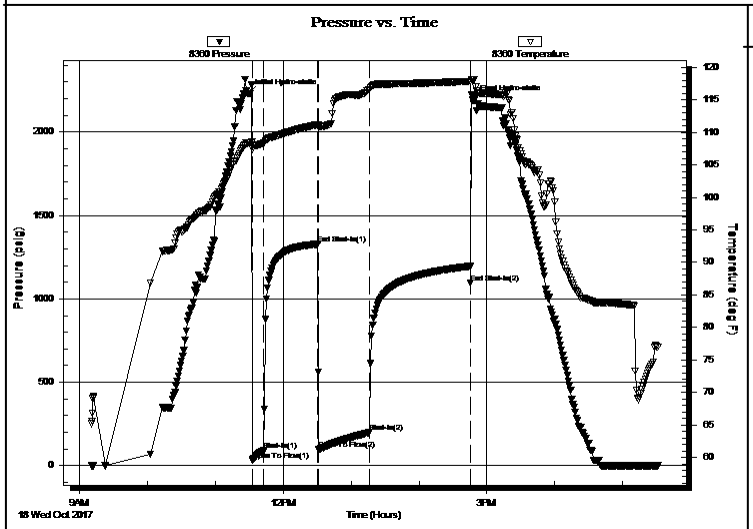
Reference Elevations: 2539.00 ft (KB)
2531.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8360 **Inside**

Press@RunDepth: 199.83 psig @ 4542.00 ft (KB)
Start Date: 2017.10.18 End Date: 2017.10.18
Start Time: 09:10:24 End Time: 17:31:33

Capacity: 8000.00 psig
Last Calib.: 2017.10.18
Time On Btm: 2017.10.18 @ 11:29:19
Time Off Btm: 2017.10.18 @ 14:48:03

TEST COMMENT: 10-IFP-w k to a fr bl 1/2to 5 1/2"bl
45-ISIP-no bl bk
45-FFP-w k to a gd bl 1/4"to 8"bl
90-FSIP-no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.23	108.41	Initial Hydro-static
4	32.45	107.44	Open To Flow (1)
14	90.01	108.32	Shut-In(1)
62	1327.96	111.24	End Shut-In(1)
62	96.48	110.89	Open To Flow (2)
107	199.83	116.67	Shut-In(2)
196	1095.81	117.81	End Shut-In(2)
199	2191.04	118.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	MW 35%M65%W	4.24

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Cholla Prodution LLC

10390 Bradford Rd Suite 201 Littleton Co 80127

ATTN: Bill Goff ,Clayton E

18-21s-26w Hodgeman

SRF Farms 1-18

Job Ticket: 63090 **DST#: 2**

Test Start: 2017.10.18 @ 09:10:24

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:32:34
Time Test Ended: 17:31:33

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schw ager
Unit No: 77

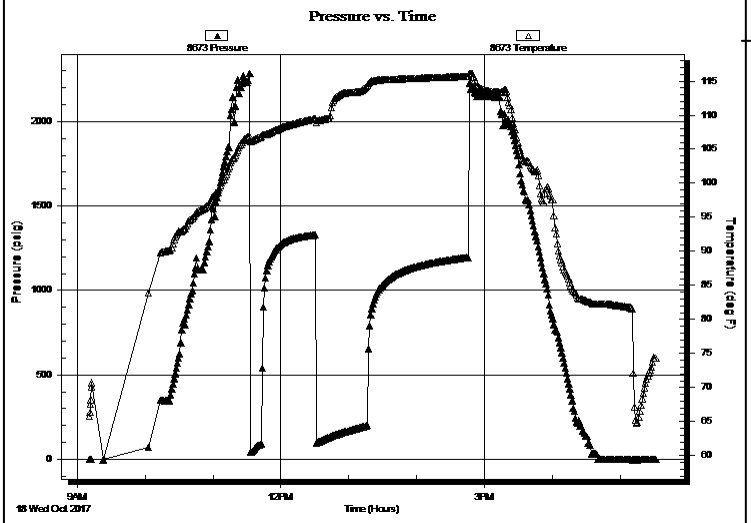
Interval: 4540.00 ft (KB) To 4660.00 ft (KB) (TVD)
Total Depth: 4660.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2539.00 ft (KB)
2531.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8673 **Outside**
Press@RunDepth: psig @ 4542.00 ft (KB)
Start Date: 2017.10.18 End Date: 2017.10.18
Start Time: 09:10:54 End Time: 17:31:48

Capacity: 8000.00 psig
Last Calib.: 2017.10.18
Time On Btm:
Time Off Btm:

TEST COMMENT: 10-IFP-w k to a fr bl 1/2to 5 1/2"bl
45-ISIP-no bl bk
45-FFP-w k to a gd bl 1/4"to 8"bl
90-FSIP-no bl bk



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
380.00	MW 35%M65%W	4.24

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Prodution LLC

10390 Bradford Rd Suite 201 Littleton Co 80127

ATTN: Bill Goff ,Clayton E

18-21s-26w Hodgeman

SRF Farms 1-18

Job Ticket: 63090 **DST#: 2**

Test Start: 2017.10.18 @ 09:10:24

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:	26000 ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.16 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2750.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	MW 35%M65%W	4.237

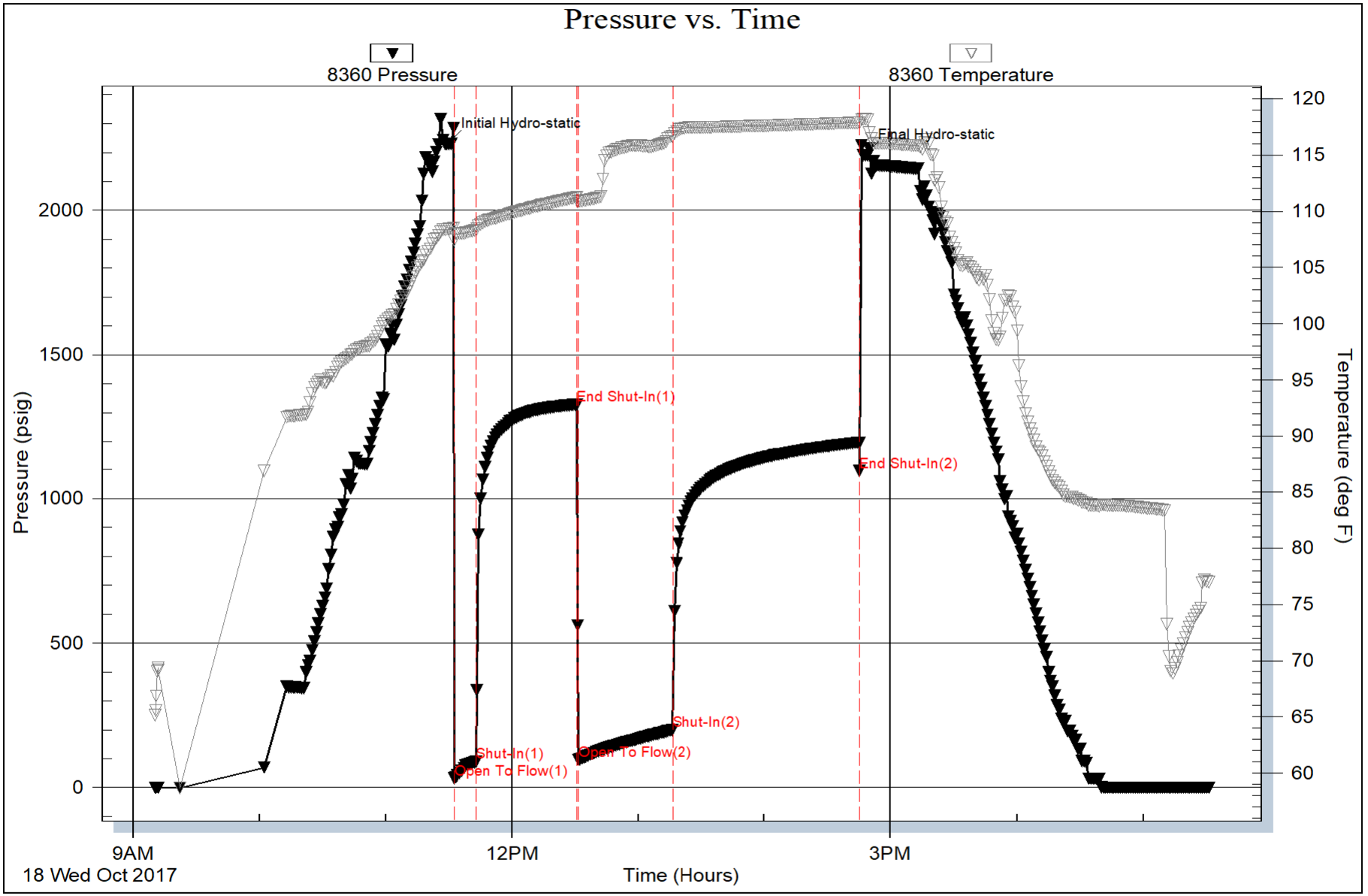
Total Length: 380.00 ft Total Volume: 4.237 bbl

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

Laboratory Name: Laboratory Location:

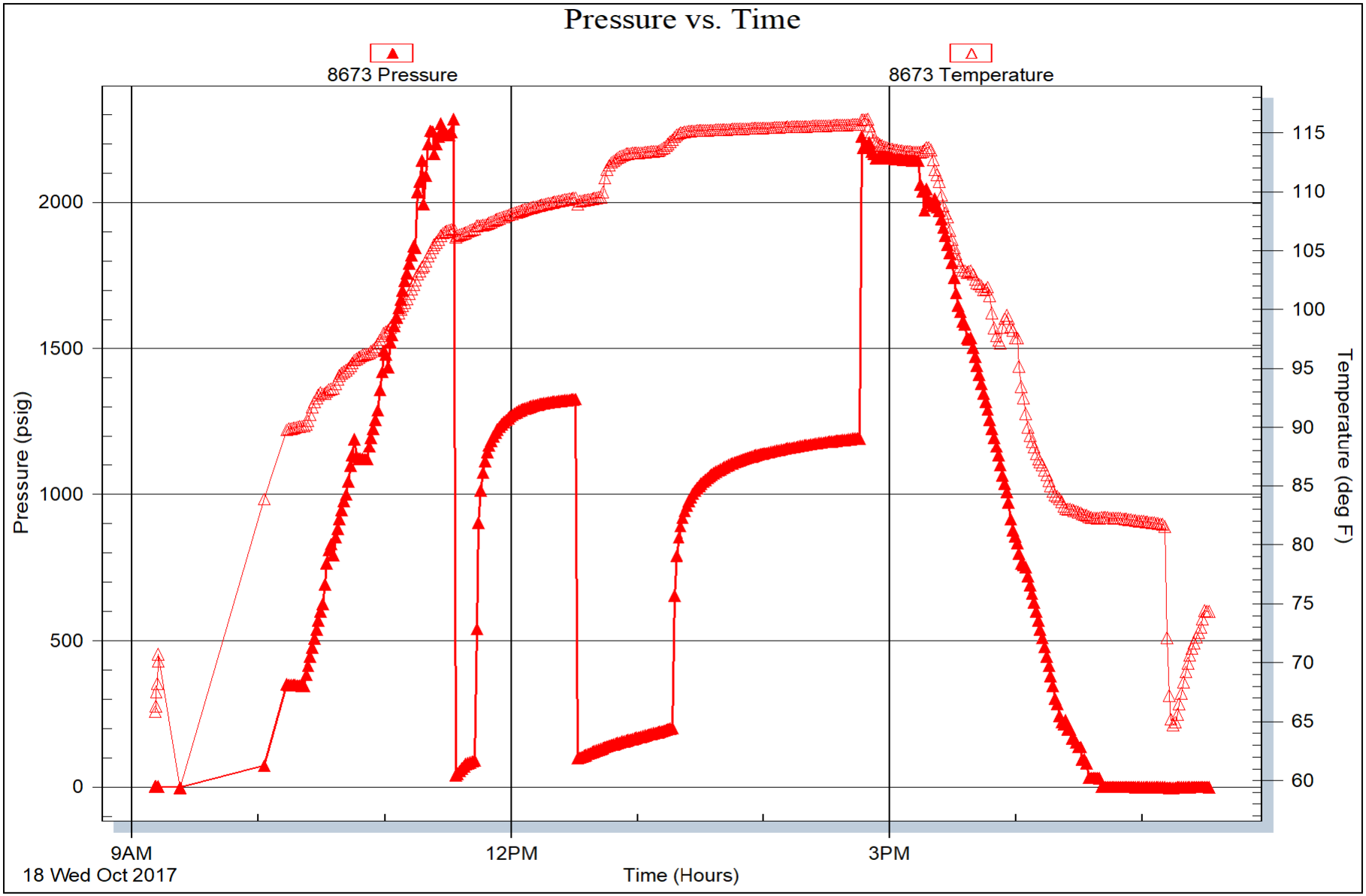
Recovery Comments: Sampler Data : PSI 150# 700MLmud 1300MLw ater RW .31 @ 60F

Serial #: 8360 **Inside** Cholla Prodution LLC SRF Farms 1-18 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63090 Printed: 2017.10.18 @ 22:03:37

Serial #: 8673 **Outside** Cholla Prodution LLC SRF Farms 1-18 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63090 Printed: 2017.10.18 @ 22:03:38

ERICKSON WELLSITE GEOLOGY

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	SRF Farms #1-18		
Location:	SE SW SW NE Sec 18 T21S R26W		
License Number:		Region:	Hodgeman County, KS
Spud Date:	10/10/17	Drilling Completed:	10/19/2017
Surface Coordinates:	2510' FNL & 2150' FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2531	K.B. Elevation (ft):	2539
Logged Interval (ft):	3800 To: TD	Total Depth (ft):	5000
Formation:			
Type of Drilling Fluid:	Chemical Mud		

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Cholla Production, LLC
Address: 10390 Bradford Road, Suite 201
Littleton, CO 80127

GEOLOGIST

Name: Clayton Erickson
Company: Erickson Wellsite Geology
Address: 402 Palmer Street
P.O. Box 294
Loomis, NE 68958

COMMENTS

Based upon careful examination of well cuttings, DST results and e-logs it was decided to P&A this location.

DSTs

DST #1 4450-4525 10-45-30-90; Hydro: 2204-2169 IFP: 23-26 ISIP: 255 FFP: 28-49 FSIP: 325; Rec: 5' mud w/ oil show; BHT: 115F; IF: dead in 7min ISI: dead FF: dead in 20min FSI: dead; smpl chmbr- 100ml oil 1900ml mud @50psi

DST #2 4540-4660 10-45-45-90; Hydro: 2230-2191 IFP: 32-90 ISIP: 1327 FFP: 96-199 FSIP: 1095; Rec: 380' 65%w 35%m; BHT: 117F; RW: .31@ 60F Chl: 26,000ppm; IF: 5 1/2" ISI: dead FF: 8" FSI: dead; smpl chmbr- 700ml mud 1300ml water @150psi

FORMATION TOPS

	Log Tops	Sample tops
Anhydrite	1765(+774)	
HEEBNER	3852(-1313)	3855(-1316)
LANSING	3896(-1357)	3898(-1359)
BKC	4280(-1741)	4286(-1747)
MARMATON	4308(-1769)	4315(-1776)
CHEROKEE SH	4423(-1884)	4429(-1890)
PBC	4513(-1974)	4517(-1978)
MISSISSIPPIAN	4536(-1997)	4538(-1999)
MIESNER SAND	4928(-2389)	4934(-2395)
VIOLA	4936(-2397)	4942(-2403)
TD	4996(-2457)	5000(-2461)

ROCK TYPES

Anhy, Bent, Brec, Cht, Clyst, Carb. shale, Arkose, Dol, Gyp, Igne, Lmst, Meta, Mrlst, Salt, Shale, Shcol, Shgy, Sltst, Ss, Till

OTHER SYMBOLS

OIL SHOW: Even, Spotted, Ques, Dead
INTERVAL: Dst

Curve Track 1
ROP (min/ft)
Gamma (API)

Depth	Geological Descriptions	Remarks
3750		
	L.S.-wht-lt tan, fn-micro xtln, grn-pk stn, pr PP por, no odor, no SFO, sli chlky, scat wht chrt	
	L.S.-wht-tan, fn xtln, grn stn, no vis por, no odor, no SFO, freq wht-grey chrt, sli chlky	
3800	L.S.-wht-tan, fn xtln, ool grn stn, gd oomoldic por, no odor, no SFO	
	as above	
	L.S.-tan, fn xtln, pk-wk stn, no vis por, no odor, no SFO w/ abnd brwn-wht-grey chrt, chlky	
	L.S.-tan-wht, fn xtln, wk-pk stn, no vis por, no odor, no SFO, scat brwn specks, chlky	
3850	SH- blk, carb	
	as above w/ L.S.-lt tan, fn xtln, wk-pk stn, no vis por, no odor, no SFO	
	SH-v lt grey, w/ v fn snd grns, soft	
	L.S.-wht, fn-micro xtln, grn stn, scat partly dolo, no vis por, no odor, no SFO, scat sml pyrite xtls	
	SH- grey	
3900	L.S.-wht-lt tan, fn-micro xtln, grn stn, no vis por, no odor, no SFO	
	SH-grey w/L.S.-brwn-tan, micro xtln, grn stn, no vis por, no odor, no SFO, scat grey-wht chrt	
	SH- grey-blk, calc w/ L.S.-dk grey-grey, v arg, micro xtln md stn, no vis por, no odor, no SFO	
	L.S.-grey-lt grey, tan, fn-micro xtln, md-wk stn, no vis por, no odor, no SFO	
	L.S.-wht-tan, fn xtln, grn-pk stn, no vis por, no odor, no SFO, sli chlky	
3950	L.S.-wht, fn xtln, grn stn, scat ool, pr int gran por, no odor, no SFO	
	L.S.-wht-lt tan, fn xtln, grn stn, partly ool, no vis por, no odor, no SFO, freq lt grey-wht chrt, sli chlky	
	L.S.-tan-wht, fn-micro xtln, grn stn, scat ool, no vis por, no odor, no SFO, freq wht-tan chrt	
	as above, v chlky, scat pr oomoldic por, no odor, no SFO, minor SH-grey	
	L.S.-lt tan, micro-fn xtln, wk stn, no vis por, no odor, no SFO	
4000	L.S.-lt tan-brwn, micro-fn xtln, pk-wk stn, no vis por, no odor, no SFO w/ minor SH-grey, red/brwn	
	L.S.-tan-wht, fn xtln, ool grn stn, scat pr oomoldic por, no odor, no SFO, w/ SH-grey-green/grey	
	L.S.-wht-brwn, scat mtld grey, fn xtln, grn stn, partly ool, no vis por, no odor, no SFO, scat brwn-wht-trans chrt w/ SH- grey, red/brwn	
	L.S.-v lt tan, micro-fn xtln, md-wk stn, no vis por, no odor, no SFO, abnd wht-tan chrt	
	L.S.-tan-lt tan, fn xtln, wk-pk stn, pr PP por, no odor, no SFO, chlky	
4050	L.S.-wht-v lt tan, fn xtln, grn-pk stn, no vis por, no odor, no SFO, sli chlky w/ minor SH-grey, red/brwn	
	as above, chlky, scat chrt	
	as above, freq wht-tan chrt	
	L.S.-wht-lt tan, scat lt grey, fn-micro xtln, scat med xtln, grn stn, pr int xtln por, no odor, no SFO w/ scat SH-blk carb, grey	
	SH- as above w/ L.S.-tan, micro-fn xtln, grn-wk stn, no vis por, v fnt odor, no SFO, no fluor, freq wht-tan chrt	
4100	SH- grey, soft w/ L.S.-wht, fn-micro xtln, grn-wk stn, no vis por, no odor, no SFO	
	L.S.-v lt tan-wht, micro xtln, grn stn, no vis por, no odor, no SFO	
	SH-grey w/ L.S.-wht-tan, fn-micro xtln, wk-pk stn, w/ scat ool grn stn, pr PP por, no odor, no SFO	
	L.S.-wht, fn-micro xtln, ool grn stn, no vis por, no odor, no SFO	
	as above, sli chlky	
4150	as above, com wht-tan chrt w/ SH- grey-blk	
	L.S.-lt tan-brwn, fn-micro xtln, ool grn stn, no vis por, no odor, no SFO w/ SH-grey	
	as above w/ com wht-brwn foss chrt, sli chlky	
	L.S.-lt tan, sptd grey, fn xtln, grn-wk stn, no vis por, no odor, no SFO, chlky	
	L.S.-wht-lt tan, sptd grey, fn-micro xtln, grn stn, freq ool, no vis por, no odor, no SFO	
	SH-blk, carb	
4200	L.S.-lt tan-brwn, fn xtln, grn-pk stn, no vis por, no odor, no SFO, sli chlky	
	L.S.-wht-tan, fn-micro xtln, grn stn, no vis por, no odor, no SFO	
	as above w/ SH-blk-grey	
	L.S.-wht, fn-micro xtln, wk-pk stn, no vis por, no odor, no SFO, sli chlky	
4250	L.S.-wht-v lt grey, fn xtln, wk stn, no vis por, no odor, no SFO	
	L.S.-wht-v lt grey, fn-micro xtln, grn-wk stn, no vis por, no odor, no SFO	
	L.S.-tan-wht, micro xtln, scat med xtln, pk-grn stn, no vis por, no odor, no SFO	
	L.S.-wht-tan, fn xtln, grn-wk stn, no vis por, no odor, no SFO	
	as above w/ scat brwn-wht chrt w/ SH-lt grey, v fn grn sndy, soft	Mud weight getting high, jetted a hole @ 4288'
4300	SH-grey-green/grey, pyritic w/ L.S.-wht-tan, fn xtln, grn stn, no vis por, no odor, no SFO	
	SH-grey-green/grey, red/brwn	
	SH-grey, red/brwn, scat sndy	
	L.S.-wht, fn xtln, pk stn, no vis por, no odor, no SFO, chlky	
	SH-lt grey-dk grey w/ L.S.-tan-wht, micro xtln, md-pk stn, no vis por, no odor, no SFO	
4350	L.S.-tan-wht, micro-med xtln, grn stn, poss int xtln por, no odor, no SFO	
	L.S.-wht, micro-fn xtln, pk-wk stn, no vis por, no odor, no SFO, freq tan chrt	
	L.S.-wht-v lt tan, micro xtln, ool grn stn, no vis por, no odor, no SFO	
	L.S.-wht-tan, micro xtln, grn-pk stn, no vis por, no odor, no SFO	
	SH-v lt grey soft, grey-blk w/ L.S.-wht-tan, micro xtln, pk-wk stn, no vis por, no odor, no SFO	
	SH- grey-blk w/ as above, w/ freq wht chrt	Vis: 49 Wt: 9.35 LCM: 2# WL: 8.8
4400	SH-blk carb, grey	
	as above w/ L.S.-wht-tan, fn-micro xtln, pk-wk stn, no vis por, no odor, no SFO	
	L.S.-tan, fn-micro xtln, fn ool grn stn, no vis por, no odor, no SFO	
	SH-blk carb, grey	
	L.S.-tan-lt tan, fn-micro xtln, grn stn, no vis por, no odor, no SFO	
4450	L.S.-tan-brwn, fn xtln, grn-wk stn, no vis por, no odor, no SFO w/ SH-grey	
	L.S.- as above w/ scat brwn chrt w/ SH-blk	
		Mud pump repair
	L.S.-wht-lt tan, fn xtln, pk-wk stn, no vis por, no odor, no SFO	
	L.S.-wht-tan, micro-fn xtln, grn-wk stn, no vis por, no odor, no SFO w/ SH-grey-blk	
	SH-lt grey-blk	
4500	L.S.-lt tan, fn xtln, wk-pk stn, pr int xtln por, scat vugs w/ dk brwn oil stain, mod-slow strm cut, fnt odor, pr SFO	Short Trip
	L.S.-wht-v lt tan, fn xtln, grn-pk stn, pr-fr int xtln por, fr odor, mod cut, spty fr SFO	DST #1 4450-4525 10-45-30-90 Hydro: 2204-2169 IFP: 23-26 ISIP: 255 FFP: 28-49 FSIP: 325 Rec: 5' mud w/ oil show BHT: 115F IF: dead in 7min ISI: dead FF: dead in 20min FSI: dead smpl chmbr- 100ml oil 1900ml mud @50psi
	S.S.-trans-v lt grey, v fn grn, prly-mod cem, poss int gran por, pyritic, no odor, no SFO w/ SH- ylw, grey-lt grey	
	SH-grey-dk grey, orng/red, ylw w/ S.S.-trans-wht-lt grey, v fn-fn grn, subrnd, scat arg, poss int gran por, mod-prly cem, com pyrite, freq glauc	
	SH- grey-blk w/ S.S. as above w/ freq wht-tan chrt	Mud Check @4525' Vis: 48 Wt: 9.35 LCM: 2# WL: 9.2; @ 4525' Strap: 1.16' long Dev: 3/4deg
	L.S.-wht, fn xtln, grn stn, no vis por, no odor, no SFO, com wht-orng chrt	
4550	as above, no odor, no SFO, sli chlky, scat wht chrt	
	Dolo-lt tan-wht, fn xtln, poss int xtln por, no odor, no SFO, scat sml pyrite xtls, chlky, com wht-tan chrt	
	as above, scat vugs, no odor, no SFO, chlky, com wht chrt	
	L.S.-lt tan-tan, micro-fn xtln, grn stn, no vis por, no odor, no SFO, chlky	
	Dolo-tan, fn xtln, scat dk min spcks, poss int xtln por, scat vugs, v fnt odor, no SFO, no fluor	
4600	L.S.-tan, mostly dolomitized, fn xtln, grn stn, poss int xtln por, no odor, no SFO	
	Dolo-wht-tan, fn-med xtln, poss int xtln por, no odor, no SFO	DST #2 4540-4660 10-45-45-90 Hydro: 2230-2191 IFP: 32-90 ISIP: 1327 FFP: 96-199 FSIP: 1095 Rec: 380' 65%w 35%m BHT: 117F RW: .31@ 60F Chl: 26,000ppm IF: 5 1/2" ISI: dead FF: 8" FSI: dead smpl chmbr- 700ml mud 1300ml water @150psi
	Dolo-wht-lt tan, fn-med xtln, pr vuggy por, no odor, no SFO	
	as above w/ L.S.-tan, v dolomitic, grn stn, poss int xtln por, no odor, no SFO	
	Dolo-lt tan-tan, fn-med xtln, pr vuggy por, no odor, no SFO	
4650	Dolo-lt grey-lt tan, fn xtln, poss int xtln por, no odor, no SFO w/ scat L.S.-lt grey, fn-micro xtln, md stn, no vis por, no odor, no SFO	
	Dolo-wht, fn xtln, poss int xtnl por, no odor, no SFO	Vis: 50 Wt: 9.4 LCM: 2# WL: 8.4
	Dolo-wht-lt grey, fn-med xtln, poss int xtn por, pr vuggy por, no odor, no SFO	
	Dolo-lt grey-lt tan, fn xtln, poss int xtln por, scat vugs, no odor, no SFO	
	as above, scat wht chrt	
4700	Dolo-lt tan, scat mtld grey from pyrite, fn-med xtln, poss int xtln por, no odor, no SFO, scat wht chrt	
	as above	
	Dolo-lt tan-lt grey, fn xtln, poss int xtln por, no odor, no SFO, abnd foss wht-v lt grey chrt	
	as above	
4750	as above w/ SH-dk grey-grey/brwn	
	Dolo-wht, fnly sucr, poss int xtln por, no odor, no SFO, abnd wht chrt	
	Dolo-wht-tan, fn xtln, poss int xtln por, scat pr vuggy por, no odor, no SFO, com wht chrt	
4800	as above	
	Dolo-wht-lt tan, fnly sucrt-med xtln, poss int xtln por, no odor, no SFO, com wht chrt	
	as above, abnd wht chrt	
4850	Dolo-wht-tan, fn-med xtln, poss int xtln por, no odor, no SFO	
	Dolo-wht-v lt grey, fn xtln, poss int xtln por, no odor, no SFO	
4900	as above w/ L.S.-lt tan, micro-fn xtln, ool grn stn, no vis por, no odor, no SFO	
	L.S.-lt tan, fn xtln, wk stn, scat dolo xtls, no vis por, no odor, no SFO	Vis: 54 Wt: 9.5 LCM: 1.5# WL: 10.8
	Dolo-tan-grey, fn xtln, poss int xtln por, no odor, no SFO w/ scat SH- grey	
	S.S.-trans-wht, freq calc cem, prly cem, v fn-med grn, sub rnd-rnd, mostly uncons, no odor, no SFO	
	Dolo-wht-v lt tan, fn-med xtln, scat sli sndy, poss int xtln por, no odor, no SFO	
4950	Dolo-grey-v lt tan, v fn-fn xtln, no vis por, no odor, no SFO, com wht-grey chrt	
	as above	
	Dolo-lt grey-v lt tan, fn xtln, poss int xtln por, scat vugs, no odor, no SFO, freq wht-v lt grey chrt	
5000		Dev: 1deg

GLOBAL OIL FIELD SERVICES, LLC

3153

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE 10-20-17	SEC. 18	TWP. 21S	RANGE 26W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 5:00 a.m.
LEASE SRF Ranch	WELL #. 1-18		LOCATION Beeler KS 13 to XRD			COUNTY Hodgeman	STATE KS
OLD OR NEW (CIRCLE ONE)			2 wes, 1/2 South Fossil				

CONTRACTOR WW Drilling Rig #12
TYPE OF JOB Plug
HOLE SIZE 7 7/8 T.D. 1790'
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS
DISPLACEMENT

EQUIPMENT

PUMP TRUCK # 417 CEMENTER Cody
HELPER Jason
BULK TRUCK # 417 DRIVER Jan
BULK TRUCK # DRIVER

OWNER Cholla Production LLC

CEMENT
AMOUNT ORDERED 200 sks 60/40 4% Gel 1/4 #/sk Flo Seal

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
HANDLING		@	
MILEAGE			
		TOTAL	

REMARKS:

1790' 50 sks
950' 50 sks
390' 50 sks
wiper plug
60' 20 sks
Rat hole 30 sks

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			
EXTRA FOOTAGE		@	
MILEAGE		@	
MANIFOLD		@	
		TOTAL	

CHARGE TO: Cholla Production LLC
STREET 10390 Richfield RD Suite 201 Littleton Colorado
CITY [illegible] STATE CO ZIP 80127

PLUG & FLOAT EQUIPMENT

		@	
		TOTAL	

Global Oil Field 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 Calvin Hamerstrom
SIGNATURE [signature]

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

JOB LOG

SWIFT Services, Inc.

DATE 10-10-17 | PAGE NO. 1

CUSTOMER Cholla Productions LLC | WELL NO. #1-18 | LEASE SRF Farms | JOB TYPE Surface Pipe | TICKET NO. #30954

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	2200							on location 8 5/8" 23 #
								RTD-305 TP-305'
								Rig Drilling
10-11-17	0015							Start 8 5/8" 23 # casing in well
	0145							Break Circulation
	0155	4 1/2	5		✓			Pump 5 bbl water spacer
	0156	4 1/2	45		✓			mix 185 sks STD 2% Gel 3% cc @ 14.7 ppg
	0210	4 1/2	0		✓			Displace cement
		4 1/2	13		✓			circulate cement to surface - * 20 sks *
	0215	0	18 1/2		✓			Kick out Pump / Shut in Release Pressure * value Held *
								wash up truck
	0300							Job Complete
								Thank You Dave Preston Kirby