

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 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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Cholla Production, LLC
10390 Bradford Rd, Suite 201
Littleton, CO 80127

Albert # 1-3
2280' FSL & 220' FEL
Sec. 3-T11S-R23W
Trego County, Kansas
KB = 2229

Scale 1:240 Imperial

Well Name: Choll Production Albert #1-3
Surface Location: 2280' FSL, 220' FEL Sec 3-T11S, R23W
Bottom Location:
API: 15-195-23135-00-00
License Number:
Spud Date: 4/4/2022 Time: 9:15 AM
Region: Trego County
Drilling Completed: 4/10/2022 Time: 6:36 PM
Surface Coordinates:
Bottom Hole Coordinates:
Ground Elevation: 2221.00ft
K.B. Elevation: 2229.00ft
Logged Interval: 3000.00ft To: 3850.00ft
Total Depth: 3850.00ft
Formation: Lansing-Kansas City
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Cholla Production
Address: 10390 Bradford Road, Suite 201
Littleton, CO 80127
Contact Geologist: Bill Goff, Emily Hundley-Goff
Contact Phone Nbr: C) 303-249-0430, Of) 303-623-4565
Well Name: Choll Production Albert #1-3
Location: 2280' FSL, 220' FEL Sec 3-T11S, R23W
API: 15-195-23135-00-00
Pool:
State: Kansas Field: Diebolt East
Country: USA

LOGGED BY



Charlie Sturdivant Consulting

Company: Charlie Sturdavant Consulting
 Address: 920 12th Street
 Golden, CO 80401

Phone Nbr: 303-907-2295
 Logged By: Geologist

Name: Charlie Sturdavant

Well Comparrison Sheet

CHARLIE STURDAVANT CONSULTING

WELL COMPARISON SHEET

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Cholla Production, LLC Albert #1-3					Ritchie Harger C#1				Ritchie Harger C#2			
2280' FSL & 220' FEL					2310' FSL & 1320' FEL				SE-NW-SE			
Sec. 3 T11S R23 W					Sec. 3-T11S-R23W				Sec. 3-T11S-R23W			
Trego Co, KS												
2229 KB					2264 KB		Structural Relationship		2233 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	1711	518	1709	520	1743	521	-3	-1	1712	521	-3	-1
Stotler	3072	-843	3072	-843	3108	-844	1	1	3078	-845	2	2
Tarkio	3105	-876	3107	-878	3142	-878	2	0	3112	-879	3	1
Topeka	3223	-994	3222	-993	3258	-994	0	1	3228	-995	1	2
King Hill	3329	-1100	3328	-1099	3364	-1100	0	1	3330	-1097	-3	-2
Queen Hill	3383	-1154	3382	-1153	3418	-1154	0	1	3386	-1153	-1	0
Heebner	3439	-1210	3448	-1219	3483	-1219	9	0	3450	-1217	7	-2
Toronto	3462	-1233	3470	-1241	3506	-1242	9	1	3472	-1239	6	-2
Lansing	3478	-1249	3484	-1255	3520	-1256	7	1	3487	-1254	5	-1
Muncie Creek	3600	-1371	3608	-1379	3644	-1380	9	1	3612	-1379	8	0
Stark	3684	-1455	3690	-1461	3728	-1464	9	3	3694	-1461	6	0
Base KC	3697	-1468	3704	-1475	3742	-1478	10	3	3713	-1480	12	5
Marmaton	3720	-1491	3728	-1499	3766	-1502	11	3	3732	-1499	8	0
Pawnee	3802	-1573	3806	-1577	3848	-1584	11	7	3808	-1575	2	-2
Total Depth	3850	-1621	3851	-1622	3971	-1707	86	85	3863	-1630	9	8

Daily Drilling Report

CHARLIE STURDAVANT CONSULTING

DAILY DRILLING REPORT

Company: Charlie Sturdavant Consulting
 920 12th Street
 Golden, CO 80401

Well: Albert #1-3
 Location: 2280' FSL & 220' FEL
 Sec. 3-T11S-R23W
 Trego County, KS

Operator: Cholla Production, LLC
 Operator Contacts:

Bill Goff Cell: 303-249-0430 Office: 303-249-0430
 Emily M. Hundley-Goff
 Kelly Branum Cell: 785-324-1414

Wellsite Geologist: Charlie Sturdavant
Cell: (303)907-2295

Elevation: GL: 2221, KB: 2229
Field: Deibolt East
API No.: 15-135-23135-00-00
Surface Casing: 8 5/8" set @ 248'

Drilling Contractor: Discovery Drilling Co. Rig #4 785-639-3964 Tool Pusher: Ryan Gaschler, cell: 785-650-2084

DATE	7:00 AM DEPTH	REMARKS
4/1/2011	0 ft.	Moving in, rigging up.
4/4/2022	0 ft.	Spud @ 0915 hrs. Drill to 250 ft. Set 6 jts of new LMS 23 # 8-5/8" surface csg @ 248" w/ 160 sks 80/20. Plug down @ 000 hrs. 4/5/2011. WOC.
4/5/2022	250 ft.	Drilled out plug @ 0700 hrs.
4/6/2022	2035 ft	Drilling ahead.
4/7/2022	2835 ft.	Drilling ahead. Geologist on location @ 1545 hrs (3090'). Mud up @ 3100'.
4/8/2022	3447 ft.	Drilling ahead. Stopped to CFS @ 3440' and 3450', Looking for Heebner. Conducted DST #1, 3468'-3550', Lansing A-D, Rec 5' mud, SIP: 862-877#
4/9/2022	3570 ft.	Circulating for samples. Dril to 3680' and conduct DST #2, 3620-3680', Rec: 10' SOCM, (3% oil), SIP: 442-658#.
4/10/2022	3680 ft.	Tripping back in hole after DST #2. Reach TD 3850' @ 1836 hours. Wireline loggers on location @ 2030hrs. Logging completed @0200 hrs 4/11/2022.
4/11/2022	3650 ft.	preparing to lay down pipe for plugging. Geologist off location @ 0900 hrs.

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.851499
Latitude: 39.123194
N/S Co-ord:
E/W Co-ord:

CONTRACTOR

Contractor: Discovery Drilling Company, Inc.
Rig #: 4
Rig Type: mud rotary
Spud Date: 4/4/2022
TD Date: 4/10/2022
Rig Release:
Time: 9:15 AM
Time: 6:36 PM
Time:

ELEVATIONS

K.B. Elevation: 2229.00ft
K B. to Ground: 8.00ft
Ground Elevation: 2221.00ft

NOTES

The Cholla Production Albert # 1-3 well was drilled to an RTD of 3850' and an LTD of 3851', bottoming in the Pawnee. The geologist was on location, examining samples from 3000' to TD. Sample shows of oil were noted in the Lansing A, D, F, H, I, J, K and L zones, as well as in the Pawnee.

Two DST's were conducted covering the Lansing A through D zones and the Lansing I through K zones. Recoveries were disappointing, recovering only a few feet of mud or slightly oil cut mud.

Based on the sample shows, DST results, log analysis, it was determined by all parties involved that the well should be plugged and abandoned.

Respectfully submitted,
 Charlie Sturdavant
 Consulting Geologist

ROCK TYPES

	Cht vari		Lmst fw>7		shale, gry		Slst
	Dolsec		shale, grn		Carbon Sh		
	Lmst fw<7		Shgy		shale, red		

ACCESSORIES

MINERAL	FOSSIL	STRAT./SED. STRUCTS	STRINGER	TEXTURE
— Argillaceous	∩ Bioclastic or Fragmental	≡ Nodular		C Chalky
⊥ Calcareous	⊕ Brachiopod			
△ Chert White	∩ Bryozoa			
∴ Varicolored chert	○ Crinoids			
∠ Dolomitic	⊕ Fossiliferous			
∩ Glauconite	⊕ Oolite			
P Pyrite	○ Oolites			
	• Pelloids			
	∧ Spicules			

OTHER SYMBOLS

MISC	DST
Daily Report	DST Int
Digital Photo	DST alt
Document	
Folder	
Link	
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	

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

Curve Track #1						TG, C1 - C5
ROP (min/ft)		Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions
Gamma (API)						
Cal (in)						
1:240 Imperial		Cored Interval				1:240 Imperial
0	ROP (min/ft)	5				
0	Gamma (API)	150				
6	Cal (in)	16				
		2960				

**Cholla Production
 Albert # 1-3
 2280' FSL & 220' FEL
 Sec. 3-T11S-R23W**

**Mud-Co, Mud check
 2820' @ 0620 hrs.
 4/07/2022
 Vis. 29, Wt. 9.6
 PV 1, YP 1
 WL NP, Cake 0/32"**

Trego County, Kansas

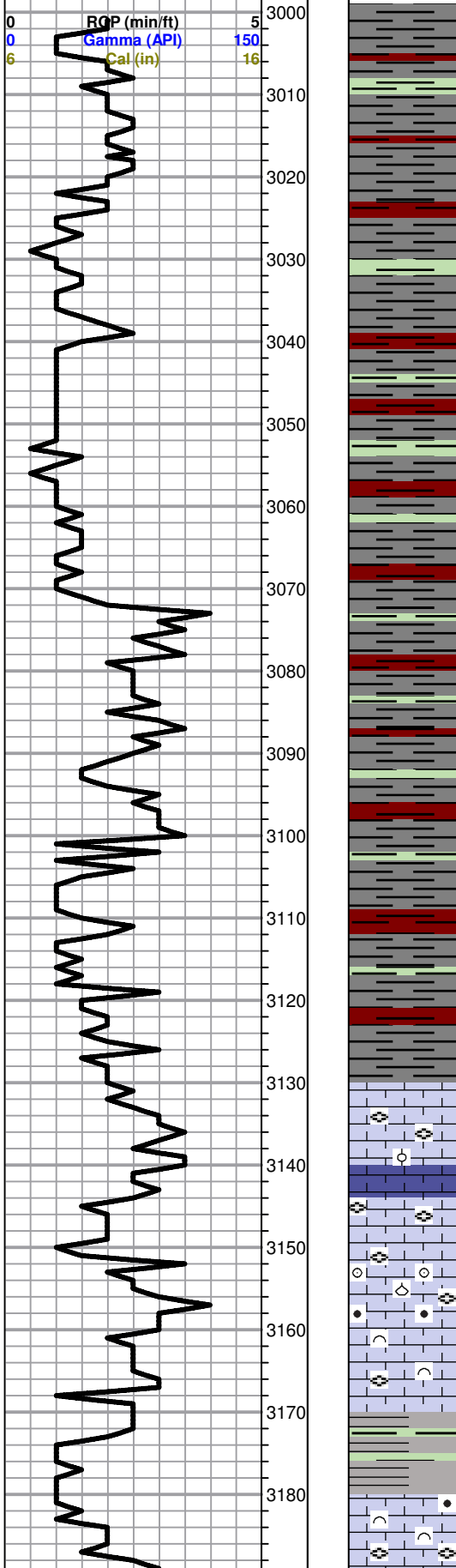
KB = 2229

pH 7.0, Ca Heavy
CHL 1,400 ppm
Sol 6.7 LCM 0
DMC: \$70.40
CMC: \$5,778.16

Geologist on location @ 1545 hrs 4/7/2022, @ 3090'

Annhydrite Top: 1710' (+519)

Annhydrite Bottom: 1754' (+475)



Shale: vari-colored, gray, lt gray, maroon, and greenish-gray, non-calcareous, soft.

Stotler 3072 (-843)

Shale: lt gray, hard, sli silty, sli dolomitic. Still carrying vari-colored shales from above.

Mud up at 3100'

Tarkio 3105 (-876)

Shale: lt gray, hard, sli silty, sli dolomitic. Still carrying vari-colored shales from above.

Limestone: cream to lt tan, f-xln, sucrosic, with tr fossils, fusulinids, tr individual oolites, no visible porosity, packstone, no shows.

Limestone: lt tan to tan to lt brown to brown to gray, micro-xln mudstone to finely sucrosic non-fossiliferous mud, to packstone and grainstone with fusulinids and other fossil frags, no apparent porosity, no shows.

Should be shale.

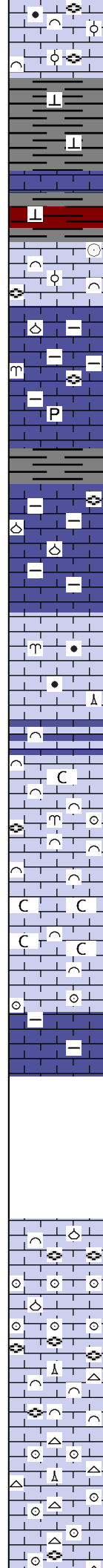
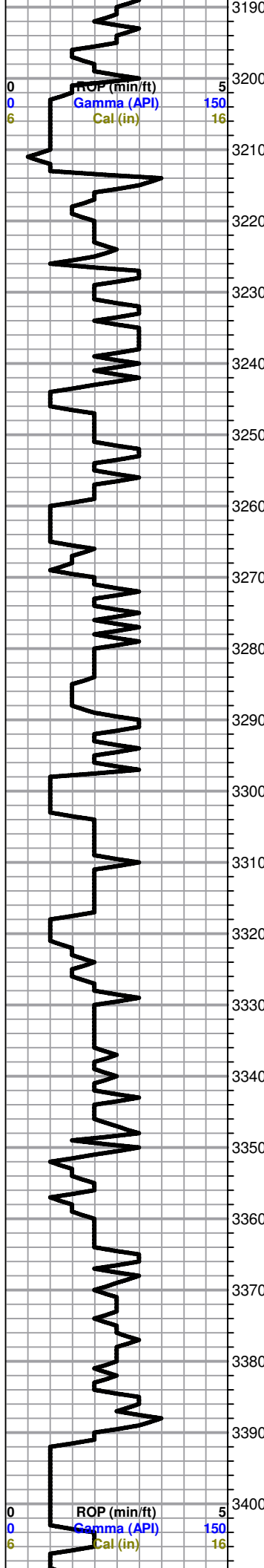
Limestone: tan to mottled gray and tan, brachiopods, oolites, pelloids, fusulinids, grainstone to packstone, no shows.

Limestone: lt tan, f- to med-xln, bioclastic-fragmental with fusulinids, grainstone, no shows

Shale: lt gray to lt greenish-gray, soft and mushy to firm, most washes away, non-calc.

Limestone: tan to mottled gray and cream, med- to f-xln, bioclastic to fusulinid grainstone, pelloids and random oolites, recrystallized, no shows.

Wt: 8.6, Vis: 80



Shale: gray to brown, soft and mushy to hard, calcareous, with argillaceous limestone containing crinoids and fusulinids.

Shale: gray and maroon, soft and mushy, sample washes red. Tr black hard carbonaceous shale.

Topeka 3223 (-994)

Limestone: tan to cream, f- to med-xln, bioclastic grainstone, tr oolites, fusulinids, crinoids, spicules, no shows.

Limestone: tan to gray, argillaceous, fossil frags, brachiopods, fusulinids, tr pyrite, rhombopora (bryozoan), packstone, no shows.

Shale: gray, calc, soft, sample washes gray, tr black shale. Limestone: gray, argillaceous, silty, random fossils, fusulinids, brachiopods, wackestone, no shows.

Limestone: cream to tan to mottled gray and tan, pelloids, bryozoans, spicules, tr fusulinids, grainstone to barren micrite.

Limestone: tan to lt gray, f- to med-xln, bioclastic grainstone to wackestone w/ fossil frags set in vf-xln matrix, tight, no shows. Tr translucent amber micrite.

Limestone: cream, fragmental grainstone, bryozoans, fusulinids, oolites, chalky in part, fair inter-xln porosity, no shows.

Limestone: tan to gray, bioclastic packstone to wackestone, gray is argillaceous, tr oolitic grainstone, no shows.

Shale: Black, carbonaceous, firm to hard, calcareous, combustible. **This is from sample 3350-60', which is 10' too low.**
The hole has not yet healed itself from displacement with mud.

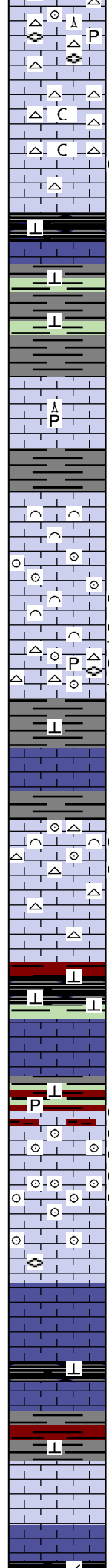
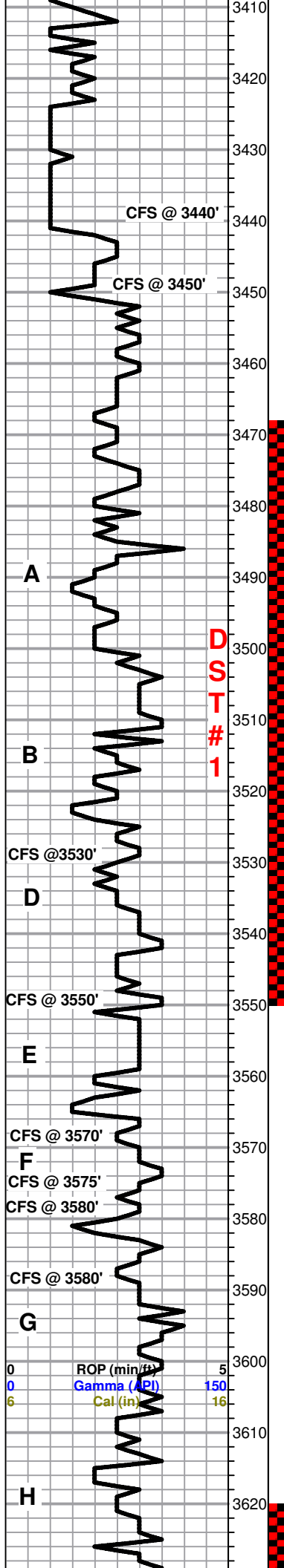
Shale: gray to maroon, soft and mushy. Limestone: tan to gray, bioclastic, fragmental, bryozoans, gastropods, fusulinids, packstone to wackestone, no shows.

Limestone: cream, oolitic to bioclastic-fusulinid grainstone, f- to coarsely-xln, sparry calcite, spicules, possible brachiopods, clean, no shows.

Limestone: tan, coarsely-xln to f-xln, bioclastic grainstone, spicules, fusulinids, fossil debris, no shows. Tr white chert, frosted.

Limestone: tan, vf-xln oolitic grainstone, oolites average 0.1mm in diameter, spicules, fair amount of clean, tan mudstone, no shows. Tr white frosted chert.

Limestone: cream, vf- to f-xln, oolitic to finely granular grainstone, no shows, tr white to cream chert, some with small frags of fusulinids.



Tr pyrite. Tr spicules.

Limestone: as above, very chalky and very cherty: white to gray, vitreous, with random fusulinid frags.

3440' 30 min: Limestone: cream to tan, oolitic to bioclastic grainstone to packstone, tr brachiopods, tr fusulinids, with chert as above, partly chalky. One frag with black spotty oil show, no fluor, but instant streaming cut in fair inter-xln porosity. 60 min had one frag of black shale, hard, combustible, sli calc.

Heebner 3439 (-1210)

3440' circ sample had one frag of black shale. getting close to Hb.

3450' 30min sample had abundant Heebner Black Shale, hard, calcareous, combustible.

Shale: gray, greenish-gray, soft, tr crinoids, calcareous.

Toronto 3462 (-1333)

Limestone: tan to lt gray, f-xln, recrystallized former grainstone, spicules and pyritized spicules, tight, no shows.

Lansing 3478 (-1249)

Limestone: tan to grayish-tan, f- to med-xln, fossil-bearing bioclastic grainstone, many small fossil frags, well-cemented, no shows.

Limestone: cream, f-xln oolitic grainstone to vf-xln sucrosic/granular grainstone, fair inter-xln porosity, no shows.

Limestone: cream, f- to med-xln bioclastic grainstone, hydrocarbon aroma, oil sheen on water, free lt brown oil in tray, gas bubbles emanating from pores, instant streaming cut, fair inter-xln porosity.

White chert with fusulinids, frosted-sucrosic to vitreous. Tr finely-oolitic amber chert. Hydrocarbon aroma in next sample, spotty oil show, tr micro-vuggy porosity, instant streaming cut w/ bright yellow fluor. Tr pyrite in some oolitic frags.

Shale: gray, friable, calcareous.

3530' 30 min sample: Limestone: cream, recrystallized med- to f-xln bioclastic grainstone, w/ white chert, vitreous to frosted, one frag of finely-xln oolitic grainstone with inter-xln porosity filled w/ live oil, tr free oil, instant streaming cut.

Limestone: cream to lt tan, f-xln oolitic grainstone to micrite, secondary pinpoint porosity in micrite, inter-xln porosity in oolites, tr vuggy porosity w/ druzey calcite lining, all porosity has oil staining, mostly spotty, live oil cuts immediately with bright yellow fluor., mostly tight rock. Tr fracture porosity w/ druzey calcite lining and oil stain. Tr black shale. Tan to amber vitreous chert.

Shale: lt greenish-gray, calc., maroon, calc., soft to mushy, black shale, hard, combustible.

Limestone: tan to lt grayish-tan, vf- to micro-xln matrix w/ a few fossil frags, fusulinids, brachiopods, wackestone, tight, no shows.

Shale: maroon, lt greenish-gray, gray, calcareous, soft to mushy, pyrite. **Limestone:** cream with reddish-brown patches and spots, fair secondary micro-vuggy, pinpoint and fracture porosity, in a recrystallized coarsely-xln grainstone, oolites and fossil frags, possible exposure surface, oil aroma, oil staining in porosity, good cut, not streaming, bright yellow fluor.

3580': oolitic grainstone w/ cement porosity between oolites, oil saturated pores, instant cut, oolites .5-2.0mm in dia., tr dead oil in lower part.

3590': well-cemented oolitic-bioclastic grainstone to micrite. Tight, no shows. Tr fusulinids.

Cream micrite

Muncie Creek 3600 (-1371)

Shale: black, carbonaceous, hard, calcareous, combustible.

Shale: gray, greenish-gray, maroon, only the gray is calcareous, the maroon is hard, the others are soft.

Limestone: cream to vy lt gray, opaque to translucent, recrystallized former grainstone w/ ghost fossil frags, very tight, no shows.

Limestone: lt grayish-tan, micro-xln mudstone w/ random fossil frags, very tight, no shows. Black shale, dolomitic, combustible.

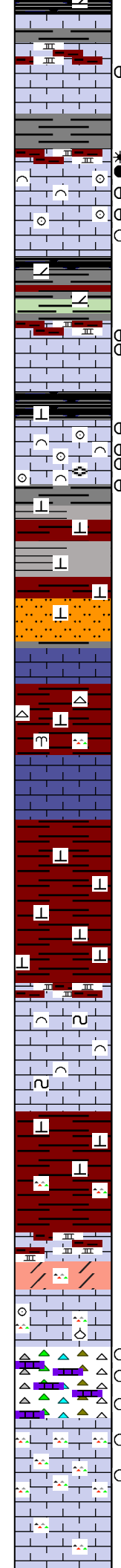
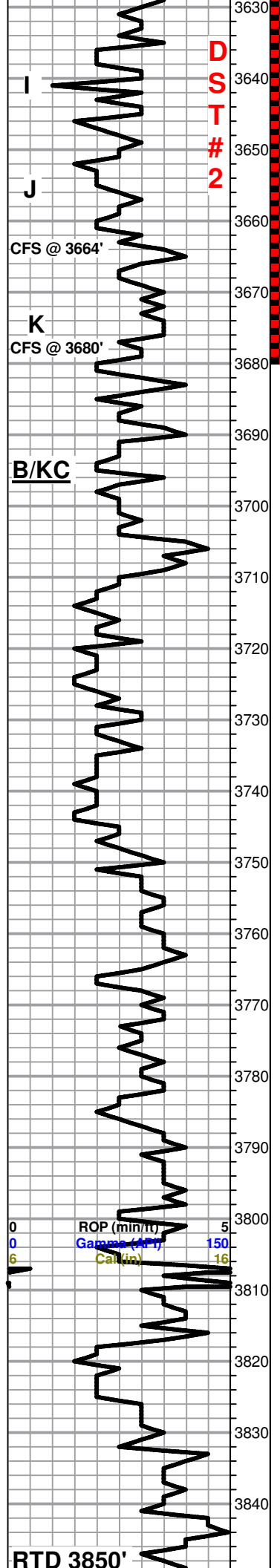
Mud-Co, Mud check
3441' @ 0516 hrs.
4/08/2022
Vis. 56, Wt. 8.7
PV 14, YP 25
WL 5.4, Cake 1/32"
pH 11.0, Ca Nil
CHL 4,200 ppm
Sol 2.0 LCM 2
DMC: \$1,414.33
CMC: \$7,192.49

**DST #1: 3468'-3550',
Rec: 5' mud, SIP:
862-867#**

Cholla Albert 1-3 dst 1 sh...

Deviation: 3/4°

Mud-Co, Mud check
3569' @ 0525 hrs.
4/09/2022
Vis. 57, Wt. 8.8
PV 12, YP 26
WL 5.4, Cake 1/32"
pH 11.0, Ca Tr
CHL 2,600 ppm
Sol 3.5 LCM 2
DMC: \$0
CMC: \$7,192.49



Limestone, completely to partially recrystallized former grainstone w/ few ghost oolites, most appears to be clean micrite, tight, tr **dead oil**.

Limestone: tan to brown, some is mottled and nodular as if subareally exposed, some frags have good vuggy, inter-particulate and fracture porosity w/ brown oil stain, weak aroma, instant streaming cut w/ bright yellow fluor. Recrystallized grainstone.

Limestone: cream to tan to brown, some mottled due to exposure, good secondary vuggy, inter-xln, fracture and pinpoint porosity. Some frags are fully saturated with oil, others are spotty, tr oomoldic por, strong aroma, gas bubbles, instant streaming cut, recrystallized bioclastic-oolitic grainstone.

Shale: vari-colored, black, maroon, gray, greenish-gray, firm but friable, dolomitic.

Limestone: cream to tan with some brown mottling at the exposure surface, recrystallized bioclastic grainstone with occluded porosity and secondary vuggy, pinpoint and fracture porosity with oil staining, some free oil, mostly tight rock. Slow cut from tighter rock, instant streaming cut from vuggy pores. 60 min: abundant oil in relatively tight rock, very slow cut w/ a dull yellow fluor.

Limestone: cream, bioclastic-oolitic grainstone, f- to med-xln, well-developed secondary inter-particulate porosity, vuggy, fracture and pinpoint porosity, fair aroma, free oil, up to 75% saturation, instant streaming cut.

Shale: lt gray, soft and mushy, gray, firm but friable, maroon, greenish-gray, all is calcareous and soft.

Siltstone, maroon, calcareous, hard, mixed with maroon shale.

Marmaton 3720 (-1491)

Limestone: lt grayish-tan, macro-xln mudstone with random fossil frags., tight, no shows.

Shale: maroon, terra cotta, gray, soft and mushy, calcareous, **chert: amber, tan, orange, lt gray, vitreous, rhombopora**, was the CKU rising at this time and shedding sediment from the Pawnee onto the adjacent lowlands? Different from L/KC cherts.

Limestone: lt greenish-gray to lt tan, micro-xln mudstone, some frags show thin laminations, tight, no shows.

Shale: maroon, firm to soft and mushy, sample washes red, calcareous. **Still carrying cavings with oil shows.**

Shale: maroon, firm to soft and mushy, sample washes red, calcareous.

Limestone: white to cream, finely sucrosic, red shale infiltration in the upper part into the underlying rock, and red shale encrusted nodules indicates subareal exposure. Below is recrystallized bioclastic grainstone, med- to f-xln, tr glauconite, tight, no shows.

Shale: maroon, firm to soft and mushy, calcareous, much washes away upon cleaning.

salmon-colored chert.

Pawnee 3802 (-1573)

Limestone: cream to tan w/ red shale encrustations of Ls nodules, red shale infiltration of subareally-exposed limestone, tan sucrosic dolomitic limestone w/ orange chert specks.

Limestone: cream to lt tan to vy lt gray, finely sucrosic to recrystallized oolitic grainstone w/ salmon-colored chert, vitreous to frosted, containing some brachiopod frags and oolites, color varies to white and tan, but always with salmon color.

Chert: vari-colored, white, lt tan, yellow salmon, vitreous, angular frags, set in a finely sucrosic lt tan limestone, tr of oil in crystalline quartz growths in the chert, instant streaming cut, bright yellow fluor.

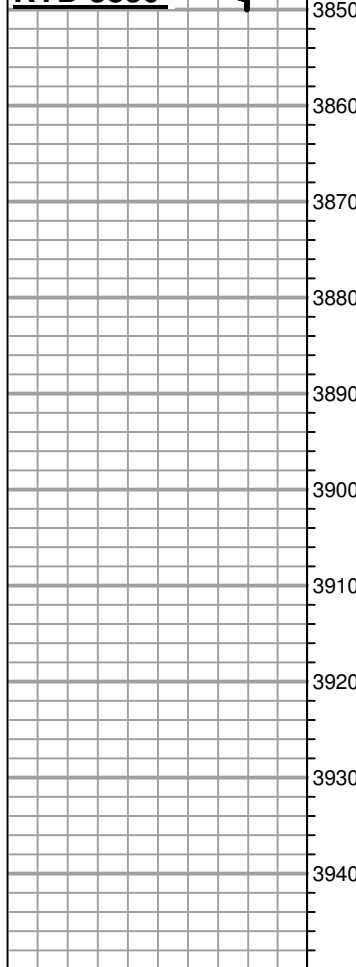
Limestone: lt tan, finely sucrosic, with an abundance of chert as above, oil shows in both the chert and the Ls, spotty brown staining with slow cut, indicating tight rock.

Limestone: lt grayish-tan, micro-xln mudstone w/ chert of the same color. frosted to vitreous. less chert than above. no shows.

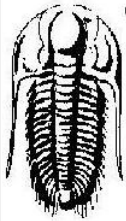
DST #2: 3620'-3680', Rec: 10' SOCM (3% oil), SIP: 442-658#

Mud-Co, Mud check 3680' @ 0530 hrs. 4/10/2022
Vis. 55, Wt. 9.1
PV 12, YP 27
WL 5.8, Cake 1/32"
pH 10.5, Ca 20 ppm
CHL 2,700 ppm
Sol 5.6 LCM 1
DMC: \$173.70
CMC: \$7,366.19

color, related to intervals, less than above, no color.



RTD 3850' @ 1836 hrs, 4/10/2022
ELI Wireline Services LTD 3851'
Completed Logging Operations
@ 0200 hrs 4/11/2022
Geologist: Charlie Sturdavant off location
@ 0900 hrs 4/11/2022



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC
 10390 Bradford Rd
 Littleton CO 80127+6416
 ATTN: Charlie Sturdavant

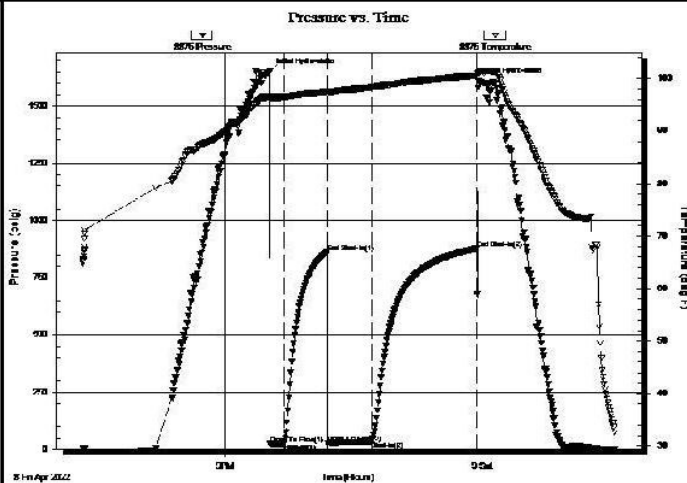
3-11s-23w Trego KS
Albert #1-3
 Job Ticket: 68220 **DST# 1**
 Test Start: 2022.04.08 @ 19:20:00

GENERAL INFORMATION:

Formation: **LKC A-D**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **21:31:27**
 Tester: **Spencer J Staab**
 Time Test Ended: **01:33:11**
 Unit No: **84**
Interval: 3468.00 ft (KB) To 3550.00 ft (KB) (TVD)
 Reference Elevations: **2229.00 ft (KB)**
Total Depth: 3550.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: **Fair**
 KB to GR/CF: **7.00 ft**

Serial #: 8875 **Inside**
 Press@RunDepth: **34.87 psig @ 3472.00 ft (KB)** Capacity: psig
 Start Date: **2022.04.08** End Date: **2022.04.09** Last Calib.: **2022.04.09**
 Start Time: **19:20:01** End Time: **01:33:12** Time On Btm: **2022.04.08 @ 21:31:17**
 Time Off Btm: **2022.04.08 @ 23:57:17**

TEST COMMENT: 10-F-Surface to 1.5"
 30-ISI-No Return
 30-FF-Surface Died @ 5 mins
 75-FSI-No Return



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.23	96.59	Initial Hydro-static
1	22.23	96.15	Open To Flow (1)
10	26.43	96.50	Shut-In(1)
41	862.16	97.50	End Shut-In(1)
41	27.79	97.19	Open To Flow (2)
71	34.87	98.35	Shut-In(2)
145	876.90	100.62	End Shut-In(2)
146	1609.96	101.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% M	0.02
0.00	Sampler= 3000ml @ 20psi	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC
 10390 Bradford Rd
 Littleton CO 80127+6416
 ATTN: Charlie Sturdavant

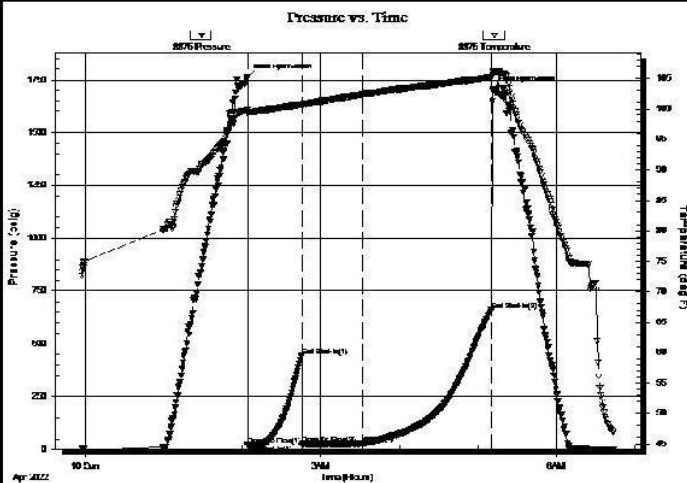
3-11s-23w Trego KS
Albert #1-3
 Job Ticket: 68221 **DST#: 2**
 Test Start: 2022.04.09 @ 23:57:00

GENERAL INFORMATION:

Formation: **LKC I-K**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **02:03:52**
 Tester: **Spencer J Staab**
 Time Test Ended: **06:44:07**
 Unit No: **84**
Interval: 3620.00 ft (KB) To 3680.00 ft (KB) (TVD)
 Reference Elevations: **2229.00 ft (KB)**
Total Depth: 3680.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: **Fair**
 KB to GR/CF: **7.00 ft**

Serial #: 8875 **Inside**
 Press@RunDepth: **28.34 psig @ 3624.00 ft (KB)** Capacity: psig
 Start Date: **2022.04.09** End Date: **2022.04.10** Last Calib.: **2022.04.10**
 Start Time: **23:57:01** End Time: **06:44:07** Time On Btm: **2022.04.10 @ 02:03:47**
 Time Off Btm: **2022.04.10 @ 05:10:57**

TEST COMMENT: 10-F-Surface to 1"
 30-ISI-No Return
 45-FF-Surface Died @ 2 mins
 90-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.63	99.81	Initial Hydro-static
1	20.53	99.17	Open To Flow (1)
11	22.77	99.70	Shut-In(1)
42	442.45	100.78	End Shut-In(1)
42	25.95	100.76	Open To Flow (2)
88	28.34	102.40	Shut-In(2)
187	658.21	105.20	End Shut-In(2)
188	1702.56	105.91	Final Hydro-static

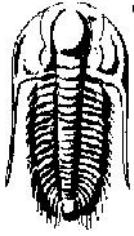
Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 3%O 97%M	0.05
0.00	Sampler 200ml O 2800ml M @ 250PSI	0.00

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/d)

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC
 10390 Bradford Rd
 Littleton CO 80127+6416
 ATTN: Charlie Sturdavant

3-11s-23w Trego KS
Albert #1-3
 Job Ticket: 68220 **DST#: 1**
 Test Start: 2022.04.08 @ 19:20:00

GENERAL INFORMATION:

Formation: **LKC A-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:31:27
 Time Test Ended: 01:33:11
 Interval: **3468.00 ft (KB) To 3550.00 ft (KB) (TVD)**
 Total Depth: 3550.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2229.00 ft (KB)
 2222.00 ft (CF)
 KB to GR/CF: 7.00 ft

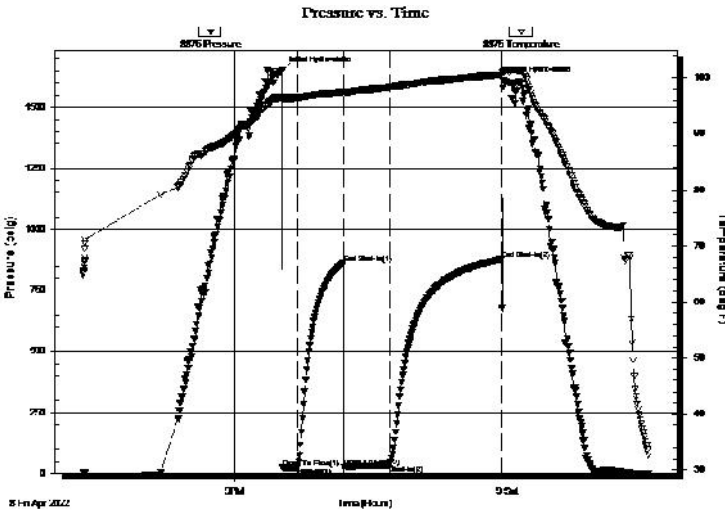
Serial #: 8875

Inside

Press@RunDepth: 34.87 psig @ 3472.00 ft (KB) Capacity: psig
 Start Date: 2022.04.08 End Date: 2022.04.09 Last Calib.: 2022.04.09
 Start Time: 19:20:01 End Time: 01:33:12 Time On Btm: 2022.04.08 @ 21:31:17
 Time Off Btm: 2022.04.08 @ 23:57:17

TEST COMMENT: 10-IF-Surface to 1.5"
 30-ISI-No Return
 30-FF-Surface Died @ 5 mins
 75-FSI-No Return

PRESSURE SUMMARY



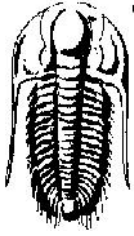
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.23	96.59	Initial Hydro-static
1	22.23	96.15	Open To Flow (1)
10	26.43	96.50	Shut-In(1)
41	862.16	97.50	End Shut-In(1)
41	27.79	97.19	Open To Flow (2)
71	34.87	98.35	Shut-In(2)
145	876.90	100.62	End Shut-In(2)
146	1609.96	101.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% M	0.02
0.00	Sampler= 3000ml @ 20psi	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cholla Production LLC

3-11s-23w Trego KS

10390 Bradford Rd
Littleton CO 80127+6416

Albert #1-3

ATTN: Charlie Sturdavant

Job Ticket: 68220

DST#: 1

Test Start: 2022.04.08 @ 19:20:00

GENERAL INFORMATION:

Formation: **LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:31:27

Time Test Ended: 01:33:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 3468.00 ft (KB) To 3550.00 ft (KB) (TVD)

Reference Elevations: 2229.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

2222.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6838

Inside

Press @ Run Depth: psig @ 3472.00 ft (KB)

Capacity: psig

Start Date: 2022.04.08

End Date: 2022.04.09

Last Calib.: 2022.04.09

Start Time: 19:20:01

End Time: 01:33:12

Time On Btm:

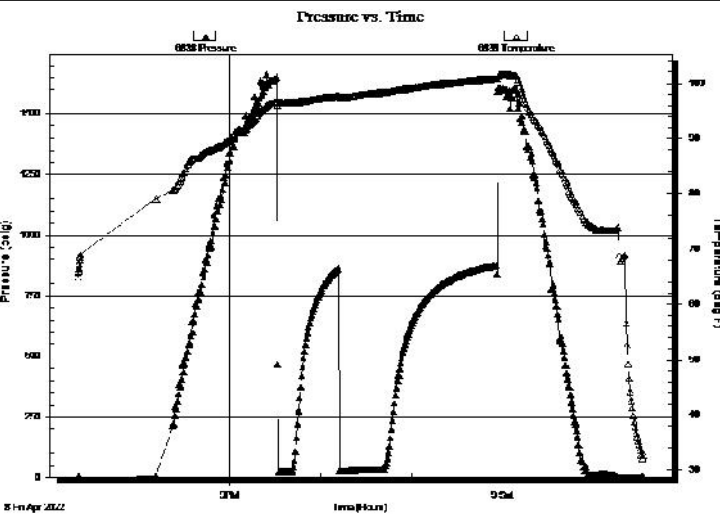
Time Off Btm:

TEST COMMENT: 10-IF-Surface to 1.5"

30-ISI-No Return

30-FF-Surface Died @ 5 mins

75-FSI-No Return



PRESSURE SUMMARY

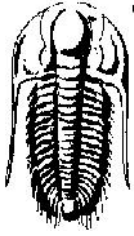
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% M	0.02
0.00	Sampler= 3000ml @ 20psi	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

3-11s-23w Trego KS

10390 Bradford Rd
Littleton CO 80127+6416

Albert #1-3

Job Ticket: 68220

DST#: 1

ATTN: Charlie Sturdavant

Test Start: 2022.04.08 @ 19:20:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100% M	0.025
0.00	Sampler= 3000ml @ 20psi	0.000

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: 2#LCM

Serial #: 8875

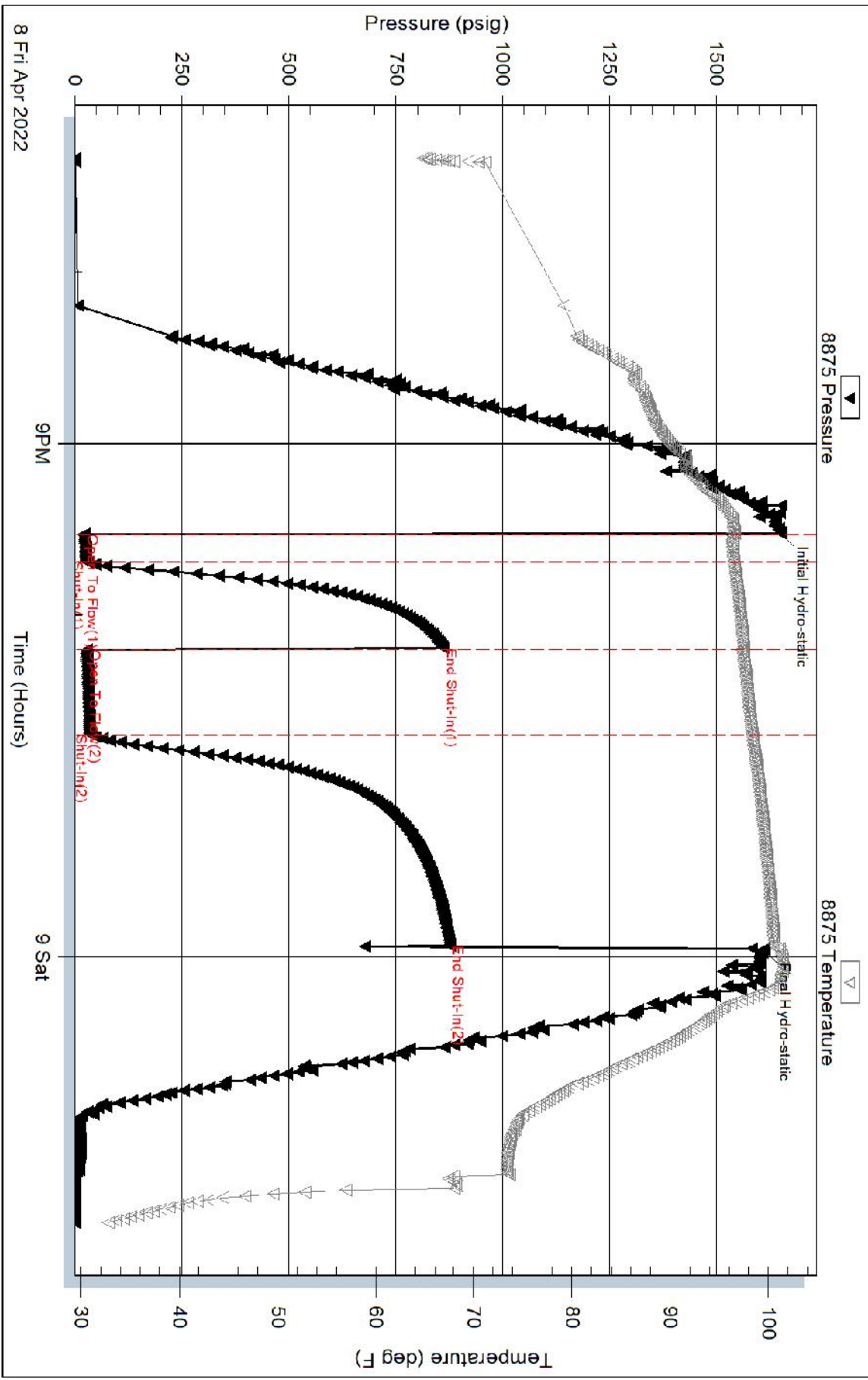
Inside

Cholla Production LLC

Albert#1-3

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 68220

Printed: 2022.04.09 @ 08:00:54

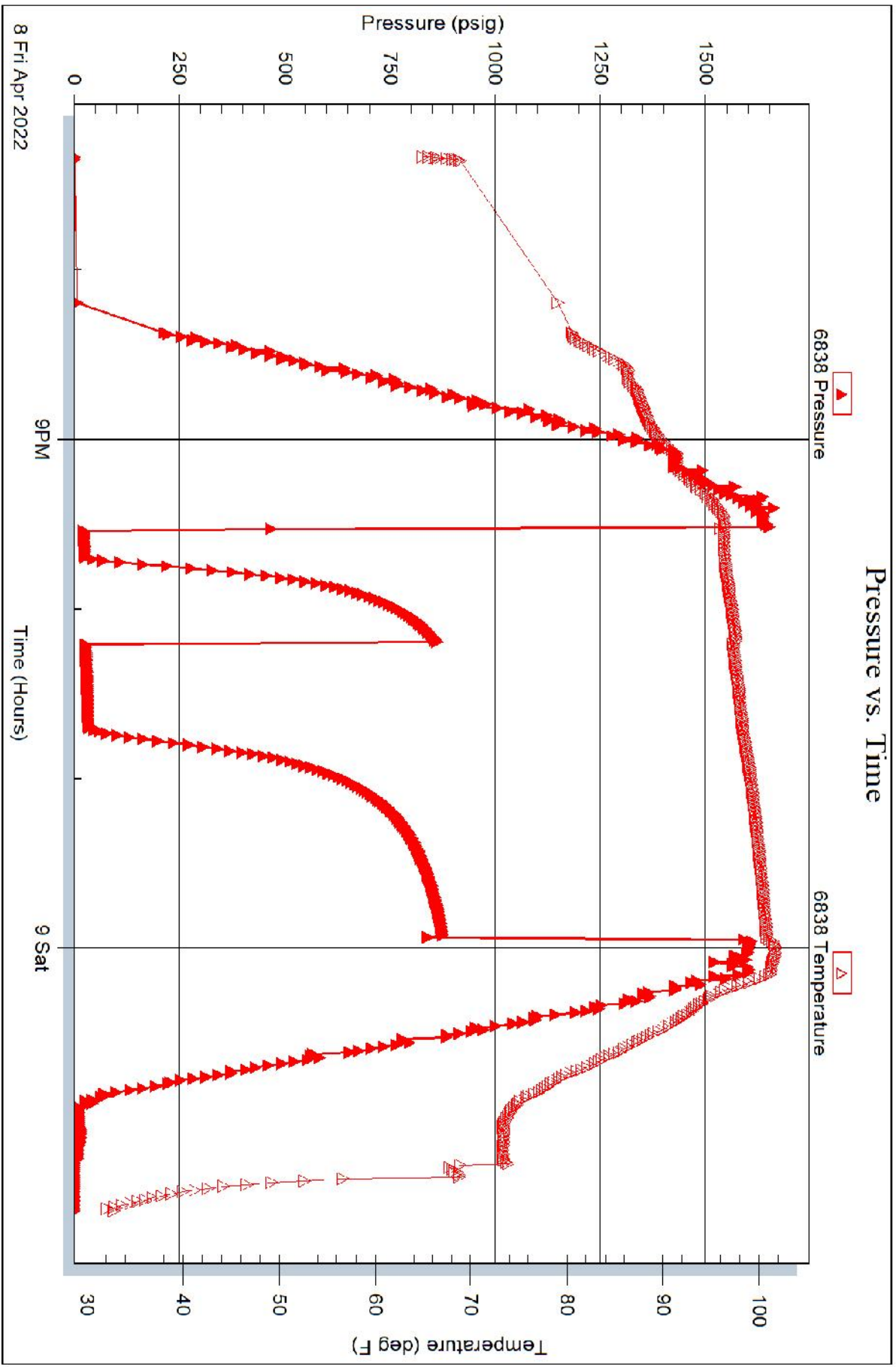
Serial #: 6838

Inside

Cholla Production LLC

Albert#1-3

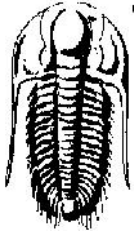
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68220

Printed: 2022.04.09 @ 08:00:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

3-11s-23w Trego KS

10390 Bradford Rd
Littleton CO 80127+6416

Albert #1-3

Job Ticket: 68221

DST#: 2

ATTN: Charlie Sturdavant

Test Start: 2022.04.09 @ 23:57:00

GENERAL INFORMATION:

Formation: **LKC I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:03:52

Time Test Ended: 06:44:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3620.00 ft (KB) To 3680.00 ft (KB) (TVD)

Reference Elevations: 2229.00 ft (KB)

Total Depth: 3680.00 ft (KB) (TVD)

2222.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8875

Inside

Press@RunDepth: 28.34 psig @ 3624.00 ft (KB)

Capacity: psig

Start Date: 2022.04.09

End Date:

2022.04.10

Last Calib.: 2022.04.10

Start Time: 23:57:01

End Time:

06:44:07

Time On Btm: 2022.04.10 @ 02:03:47

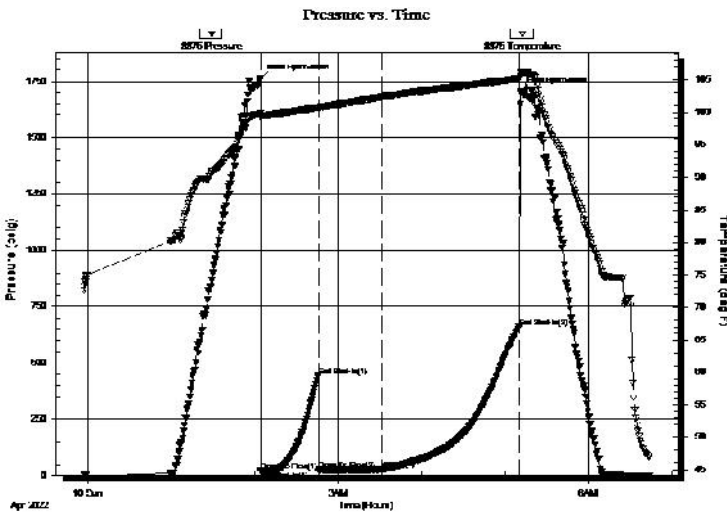
Time Off Btm: 2022.04.10 @ 05:10:57

TEST COMMENT: 10-IF-Surface to 1"

30-ISI-No Return

45-FF-Surface Died @ 2 mins

90-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.63	99.81	Initial Hydro-static
1	20.53	99.17	Open To Flow (1)
11	22.77	99.70	Shut-In(1)
42	442.45	100.78	End Shut-In(1)
42	25.95	100.76	Open To Flow (2)
88	28.34	102.40	Shut-In(2)
187	658.21	105.20	End Shut-In(2)
188	1702.56	105.91	Final Hydro-static

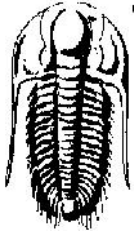
Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 3%O 97%M	0.05
0.00	Sampler 200ml O 2800ml M @ 250PSI	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC
10390 Bradford Rd
Littleton CO 80127+6416
ATTN: Charlie Sturdavant

3-11s-23w Trego KS
Albert #1-3
Job Ticket: 68221
Test Start: 2022.04.09 @ 23:57:00

DST#: 2

GENERAL INFORMATION:

Formation: LKC I-K	
Deviated: No Whipstock:	ft (KB)
Time Tool Opened: 02:03:52	Test Type: Conventional Bottom Hole (Reset)
Time Test Ended: 06:44:07	Tester: Spencer J Staab
	Unit No: 84
Interval: 3620.00 ft (KB) To 3680.00 ft (KB) (TVD)	Reference Elevations: 2229.00 ft (KB)
Total Depth: 3680.00 ft (KB) (TVD)	2222.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 7.00 ft

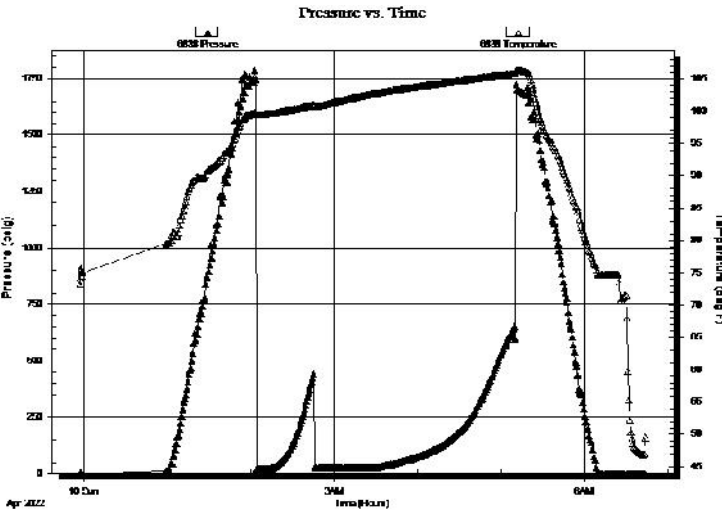
Serial #: 6838

Inside

Press @RunDepth: psig @ 3624.00 ft (KB)	Capacity: psig
Start Date: 2022.04.09	End Date: 2022.04.10
Start Time: 23:57:01	End Time: 06:44:07
	Last Calib.: 2022.04.10
	Time On Btm:
	Time Off Btm:

TEST COMMENT: 10-IF-Surface to 1"
30-ISI-No Return
45-FF-Surface Died @ 2 mins
90-FSI-No Return

PRESSURE SUMMARY



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

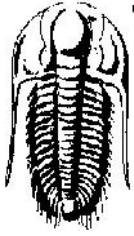
Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 3%O 97%M	0.05
0.00	Sampler 200ml O 2800ml M @ 250PSI	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

3-11s-23w Trego KS

10390 Bradford Rd
Littleton CO 80127+6416

Albert #1-3

Job Ticket: 68221

DST#: 2

ATTN: Charlie Sturdavant

Test Start: 2022.04.09 @ 23:57:00

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 3%O 97%M	0.049
0.00	Sampler 200ml O 2800ml M @ 250PSI	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

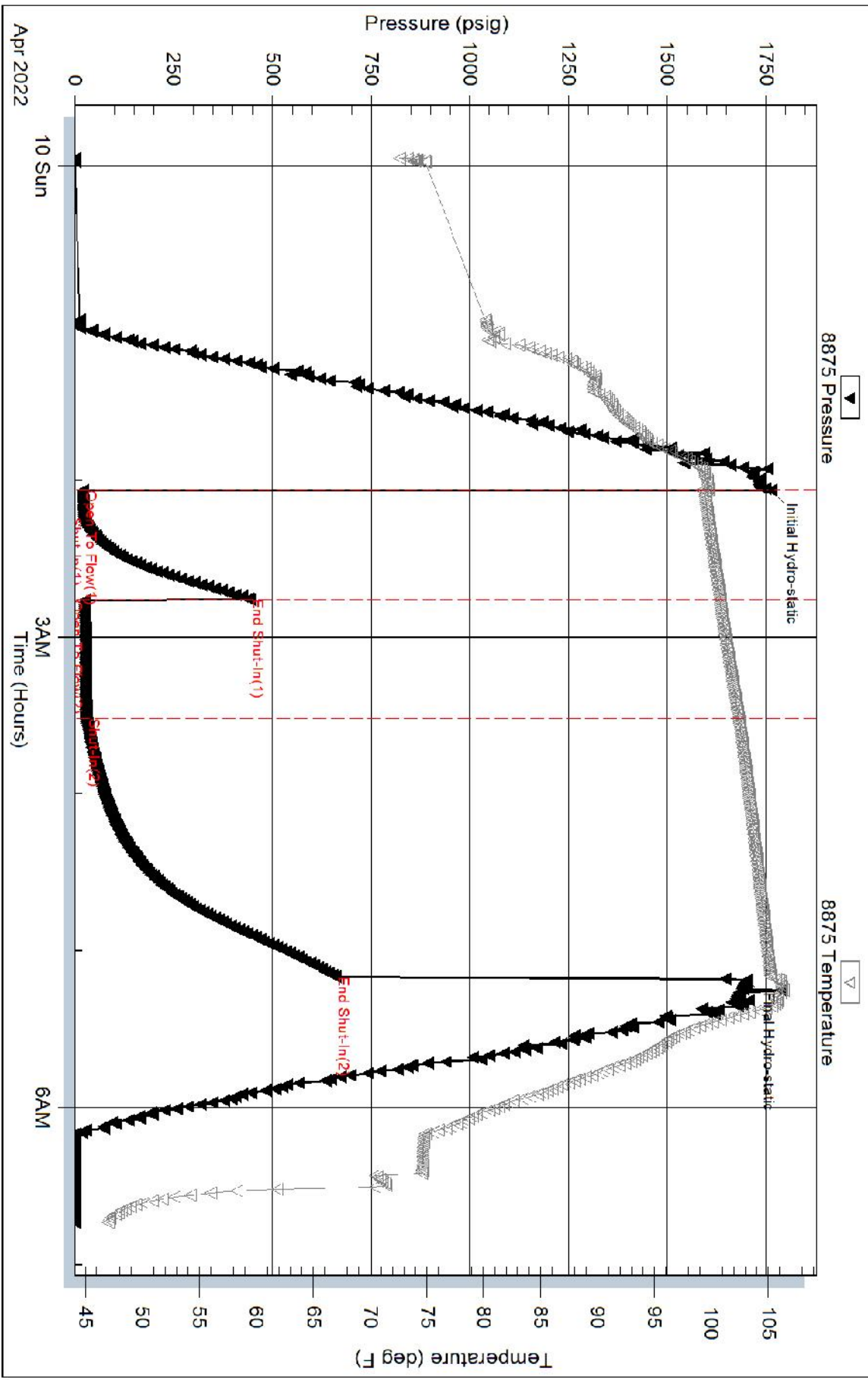
Serial #:

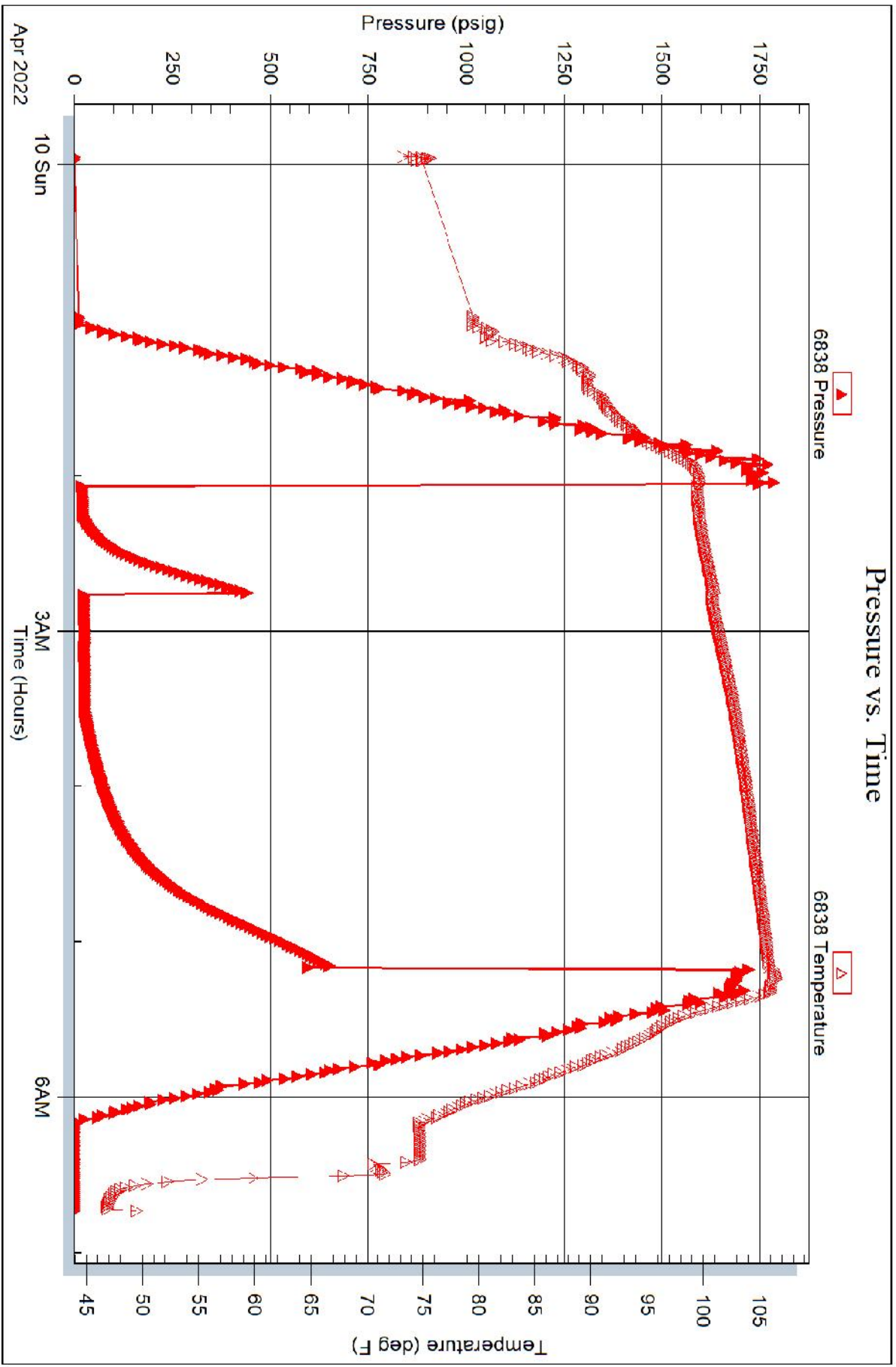
Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Pressure vs. Time





QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 2994

Date	4-11-22	Sec.	3	Twp.	11	Range	23	County	Trego	State	Ks	On Location		Finish	11:45 AM
Lease	Albert			Well No. 1-3			Location Wakeeny - N to BRd, 100 IE								
Contractor	Discovery #4			Owner			to tank North Into								
Type Job	plug			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.								
Hole Size	7 7/8"			T.D.			3850'			Charge To			Cholla Production		
Csg.				Depth			Street								
Tbg. Size	4 1/2" D.P.			Depth			1750'			City			State		
Tool				Depth			The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.				Shoe Joint			Cement Amount Ordered			255 60/40 40% Gel 1/4" Flo					
Meas Line	Displace			H2O/mud											
EQUIPMENT															
Pumptrk	16	No.		Cementer			Common			153					
				Helper			Poz. Mix			102					
Bulktrk	14	No.		Driver			Gel.			9					
				Driver			Calcium								
				Driver			Hulls								
				Driver			Salt								
JOB SERVICES & REMARKS															
Remarks:	1750' - 50 SX														
Rat Hole	875' - 100 SX														
Mouse Hole	300' - 50 SX														
Centralizers	40' - 10 SX														
Baskets	Rathole - 30 SX														
D/V or Port Collar	Mousehole - 15 SX														
Cement did Circulate															
FLOAT EQUIPMENT															
	Guide Shoe														
	Dry hole plug														
	Centralizer														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge														
	Mileage 53 plug														
Thanks															
Tax															
Discount															
Total Charge															
X Signature															