

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 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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QUALITY OILWELL CEMENTING, INC.

Phone 785-483-1071
785-324-1041

Federal Tax I.D.# 20-2885107
Home Office P.O. Box 32 Russell, KS 67665

No. 2904

Date	6-27-22	Sec.	5	Twp.	18	Range	10	County	Rice	State	Ks	On Location	Clafin: 4E to 3rd Rd, 100 yds	Finish	5:00 pm
Lease	Habiger		Well No.	3		Owner: S & W into									
Contractor	Discovery #2														
Type Job	Surface														
Hole Size	12 1/4"														
Csg.	8 5/8"														
Tbg. Size															
Tool															
Cement Left in Csg.	20'		Shoe Joint	20'		Cement Amount Ordered 180 80/20 39/100 20/60									
Meas Line			Displace	23 1/2 BLS											

EQUIPMENT		
Pumptrk	16	No. Cementator Helper Jordan
Bulktrk	9	No. Driver Tim
Bulktrk	P.W.	No. Driver Rick

Common	145
Poz. Mix	35
Gel	3
Calcium	7
Hulls	
Salt	
Flowseal	
Kof-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	190
Mileage	

Remarks: Cement did Circulate

- Rat Hole
- Mouse Hole
- Centralizers
- Baskets
- DW or Port Collar

FLOAT EQUIPMENT

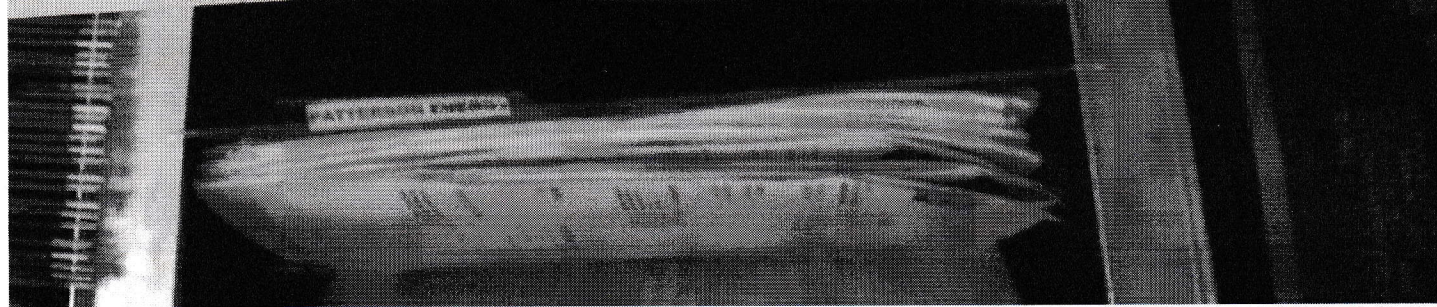
- Guide Shoe
- Centralizer
- Baskets
- AFU Inserts
- Float Shoe
- Latch Down

Pumptrk Charge Surface
Mileage 31

Thanks

Tax	
Discount	
Total Charge	

X Signature



QUALITY OILWELL CEMENTING, INC.

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

Federal Tax I.D. #20-2885107
Home Office P.O. Box 32 Russell, KS 67665

No. 2910

Date 7-1-92 Sec 5 Twp 18 Range 20 County Rice State Ks On Location 9:30 AM

Lease Habiger Well No. 3 Location Wafin - East to 3rd Rd

Type Job Discovery Charge To Patterson Energy

Hole Size 5 1/2" 15.50 T.D. 3315' Depth 3014'

Tool Cement Left in Csg 34.90' Shoe Joint 34.90'

Meas Line Displace 78 BLS Common 175

EQUIPMENT
Pumptrk 18 No. Jordan
Bulktrk 9 No. Clayton
Bulktrk p.u. No. Rick

JOB SERVICES & REMARKS

Remarks: Rat Hole 30 sx Mouse Hole 20 sx

Centralizers 1, 4, 7, 10, 13

Baskets 1

D/V or Port Collar pipe on bottom break

Circulation pump 500 gal mud Clear

plug Rat + mouseholes

5 1/2" Casing + mix 125 sx Cement

Shut in wash pump + lines

mix plug + Displace w/ 28 BLS

at hole, float held.

Lift pressure 700

Land plane to 1500' ±

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 175 Cement 2% Salt 5% Gelsolite

500 gal mud Clear 48

Common 175

Poz. Mix

Get

Calcium

Hulls

Salt 14

Flowseal

Kol-Seal 750 #

Mud CLR 48 500 gal

CFL-117 or CD110 CA#38

Sand

Handling

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer 5

Baskets 1

AFU Inserts

Float Shoe

Winch Down 1

Pumptrk Charge prod string

Mileage 31

Tax
Discount
Total Charge

X [Signature]
Signature




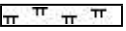
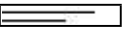
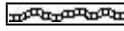




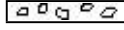


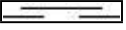




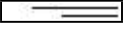

THANKS

Comments

The Habiger #3 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Travis Schmidt).

Drill time was recorded, and rock samples were collected and evaluated from 2,750'-3,315'. There were several zones in the Lansing-Kansas City that exhibited good porosity development with oil stain/show (see below). Fair-good porosity development and good oil shows were encountered in the Arbuckle. Structurally, the Arbuckle top was picked 10' high to the comparison well, located 50' north, Habiger #2 (1938-68, Transwestern Oil Co.). After comprehensive evaluation of all oil shows, electric logs, and structural position, it was decided that 5-1/2" production casing be set to further evaluate the Habiger #3 on July 1, 2022.

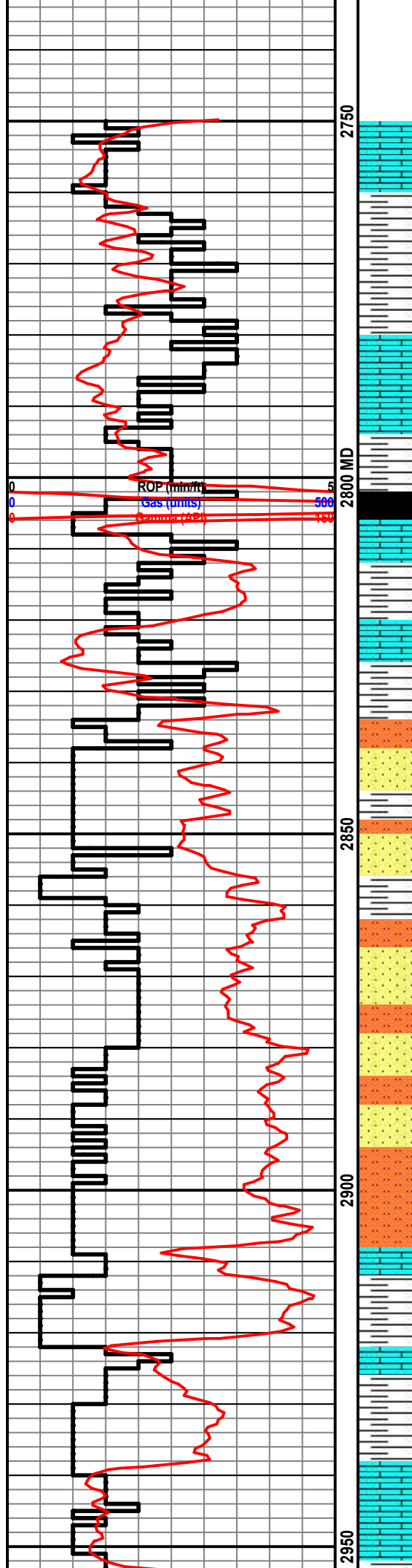
ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

OTHER SYMBOLS

POROSITY	<input checked="" type="checkbox"/> Vuggy	ROUNDING	<input type="checkbox"/> Spotted	EVENT
<input type="checkbox"/> Earthy	SORTING	<input type="checkbox"/> Rounded	<input type="checkbox"/> Ques	<input type="checkbox"/> Rft
<input type="checkbox"/> Fenest		<input type="checkbox"/> Subrnd	<input type="checkbox"/> Dead	<input type="checkbox"/> Sidewall
<input type="checkbox"/> Fracture		<input type="checkbox"/> Subang	INTERVAL	<input type="checkbox"/> Core
<input type="checkbox"/> Inter		<input type="checkbox"/> Angular		<input type="checkbox"/> Dst
<input type="checkbox"/> Moldic	<input type="checkbox"/> Well	OIL SHOW		
<input type="checkbox"/> Organic	<input type="checkbox"/> Moderate	<input type="checkbox"/> Even		
<input type="checkbox"/> Pinpoint	<input type="checkbox"/> Poor			

Curve Track 1	MD	Lithology	Geological Descriptions	DST/Mud/Survey																								
ROP (min/ft) —— Gas (units) - - - - Gamma (API) ——																												
0 ROP (min/ft) 5 0 Gas (units) 500 0 Gamma (API) 150	26		<p><i>The open-hole logging was performed by Mr. Gus Pfanestiel with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density Neutron, Dual Induction, and Microresistivity.</i></p> <p><i>Formation tops and datums from the open-hole logs include the following:</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Formation</th> <th>E-Log</th> <th>Datum</th> </tr> </thead> <tbody> <tr><td>Heebner</td><td>2802</td><td>-1018</td></tr> <tr><td>Toronto</td><td>2822</td><td>-1038</td></tr> <tr><td>Brown Lime</td><td>2922</td><td>-1138</td></tr> <tr><td>Lansing</td><td>2939</td><td>-1155</td></tr> <tr><td>B/KC</td><td>3200</td><td>-1416</td></tr> <tr><td>Arbuckle</td><td>3226</td><td>-1442</td></tr> <tr><td>LTD</td><td>3315</td><td>-1531</td></tr> </tbody> </table>	Formation	E-Log	Datum	Heebner	2802	-1018	Toronto	2822	-1038	Brown Lime	2922	-1138	Lansing	2939	-1155	B/KC	3200	-1416	Arbuckle	3226	-1442	LTD	3315	-1531	<p>Mud Engineer: Brandon Mendez</p>
Formation	E-Log	Datum																										
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Arbuckle	3226	-1442																										
LTD	3315	-1531																										
06/24/2022 MIRT																												
6/27/2022 Spud @ 7:45am																												
06/28/2022 1,022', drilling																												
06/29/2022 2,355', drilling																												
06/30/2022 3,148', drilling																												
7/1/2022 3,315', running 5-1/2" casing																												
	2700																											



Ls: tan-gry, fn-sub xln, DNS, scat chert-off wh, scat sh: drk gry

Heebner 2802' (-1018)

Sh: blk, carb

Toronto 2822' (-1038)

Ls: off wh-gry, fn-sub xln, mostly DNS, scat chalk

Sh: lt gry

Ss: lt gry, vry fn gm, md, fair int gm porosity, friable, scat sh: lt gry

Ss: ala

Ss: lt gry, fn gm, md, scat fair int gm porosity, friable, scat sh: lt-drk gry

Sltst: ala, scat sh: lt gry

Sltst: ala

Sh: lt-drk gry

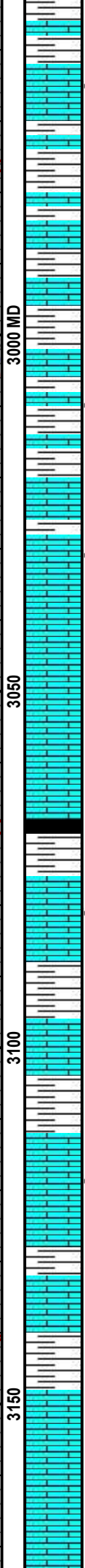
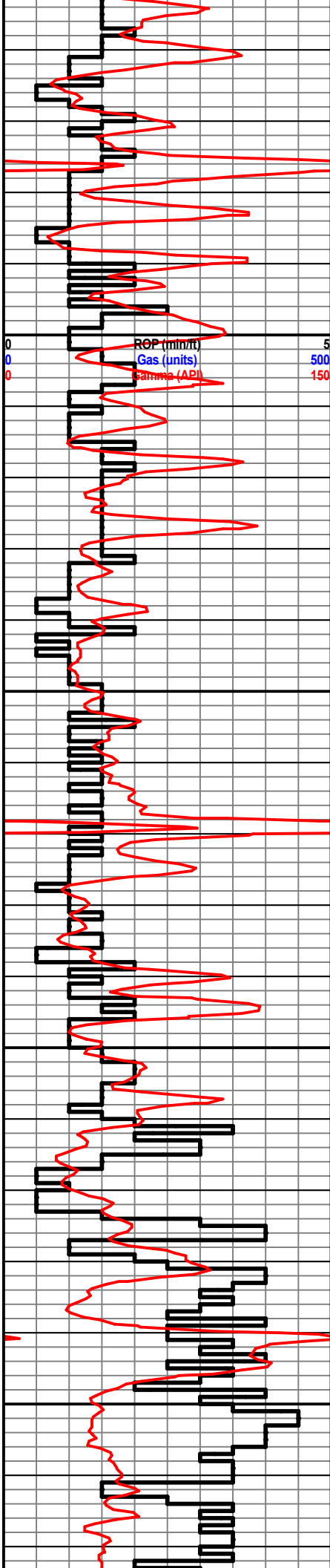
Brown Lime 2923' (-1139)

Ls: tan-bm, fn xln, poor int xln porosity, scat chert

Lansing 2939' (-1155)

Ls: tan-gry, fn-sub xln, poor vis. porosity, scat chalk, NSFO, scat chert

Ls: off wh-tan, fn xln, poor int part porosity, NSFO, scat chalk



Sh: lt gry

Ls: off wh-tan, fn xln, ool, scat fair oom porosity, sl-fair oil stn in porosity, VSSF0, fnt odor, scat foss

Sh: lt-drk gry

Ls: off wh-tan, fn xln, ool, poor-fair oom porosity, poor int xln porosity, NSFO, scat chert

Sh: drk gry

Ls: off wh-tan, fn xln, poor int part porosity, NSFO

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, fair drk bm stn, VSSF0, fair odor, scat foss

Sh: lt-drk gry

Ls: off wh-tan, fn xln, ool, good oom porosity, scat fair drk bm oil stn, VSSF0, sl odor

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, barren, scat chert-off wh

Ls: off wh-tan, fn-sub xln, mostly DNS, scat chert-off wh

Sh: lt-drk-blk

Ls: off wh-tan-lt gry, fn xln, ool, scat foss, fair int foss porosity, scat oil stn, VSSF0, fnt odor

Sh: lt-drk gry

Ls: off wh-tan-lt gry, fn xln, scat foss, no visible porosity, NSFO

Sh: lt gry

Ls: off wh-tan, fn xln, ool, good oom porosity, scat foss, fair int foss porosity, fair oil stn, S-FSFO, weak odor

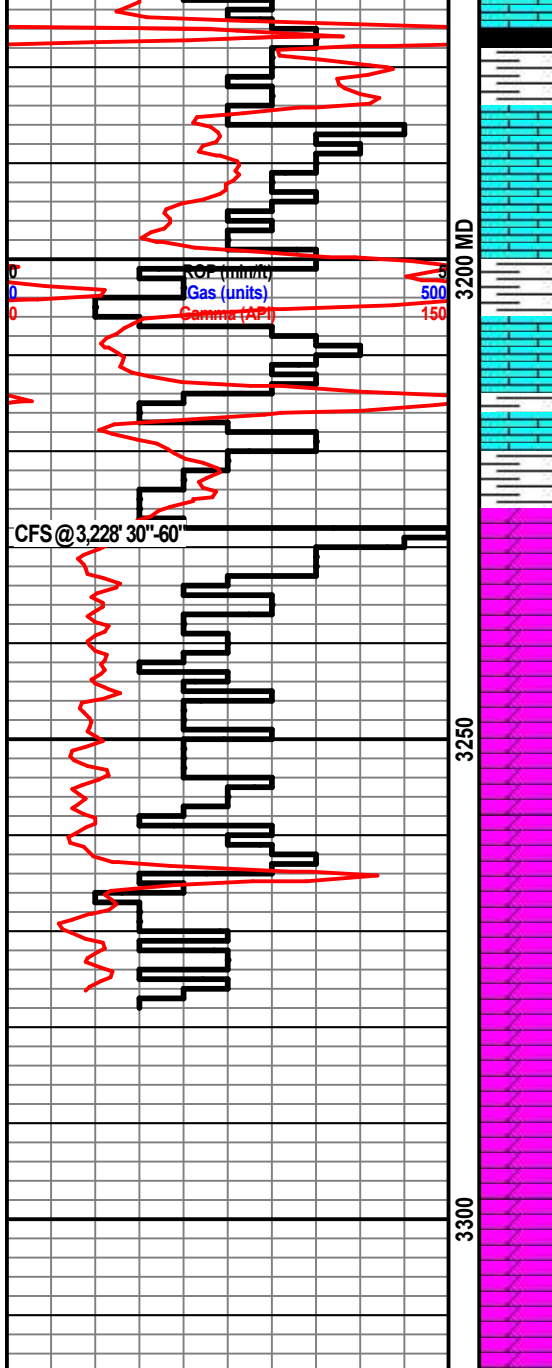
Sh: lt-drk gry

Ls: off wh-tan-lt gry, fn-sub xln, mostly DNS

Sh: lt-drk gry

Ls: off wh-tan-lt gry, fn xln, foss, poor int xln porosity, NSFO

Ls: ala



Sh: drk gry-blk

Ls: off wh-tan, fn-sub xln, mostly DNS, NSFO

B/KC 3203' (-1419)

Sh: lt gry

Sh: gry-gm

Sh: lt-drk gry-bm

Arbuckle 3234' (-1450)

Dolo: off wh-tan, fn-md sucrosic xln, poor int xln porosity, mostly tite, scat lt bm oil stn, SSFO, sl odor

Dolo: off wh-tan-bm, fn-md sucrosic xln, good sucrosic xln porosity, lt-fair oil stn, SSFO, fair odor

Dolo: off wh-tan-bm, fn-md xln, good int xln porosity, scat lt bm oil stn, FSFO in cup, sl-fair odor, scat chert

Dolo: off wh-tan, md-crs xln, rhom, good int xln porosity, fair oil sat, SSFO, fair-good odor

Dolo: off wh-tan, fn-md xln, poor int xln porosity, mostly barren, scat chert-off wh

Dolo: off wh-lt gry, md-crs xln, fair-good int xln porosity, barren, scat chert-off wh

Dolo: ala

Dolo: off wh-tan, fn-crs xln, poor-scat fair int xln porosity, barren, chert-off wh

Wt: 9.1
Vis: 48

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D. # 20-2886107

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

No. 2910

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

Date 7-1-88 Loc 5 Trw 18 Range X2 County Rice State Ks On Location 9-30 Ave

Client Habiger Well No. 3 Location Val 1.0 - East to 3rd Patten Owner South + Hen w/into

Job Discovery Type Job Completion Charge To Patterson Energy

Hole Size 5 1/2" 15.50 T.D. 3315' Cement Amount Ordered 175 Combo 2% Salt 5% Gelcrete

Cap. 5 1/2" 15.50 Depth 3014' City _____ State _____

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 34.90' Shoe Joint 34.90' Cement Amount Ordered 175 Combo 2% Salt 5% Gelcrete

Meas Line _____ Displace 78 BLS Common 175

EQUIPMENT

Pumptrk 18 No. _____ Cement Helper Jordan Poz. Mix _____

Bulktrk 9 No. _____ Driver Clayton Get _____

Bulktrk PKU No. _____ Driver RICK Calcium _____

JOB SERVICES & REMARKS

Remarks: _____ Hulls _____

Rat Hole 30 SX Flowseal _____ Salt 14

Mouse Hole 20 SX Kol-Seal 750 #

Centralizers 1, 4, 7, 10, 13 Mud CLR 48 500 gal

Baskets 1 CFL-117 or CD110 CAF/38

D/V or Port Collar _____ Sand _____

Circulation pump 500 gal mud Clear Handling _____

plus Rat + mouseholes Hole to Mileage _____

5 1/2" Casing + mix 125 SX Cement **FLOAT EQUIPMENT**

Shut in and wash pump + lines Guide Shoe _____

Discharge w/ 28 BLS Centralizer 5

at hole. Float held. Baskets 1

Lift pressure 700 AFU Inserts _____

Land plane to 1500 # Float Shoe _____

_____ Catch Down 1

_____ Pumptrk Charge _____

_____ Mileage 31 proel string

_____ Tax _____

_____ Discount _____

_____ Total Charge _____

X Signature

[Handwritten Signature]

THANKS