

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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 694

Date	4-16-18	Sec.	5	Twp.	14	Range	17	County	Ellis	State	Ks	On Location	Finish	4:45 PM
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Lease **Dinkle East** Well No. **5** Location **Toulon #I-70-5 to Victoria Rd,**

Owner **KE, Synto**

Contractor **W W #8**
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**
Charge To **Production Drilling**

Hole Size **12 1/4"** T.D. **215'**
Csg. **8 5/8"** Depth **215'** Street

Tbg. Size Depth City State

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

Cement Left in Csg. **15'** Shoe Joint **15'** Cement Amount Ordered **150 80/20 3%u 2%Gel**

Meas Line Displace **12 3/4 BLS**

EQUIPMENT

Pumptrk	17	No.	Cementer	Travis	Common	120
			Helper		Poz. Mix	30
Bulktrk	15	No.	Driver	David	Gel.	3
			Driver		Calcium	6
Bulktrk	p.u.	No.	Driver	Rick		
			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 159
		Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge **Surface**
Mileage **15 (min)**

X Signature **[Signature]**

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 698

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-21-18	5	14	17	Ellis	Ks		7:30 AM

Location *Toulon + I-70 - S to Victoria Rd*

Lease	Well No.	Owner	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.
<i>Dinkle east</i>	<i>#5</i>	<i>1/2 E, S into</i>	
Contractor			Charge To <i>Production Drilling</i>
<i>Ww #8</i>			
Type Job	T.D.	Street	
<i>Bottom stage</i>	<i>3625'</i>		
Hole Size	Depth	City	State
<i>7 7/8"</i>	<i>3625'</i>		
Csg. <i>5 1/2" New 15.50'</i>	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
	<i>1240' #58</i>		
Tbg. Size	Shoe Joint	Cement Amount Ordered <i>Com 10% Salt 5/16" with</i>	
	<i>24.50'</i>		
Tool <i>DV Tool</i>	Displace	<i>8 5/2 BLS 500 gal mud Clear #8 20 20 Ber. KCL</i>	
	<i>22 1/2 mud</i>		
Cement Left in Csg. <i>24.50'</i>	Common		
	Poz. Mix		
Meas Line	Gel.		
<i>63 water</i>	Calcium		

EQUIPMENT			
Pumptrk	No.	Cement Helper	
<i>20</i>		<i>Travis</i>	
Bulktrk	No.	Driver	
<i>3</i>		<i>Doug</i>	
Bulktrk	No.	Driver	
<i>p.u.</i>		<i>Rick</i>	

JOB SERVICES & REMARKS	
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers <i>13, 5, 7, 9, 11, 70, 57</i>	Kol-Seal
Baskets <i>11, 70, 58</i>	Mud CLR 48
D/V or Port Collar <i>1240' #58</i>	CFL-117 or CD110 CAF 38
<i>pipe on bottom, break Circulation</i>	Sand
<i>pump 500 gal mud clear 48, run 110 BLS KCL, mix 110' 5'</i>	Handling
<i>Cement shut down wash pump and lines Displace plug w/ 8 5/2</i>	Mileage
<i>Released + held Dropped Down</i>	

FLOAT EQUIPMENT	
Guide Shoe	<i>DV Tool w/ latch down</i>
Centralizer	<i>8</i>
Baskets	<i>3</i>
AFU Inserts	
Float Shoe	<i>1</i>
Latch Down	<i>Rotating head</i>
Pumptrk Charge	
Mileage	

X Signature <i>W. L.</i>	Tax
	Discount
	Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 899

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-21-18	5	14	17	Ellis	Ks		10:15 AM

Location *Toulon + I-70 - S to Victoria Rd, 1/2 E*

Lease	<i>Dinkle east</i>	Well No.	<i>#5</i>	Owner	<i>S/Into</i>
Contractor	<i>W W #8</i>	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	<i>Top Stage</i>	Charge To <i>Production Drilling</i>			
Hole Size	<i>7 7/8"</i>	T.D.	<i>3625'</i>		
Csg.	<i>5 1/2" New 15.50#</i>	Depth	<i>3625'</i>	Street	
Tbg. Size		Depth		City State	
Tool	<i>D V Tool</i>	Depth	<i>1240' #58</i>	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	<i>24.50'</i>	Shoe Joint	<i>24.50'</i>	Cement Amount Ordered <i>250 QMDC 1/4# Flow Seal</i>	
Meas Line		Displace	<i>29 1/2 BLS</i>		

EQUIPMENT

Pumptrk	<i>20</i>	No.	Cement Helper	<i>Travis</i>	Common
Bulktrk	<i>13</i>	No.	Driver	<i>Doug</i>	Poz. Mix
Bulktrk	<i>P.U.</i>	No.	Driver	<i>Rick</i>	Gel.
			Driver		Calcium

JOB SERVICES & REMARKS

Remarks:		Hulls
Rat Hole	<i>305v</i>	Salt
Mouse Hole		Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
<input checked="" type="checkbox"/> DV or Port Collar	<i>1240' #58</i>	CFL-117 or CD110 CAF 38
<i>pipe on bottom break circulation</i>		Sand
<i>pump 305v in bath tub pump 250</i>		Handling
<i>comm 140 down 5 1/2" Deep plug</i>		Mileage

FLOAT EQUIPMENT

<i>+ Displaced with 29 1/2 BLS H2O</i>		Guide Shoe
<i>Closest tool w/ 1500 #</i>		Centralizer
<i>Release + hold</i>		Baskets
<i>lift pressure 700#</i>		AFU Inserts
<i>Cement did circulate</i>		Float Shoe
		Latch Down

	Pumptrk Charge	
	Mileage	
		Tax
		Discount
		Total Charge

X Signature *Nick Cal*

AUSTIN B. KLAUS

Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Dinkel East #5
Location: Ellis County
License Number: API #15-051-26909-00-00
Spud Date: 4/16/2018
Surface Coordinates: Section 5, Township 14 South, Range 17 West
330' FNL & 2,310' FEL
Bottom Hole Coordinates: Vertical well w/ minimal deviation, same as above
Ground Elevation (ft): 2,027
Logged Interval (ft): 2,900
Formation: LKC
Type of Drilling Fluid: Chemical (KDT)

Region: Kansas
Drilling Completed: 4/20/2018
K.B. Elevation (ft): 2,032
Total Depth (ft): 3,629
To: 3,629

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Production Drilling, Inc.
Address: 1023 Reservation Road
Hays, KS 67601

GEOLOGIST

Name: Austin Klaus
Company: John O. Farmer, Inc.
Address: 370 W. Wichita Ave.
Russell, KS 67665

Comments

The Dinkel East #5 well was drilled by WW Drilling Rig #8 (Tool Pusher: Scot Piland).

The Dinkel East #5 was drilled as a direct offset to the Dinkel East #1 (Weilert Enterprises; 1981-2010). Rock samples were gathered and evaluated from 3,000'-3,625'. Oil shows were encountered in the LKC A,C,D,E/F,H,I,J,K. Structurally, the Lansing top was picked 2' low to the comparison well, 60' to the northwest (Dinkel East #1). Thickening occurred throughout the LKC, which resulted in a B/KC picked 6' low to the offset well. The Arbuckle was absent from this wellbore. After evaluation of all oil shows, and electric logs, it was decided that 5 1/2" production casing be set to further evaluate the Dinkel East #5 on 4/21/2018.

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht

- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta

- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Slstst
- Ss
- Till

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

- Vuggy
- SORTING**
- Well
 - Moderate
 - Poor

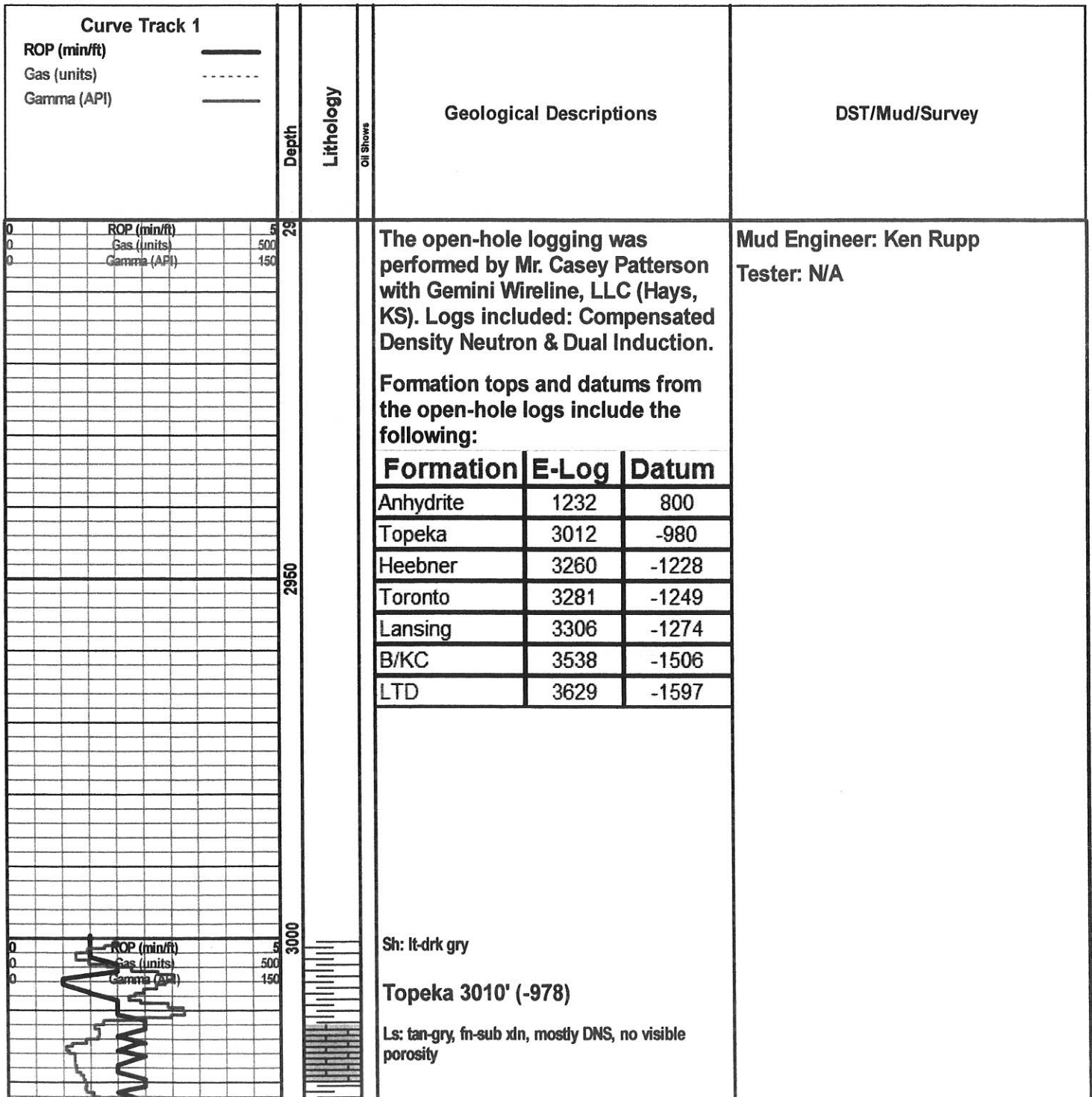
- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

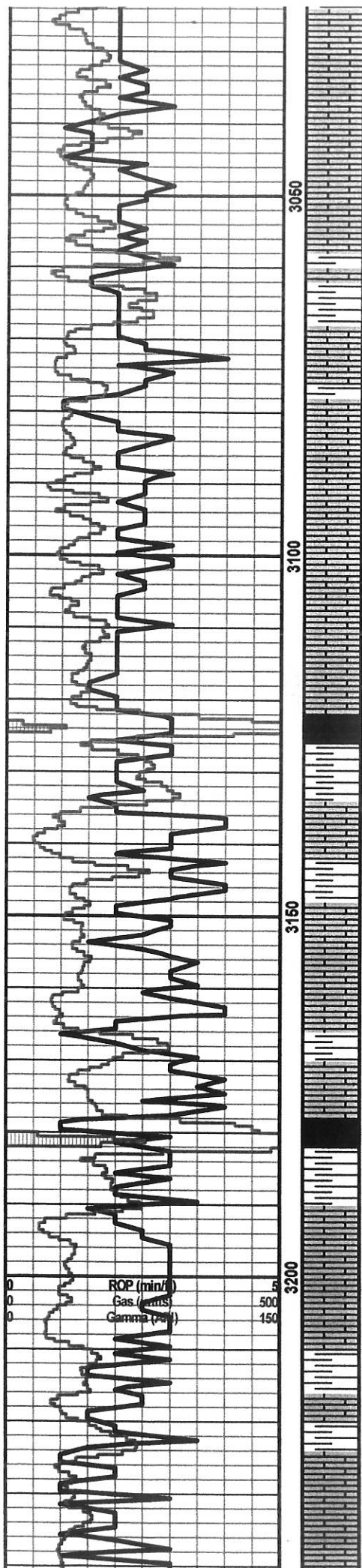
- Spotted
- Ques
- Dead

- EVENT**
- Rft
 - Sidewall

- INTERVAL**
- Core
 - Dst

- OIL SHOW**
- Even





Ls: ala

Ls: tan-gry, fn xln, poor-fair int xln & scat vuggy porosity, scat oil stn, VSSFO, vry fnt odor

Ls: tan-lt gry, fn-sub xln, no visible porosity, scat foss

Sh: lt-drk gry

Ls: tan-gry, fn-sub xln, mostly DNS, NSFO, scat foss

Ls: tan-gry, fn xln, scat foss, poor int xln porosity, NSFO, scat chalk

Ls: ala

Sh: drk gry, scat blk

Sh: lt-drk gry

Ls: tan-gry, fn-sub xln, mostly DNS, NSFO

Ls: off wh-tan-lt gry, fn xln, poor-fair int xln porosity, scat dead oil stn, NSFO, no odor, scat chalk

Sh: drk gry

Queenhill 3177' (-1145)

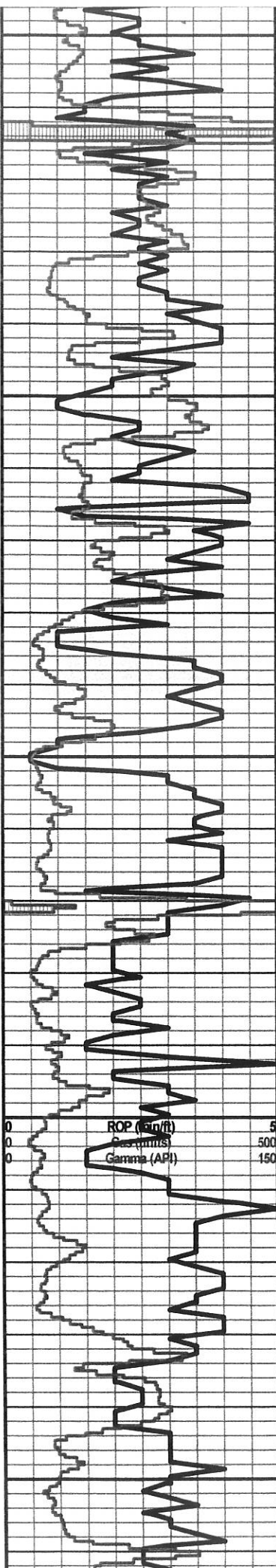
Sh: drk gry-blk

Ls: off wh-tan-lt gry, fn xln, scat foss, poor int xln & foss porosity, sl oil stn, NSFO, fnt odor, scat chalk

Ls: tan-gry, fn-sub xln, mostly DNS, NSFO

Sh: drk gry

Ls: off wh-tan, fn xln, poor-fair int xln porosity, fair oil stn in porosity, VSSFO, sl odor, chalky



3250
3300
3350
3400
3450

Heebner 3258' (-1226)

Sh: drk gry-blk, carb, fissile

Sh: lt-drk gry

Toronto 3278' (-1246)

Ls: tan-gry, fn xln, fair int xln & vuggy porosity, dead oil stn, VSSFO, fnt odor

Sh: lt-drk gry

Lansing 3304' (-1272)

Ls: off wh-tan, fn xln, poor int xln & scat vuggy porosity, scat oil stn, VSSFO, fnt odor

Sh: lt gry

Ls: off wh-tan, fn-sub xln, no visible porosity, NSFO

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, good oil sat, S-FSFO, fair-good odor

Sh: lt gry

Ls: off wh-tan, fn xln, ool, foss, fair-good oom & int foss porosity, good oil sat, FSFO, fair-good odor, scat chert

Ls: off wh-tan, fn xln, no visible porosity, NSFO

Sh: drk gry-blk

Ls: off wh-tan, fn xln, foss, poor-fair int xln & scat int foss porosity, scat oil stn, SSFO, sl-fair odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, mostly barren, NSFO

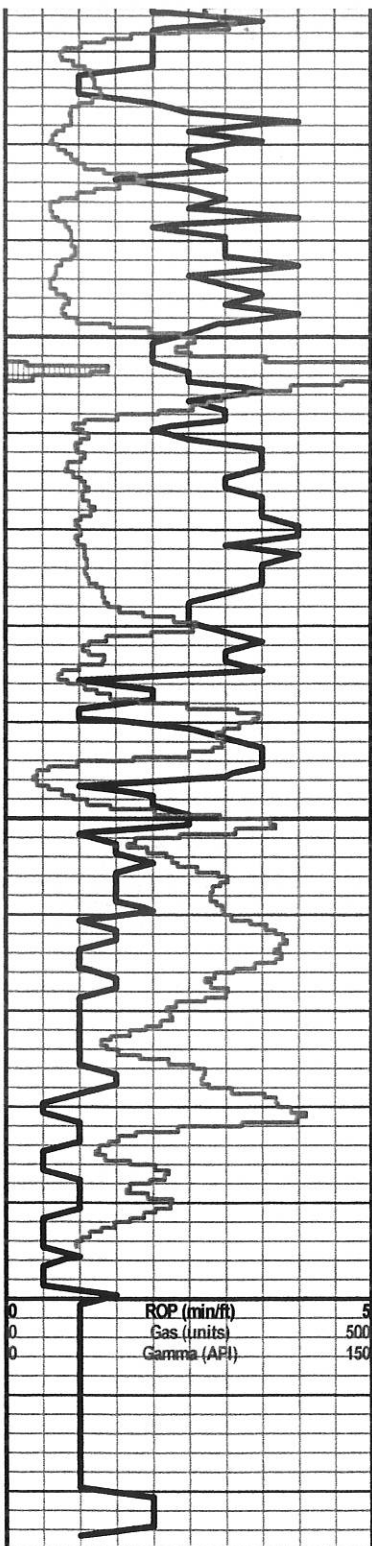
Ls: off wh-tan, fn-sub xln, mostly DNS, no visible porosity, NSFO, scat chert-off wh

Sh: drk gry-blk

Sh: lt-drk gry

Ls: off wh-tan, fn xln, foss, scat int xln porosity, scat oil stn, VSSFO, sl-fair odor, scat chert-off wh

Sh: drk gry



3500

3550

3600

ROP (min/ft)
Gas (units)
Gamma (API)

5
500
150



⊙ Ls: off wh-tan, fn xln, fair int xln & scat vuggy porosity, fair-good oil stn, SSFO, fair odor, scat chert-off wh, sl chally

⊙ Ls: off wh-tan, fn xln, poor int xln porosity, sl oil stn, VSSFO, sl odor

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

Sh: drk gry-blk

⊙ Ls: off wh-tan, fn xln, foss, poor int xln and scat int foss porosity, sl-fair oil stn, VSSFO, sl-fair odor

Ls: tan-gry, fn-sub xln, mostly DNS, NSFO

Sh: drk gry-blk

B/KC 3535' (-1503)

Sh: lt-drk gry, scat red

Ls: tan-gry, fn-sub xln, mostly DNS, scat sh: drk red

Sh: drk gry-red, soft

Sh: ala

Sh: drk gry-red, soft, scat congl: off wh, DNS, NSFO

Sh: ala

Sh: drk gry-red, soft, scat chert-off wh

Sh: ala

Sh: drk gry-brn, red, soft, scat congl: lt gry, DNS