KOLAR Document ID: 1667703

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 # 4787
Name: TDI, Inc.
Address 1: 1310 BISON RD
Address 2:
City: HAYS State: KS Zip: 67601 + 9696
Contact Person: Tom Denning
Phone: (785) 628-2593
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Herb Deines
Purchaser: Coffeyville Resources

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 #:

9/20/2022	9/26/2022	12/27/2022
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-051-27035-00-00
Spot Description:
NW - NW - SE - SE Sec. 9 Twp. 15 S. R. 18 ☐ East ☑ West
1152 Feet from ☐ North / ☑ South Line of Section
1270 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ellis
Lease Name: MUNSCH Well #: 15
Field Name: Schoenchen
Producing Formation: Arbuckle
Elevation: Ground: 2032 Kelly Bushing: 2042
Total Vertical Depth: 3750 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 226 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1191 Feet
If Alternate II completion, cement circulated from: 1191
feet depth to: 0 w/ 130 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 44000 ppm Fluid volume: 650 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: 01/12/2023
☐ **Confidential Release Date:** 01/11/2025
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** David Befort **Date:** 01/13/2023

Operator Name: TDI, Inc. Lease Name: MUNSCH Well #: 15

Sec. 9 Twp. 15 S. R. 18 ☐ East ☑ West County: Ellis

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken *(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:

Dual Induction Log
Dual Compensated Porosity Log
Microresistivity Log

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

Name	Top	Datum
Anhydrite	1208'	+834'
Topeka	3002'	-960'
Heebner	3274'	-1232'
Lansing/Kansas City	3320'	-1278'
Base Kansas City	3543'	-1501'
Arbuckle	3626'	-1584'

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	226	Common	160	3% cc, 2% gel
Production	7.875	5.5	14	3747	EA-2	150	N/A

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	0-1191	SMD	180	
	-			

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: 1/10/2023	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:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	3326	3484

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)*
Attached	Attached	Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.875 Set At: 3690 Packer At:

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

Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	MUNSCH 15
Doc ID	1667703

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
4	3326	3339			
4	3352	3356			1000 gals 15% (over 3345'-3356')
4	3370	3376			
4	3399	3402			3000 gals 15% (over 3399'-3456')
4	3409	3413			
4	3451	3456			
4	3345	3349			
4	3474	3476			250 gals 15%
4	3482	3484			

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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	226	Common	160	3% cc, 2% gel
Production	7.875	5.5	14	3747	EA-2	150	N/A

OPERATOR

Company:	TDI, INC		
Address:	1310 BISON ROAD HAYS, KANSAS 67601-9696		
Contact Geologist:	TOM DENNING		
Contact Phone Nbr:	785-628-2593		
Well Name:	MUNSCH # 15		
Location:	NW NW SE SE, SEC.9-T15S-R18W		
API:	15-051-27,035-00-00		
Pool:	IN FIELD	Field:	SCHOENCHEN
State:	KANSAS	Country:	USA

TDI, Inc.

Scale 1:240 Imperial

Well Name:	MUNSCH # 15		
Surface Location:	NW NW SE SE, SEC.9-T15S-R18W		
Bottom Location:			
API:	15-051-27,035-00-00		
License Number:	4787		
Spud Date:	9/20/2022	Time:	11:45 PM
Region:	ELLIS COUNTY		
Drilling Completed:	9/26/2022	Time:	4:28 AM
Surface Coordinates:	1152' FSL & 1270' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	2032.00ft		
K.B. Elevation:	2042.00ft		
Logged Interval:	2900.00ft	To:	3750.00ft
Total Depth:	3750.00ft		
Formation:	ARBUCKLE		
Drilling Fluid Type:	CHEMICAL/FRESH WATER GEL		

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-99.3234589
Latitude:	38.758126
N/S Co-ord:	1152' FSL
E/W Co-ord:	1270' FEL

LOGGED BY

SOLUTIONS CONSULTING

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

CONTRACTOR

Contractor:	SOUTHWIND DRILLING, INC		
Rig #:	8		
Rig Type:	MUD ROTARY		
Spud Date:	9/20/2022	Time:	11:45 PM
TD Date:	9/26/2022	Time:	4:28 AM

Rig Release:	9/27/2022	Time:	4:30 AM

ELEVATIONS

K.B. Elevation:	2042.00ft	Ground Elevation:	2032.00ft
K.B. to Ground:	10.00ft		

NOTES

DECISION TO RUN PRODUCTION CASING AFTER LOG ANALYSIS.

OPEN HOLE LOGGING BY MIDWEST WIRELINE: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG.

NO DRILL STEM TESTS WERE RAN ON THIS WELL.

FORMATION TOPS COMPARISON

	MUNSCH # 15 NW NW SE SE SEC.9-15S-18W KB 2042'	MUNSCH # 12 NE NE SW SE SEC. 9-15S-18W KB 2043'	MUNSCH # 7 NW NE SE SE SEC.9-15S-18W KB 2039'
	LOG TOPS		
Anhydrite-top	1208 +834	+834	+831
Anhydrite-base	1244 +798	+799	+795
Topeka	3002 - 960	- 957	- 957
Heebner Shale	3274-1232	-1230	-1236
Toronto	3291-1249	-1248	-1248
LKC	3320-1278	-1277	-1281
BKC	3543-1501	-1500	-1505
Arbuckle	3626-1584	-1566	-1565
RTD	3750-1708	-1707	-1711

09-20-22	Spud 11:45 PM.
09-21-22	229', set 8 5/8" surface pipe to 226' w/ 160 sxs common 3%CC 2%gel, plug down 5:45 AM, slope 3/4 degree @229'. WOC 8 hours drill plug at 1:45 PM with button bit
09-22-22	1122', drilling
09-23-22	2139', drilling,
09-24-22	2838', drilling, displaced 2750'-2810'
09-25-22	3390', drilling
09-26-22	3750', CFS 3750', RTD @4:28 AM, short trip, TOWB, logs, TIWB, LDDP, slope survey 1 ¼ degree @ 3750', run production casing.
09-27-22	3750', land production casing and cement bottom and top stages. Job completed 4:00 AM

ROCK TYPES

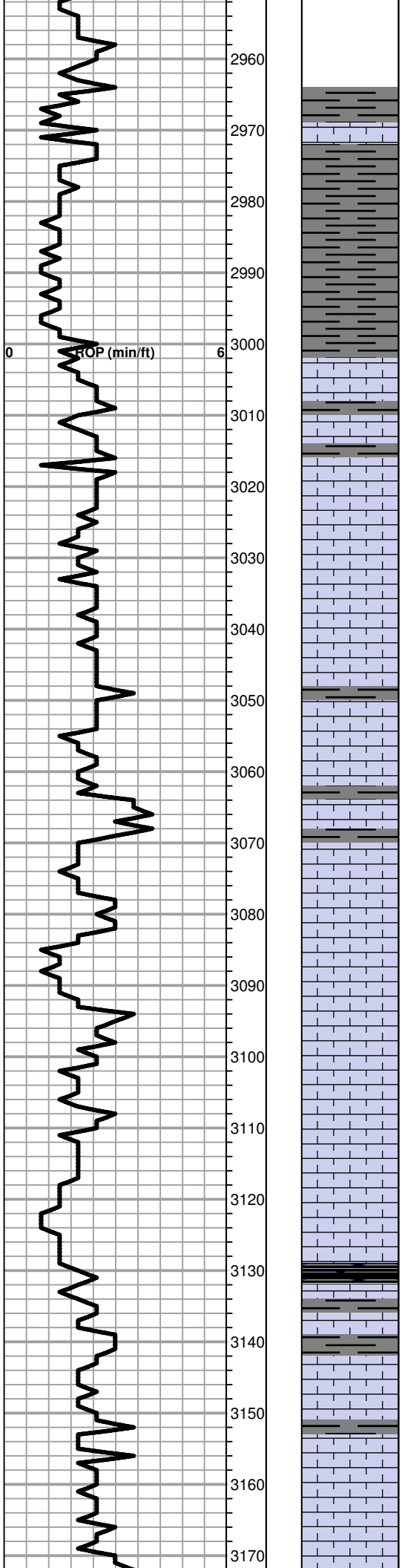
	Congl		Lmst fw7>		shale, grn		Carbon Sh
	Dolprim		Lscongl		shale, gry		shale, red

ACCESSORIES

MINERAL

△ Chert White

Curve Track #1 ROP (min/ft) 1:240 Imperial	Depth | Intervals Cored Interval DST Interval	DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3 1:240 Imperial
0 ROP (min/ft) 6	2900 2910 2920 2930 2940 2950				BEGIN 1' DRILL TIME FROM 2900' TO RTD BEGIN 10' WET AND DRY SAMPLES FROM 3000'-RTD **ANHYDRITE TOP 1208+834** **ANHYDRITE BASE 1244+798**	8 5/8" SURFACE CASING SET TO 226' CEMENTED W/160 SXS COMMON, 2% GEL 3%CC PLUG DOWN 5:45AM 9/21/2022 SLOPE 3/4 DEGREE@228'



Lime, med brn-med grayish brn, fnxln, fossiliferous

Shale, lt gray, soft sticky

TOPEKA 3002-960

Lime, lt-med brn, fnlxn

Lime, lt-med brn, fn-vfxln, slight fossiliferous

Lime, lt-med brn, fn-vfxln, some fine grained, NS

Lime, lt-med brn, fnxln, slightly fossiliferous

Lime, lt-med brn, fnxln

Lime, lt-med brn-med grayish brn, fn-vfxln

Lime, lt-med brn, fn-micro xln

Lime, lt gray-lt brn, fnxln-soft granular, NS

Lime, lt brn-lt gray, fnxln-granular in chalk matrix with scattered bedded chalk and fossil fragments

Lime, lt brn, granular, thin chalk beds, softly fossiliferous

Lime, lt-med brn, granular, bedded chalk in part

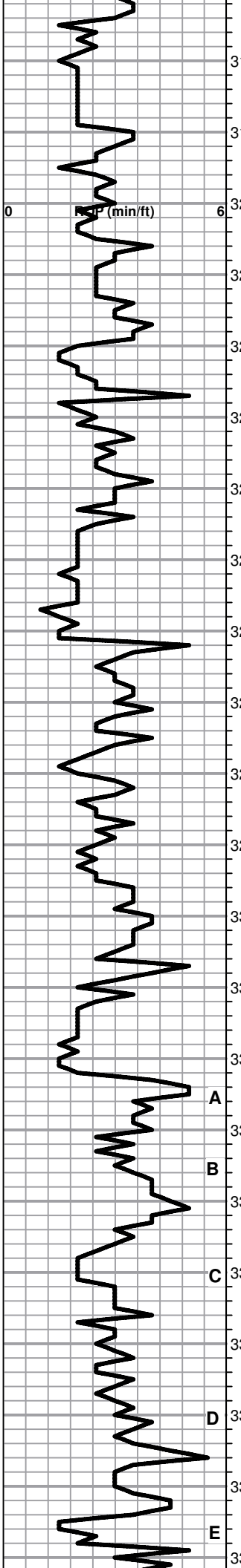
Lime, lt-med brn, granular, chalky with sticky clumps in part
Shale, black carbonaceous, blocky

Lime, med brn, vfxln, slightly fossiliferous

Lime, tl brn, fnxln with sticky chalk in part

Lime, crm, fn-micro, lithographic

Lime, crm-lt brn, fn-micro xln



Lime, lt brn, fn-micro xln

Lime, crm-lt brn, pyritic near shale boundary

Shale, black carbonaceous, blocky, pyritic

Lime, crm-lt brn, micro xln

Lime, crm-lt brn, fnxln, bedded chalk in part

Lime, crm-lt brn, fnxlln-granular in part, bedded chalk, NS

Lime, offwhite-lt brn, fn-micro xln

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

Lime, lt brn, fn-vfxln, bedded, chalk in part

Lime, crm-lt brn, fn-micro xln

Lime, lt brn, fn-vfxln

HEEBNER SHALE 3274-1232

Shale, black carbonaceous, blocky
Lime, lt brn, micro xln

Shale, lt gray, soft sticky

TORONTO 3291-1249

Lime, crm, fn-micro xln, NS

Lime, lt brn, fn-micro xln

Shale, lime green soft-red soft blocky

LKC 3320-1278

Lime, lt brn, fn-micro xln

Lime, lt brn, fn-micro xln

Lime, gray, fnxln
Shale, reddish brn wash, soft mud

Lime, lt brn, fn-vfxln, some granular chips

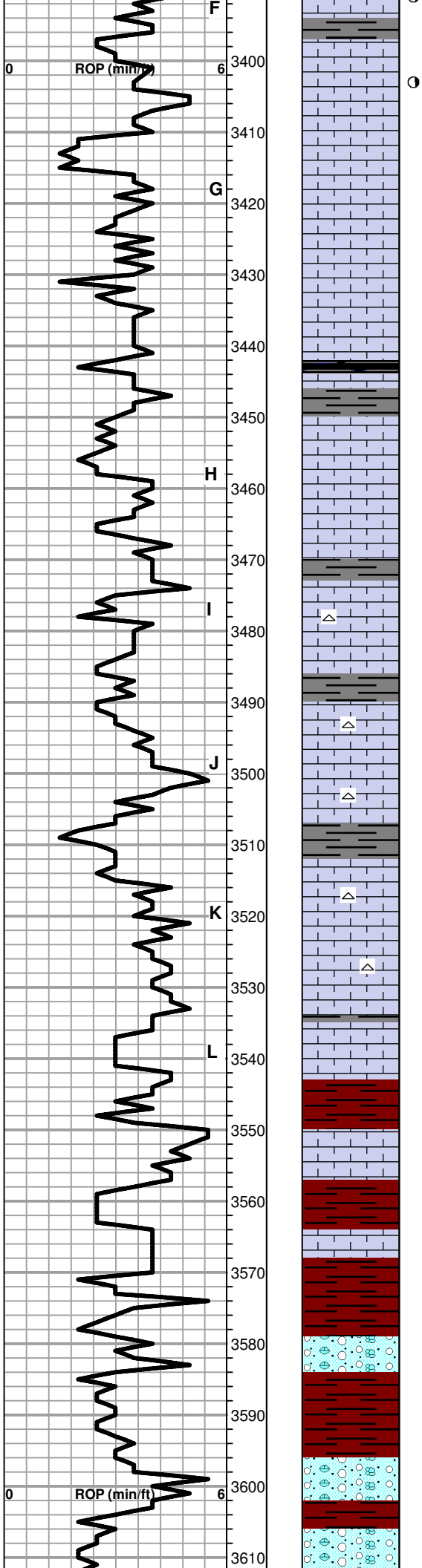
Lime, lt-med brn, fn-vfxln

Lime, lt brn, fn-micro xln, scattered oomoldic chips, lt stain, NFO

Lime, lt brn, fn-micro xln

Shale, black carbonaceous, blocky
Lime, dove gray, fnxln

Lime, lt brn, fnxln, fossiliferous in part with spotty staining in



fossil cavities and voids, NFO or odor

Lime, lt brn, fnxln, few oomoldic chips, staining in voids, NFO or odor

Lime, lt brn, fnxln, few barren oolmolic chips

Lime, crm, fn-micro xln

Lime, lt brn, fn-micro xln, slight bedded chalk

Lime, tl brn, fn-micro xln
Shale, black carbonaceous, blocky

Lime, lt-med brn, fn-vfxln

Lime, crm-lt brn, fnxln, hard bedded chalk, NS, no odor

Lime, crm-lt brn, fn-micro xln

Lime, offwhite, lt brn, fn-micro xln

Lime, crm-lt brn, fn-micro xln, white chalk wash

Lime, crm-lt brn, fn-micro xln, bedded chalk

Lime, lt brn, micro xln

Shale, gray-black carbonaceous, blocky

Lime, offwhite-crm, fn-micro xln

Lime, crm-lt brn, micro xln with bedded chalk

Lime, crm-tan, fn-micro xln

BKC 3543-1501

Shale, lt red wash, soft sticky

Lime, crm-lt brn-lt gray, fn-vfxln, some clastic lime in part

Shale, red wash, soft mud

Lime, crm-lt brn, fn-micro xln

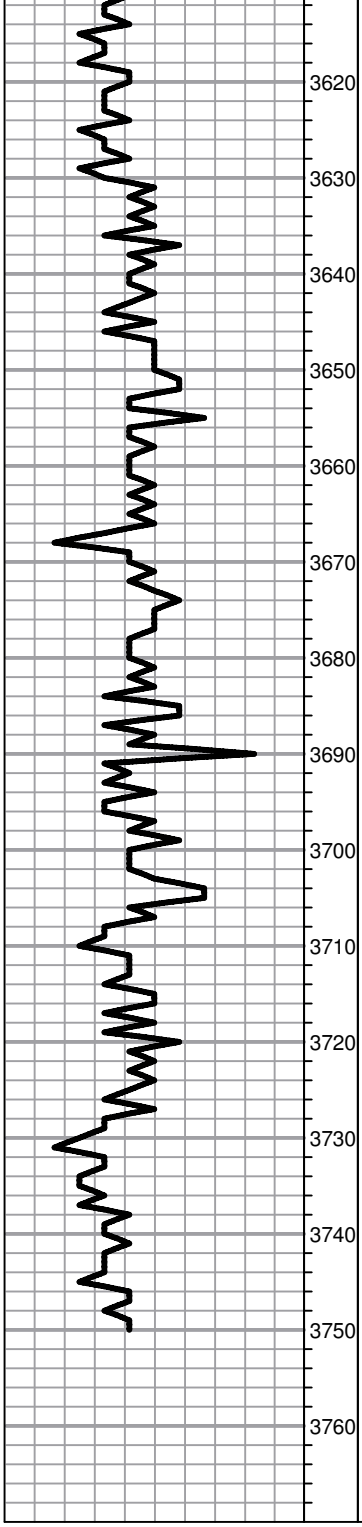
Lime, clastic mix with red staining in part

Shale, red wash, soft

Clastic lime and chert mx

Shale, white-tan, very sticky

SET 5 1/2" PRODUCTION CASING TO 3747' AND CEMENTED WITH 150 SXS EA2. DV AT 1292' AND CEMENTED WITH 130 SXS SMD. CIRCULATED 10 SXS TO PIT. 30 SXS CEMENT



Shale red-brn soft blocky with lt red wash

Clastic limestones and cherts

ARBUCKLE 3626-1584

Dolomite, ivory fnxln-sucrosic , spotty stain, lt odor

Dolomite, ivory, chert in part , lt odor and VMSFO on crush

Dolomite, crm-ivory, fnxln-granular, few chips lt green shale, waxy, blocky

Dolomite, tan, fnxln-slightly granular

Dolomite, tan, fnxln-cxln, sucrosic in part, oolitic chert chips

Dolomite, tan-lt brn, fnxln-slightly granular

Dolomite, lt brn, fnxln-granular

Dolomite, tan-ivory, fnxln-granular

Dolomite, ivory-lt brn, fnxln-granular, scattered pyrite

Dolomite, crm-lt brn, fnxln-granular

Dolomite, crm-tan, micro xln-granular

Dolomite, crm-tan, micro xln-granular

Dolomite, ivory-crm

RTD 3750-1708

IN RATHOLE, 20 SXS CEMENT IN MOUSEHOLE. JOB COMPLETED 4:00 AM 9/27/2022

SLOPE 1 1/4 DEGREE @ 3750'

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0724
LOCATION Victoria
FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-21-22	4787	Munsch #15	9	15	18	Ellis

CUSTOMER TPI
MAILING ADDRESS 1310 Bison RD
CITY Hays | STATE KS | ZIP CODE 67601

TRUCK #	DRIVER	TRUCK #	DRIVER
102	Tom W		
201	Jack T		

JOB TYPE Surface HOLE SIZE ____ HOLE DEPTH ____ CASING SIZE & WEIGHT ____
CASING DEPTH ____ DRILL PIPE ____ TUBING ____ OTHER ____
SLURRY WEIGHT ____ SLURRY VOL ____ WATER gal/sk ____ CEMENT LEFT in CASING ____
DISPLACEMENT ____ DISPLACEMENT PSI ____ MIX PSI ____ RATE ____

REMARKS: Safety meeting + set up on South Wind. Circulate mud. Mix 160sx surface blend + displaced 13.5 Bbl. Shut in 5:45am

cement did circulate

left surface head

Thanks Tom + Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P6002	1	PUMP CHARGE Surface	$1150.00	$1150.00
M001	18	MILEAGE	$6.50	$117.00
M002	2-84 bbls	Ton Mileage Delivery	$400.00	$400.00
CB004	160sx	Class A Blend 2% gel	$24.50	$3920.00
			sub total	$5,787.00
			less 10% disc.	$578.70
			sub total	$5208.30
			SALES TAX	246.96
			ESTIMATED TOTAL	5455.26

AUTHORIZATION Doug Robert TITLE ____ DATE ____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

JOB LOG

SWIFT Services, Inc.

DATE 09/26/22 | PAGE NO. 1

CUSTOMER I.D.I. | WELL NO. #15 | LEASE Munsch | JOB TYPE 2 Stage Long String | TICKET NO. 35591

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	2250							On location w/ Float Equipment
								RTD - 3750'
								5½" x 14# set @ 3747'
								Shoe Jt - 42' Insert @ 3703
								D.V. Tool @ ~~1212.30~~ 1191' on top of #90
								Centralizers - 1, 3, 5, 7, 9, 11, 12, 13, 59, 60
								Baskets - 4, 90
	2315							Start Pipe w/ FE
	0100							Break Circulation on Bottom
	0200							Hook up to Swift
		5	12				300	Pump Mudflush
		5	20				300	Pump KCL Spacer
	0225	4					300	Start EA2 cmt
		4	36				Vac	Finish Cmt, Drop Plug
								Wash out Pump & Lines
	0240	6¼						Start Displacement
	0255	6¼	90				900/1600	Lift PSI 900 Land PSI 1600
								Release Truck
								Drop Bomb
		2	7					Plug Rathole w/ 30 SKS
		2	4					Plug Mousehole w/ 15 SKS
	0320						900	Open D.V. Tool
	0325	4½						Start Cmt @ 11.2#
			55					Raise Wt to 14#
			70					Fin Cmt
								Drop Plug
	0350	4					Vac	Start Displacement
	0350	4	27				600	Lift
	0357	4	29				1400	Land Cmt Circ to Surface
								Release - Dry
								Wash up
	0415							Rack up
	0430							Job Complete
								Thanks
								Jon, Joe, Brett