

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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Form	ACO1 - Well Completion
Operator	Vonfeldt, Alan J
Well Name	MICHAELIS 5
Doc ID	1614591

Tops

Name	Top	Datum
ANHYDRITE TOP	655	+1055
ANHYDRITE BASE	689	+1021
DOVER LIME	2227	-517
TARKIO LIME	2275	-565
TOPEKA	2553	-843
HEEBNER SHALE	2782	-1072
LKC	2849	-1139
BKC	3109	-1399
RTD	3115	-1405

OPERATOR

Company: ALAN J. VONFELDT
 Address: PO BOX 611
 RUSSELL, KANSAS 67665

Contact Geologist: ALAN VONFELDT
 Contact Phone Nbr: 785-483-0252
 Well Name: MICHAELIS # 5
 Location: NW NE SW SW, SEC.33-T14S-R13W
 API: 15-167-24,116-00-00
 Pool: IN FIELD
 State: KANSAS
 Field: HALL-GURNEY
 Country: USA

Scale 1:240 Imperial

Well Name: MICHAELIS # 5
 Surface Location: NW NE SW SW, SEC.33-T14S-R13W
 Bottom Location:
 API: 15-167-24,116-00-00
 License Number: 7281
 Spud Date: 1/17/2022 Time: 3:00 PM
 Region: RUSSELL COUNTY
 Drilling Completed: 1/22/2022 Time: 8:57 AM
 Surface Coordinates: 1248' FSL & 974' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1702.00ft
 K.B. Elevation: 1710.00ft
 Logged Interval: 2100.00ft To: 3115.00ft
 Total Depth: 3130.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -98.777016
 Latitude: 38.7873111
 N/S Co-ord: 1248' FSL
 E/W Co-ord: 974' FWL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: GEOLOGIST Name: HERB DEINES

CONTRACTOR

Contractor: DISCOVERY DRILLING INC
 Rig #: 2
 Rig Type: MUD ROTARY
 Spud Date: 1/17/2022 Time: 3:00 PM
 TD Date: 1/22/2022 Time: 8:57 AM
 Rig Release: 1/23/2022 Time: 5:00 AM

ELEVATIONS

K.B. Elevation: 1710.00ft Ground Elevation: 1702.00ft
 K.B. to Ground: 8.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON SHOWS IN TARKIO AND LKC AND LOG ANALYSIS.

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









NO DRILL STEM TESTS WERE RAN ON THIS WELL.

FORMATION TOPS COMPARISON

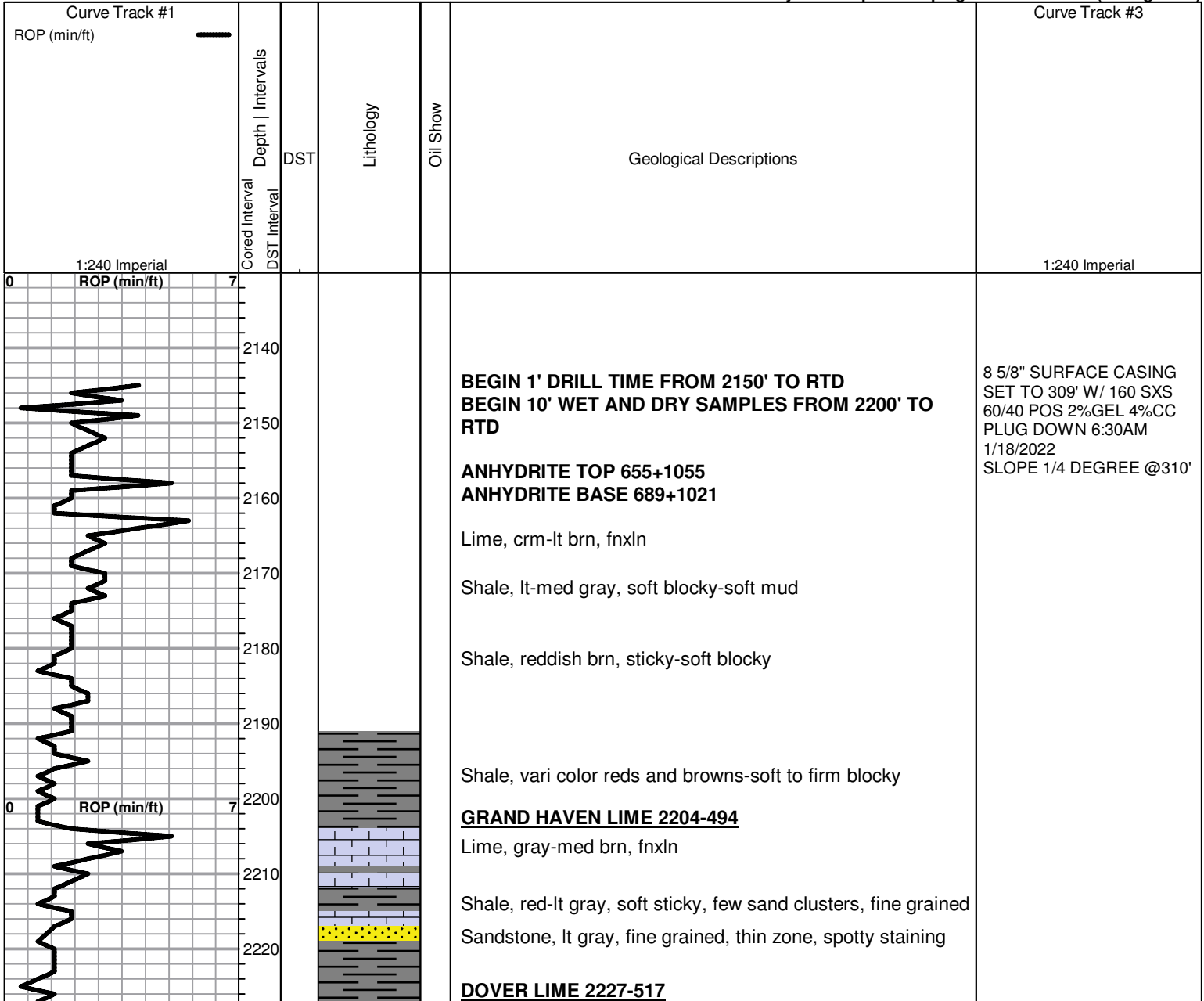
	MICHAELIS # 5 NW NE SW SW SEC.33-14S-13W KB 1710'	MICHAELIS # 1 SE NE SW SW SEC. 33-14S-13W KB 1733'	HEFFERMAN B-3 SE NW SW SEC.33-14S-13W KB 1700'
	LOG TOPS		
Anhydrite-top	655+1055	+1048	+1050
Anhydrite-base	689+1021	+1015	
Dover Lime	2227 -517	-524	-527
Tarkio Lime	2275 -565	-572	
Topeka	2553 - 843	-852	
Heebner Shale	2782-1072	-1284	
Toronto	2800-1090	-1100	
LKC	2849-1139	-1143	
BKC	3109-1399	-1409	
Arbuckle	Not Reached	-1429	
RTD	3115-1405	-1485	-536

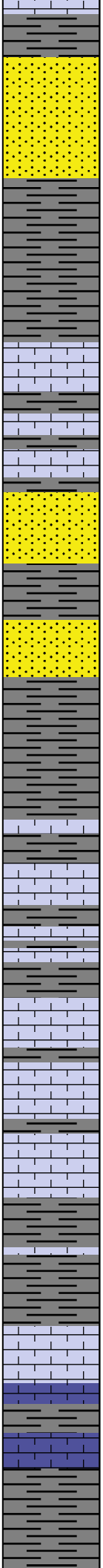
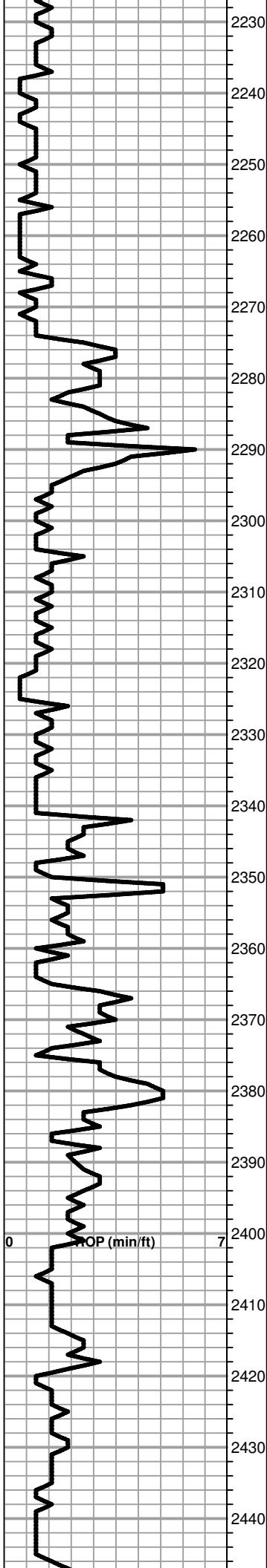
- 1-17-22 Spud 3:00 PM. Drilling surface hole. Encountered iron pyrite.
- 1-18-22 310', set 8 5/8" to 309' and cemented w/ 160 sks 60/40 pos 4%CC 2%gel, plug down 6:00 AM, slope 1/4 degree @310'. WOC 8 hour, drill plug with conventional button bit.
- 1-19-22 1467', drilling
- 1-20-22 2077', drilling, displaced at 2160'
- 1-21-22 2640', drilling
- 1-22-22 3092', drilling, RTD 3115' @8:57AM, short trip 25 stands, CCH, TOWB, slope survey 1 degree @ 3115', logs, TIWB, LDDP
- 1-23-22 3115', run 1 1/2" production casing set to 3055' cemented with 175 sxs cement. Job completed at 4:00AM, released rig at 5:00 AM

ROCK TYPES

- | | | | |
|--|--|--|---|
|  Lmst fw<7 |  shale, grn |  Carbon Sh |  Ss |
|  Lmst fw>7 |  shale, gry |  shale, red |  CglSandy |

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





Lime, lt brn, fnxln
 Sandstone, fine grained, fair sorting, partial to sat lt stain, fair odor and show of lt gassy oil on crush, good wet cut

Shale, med gray, soft blocky, sticky in part

TARKIO/STOTLER LIME 2275-565
 Lime, lt brn-vari colored, fnxln, crinoids
 Lime, lt-med brn-lt gray, fn-vfxln

Shale, dove gray, soft blocky
 Sandstone, fine grained, fair sorting in part, lt to sat staining, very lt detectable odor, good wet cut, gas bubbles

Shale, lt-med gray, soft- soft blocky, fine gritty lt grained sandstone, micaceous, NS

ELMONT LIME 2342-632
 Lime, lt-dark brn, fn-vfxln, specks of glauconite
 Shale, med gray, firm blocky

Lime, crm-lt brn, fn-vfxln

Lime, crm, fnxln, bedded chalk, clean

Lime, lt-dark brn, fn-vfxln, thin fossil beds well cemented

Lime, lt-med brn-med gray, fnxln, fusulinids

Lime, lt-dark brn-med gray, fnxln, fossiliferous in part

Lime, med-dark brn-med gray, fnxln, fossiliferous in part

Shale, reddish brn, soft blocky grading into lt gray soft sticky

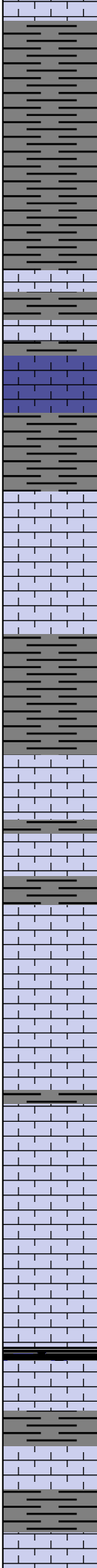
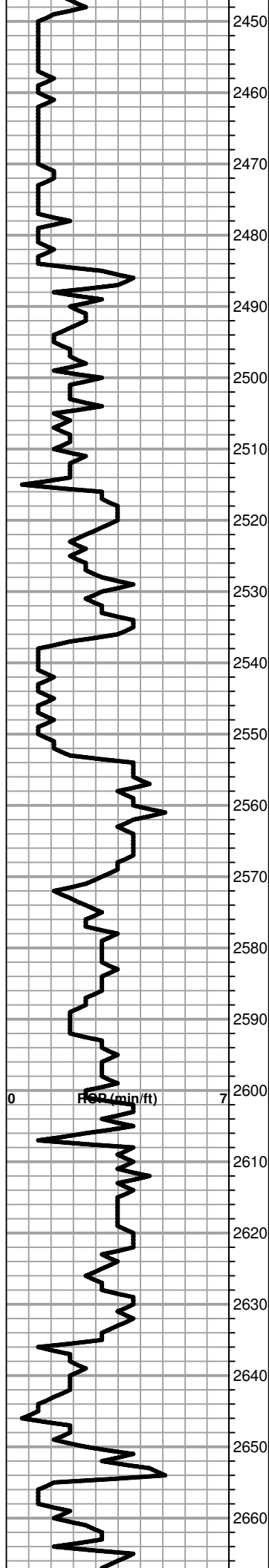
Lime, lt-med brn, fnxln, fossiliferous

Lime, lt-med brn-gray, fnxln, fossiliferous in part

Lime, med brn-med gray, fnxln
 Shale, med gray, blocky, sandy and gritty, micaceous, NS

Noted lack of glauconite and mica in samples. Very clean sandstone.

Both sands looked very similar and each should be perforated and tested based on favorable structure to offset wells.



Lime, dark brn, fnxn, fossiliferous

Shale, lt-med gray, soft mud to soft blocky

Shale, lt-med gray, soft mud to soft blocky

Lime, dark brn, fn-vfxln, slightly fossiliferous

Lime, crm-lt brn, fn-vfxln, firm bedded chalk

Shale, lt-med gray, soft blocky

Lime, lt-med brn, fn-vfxln, slightly fossiliferous in part

Lime, lt-med brn-lt gray, fn-micro xln, slightly fossiliferous

Lime, lt grayish brn, fn-vfxln, slightly fossiliferous

Shale, lt gray, soft mud

TOPEKA 2553-843

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

Lime, lt-med brn, fn-micro xln

Lime, lt-med brn-med grayish brn, fn-micro xln

lime, lt-med brn-lt gray, fn-vfxln, slightly fossiliferous

Lime, lt brn-med grayish brn, fnxln, thin cemented fossil beds

Lime, med brn-med gray, fnxln, slight bedded chalk

Lime, lt-med brn, fn-micro xln

Lime, lt brn-lt gray, fn-vfxln, slightly fossiliferous, granular in part with bedded chalk in chalk matrix

Lime, lt brn, fnxln grading into granular, chalky, fossiliferous lime

Shale, black carbonaceous, blocky

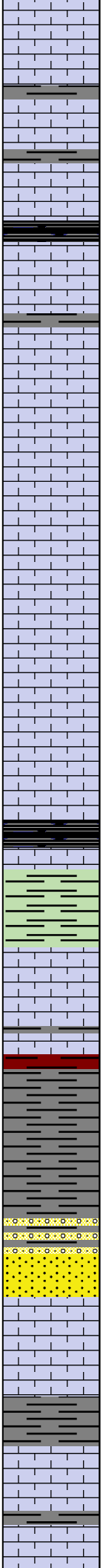
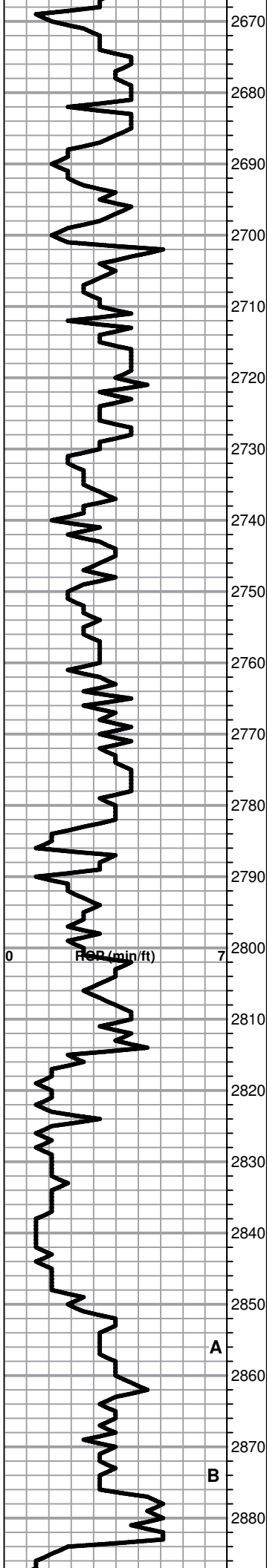
Lime, med brn, micro xln, fossiliferous

Shale, lime green-lt gray, soft sticky

Lime, white-crm, fn-micro xln

Shale, lt-med gray, soft blocky

Lime, lt brn, fn-vfxln



Lime, lt-med brn, fn-micro xln, slight bedded chalk in part

Lime, lt-med brn, fn-micro xln
Chert, gray, fresh, sharp

Shale, black carbonaceous, blocky
Lime, med brn, fn-micro xln, fossiliferous

○ Lime, lt brn, fnxln, fossiliferous in part spotty stain, vmsfo on crush, no detectable odor in sample

Lime, lt brn-lt grayish brn, fn-vfxln, slightly fossiliferous

Lime, lt brn, fnxln, firm bedded chalk, few chips with spotty staining, NFO or odor.

Lime, white-crm, fnxln, bedded chalk with white chalk wash

Lime, white-crm, fnxln

Lime, lt brn, fn-vfxln.

Lime, lt brn, fn-vfxln

HEEBNER SHALE 2782-1272

Shale, black carbonaceous, blocky, fissile
Lime, lt gray, micro xln
Shale, lime green to lt gray, soft sticky

TORONTO 2800-1090

Lime, white, fn-vfxln, bedded chalk, NS

Lime, lt brn, fn-micro xln

DOUGLAS SHALE 2815-1105

Shale, soft red sticky grading into lt-med gray shale, soft, blocky

Shale, med gray, soft sticky

Sand and shale, fine, gritty grading into tan, very fine grained, NFO or odor. Fair wet cut on crush, very friable

LKC 2849-1139

Lime, crm-lt brn, fnxln, thin fossil beds, well cemented, bed chalk, NS

Lime, lt-med brn fn-micro xln

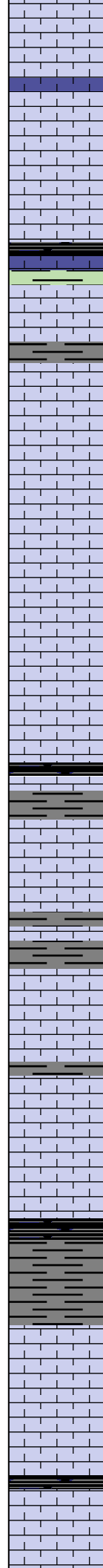
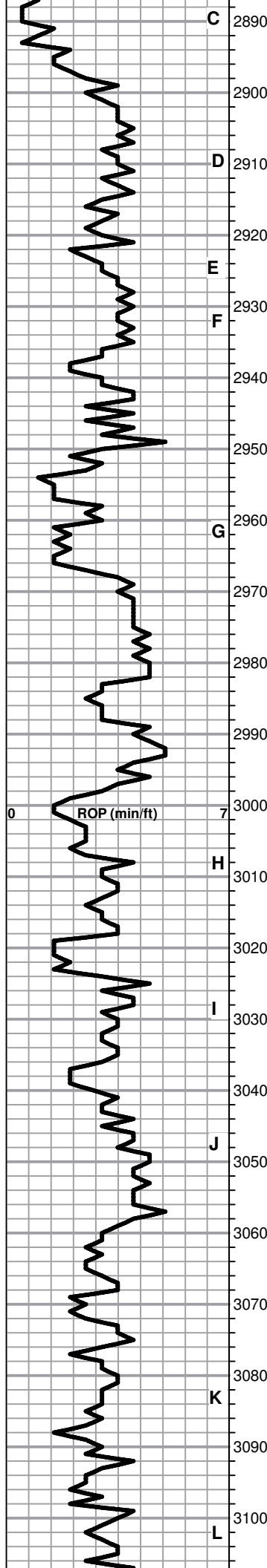
Shale, red soft, sticky

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

○ Lime, crm-lt brn, fnxln grading into oomoldic, mix of barren

A

B



and voids with SFO and odor. spotty staining

Lime, crm-lt brn, fnxln

Lime, crm-lt brn, fn-vfxln, firm bedded chalk

Shale, black carbonaceous
Lime, lt gray, fn-vfxln
Shale, dove gray, soft sticky

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

Lime, crm-lt brn, fn-vfxln, scattered chips of oomoldic porosity with lt odor and scattered staining and free oil.

Lime, cr-lt brn, fn-vfxln with firm bedded chalk

Lime, crm-tan, fn-vfxln, bedded chalk, NS or odor

Lime, crm-lt brn, fn-micro xln

Lime, crm-lt brn, fn-micro xln

Lime, ltmed brn, fn-micro xln

Lime, lt-med brn-med grayish brn, fn-micro xln, slight fossil content

Shale, reddish brn, sticky
Lime, lt brn-fn-vfxln, NS

Lime, crm-lt brn, fn-micro xln

Lime, crm-lt brn, fn-micro xln

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

Shale, black carbonaceous, blocky grading into lt gray soft sticky shale

Lime lt brn, micro xln

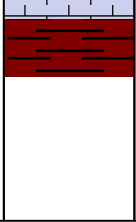
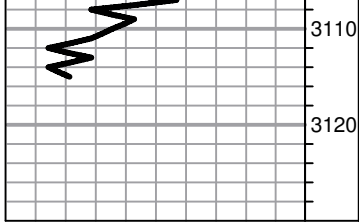
Lime, lt brn, fn-micro xln

Lime, lt brn-lt grayish brn, fn-micro xln

Shale, black carbonaceous
Lime, lt brn-lt gray, fn-micro xln

Lime, crm-lt brn, fn-micro xln

RAN 4 1/2", 11.6#
PRODUCTION CASING
SET TO 3055' AND
CEMENTED WITH 175
SXS COMMON (10%
SALT, 5% GILSONITE). 30
SXS IN RATHOLE AND 15
SXS IN MOUSEHOLE.
USED TOTAL OF 225
SACKS OF CEMENT. JOB
COMPLETED @ 4:00AM



BKC SPL TOP 3109-1405
Shale, red-reddish brn, soft

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. 2648

Date	1-18-22	Sec.	33	Twp.	14	Range	13	County	Russell	State	Ks	On Location		Finish	6:30 AM
------	---------	------	----	------	----	-------	----	--------	---------	-------	----	-------------	--	--------	---------

Location **Alan's House - S to County Road, 1/4 E**

Lease	Michealis	Well No.	5	Owner	NI into
Contractor	Discovery #2	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	Surface				
Hole Size	12 1/4"	T.D.	310'	Charge To	Alan Worfeltdt
Csg.	8 5/8"	Depth	309'	Street	
Tbg. Size		Depth		City	
Tool		Depth		State	
Cement Left in Csg.	15'	Shoe Joint	15'	The above was done to satisfaction and supervision of owner agent or contractor.	
Meas Line		Displace	18 3/4 BLS	Cement Amount Ordered 180 60/40 40% CL 2 1/2 Gel	

EQUIPMENT

Pumptrk	16	No.		Cementer		Common	110
				Helper	David	Poz. Mix	70
Bulktrk	1	No.		Driver	Doug	Gel.	8
				Driver	Rick	Calcium	3
Bulktrk	P.M.	No.		Driver			

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	191
		Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface	Tax	
Mileage	15 (min)	Discount	
<p><i>(Signature)</i></p>		Total Charge	
<p>Thanks</p>			

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. **2953**

Date	1-23-22	Sec.	33	Twp.	14	Range	13	County	Russell	State	Ks	On Location		Finish	4:00 AM	
Lease	Michaelis							Well No.	5	Location Alan's House - S to County Rd, 1/8 E						
Contractor	Discovery #2							Owner to Cattle yard, N into To Quality Oilwell Cementing, Inc.								
Type Job	Long string							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.	3130'	Charge To	Alan Donfeldt					
Csg.	4 1/2" 11.66#							Depth	3060.23'	Street						
Tbg. Size	used							Depth		City	State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.						
Cement Left in Csg.	43.80'							Shoe Joint	43.80'	Cement Amount Ordered 220 Com 10% Salt 5%						
Meas Line								Displace	46 3/4 BS	Gilsonite - 500 gal mud clear 48						
EQUIPMENT										Common 220						
Pumptrk	16	No.		Cementer	David		Poz. Mix									
Bulktrk	14	No.		Driver	Duoy		Gel.									
Bulktrk	p.u.	No.		Driver	Rick		Calcium									
JOB SERVICES & REMARKS										Hulls						
Remarks:										Salt 17						
Rat Hole	30 5x									Flowseal						
Mouse Hole	15 5x									Kol-Seal 900#						
Centralizers	1, 3, 7, 16, 21									Mud CLR 48 500 gal						
Baskets	2 + 12									CFL-117 or CD110 CAF 38						
D/V or Port Collar	pipe on bottom break Circulation									Handling 246						
pump 500 gal mud clear 48, plug Rathole + mousehole. Hook to 4 1/2" casing + mix 175 5x Cement.										Mileage						
Shut down! wash pump + lines Released plug + displaced w/ of H2O. Released + held.										FLOAT EQUIPMENT						
Lift pressure 800 #										Guide Shoe						
Land plug to 1300 #										Centralizer 5						
										Baskets 2						
										AFU Inserts						
										Float Shoe 1						
										Latch Down 1						
										Pumptrk Charge						
										Mileage 15 (min) prod string						
Signature Jerry Riecher										Tax						
										Discount						
										Total Charge						

THANKS