

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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 5-483-1071
Cell 785-324-1041

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

No. 3795

WOC file

Date	10-7-23	Sec.	3	Twp.	14	Range	17	County	Ellis	State	Ks	On Location	Finish	9:00pm
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Location TOWSON IN 3E

Lease	<u>BRAUN</u>	Well No.	<u>4</u>	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.
Contractor	<u>Southwind</u>				Charge To <u>BEREYCO LLC</u>
Type Job	<u>SURFACE</u>				
Hole Size	<u>12 1/4</u>	T.D.	<u>321</u>		
Csg.	<u>8-8</u>	Depth		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.	<u>15</u>	Shoe Joint	<u>BE</u>	Cement Amount Ordered <u>3000 Com 3% CC 2% Gcl</u>	
Meas Line		Displace	<u>19.4</u>		

EQUIPMENT

Pumptrk	<u>16</u>	No.	Cementer	<u>Bill</u>	Common	<u>300</u>
			Helper		Poz. Mix	
Bulktrk		No.	Driver	<u>JORDAN</u>	Gel.	<u>6</u>
			Driver		Calcium	<u>11</u>
Bulktrk		No.	Driver	<u>CORY</u>	Hulls	
			Driver		Salt	

JOB SERVICES & REMARKS

Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
<u>SURFACE set @ 320</u>		Handling <u>317</u>
<u>Cent w/ 3000BV</u>		Mileage
<u>Displace 19.4 bbls</u>		FLOAT EQUIPMENT
<u>Cent Did Circ.</u>		Guide Shoe
		Centralizer
		Baskets
		AFU Inserts
		Float Shoe
		Latch Down

Pumptrk Charge Surface
Mileage 15

X Signature

Doug Roberts

Thanks

Tax
Discount
Total Charge

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. **3955**

10-13-23

Date	10-12-23	Sec.	3	Twp.	14	Range	17	County	Ellis	State	KS	On Location		Finish	1:00 AM
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Location Tobon 3E 1N

Lease	<u>BR90W</u>	Well No.	<u>4</u>	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.
Contractor	<u>Southwind</u>				Charge To <u>Berexco LLC</u>
Type Job	<u>TOP STAGE</u>				
Hole Size	<u>7 7/8</u>	T.D.			
Csg.	<u>S2</u>	Depth			
Tbg. Size		Depth			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	<u>330</u> <u>Lite 4" Flowseal</u>
Meas Line		Displace	<u>27.6</u>		
EQUIPMENT				Commor	<u>215</u>
Pumptrk	<u>17</u>	No.	<u>1311</u>	Poz. Mix	<u>115</u>
		Driver	<u>Jordan</u>	Gel.	<u>17</u>
Bulktrk		Driver		Calcium	
Bulktrk		Driver	<u>CORY DOUG</u>		

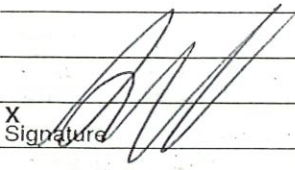
JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole	<u>30.5</u>	Salt	
Mouse Hole	<u>15.4</u>	Flowseal	<u>75</u>
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
<u>D.V. Tool e 1163 J+60</u>		Sand	
<u>open tool PSI</u>		Handling	<u>3345</u>
<u>Centur 285 dx</u>		Mileage	
<u>pump plug w 27.6 bbls</u>			
<u>Cent Did not circ</u>			

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge prod string Top stage
Mileage 15

X Signature 

Thanks

Tax	
Discount	
Total Charge	

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. **3954**

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-12-23	3	14	17	Ellis	Ks		11:45 PM
				Location <i>Towson 3E 1N</i>			

Lease	Well No.	Owner	
<i>BRAUN</i>	<i>4</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.	
Contractor		Charge To	
<i>Southwind</i>		<i>BEREXCO LLC</i>	
Type Job	T.D.		
<i>Long string</i>	<i>3625</i>		
Hole Size	Depth	Street	
<i>7 7/8</i>			
Csg.	Depth	City	
<i>5 1/2</i>		State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Tool	Depth	Cement Amount Ordered <i>1104 3/4 Lite 240 Com</i>	
Cement Left in Csg.	Shoe Joint	Cement # <i>296615 Gil. 10% Salt</i>	
<i>82</i>	<i>82</i>		
Meas Line	Displace	Common <i>310</i>	
	<i>84.29</i>		

EQUIPMENT

Pumptrk	No.	Cementer	
<i>17</i>		<i>Bill</i>	
		Helper	
		<i>JORDAN</i>	
Bulktrk	No.	Driver	
<i>3</i>		<i>Doug</i>	
		Driver	
		<i>COFF.</i>	
Bulktrk	No.	Driver	
<i>20</i>			
		Driver	

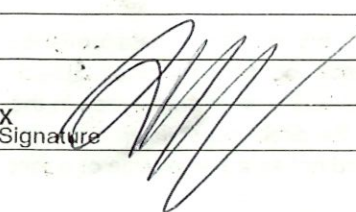
JOB SERVICES & REMARKS

Remarks:	Hulls
	Salt <i>20</i>
Rat Hole	Flowseal
Mouse Hole	Kol-Seal <i>1200 #</i>
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
<i>1163</i>	
<i>pipe set c 3624.40</i>	Handling <i>406</i>
<i>Shoe JT 82.00</i>	Mileage
<i>Insert 3542.00</i>	

FLOAT EQUIPMENT

<i>Cement 1104 Lite F/w 240 Com</i>	Guide Shoe
<i>pump plug 81.29 bbls water</i>	Centralizer <i>15</i>
<i>Land plug c 1500 IF</i>	Baskets <i>2</i>
	AFU Inserts
	Float Shoe - <i>1</i>
	Latch Down - <i>1</i>
	D.U. Tool - <i>1</i>

Pumptrk Charge *prod string Bottom Stage*
Mileage *15*

X Signature 

Thanks
6

Tax
Discount
Total Charge



BEREXCO

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

Well Name: Braun 4
API: 15-051-27102
Location: 560' FSL & 330' FEL
License Number: 34318
Spud Date: 10/7/23
Surface Coordinates: 38.858256, -99.189189

Region: Ellis County
Drilling Completed: 10/12/23

Bottom Hole Coordinates: same as surface
Ground Elevation (ft): 1989' **K.B. Elevation (ft):** 1999'
Logged Interval (ft): 2800 **To:** 3625 **Total Depth (ft):** 3625
Formation: Arbuckle
Type of Drilling Fluid: Chemical based mud

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

OPERATOR

Company: Berexco LLC
Address: 2020 N. Bramblewood
Wichita, Ks 67206

GEOLOGIST

Name: Chad Counts
Company: MG Oil Inc.
Address: P.O. Box 162
Russell, Ks 67665

Comments

Braun #4 was drilled with Southwind Rig #8 rotary tools commencing 10-7-23, and total depth was reached 10-12-23.

The well ran slightly higher compared to the Northwest offset Braun #1. Owing to the structural position and favorable shows in the Lansing B and Arbuckle, it was elected by all parties to further test the well through 5 1/2 " casing.

Respectfully submitted,

Chad Counts

10/7/23-Southwind MIRU. Spud hole and run 306' 8 5/8" 23# casing set at 318'. Quality Cementing used 300sacks common, 2% gel, 3% cc. Plug down at 9:00pm.

10/8/23 WOP




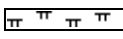
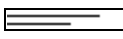
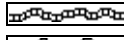




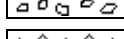




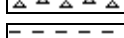


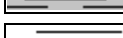




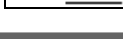
10/9/23 Drilling ahead at 1560'.

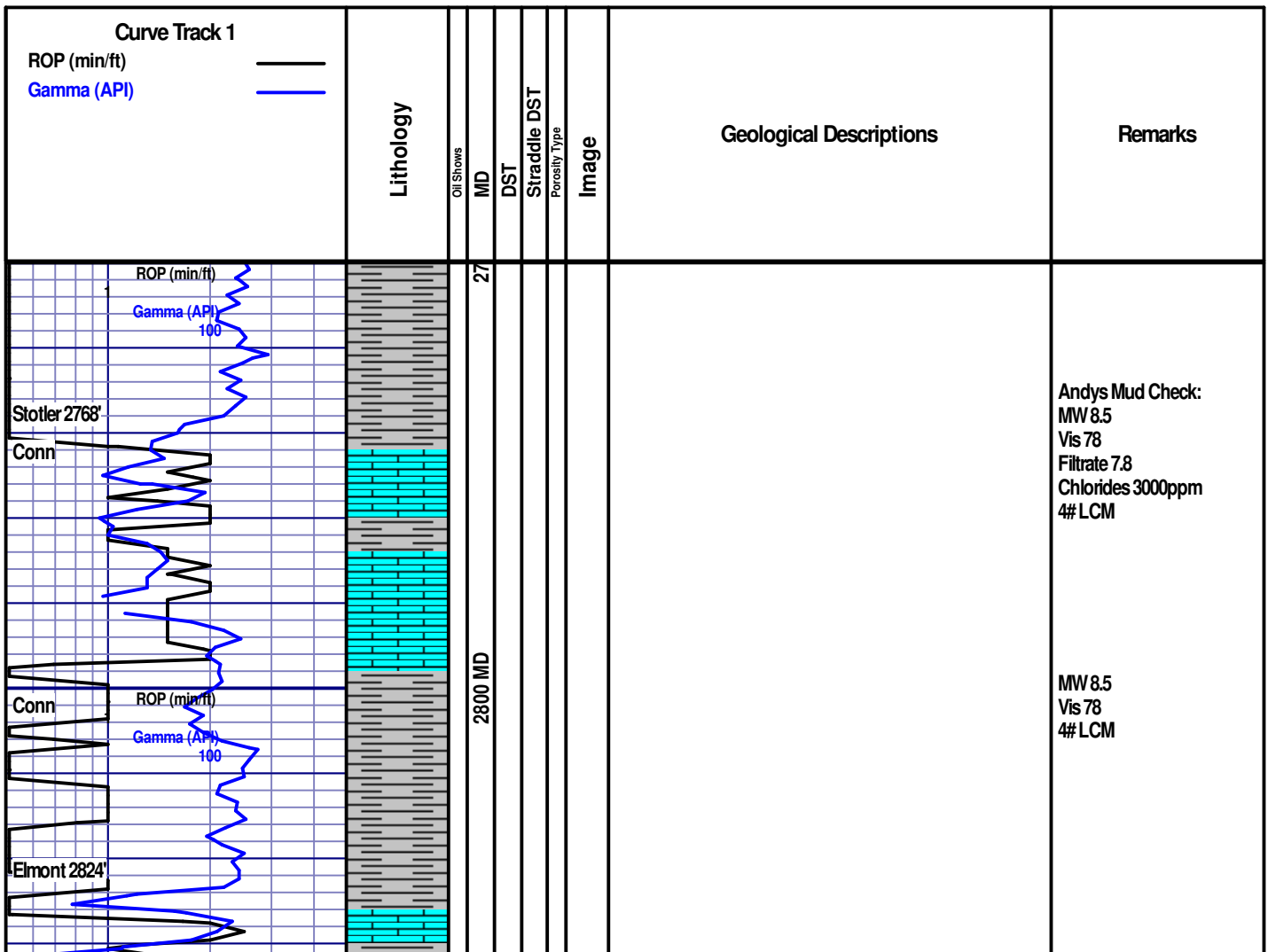
10/10/23 Drilling ahead at 2500'. Conduct mud displacement at 2750'. Start evaluating samples at 2900'

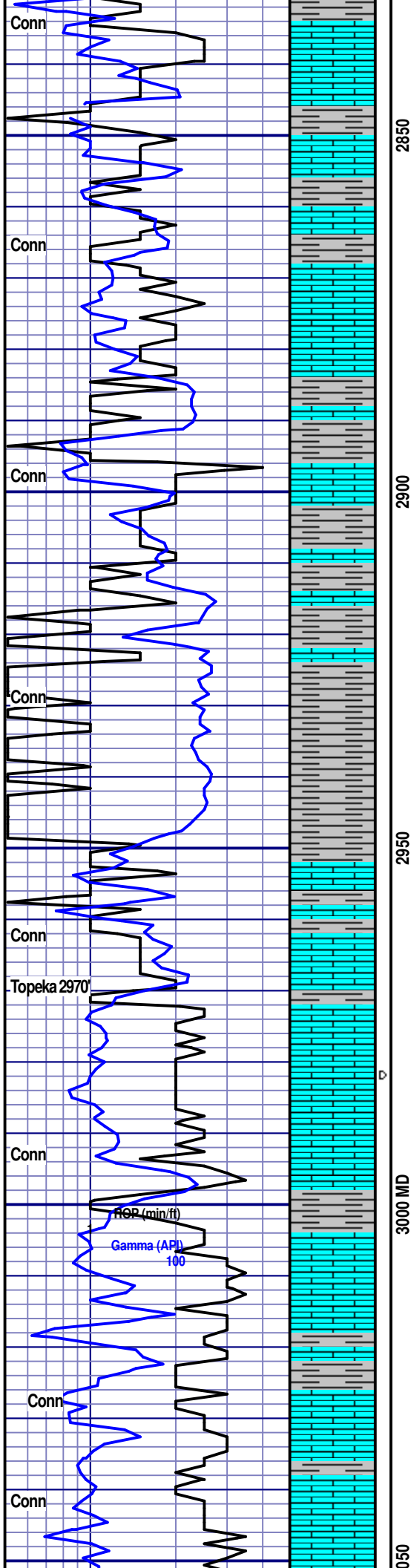
10/11/23 Drilling ahead at 3183'. Continue evaluating samples.

10/12/23 TD at 3625'. Rig up Gemini Wireline to run a full suite. Prepare to lay down and run 5 1/2" casing.

ROCK TYPES

 Anhy	 Coal	 Igne	 Mrlst	 Shgy
 Bent	 Oolitic limestone	 Dark grey shale	 Salt	 Sltst
 Brec	 Congl	 Black shale	 New symbol	 Ss
 Cht	 Dol	 Lmst	 Shale	 Till
 Clyst	 Gyp	 Meta	 Shcol	





75% Ls: lt grey, beige-bm, micro xln, dense, mod arg, abdnt scat fos frag (fusulinids), trc ool pck-stone, p std, 350-500 microns, p sec por, NSOC. 25% Sh: lt-med grey, subplaty, firm, calc.

50% Ls: beige-lt bm, micro xln, dense, mod-hvy arg, litho tex, trc scat fos frag, NSOC. 50% Sh: med grey, mod firm, subplaty, sl calc.

25% Ls: cream, lt grey-beige, micro xln, dense, no vis por, abdnt scat fos frag (fusulids, bivalves), mod arg, NSOC. 75% Sh: lt-med grey, v soft-mod firm, light gry wash, occ sl calc.

Sh: light-med grey, sub platy, mod firm, non-sl calc, non silty.

Sh: lt grey, non plty, very soft, mushy, hvy lt grey wash.

Sh: lt grey-grey, v soft, occ sub platy, non calc, trc motld org mat, hvy lt grey wash.

20% Ls: lt gry, beige, micro xln, dense, mod arg, litho tex, no vis por, trc scat fos frag, NSOC. 70% Sh: A/A

30% Ls: cream, beige, lt grey, micro xln, dense, scat foss frag, r, pp vug, sl marl, NSOC. 70% sh: lt-med grey, soft-sub platy, sl calc.

Ls: cream, lt grey, beige, micro xln, litho tex, sl marl, occ sucrosic, most litho tex, dense, no vis por, trc fos frag, NSOC.

Ls: cream, beige, micro xln, dense, litho tex, no vis inxl por, sl arg, few cuttings w/ v spty dead edge stain, no free oil or odor.

75% Ls: cream-beige, micro xln, dense, litho tex, trc fos frag, sl-mod arg. NSOC. 25% Sh: lt-med grey, soft smooth non calc, non-sub platy.

3030' Ls: cm, beige, micro xln, dense, litho tex, sl. fos frag, no vis por, NSOC. 10% sh: lt grey, subplaty, mod firm, sl calc.

Ls: cm, lt grey, micro xln, dense, hard, litho-earthy tex, sl-mod arg, scat fos frag, few fusulinids, NSOC. <5% grey shale, mod firm, subplaty.

Ls: lt gry, cm, micro xln, few w/svrl dk grey well std sphrcl clasts, 250-350 microns, no vis por, sl-mod arg, NSOC. 10% Sh: lt grey subplaty.

Ls: lt gry, cm, bm, micro xln, dnse, occ brittle w/marl, no vis por, scat fos frag, NSOC.

MW 8.8
Vis 56
4# LCM

MW 8.7
Vis 59
4# LCM

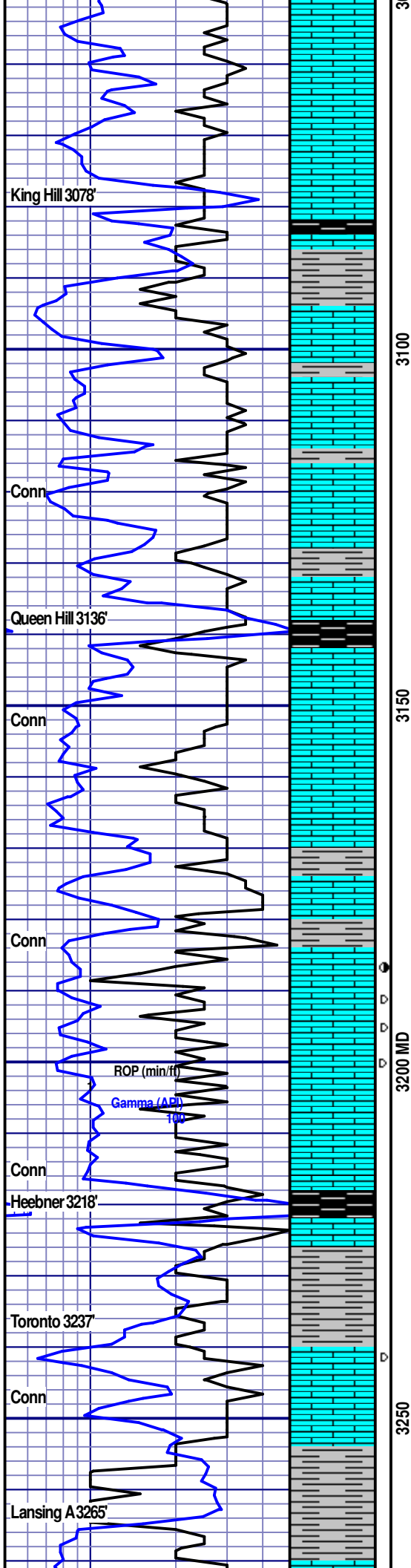
2850

2900

2950

3000 MD

3050



Ls: cream, micro xln, dense, trc fos gs (fusulinids), no vis sec por, hard, sl marl, sl cherty (dk grey w/mbdd fos), NSOC.

Ls: cream, lt grey, micro-fn xln, dense occ brittle (marl matrix), scat fos frag, sl-mod arg, NSOC. 15% sh: lt grey, subplaty-platy, calc, firm.

Ls: cm, lt grey, micro xln-fn xln, sl-mod marl, occ brtl, no vis por, scat fos frag, NSOC.

Ls: beige, bm, grey, fn xln, mod hvy arg, abd scat fos clast, occ mottled w/shale/org mat, r scat pp vug, sl marl, NSOC. 5% Black shale: firm platy, mod carb.

75% Ls: cm, beige, lt grey, micr-fn xln, earth tex, mod arg, mod hard, occ mottled org mat, NSOC. 25% Sh: grey-lt grey, sub platy, sl calc.

90% Ls: cm, beige, lt grey, micro xln, most dns, sct md fos clast, occ isltd pp vug, sl cherty (bone white), NSOC. 10% Sh: A/A

Ls: cm, beige, lt bm, micro-fn xln, occ gran/earthy tex, dense-occ brittle(sl-mod marl), no vis por, trc fos, NSOC,

Ls: cm, micro xln, dense, hard, litho tex, r scat fos, NSOC.

Ls: cream, beige, micro xln, dense, v hard, no vis por, sl marl, occ scat fusulinids, litho tex, sl cherty (dk grey). Trc black shale: firm, platy, carb.

Ls: cream, micro xln, dense, litho tex, trc granular mottled w/org mat, no vis por, NSOC. 5-10% Black sh: firm platy, carb.

Ls: cream, micro xln, dense, litho tex, trc oolitic gs, vfg (150-200microns), w std, brittle, mod marl mtrix, no vis sec por, NSOC.

Ls: lt grey, beige, fn xln, dense, occ scat fusulinids, litho-granular tex, sl marl, sl arg, no vis por, NSOC.

10% oolitic ls: cream, 250-350 microns, w std, poor sec por, occ ingl vug, p connected, mod cem, sl-mod marl NSOC. Remaining dense A/A

Ls: cream, dense, micro xln, trc oolitic ls, cream, granular tex, vf 250-350microns, scat pp vugs, trc light brown scat-even live oil stain, no free oil upon crush or cut, faint odor.

Ls: cream, micro xln, most dense, several fissures, w hvy black gils strn, few w/gils edge stain, no free oil, very faint odor.

Ls: cream, micro xln, dense, litho tex, sl cherty (lt grey), no vis inxl por, occ r pp vug, <1% scat dead gils stain, no free oil.

Ls: off white, cm, beige, micro xln, dense-mod brittle, sl-mod marl mtrix, poor-no vis por, trc fos frag, trc scat dead gils stain, no free oil, qstbl od.

20% Blk sh: firm, v plty, carb. 30% dove gry sh, sft, mushy, hvy wash. 50% Ls: lt bm, cm, fn xln, abdnt mot org, mat, trc gils strn, no free oil.

25% sh: lt gry, v sft, mushy, hvy grey wsh. 75% Ls: beige, cream, micro xln, dense, litho tex, occ scat fos frag, trc scat pp vugs, vp por. Few ctng w/trc gils stain, no free oil.

Ls: beige, cm, micro xln-fn xln, dense, hard (occ brittle w/marl mtrix), trc fos frag, NSOC. 10% Sh: lt green-grey, soft, hvy wash.

Sh: red-bm, maroon, lt grey, soft, hvy red wash. Ls: cream-off white, micro xln, dense, no vis por, trc fos frag, trc gils edge strn, NSOC.

Ls: cream, micro xln, dense, v poor inxl por, trc fos frag, sl marl, few cut wedge xln overgrowth, v spotty dk & lt edge

MW 8.9
Vis 58
2# LCM

MW 8.9
Vis 58
4# LCM

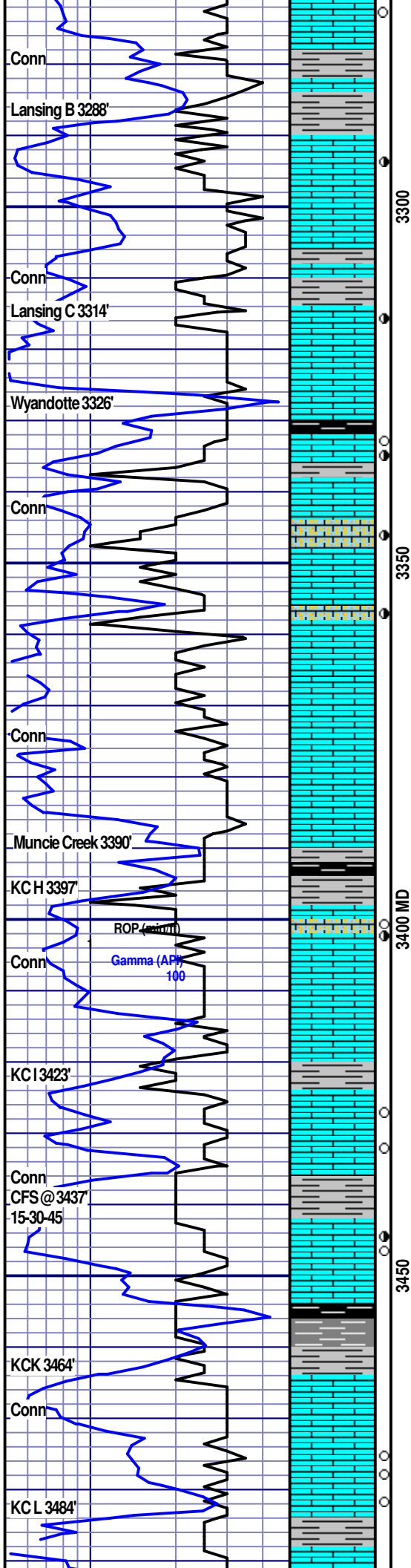
MW 8.9
Vis 58
4# LCM

Andys Mud Check:
MW 8.8
Vis 57
Filtrate 8.0
Chlorides 2500ppm
2.5# LCM

MW 8.8
Vis 65
2# LCM

MW 8.8
Vis 57
2# LCM

MW 8.8
Vis 57



stain, no free oil, questionable odor.

30% Sh: lt green grey, soft smooth, sub platy, non silty, sl calc. 70% Ls: cm, micro xln, dense, occ fos grainstn, 500-750 micron clsts, p std, arg, no sec por, NSOC. 4 cuttings w/p scat vuggy por, lt stain, vssfo.

Lans B por: off wht, lt brn, micro xln matrix, scat to even patcy vuggy por in tight mtrx, thin bedded, occ oolitic, vugs throats from 150-500microns, scattered live oil stain, SSFO-FSFO, fair-good odor.

Ls: cm, dns, micro xln, no vis por, trc edge stain, NSOC. 20% grey-green sh, subplaty-soft.

Lansing C porosity: ~5% suboolitic ls, patch scat vugs in dns ls, poor conn por, patchy SSFO, faint-fair odor.

Ls: cm, off white, micro xln, very dense litho tex, NSOC.

Ls: cm, dense, micro xln, har, few cutting w sec rexln calc, scat patch live oil stain, 2 cuttings vfn oolitic w poor sec por, VSSFO, no odor. ~5% dk grey-blk sh, platy, mod firm.

10% oolitic ls, 350-500 microns, mod std, w cmrtd, poor-no vis sec por, trc spotty edge stn, no free oil. 80% Ls: cream-dense, micro. 10% sh: med grey, platy, brittle.

G porosity: oolitic-sub oolitic, 350-500 microns, w std, p-f castic por (scattered), dense, scattered stain and sat, SSFO, faint odor, few droplets on cup.

Ls: cream, lt grey, micro xln, 25% oolitic- 350-500 microns, w cem, w std, dense, no vis sec por, occ r pp vug, few scat edge stn, no show free oil, questionable od.

Ls: cream, offwhite, lt grey, micro xln, litho tex, trc oolitic, NSFOC.

Ls: cream, lt grey, tan, micro xln dense, trc oolitic, trc scat fos frag, no vis por, litho tex, NSOC.

10% Dk grey-blk shale, firm sub platy, mod carb. 90% Ls, cream, beige, micro xln, dense, few cuttings oolitic, scat dark oil stain and sat, vssfo, faint odor.

Ls: cream, lt gry, micro xln, dense, litho tex, r scat fos frag, no vis por, sl cherty, NSOC.

Sh: light grey, soft, smooth, mushy, non platy.

KCI: beige, lt brown, off white, fn xln, granular tex, occ vf oolitic (<250micron clasts), v poor scat vuggy por, spotty lt brn stn, no vis sat, no odor or free oil.

Sh: lt-med grey, subplaty, mod firm, non calc.

Ls: cream, tan, beige, micro xln, dense, litho tex, r scat pp vugs in dense mtrx, spotty stain & sat (occ blk stn), vssfo, questionable odor.

Sh: blk-dk gret, mod firm sub platy, sl calc, sl-mod carb. Sh: med grey, sub platy, soft, non silty, non calc.

Ls: cream, micro xln, dense, no vis por, trc fos frag, NSOC.

Ls: cream, micro xln, dense litho tex, few scat pp vugs and sec re xln por in micro xln mtrx, spotty oil stain, no free oil or odor.

Ls: cream, lt grey, micro xln, dense, r scat vuggy por, occ imbdd pyrite, sl cherty, r scat uneven dk brn-black stn, NSFOC. Sh: grey, soft, non platy-subplaty.

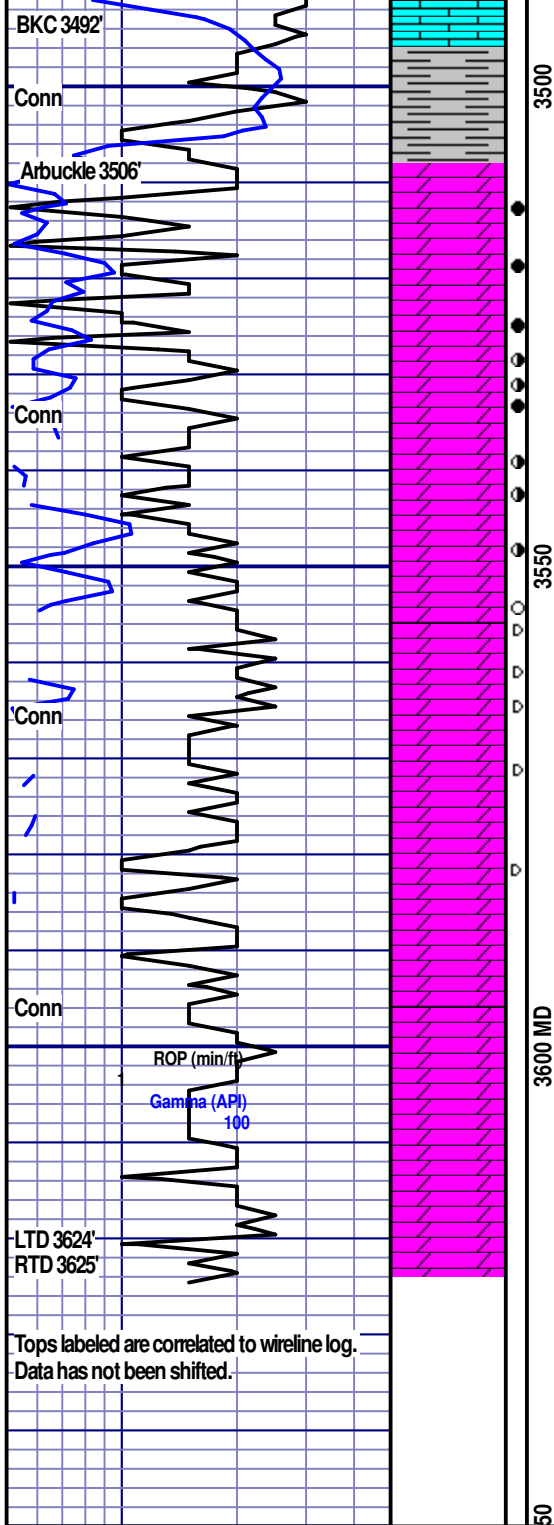
Vis 65
2# LCM

MW 8.8
Vis 54
2# LCM

MW 8.8
Vis 53
2# LCM

MW 8.9
Vis 59
3# LCM

MW 9.0
Vis 57
3# LCM



Ls: cream, micro xln, dense, litho tex, few fusulinids, occ imbddd pyrite. NSOC.

Sh: grey, green, teal, maroon, sub platy-most soft, lt red wash. Trc dolomite, fn xln, poor inxl por, ssfo, sl cut, no odor. Sl cherty: tan-beige.

Lag to 3512: <5% dolomite: beige lt brown, fn-med xln, oc sl cucrosic, poor inxl por, well cemented, dense, FSFO, faint odor.

Lag to 3526: dolomite, 20% w/show, lt brown, fn xln, sucrosic, fair inxl por, non arg, even stain and sat, 100% dry stain, good odor, GSFO, hvy oil show on cup. Dried dk brown.

Lag to 3540' : 15% dolomitew/show, fn-med xln, occ crs rhob, sucrosic, hrd, fair inxl por, even stn & sat, FSFO-GSFO, strng od, dried brown. Rmng smple dolomite: tan-beige, micro-fn xln, dense, sl cherty (wht) no vis por.

Lag to 3553' Dolomite: 15-20% dolomite w/show, fn-med xln, sucrosic, fair-good inxl por, even sat stn, FSFO, strong odor, dried grey-brown. 20% dolo, beige, fn xln, spotty light stn, VSSFO.

Lag to 3562' Dolomite: beige, grey-brown, fine-med xln, sucrosic, occ good vuggy por, hard, very light even stain, occ. hevay dead gils, SSFO faint-fair odor. Dried lt grey-brown:

Lag to 3569' Dolomite: beige, lt grey, fn-med xln, sucrosic, fair-good inxl por, scat pp vugs, svrl hvy gils stain, SSFO, faint odor.

Dolomite: beige-lt brown, sucrosic, fn -med xln, fair-good inxl por, scattered dead gils stain, VSSFO.

Dolomite beige-cream, fn-med xln, occ vuggy, few coarse rhom xls, scat gils stain, no show free oil. Strong sulfur odor.

Dolomite: fine-corase, xln, excellent inxl por, occ coarse rhomb, occ sucrosic, scattered hvy gils stain, faint sulfur odor.

Dolomite: beige-lt brown, off white, fn-coarse xln, occ coarse rhom, excellent inxl por, scat hvy gils stain, no free oil.

MW 9.0
Vis 57
3# LCM

Tops labeled are correlated to wireline log.
Data has not been shifted.