

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)</i> <i>(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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OPERATOR

Company: TDI, INC.
 Address: 1310 BISON ROAD
 HAYS, KANSAS 67601-9696

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-628-2593
 Well Name: VONLINTEL # 1
 Location: NW NE SE SE SEC.28-T14S-R16W
 API: 15-051-26,865-00-00
 Pool:
 State: KANSAS

Field: DREILING
 Country: USA



Scale 1:240 Imperial

Well Name: VONLINTEL # 1
 Surface Location: NW NE SE SE SEC.28-T14S-R16W
 Bottom Location:
 API: 15-051-26,865-00-00
 License Number: 4787
 Spud Date: 3/15/2017 Time: 12:00 AM
 Region: ELLIS COUNTY
 Drilling Completed: 3/20/2017 Time: 1:53 AM
 Surface Coordinates: 1050' FSL & 370' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1876.00ft
 K.B. Elevation: 1886.00ft
 Logged Interval: 0.00ft To: 0.00ft
 Total Depth: 3425.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.096968
 Latitude: 38.8012913
 N/S Co-ord: 1050' FSL
 E/W Co-ord: 370' FEL

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: SOUTHWIND DRILLING INC.
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 3/15/2017
 TD Date: 3/20/2017

Time: 12:00 AM
 Time: 1:53 AM

ELEVATIONS

K.B. Elevation: 1886.00ft Ground Elevation: 1876.00ft
 K.B. to Ground: 10.00ft

NOTES

SAMPLES WERE EXAMINED WITH MINOR HYDROCARBON SHOWS NOTED IN A NUMBER OF POORLY DEVELOPED ZONES IN THE LKC. THE ARBUCKLE CAME IN VERY LOW STRUCTURALLY COMPARED TO OFFSET WELLS AND HAD CONSIDERABLE INFILL OF RED SHALE, CHERTS AND REWORKED DOLOMITE. NO OPEN HOLE LOGS OR DRILL STEM TESTS WERE RAN ON THIS WELL.






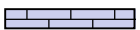




VONLINTEL # 1	ROHLER # 3	VONLINTEL # 1
NW NE SE SE	NE SW NW SW	E2 SW SE SE
SEC.28-14S-16W	SEC.27-14-16W	SEC.28-14-16W
1886'KB	KB 1867'	KB 1897'

<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	989 +897	+ 895	+ 890
B-Anhydrite	1026 +860	+ 859	+ 852
Topeka	2879 - 993	- 980	- 996
Heebner Sh.	3098-1212	-1199	-1216
Toronto	3118-1232	-1219	-1234
LKC	3146-1260	-1247	-1268
BKC	3375-1489	-1476	-1493
Rework Arbuckle	3404-1518		
Arbuckle	3420-1534	-1491	-1511
RTD	3425-1539	-1633	-1683

SUMMARY OF DAILY ACTIVITY

- 3-15-17 Spud 3:30 PM, set 8 5/8" surface casing to 224' w/ 150 sxs Common 2%gel 3%CC, WOC 8 hrs, slope 1/2 degree.
- 3-16-17 274, drilling
- 3-17-17 1387', drilling
- 3-18-17 2350', drilling, displaced 2698-2730
- 3-19-17 3032', drilling
- 3-20-17 3425', CFS 3411', CFS 3425', decision to P&A, LDDP, P&A, RD

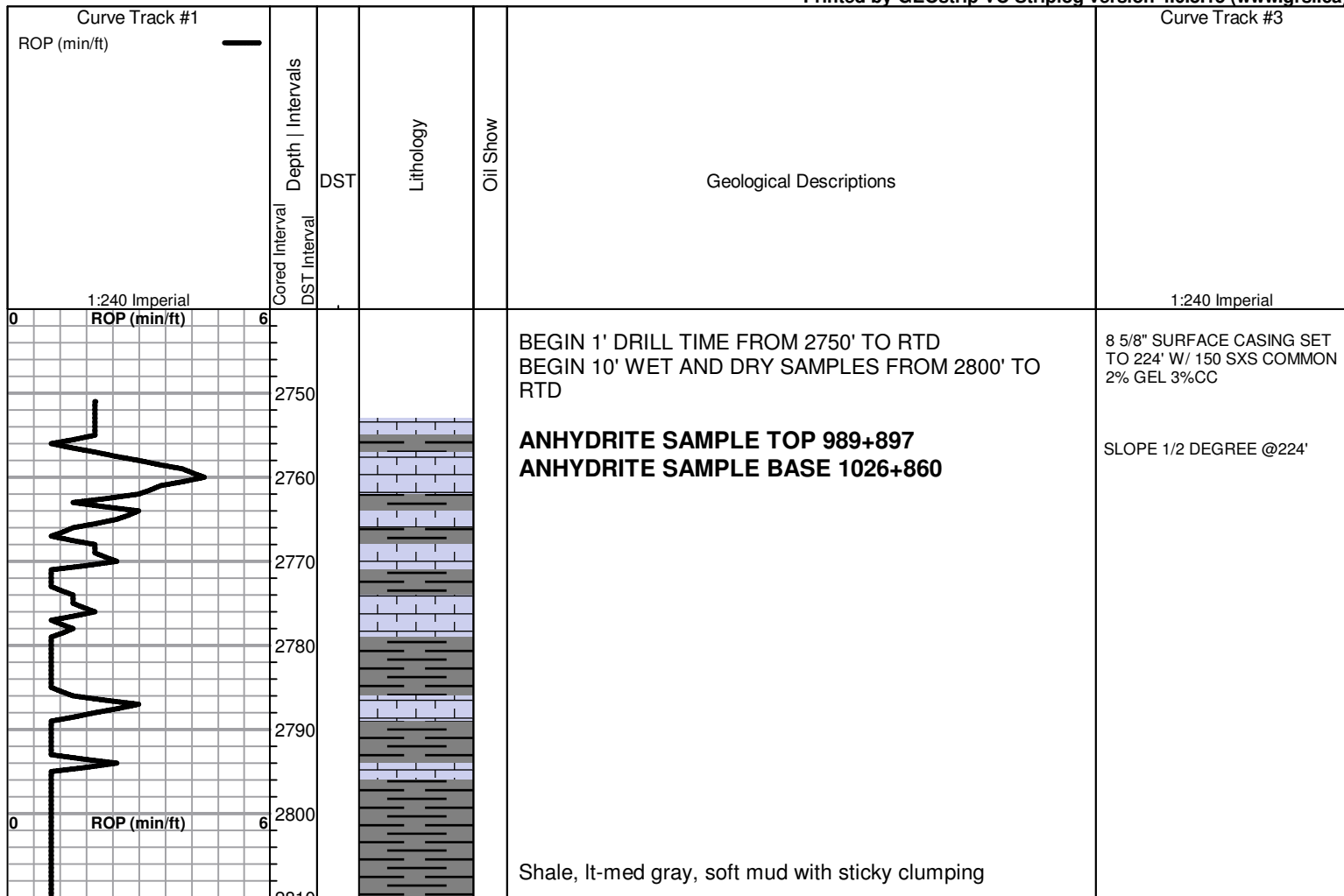
ROCK TYPES

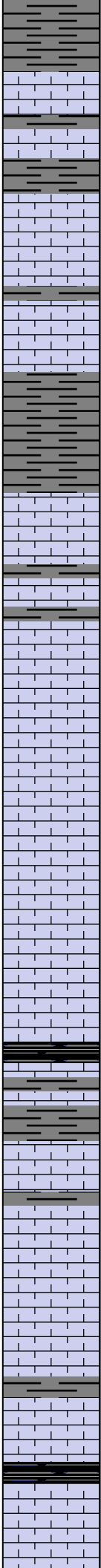
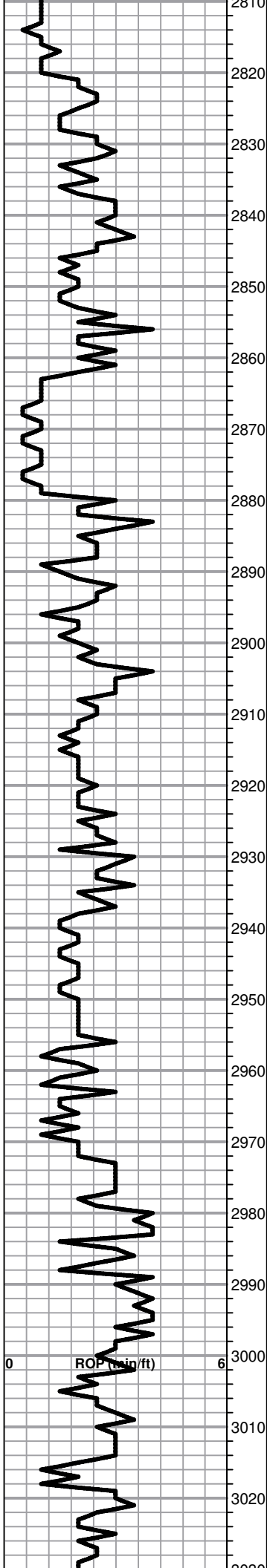
 Cht vari	 Dolsec	 shale, grn	 shale, red
 Clystgy	 Lmst fw7>	 shale, gry	
 Dolprim	 Lscongl	 Carbon Sh	

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite





Lime, lt-med brn, fnxln

Lime, lt-med brn, fnxln, slightly fossiliferous

Lime, lt brn, fnxln, soft bedded chalk

Lime, lt brn-lt grayish brn, fnxln

Shale, lt gray, soft with sticky clumping

TOPEKA SPL TOP 2879-993

Lime, crm, fnxln

Lime, crm-lt brn, fnxln with bedded chalk

Lime, lt grayish brn, fn-vfxln

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

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

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

Lime, lt-med brn, fnxln-granular in part, bedded chalk in chalk matrix, soft on crush, slightly fossiliferous

Lime, lt-med brn, soft chalky matrix with bedded chalk

Shale, black carbonaceous, blocky, fissile

Lime, crm, fn-micro xln, lithographic

Lime, crm-lt brn, fn-micro xln

Lime, crm-lt brn, fn-micro xln, slight bed chalk

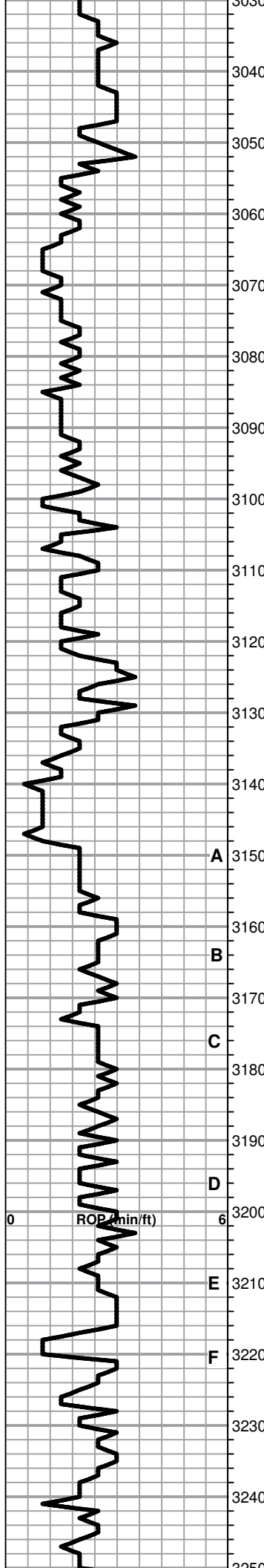
Lime, crm-lt brn-lt gray, fn-vfxln

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

Shale, black carbonaceous, blocky, fissile

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

Lime, lt-med brn, fnxln with some chalky matrix, slightly



Lime, lt med brn, fnxln with some cherty matrix, slightly fossiliferous

3040 Lime, lt brn-lt grayish brn, fn-vfxln, slight bedded chalk

3050 Lime, lt brn-lt grayish brn, fn-vfxln, slightly fossiliferous

3060 Lime, brn-med grayish brn, fnxln, slightly fossiliferous

3070 Lime, crm-lt brn, fnxln, soft on crush with increasing bedded chalk content

3080 Lime, lt brn-lt grayish brn, fnxln

3090 Lime, crm-lt brn, fnxln, slight bedded chalk

HEEBNER SHALE SPL TOP 3098-1212
 Shale, black carbonaceous, fissile, blocky
 Lime, lt brn, micro xln

3110 Shale, dove gray-lime green, soft forming sticky clumping

TORONTO SPL TOP 3118-1232
 Lime, crm-tan, fnxln with bedded chalk, NS

3130 Lime, crm-lt brn, fn-micro xln

3140 Shale, red soft mud to lt-med gray, soft blocky

LKC SPL TOP 3146-1260
 Lime, crm, fnxln with spotty fine vuggy porosity, trace of lt stain, NFO, no odor, appears poorly developed

A 3150 Lime, crm-tan, fn-vfxln

B 3170 Lime, crm-lt brn, fnxln with thin zone of scattered pinpoint vuggy porosity, NFO, very lt odor, trace of spotty staining, appears poorly developed

C 3180 Lime, crm, fn-vfxln

D 3190 Lime, crm-tan, fnxln with few chips similar to above

E 3200 Lime, crm-tan, fn-micro xln

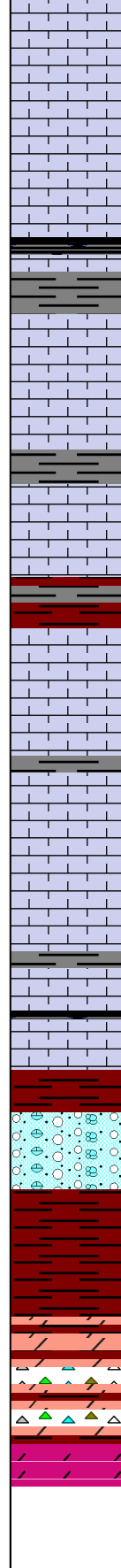
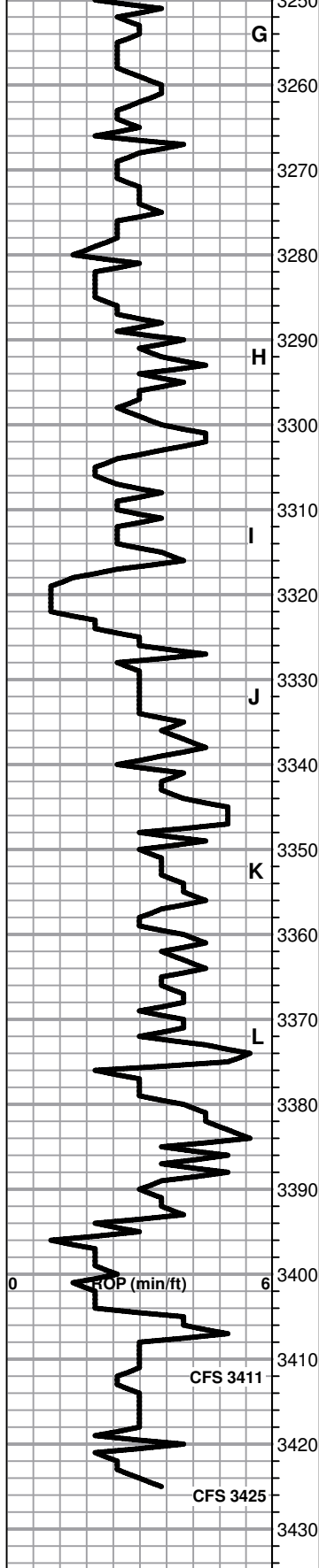
E 3210 Shale, black carbonaceous, blocky
 Lime, lt brn-lt gray, micro xln

F 3220 Lime, crm, fnxln with bedded chalk, few fossil casts with traces of staining, NFO, very lt odor

P 3230 Lime, crm, fnxln with bedded chalk

3240 Lime, crm, fn-vfxln, bedded chalk

3250



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

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

Lime, crm-lt brn, fn-vfxln

Shale, black carbonaceous, blocky

Lime, crm-tan, mostly fn-micro xln, few chips with dead oil staining, NFO, no odor

Lime, crm-tan, fn-micro xln

Lime, crm-tan, fn-micro xln

Lime, crm, fn-micro xln, bedded chalk

Lime, crm-tan, fn-micro xln, bedded chalk

Lime, crm-tan, fn-vfxln

Lime, crm-tan, fn-micro xln

Lime, crm-tan, fn-vfxln

Lime, crm-lt brn, fn-micro xln
BKC SPL TOP 3375-1489
 Shale, red-reddish brn, soft blocky

Lime, crm, fn-vfxln, chalky in part

Shale, red wash, soft mud

REWORKED ARBUCKLE SPL TOP 3404-1518
 Dolomite, med brn, hard on crush, no visible porosity or odor

Dolomite-reworked, vary colored cherts and lt red wash,
ARBUCKLE SPL TOP 3420-1534
 Dolomite, lt brn, NS, fnxln-granular
RTD 3425-1539

1st plug @ 3400' w/ 50 sxs
 2nd plug @ 1000' w/ 50 sxs
 3rd plug @ 400' w/ 50 sxs
 4th plug @ 275' w/ 50 sxs
 5th plug @ 40' w/ 10 sxs
 Rathole w/ 30 sxs
 Mousehole w/ 15 sxs

Ordered 285 sxs 60/40 4%gel
 with 1/4# flocele per sack

GLOBAL OIL FIELD SERVICES, LLC

2847

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>3-15-17</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Wan Little</u>	WELL #. <u>1</u>	LOCATION <u>Walker US 6 1/2 S</u>			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)			<u>1 W 1/2 N Winto</u>				

CONTRACTOR Southwind #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 224

CASING SIZE 8 5/8 DEPTH 212

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20ft

PERFS

DISPLACEMENT 12 3/4 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Heath

409 HELPER Cody

BULK TRUCK

378 DRIVER Kris

BULK TRUCK

DRIVER

OWNER

CEMENT

AMOUNT ORDERED 150sx com 3% CC

2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Ran 5 hrs of 8 5/8 casing and landing 1st
est circulation with mud pump
Hook up and mix 150sx - disp 12 3/4 bbl
at H20 - shut in @ 300 psi.
Cement did circulate to surface

CHARGE TO: TDI

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

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 LARRY BEAVERS

SIGNATURE Larry Beavers

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

2890

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT:
Russell, KS

DATE 3-20-17	SEC. 28	TWP. 14S	RANGE 16W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 2:00 PM
LEASE Vonlintel	WELL#. 1	LOCATION WALKER, KS			COUNTY ELLIS	STATE KS	
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR SOUTHWIND DRILLING RIG# 1
 TYPE OF JOB DRY HOLE PLUG
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH
 TOOL DEPTH
 PRES. MAX. MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS
 DISPLACEMENT

OWNER
 CEMENT AMOUNT ORDERED 285 SX 60/40 4 1/2 GFC
1/4# FLOSFAL
 COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
 HANDLING @
 MILEAGE @
 TOTAL

EQUIPMENT

PUMP TRUCK CEMENTER BRAD
 # 417 HELPER JASON
 BULK TRUCK
 # DRIVER TOM
 BULK TRUCK
 # DRIVER

REMARKS:

1ST - 3400' - 50 SX
2ND - 1,000' - 50 SX
3RD - 400' - 80 SX
4TH - 275' - 50 SX
5TH - 40' - 10 SX
RAT - 30 SX
MOUSE - 15 SX

CHARGE TO: TDI
 STREET
 CITY STATE ZIP

SERVICE

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

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 Wanda Beaman
 SIGNATURE [Signature]

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