



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1151133
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1151133

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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8 Ames P

915' FNL & 1825' FWL

75'N & 155'W of S/2 NE NW Section 6-18S-10W

Rice County, Kansas

API# 15-159-22731-0000

Elevation: 1690' GL, 1799' KB

Sample Tops			Ref. Well
Stotler	2274'	-475	+3
Tarkio	2336'	-537	+5
Topeka	2564'	-765	+1
Queen Hill	2738'	-939	Flat
Heebner	2825'	-1026	-3
Toronto	2842'	-1043	-1
Douglas	2850'	-1051	+1
Brown Ls.	2933'	-1134	+4
Lansing	2948'	-1149	+3
LKC "C"	2976'	-1177	+5
LKC "G"	3023'	-1224	+9
Muncie Shale	3088'	-1289	+1
LKC "J"	3130'	-1331	+1
Stark Shale	3162'	-1363	+2
LKC "K"	3168'	-1369	+3
Hush. Shale	3198'	-1399	NA
BKC	3223'	-1424	NA
Arbuckle	3232'	-1433	NA
RTD	3235'	-1436	

ALLIED OIL & GAS SERVICES, LLC

060355

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Great Bend, KS

DATE <u>3-13-13</u>	SEC. <u>6</u>	TWP. <u>18S</u>	RANGE <u>10W</u>	CALLED OUT <u>3:00 PM</u>	ON LOCATION <u>4:00 PM</u>	JOB START <u>6:00 PM</u>	JOB FINISH <u>8:00 PM</u>
LEASE <u>Ames P</u>	WELL# <u>8</u>	LOCATION <u>E into location (2.1m)</u>			COUNTY <u>Rice</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)							

CONTRACTOR Southwind #2
 TYPE OF JOB Surface Casing
 HOLE SIZE 12 1/4" T.D. 354 ft
 CASING SIZE 8 3/8" 24" DEPTH 343.74 ft
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 20 ft
 CEMENT LEFT IN CSG. 20 ft, 1,272.661, 5.3 sy
 PERFS. _____
 DISPLACEMENT 21.5 bbls Fresh Water

OWNER Ritchie Exploration, Inc.

CEMENT
 AMOUNT ORDERED 250 sy "A" + 3% Cact + 2% Gel

EQUIPMENT
 PUMP TRUCK CEMENTER Charles Ekins
 # 398 HELPER Josh Isaac
 BULK TRUCK
 # 344/170 DRIVER Austin Riley
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>250</u>	@	<u>17.90</u>	<u>4,475.00</u>
POZMIX		@		
GEL	<u>5</u>	@	<u>23.40</u>	<u>117.00</u>
CHLORIDE	<u>9</u>	@	<u>64.00</u>	<u>576.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>270.83</u>	@	<u>2.48</u>	<u>671.65</u>
MILEAGE	<u>12.35 X 21</u>	@	<u>26.00</u>	<u>674.31</u>
TOTAL				<u>6,513.96</u>

REMARKS:

Pump 5 bbls Fresh Water
Mix + Pump 59.5 bbls Cement (250 sy)
Displace with 21.5 bbls Fresh Water
leave 20 ft, 1,272.661, 5.3 sy Cmt. in casing
Circulate 25 bbls, 104 sy Cement to Surface

SERVICE

DEPTH OF JOB	<u>343.74</u>		
PUMP TRUCK CHARGE			<u>1512.75</u>
EXTRA FOOTAGE		@	
MILEAGE		@	
MANIFOLD		@	
	<u>HVM 21</u>	@	<u>7.70</u> <u>161.70</u>
	<u>LVM 21</u>	@	<u>4.40</u> <u>92.40</u>
TOTAL <u>1766.35</u>			

CHARGE TO: Ritchie Exploration, Inc.
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

To: Allied Oil & Gas 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.

SALES TAX (if Any) _____

TOTAL CHARGES 8280.31

PRINTED NAME William Sanders

DISCOUNT 2,070.08 IF PAID IN 30 DAYS

SIGNATURE William Sanders

\$ 6,210.23

ALLIED OIL & GAS SERVICES, LLC 060381

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Heartland K

DATE <u>3-19-13</u>	SEC. <u>6</u>	TWP. <u>19</u>	RANGE <u>10</u>	CALLED OUT <u>12:00 PM</u>	ON LOCATION <u>2:00 PM</u>	JOB START <u>5:00 PM</u>	JOB FINISH <u>12:45 PM</u>
LEASE <u>Area</u>		WELL # <u>P-8</u>		LOCATION <u>Callin East to CO. LN</u>		COUNTY <u>Pace</u>	STATE <u>Ka</u>
OLD OR NEW (Circle one) <u>NEW</u>			<u>1/4 south, East into</u>				

CONTRACTOR Southland 2 OWNER Same

TYPE OF JOB <u>Production</u>	CEMENT
HOLE SIZE <u>7 7/8</u> T.D. <u>3236'</u>	AMOUNT ORDERED <u>200 lbs ASC, 1620 lbs Special</u>
CASING SIZE <u>5 1/2"</u> DEPTH <u>3234'</u>	<u>10% salt, 2% salt, 5# Kolbe/sh</u>
TUBING SIZE DEPTH	<u>1/4 of 1 1/2 CD-31 w/ 2# Defcemer. Sealed w/ H2O</u>
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX <u>1100#</u> MINIMUM <u>650#</u>	COMMON _____ @ _____
MEAS. LINE SHOE JOINT <u>19,20'</u>	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>19,20'</u>	GBL _____ @ _____
PERFS.	CHLORIDE _____ @ _____
DISPLACEMENT <u>76.56</u>	ASC <u>200</u> @ <u>20.90</u> <u>4180.00</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Tim Duden</u>	DRIVER <u>Don Capen</u>	
# <u>1006</u>	HELPER <u>Charles Kenyon</u>		
BULK TRUCK			
# <u>599</u>	DRIVER <u>Don Capen</u>		
BULK TRUCK			
#	DRIVER		

KOLBEAL <u>1000</u>	@ <u>.98</u>	@ <u>980.00</u>
C-O-31 <u>47</u>	@ <u>10.30</u>	@ <u>484.10</u>
DE <u>28</u>	@ <u>9.80</u>	@ <u>274.40</u>
OV-1100 <u>500 gal</u>	@ <u>1.27</u>	@ <u>635.00</u>
HANDLING <u>260.17</u>	@ <u>2.48</u>	@ <u>645.22</u>
MILEAGE <u>11.25 x 21 x</u>	@ <u>2.60</u>	@ <u>614.25</u>
TOTAL		<u>7,813.05</u>

REMARKS:

Run 3234' of 5 1/2" Pipe circulation
circulated 1 hr. Plug Retard w/ 20% salt
10% salt, 2% salt, 5# Kolbe/sh
1/4 of 1 1/2 CD-31 w/ 2# Defcemer. 3 bits
1 Cement on top of plug. Released plug. Displaced
with H2O. Landed plug at 1100 #.
Released & float held.

SERVICE

DEPTH OF JOB <u>3234'</u>	
PUMP TRUCK CHARGE <u>2600.42</u>	
EXTRA FOOTAGE @	
MILEAGE <u>Hum 21</u> @ <u>7.70</u>	@ <u>161.70</u>
MANIFOLD <u>Head Rent</u> @ <u>275.00</u>	@ <u>275.00</u>
<u>Hum 21</u> @ <u>4.40</u>	@ <u>92.40</u>
TOTAL <u>3,129.57</u>	

CHARGE TO: Ritchie Exploration
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

1- <u>Headline</u>	@ <u>280.00</u>	@ <u>280.00</u>
6- <u>Centers</u>	@ <u>57.33</u>	@ <u>343.98</u>
2- <u>Baskets</u>	@ <u>394.24</u>	@ <u>788.48</u>
<u>Rubber Plug</u>	@ <u>85.41</u>	@ <u>85.41</u>
<u>Insert</u>	@ <u>334.62</u>	@ <u>334.62</u>
TOTAL		<u>1,833.29</u>

To: Allied Oil & Gas 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 Kurt Boelt
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES 12,775.91
DISCOUNT -3193.98 IF PAID IN 30 DAYS
\$9581.93

[Signature]

**Ritchie Exploration, Inc.
Ames P No.8
915' FNL and 1825' FWL
75' N and 155' W of S2 NE NW
Sec 6 T18S R10W
Rice County, Kansas**

Geological Report
by

Macklin M. Armstrong, P.G.
License Number 743

Scale 1:240 Imperial

Well Name:	Ames P No. 8	
Surface Location:	Sec 6 T18S R10W	
Bottom Location:	915' FNL and 1825' FWL	
API:	15-159-22731	
License Number:	4767	
Spud Date:	3/13/2013	Time: 3:15 PM
Region:	Rice County, Kansas	
Drilling Completed:	3/18/2013	Time: 4:32 PM
Surface Coordinates:		
Bottom Hole Coordinates:		
Ground Elevation:	1790.00ft	
K.B. Elevation:	1799.00ft	
Logged Interval:	2200.00ft	To: 3236.00ft
Total Depth:	3235.00ft	
Formation:	Arbuckle	
Drilling Fluid Type:	Chemical/Fresh Water Gel	

OPERATOR

Company:	Ritchie Exploration, Inc.	
Address:	8100 East 22nd Street North, No. 700 Wichita, Kansas 67278	
Contact Geologist:	Pete Fiorini	
Contact Phone Nbr:	316-691-9500	
Well Name:	Ames P No. 8	
Location:	Sec 6 T18S R10W	API: 15-159-22731
Pool:	Oil	Field: Bloomer
State:	Kansas	Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 98° 28' 26.469" Latitude: 38° 31' 09.590"
 N/S Co-ord:
 E/W Co-ord:

CONTRACTOR

Contractor: Southwind Drilling
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 3/13/2013 Time: 3:15 PM
 TD Date: 3/18/2013 Time: 4:32 PM
 Rig Release: 3/19/2013 Time: 6:50 PM

ELEVATIONS

K.B. Elevation: 1799.00ft Ground Elevation: 1790.00ft
 K.B. to Ground: 9.00ft

NOTES

Date	Depth at 7 am	Activity
3-13-13	MIRU	Spud at 3:15 pm
3-14-13	675	Drilling
3-15-13	2220	Drilling
3-16-13	2812	OB with DST No. 1
3-17-13	3022	TIH after DST No. 2
3-18-13	3218	CFS
3-19-13	3235	Logging
3-20-13	3235	Set 5 1/2"

Surface Casing: 8 5/8" 24# at 353'
 Production Casing: 5 1/2" 15.5# at 3234'

Deviation: 354' - 1°, 2812' - 1 1/4°, 3235' - 1°

Bit Record:	Make	Size	Type	Depth In	Depth Out	Hours
	JZ	7 7/8"	HA20Q	353	3218	49 1/2
	Reed	7 7/8"	S52	3218	3235	1/2

Drill Stem Tests:

DST No. 1 2748 to 2812 Formation: Lecompton

30-45-45-60

Recovery: 87' Mud

IHP 1326 FHP 1290

IFP 32-46 FFP 46-57

ISIP 692 FSIP 664

Temp 95°

DST No. 2 2936 to 3022 Formation: Lansing A, C, D, E, and F zones

30-45-45-60

Recovery: 150' GIP

30' VSOCM (1%O, 99%M)

IHP 1507 FHP 1455

IFP 51-61 FFP 60-64

ISIP 251 FSIP 270

Temp 99°

DST No. 3 3015 to 3039 Formation: Lansing F and G zones

30-45-45-60

Recovery: 1225' GIP

98' OGCM (5%O, 20%G, 75%M)

62' OGMCW (5%O, 15%G, 32%M, 48%W - Chl 12,500 ppm)

IHP 1476 FHP 1442

IFP 26-58 FFP 58-95

IFP 20-36
ISIP 388
Temp 99°

IFP 38-93
FSIP 382

DST No. 4 3076 to 3218 Formation: Lansing H, I, J, K, and L zones
30-45-45-60
Recovery: 150' Mud
IHP 1534 FHP 1506
IFP 23-57 FFP 59-96
ISIP 418 FSIP 404
Temp 96°

DST No. 5 3211 to 3235 Formation: Arbuckle
30-45-30-60
Recovery: 150' GIP
90' Oil (39° gravity)
372' MGWCO (5%M, 20%G, 30%W, 45%O)
434' MGO CW (5%M, 20%G, 25%O, 50%W)
992' W (Chlor 30,000 ppm)
IHP 1612 FHP 1540
IFP 129-617 FFP 623-860
ISIP 1048 FSIP 1049
Temp 109°








Formation	Sample	E-Log	Datum	Well 1	Well 2	Well 3
Stotler	2274	2276	-477	+1	+2	+1
Tarkio	2336	2338	-539	+3	+6	-2
Howard	2482	2483	-684	0	+1	-5
Topeka	2565	2564	-767	-1	+3	-6
King Hill	2660	2662	-863	-1	+1	-6
Queen Hill	2738	2740	-941	-2	-1	-8
Heebner	2825	2824	-1025	-2	0	-8
Toronto	2841	2842	-1043	-1	+4	-9
Douglas	2850	2850	-1051	-1	+5	-6
Brown Lime	2935	2936	-1137	+1	+2	-4
Lansing	2949	2950	-1151	+1	+2	-2
Muncie Creek	3088	3092	-1293	-3	0	+2
Stark	3164	3165	-1366	-1	+1	+1
Hushpuckney	3198	3202	-1403	NL	+2	0
B/Kansas City	3223	3224	-1425	NL	NL	0
Arbuckle	3232	3234	-1435	NL	NL	+1
Total Depth	3235	3236	-1437			

Well 1: Ritcihe Exploration, Inc. Ames No. 3 N2 N2 NW Sec 6 T18SS R10W
Well 2: Ritchie Exploration, Inc. Ames P No. 4 660' FNL and 330' FEL Sec 6 T18S R10W
Well 3: Ritchie Exploration, Inc. Schlicht Trust No. 1 2305' FSL and 660' FEL Sec 6 T18S R10W

Pipe was set to further test the Arbuckle.

Respectfully submitted,
Macklin M. Armstrong

ROCK TYPES

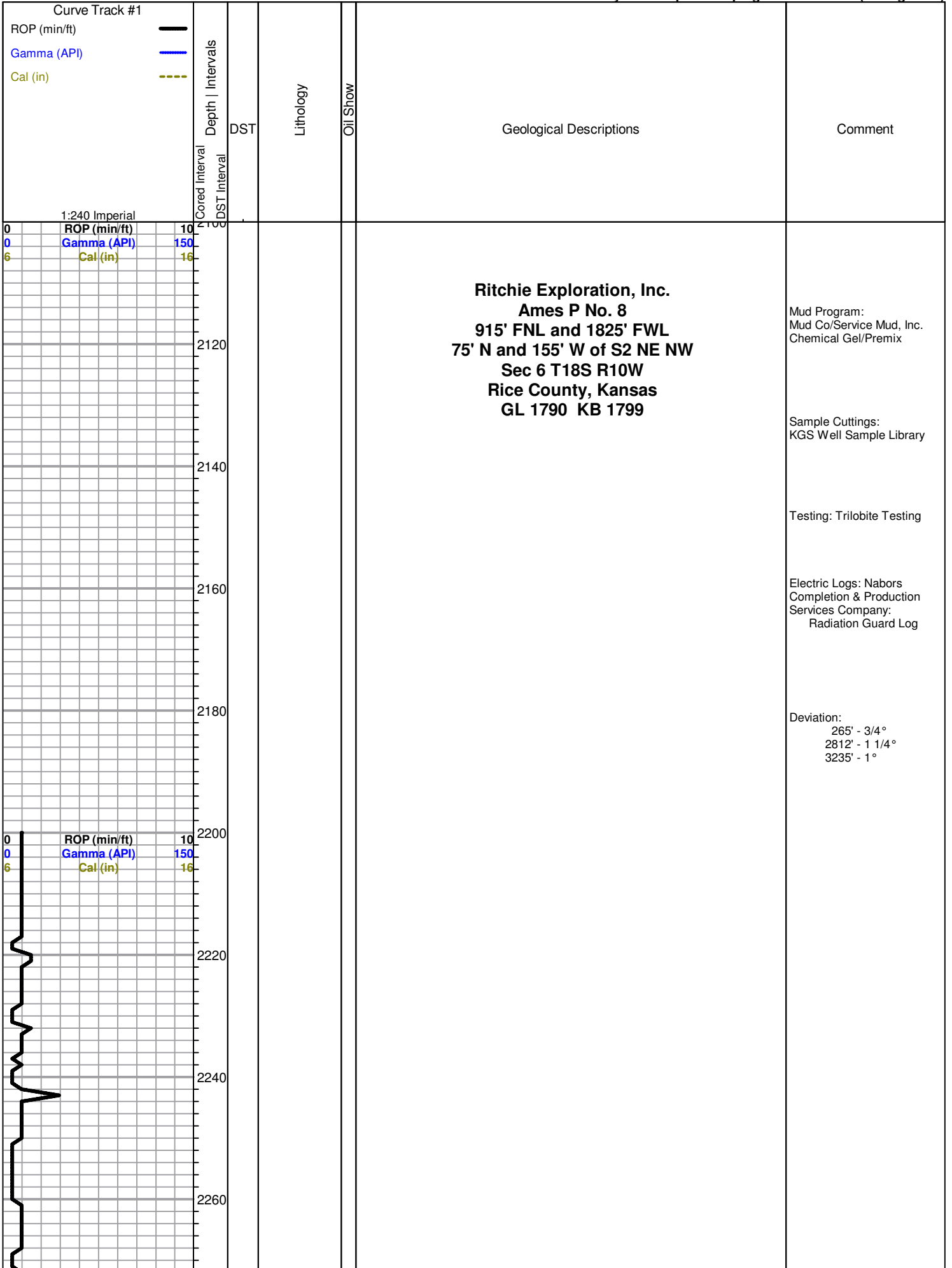
 Dolprim	 shale, grn	 Carbon Sh	 Siltst
 Lmst fw7>	 shale, gry	 Ss	

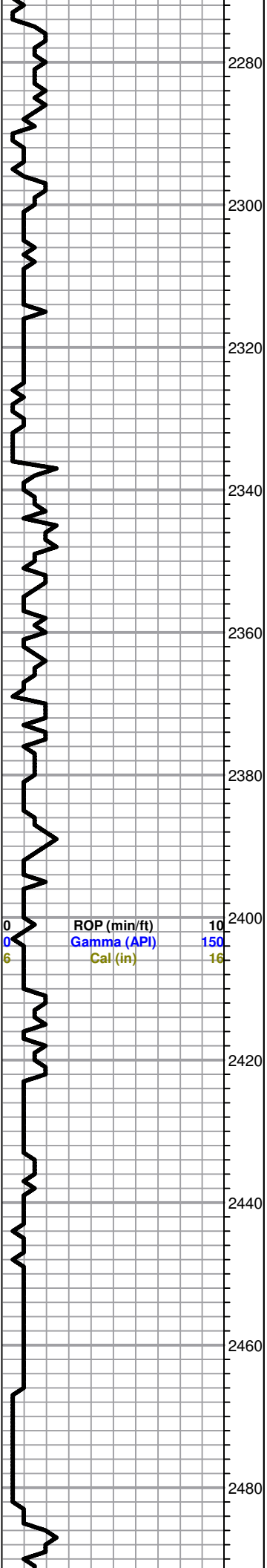
ACCESSORIES

MINERAL	FOSSIL	STRINGER	TEXTURE
▲ Chert, dark	F Fossils < 20%	••• Sandstone	C Chalky
P Pyrite	⊕ Oolite	••• Siltstone	
△ Chert White	⊕ Oomoldic		
Mc Mica	⊕ Fussilid		

OTHER SYMBOLS

DST





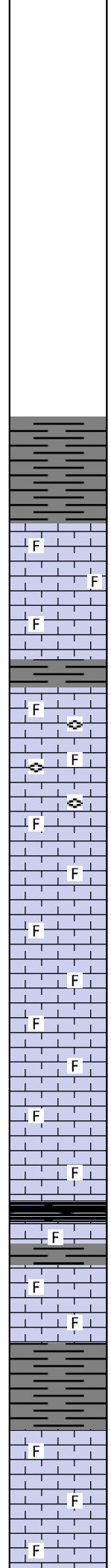
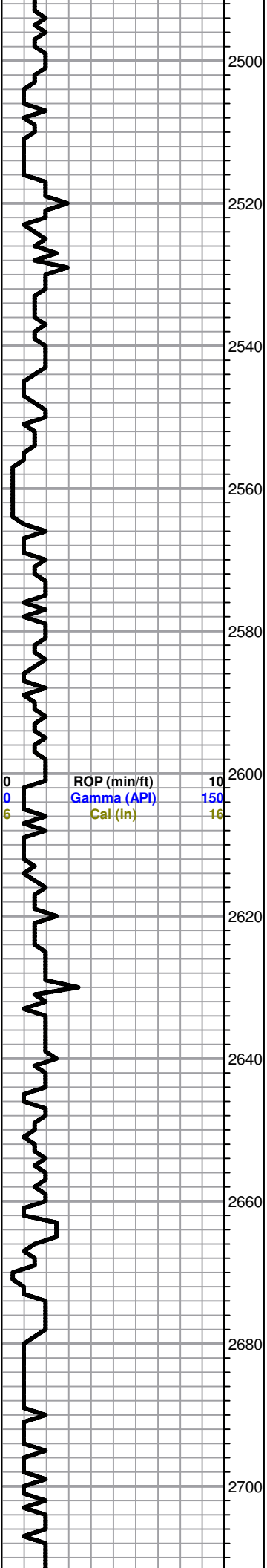
ROP (min/ft) 10
Gamma (API) 150
Cal (in) 16

-----Stotler 2274 -475-----

-----Tarkio 2336 -537-----

-----Howard 2482 -683-----

All formation tops on this geo log have been correlated back to the electric log



Sh-gry

-----**Topeka 2565 -766**-----

Ls-lt gry/crm fxln mhd fos no por

Ls-AA

Sh-gry

Ls-gry/crm/tan fxln mhd/dns fos sm free fus no por

Ls-gry/crm f/mxln mhd fos sm free fus fr inter xln por nsfo

Ls-AA

Ls-gry/tan/crm fxln mhd/dns fos no por

Ls-AA

Ls-crm/tan/lt gry f/mxln mhd/dns sl fos no por

Ls-AA

Ls-crm/tan f/mxln mhd/dns sl fos no por

-----**King Hill 2660 -861**-----

Sh-blk carb

Ls-crm/tan/lt gry fxln dns sl fos no por

Sh-gry

Ls-crm/tan/lt gry fxln mhd/dns sl fos no por

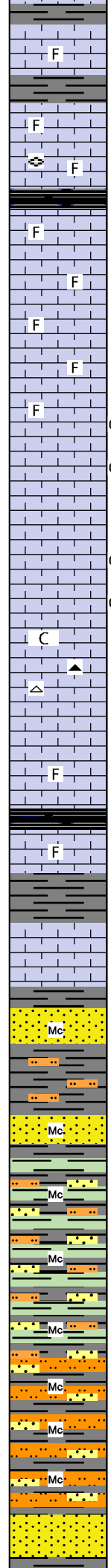
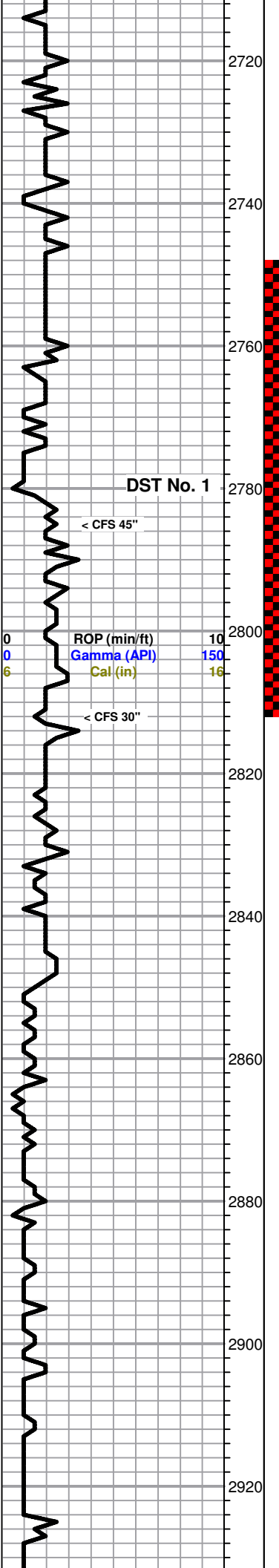
Sh-gry

Ls-crm/tl gry f/mxln mhd sl fos fr inter xln por nsfo

Ls-AA

Ls-crm/lt tan/lt gry fxln mhd sl fos no por

Mud Data at 2677'
 6:30 pm 3-15-13
 Wt 8.7
 Vis 46
 WL 8.8
 pH 11.5
 Chl 3500
 Sol 2.7%
 YP 11
 LCM 1#



Sh-gry
Ls-crm/tan/lt gry fxln mhd sl fos no por

Sh-gry
Ls-crm/tan/lt gry mxln to sl blkly mhd fos fr inter xln por nsfo

Ls-crm/tan/ltgry f/mxln mhd fos sm free fus no por

-----**Queen Hill 2738 -939**-----

Sh-blk carb
Ls-crm/tan/lt gry f/mxln mhd sl fos no por

Ls-AA
Ls-crm/lt gry fxln mhd/dns sl fos no por

Ls-crm/lt gry f/mxln mhd sl fos trc inter xln por nsfo

Ls-tan/lt gry fxln mhd sl fos no por

① Ls-crm/lt gry fxln mhd mostly barren with few pcs Ls-crm fxln mhd fr foscast por fr cut ssfo on brk

② Ls-crm fxln mhd fr vug/foscast por brn/blk sct stn gd cut fsfo on brk

Ls-crm/lt gry fxln dns no por

③ Ls-AA with few pcs Ls-crm/lt gry f/mxln fr vug/foscast por gd cut fsfo on brk

④ Ls-AA

Ls-gry/tan fxln mhd/dns sl clkly no por sm Cht-fsh spt brn and wt opaqt to semi trans and Cht-gry wt fsh opaqt

Ls-crm/tan fxln dns no por

Ls-AA

Ls-crm/tan/lt gry f/mxln dns sl fos no por

-----**Heebner 2825 -1026**-----

Sh-blk carb
Ls-crm/tan/lt gry f/mxln mhd sl fos no por

Sh-gry/dk gry

-----**Toronto 2841 -1042**-----

Ls-tan/crm/lt gry fxln dns no por

-----**Douglas 2850 -1051**-----

Ss-lt grn/lt gry f/mxrn sub ang to sub rnd sl fri to tite cement sl mica

Sh-gry grn sm Silt gry grn vfgrn mica

Ss-gry/grn fgrn sub ang to sub rnd sl fri to tite cement sl mica

Sh-gry/gry grn with sm Silt-gry grn and Ss-AA

Sh-AA with sm Silt and Ss-AA

Sh-AA with sm Silt and Ss-AA

Sh-AA with sm Silt and Ss-AA

Silt-gry vfgrn mica with sm Ss and Sh-gry/dk gry sl silty

Silt-AA with sm Ss and Sh-AA

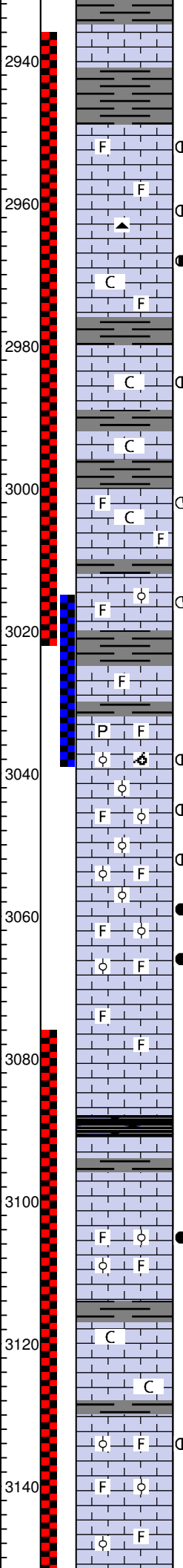
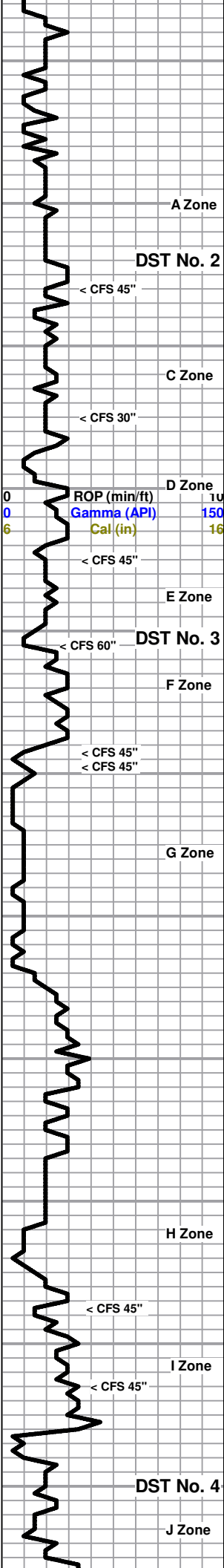
Silt-AA with sm Ss and Sh-AA

Ss-gry fgrn sub ang to sub rnd sl fri to tite cement

DST No. 1
2748 to 2812
30-45-45-60
1st Open: Weak 1 1/2" blow
2nd Open: Weak sur blow
Recovery: 87' Mud
IHP 1326 FFP 1290
IFP 32-46 FFP 46-57
ISIP 692 FSIP 664
Temp 95°

Pulled 16 stand short trip at 2812', then Cir for Test 45"

Mud Data at 2812'
12:10 pm 3-16-13
Wt 8.9
Vis 53
WL 8
pH 11.5
Chl 5200
Sol 4%
YP 12
LCM 1#



Sh-gry/dk gry

-----**Brown Lime 2935 -1136**-----

Ls-brn fxln dns no por

Sh-gry/dk gry

-----**Lansing 2949 -1150**-----

Ls-tan/gry f/mxln sm blkly mhd sl fos no por mostly barren with one piece Ls-tan fxln mhd fr cut ssfo on brk

Ls-tan/gry f/mxln mhd sl fos no por

Ls-tan fxlnmhd/dns sl gils stn no por with one piece Ls-tan fxln mhd ssfo on brk sm Cht-tan fsh opaqt to semi trans

Ls-tan fxln mhd/dns no por mostly barren with sm Ls-tan fxln mhd fr vug por gd cut faint odor fgso on brk (5 pieces)

Ls-crm/tan fxln mhd/dns sl clkly no por sm Ls-gry blkly to frag mhd fos mhd no por

Sh-gry/dk gry

Ls-crm/tan fxln mhd/dns sl clkly no por with sm Ls-tan fxln mhd sl gils stn pr vug por sct brn stn fr cut faint odor ssfo on brk

Sh-gry/dk gry

Ls-crm/lt tan fxln mhd/dns sl clkly no por

Sh-gry/dk gry

Ls-crm/lt tan fxln mhd sl clkly fr inter xln por nsfo sm Ls-gry/brn cxln mhd fos no por and 2 pieces Ls-tan fxln mhd pr inter xln por vssfo on brk

Ls-tan/lt gry f/mxln mhd sub clkly sl fos no por

Sh-gry/dk gry

Ls-gry/tan/brn mxln mhd fos no por sm Ls-tan fxln mhd fos pr inter ool por vssfo on brk

Sh-gry/dk gry

Ls-tan/gry/brn f/mxln dns sl fos no por

Sh-gry/dk gry

Ls-tan/gry/brn f/mxln dns sl fos no por sm pyr

Ls-tan fxln mhd ooc and sl ool gd ooc por gd cut strong odor fgso on brk sm Ls-tan/crm fxln mhd fos oom no por

Ls-tan/brn fxln mhd fos ooc and sl ool gd ooc por fr odor fsfo

Ls-AA

Ls-tan/brn fxlnmhd ooc gd ooc por brn sat stn strong odor gsfo

Ls-AA

Ls-lt gry/tan fxln dns sl fos no por

Ls-AA

Ls-lt gry/crm fxln dns no por

-----**Muncie Creek 3088 -1289**-----

Sh-blk carb

Ls-lt gry/crm fxln dns no por

Sh-gry/dk gry

Ls-tan/brn fxln mhd no por

Ls-tan/brn fxln nhd fos ooc and sl ool gd ooc por brn sat stn fr odor good show bleeding oil

Ls-tan fxln mhd fos ool and ooc gd ooc por nsfo

Ls-tan fxln dns fos no por

Sh-gry/dk gry

Ls-crm/tan fxln dns sl clkly no por

Ls-AA

Ls-tan fxlnmhd fos ool and ooc gd ooc por sl odor ssfo on brk

Ls-tan fxln mhd fos ool and ooc fr ooc por nsfo

Ls-AA

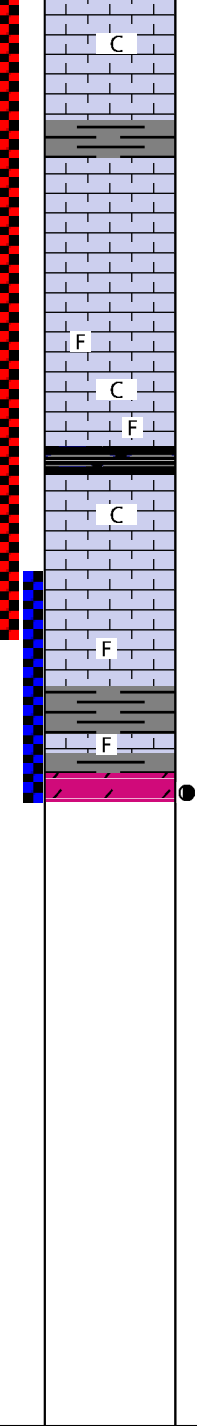
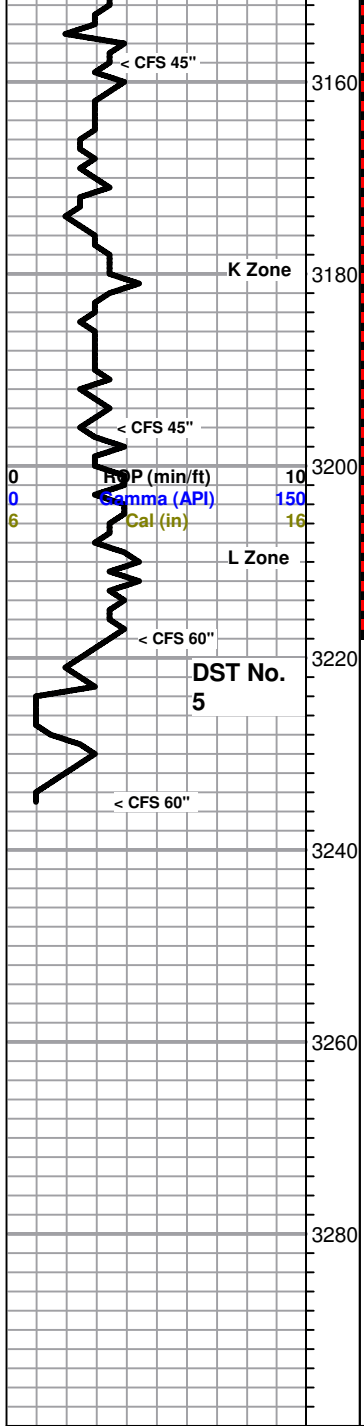
DST No. 2
2936 to 3022
30-45-45-60
1st Open: Fair blow, built to 9'
2nd Open: BOB in 30 sec
Recovery: 150' GIP
30' VSOCM (1%O, 99%M)
IHP 1507 FFP 1455
IFP 51-61 FFP 60-64
ISIP 251 FSIP 270
Temp 99°

DST No. 3
3015 to 3039
30-45-45-60
1st Open: BOB in 5 min
2nd Open: BOB in 2 min
Recovery: 1225' GIP
98' OGCM (5%O, 20%G 75%M)
62' OGMCW (5%O, 15%G 32%M, 48%W Chl 12,500 ppm)
IHP 1476 FFP 1442
IFP 26-58 FFP 58-95
ISIP 388 FSIP 382
Temp 99°

Pipe strap at 3022'
1.63' long

Mud Data at 3039'
11:00 am 3-17-13
Wt 9.1
Vis 47
WL 8.4
pH 10.5
Chl 7200
Sol 5.3%
YP 11
LCM 1/2#

DST No. 4
3076 to 3218
30-45-45-60
1st Open: Weak blow, built to 3 1/2"
2nd Open: Weak blow, built to 1 1/2"
Recovery: 150' Mud
IHP 1534 FFP 1506
IFP 23-57 FFP 59-96
ISIP 418 FSIP 404
Temp 96°



Ls-crm/lt tan/lt gry fxln dns sl clkly no por
 -----**Stark 3164 -1365**-----
 Sh-gry/dk gry
 Ls-lt gry/tan fxln mhd/dns no por
 Ls-lt gry/tan fxln dns no por
 Ls-lt gry/crm fxln dns no por sm Ls-lt gry fxln mhd fos no por
 Ls-AA with sm Ls-wt fxln soft clkly no por
 -----**Hushpuckney 3198 -1399**-----
 Sh-blk carb
 Ls-crm/lt gry fxln dns sl clkly no por
 Ls-lt gry/tan fxln dns no por
 Ls-AA
 Ls-lt gry/crm fxln/mhd sl fos no por
 -----**B/Kansas City 3223 -1424**-----
 Sh-gry/dk gry
 Ls-tan/lt gry fxln sl fos no por
 -----**Arbuckle 3232 -1433**-----
 Dolo-wt vcgrn fr inter gran por brn sct stn fr fluor fr cut fr odor fgsfo
 -----**RTD 3235 -1436**-----
 Finished Drilling at 4:32 pm on 3-18-13.
 Going into hole for DST No. 5 at 6 pm on 3-18-13.
 Finished Logging on 9:05 am on 3-19-13.

DST No. 5
 3211 to 3235
 30-45-30-60
 1st Open: BOB in 90 sec
 2nd Open: BOB in 2"
 Recovery: 150' GIP
 90' Oil (39° gravity)
 372' MGWCO (5%M, 20%G
 30%W, 45%M)
 434' MGOCW (5%M, 20%G
 25%O, 50%W)
 992' W (Chlor 30,000 ppm)
 IHP 1612 FFP 1540
 IFP 129-617 FFP 623-860
 ISIP 617 FSIP 860
 Temp 109°

Mud Data at 3218'
 10:25 am 3-18-13
 Wt 9.3
 Vis 47
 WL 8.8
 pH 10
 Chl 7200
 Sol 6.7%
 YP 10
 LCM 1/2#

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 09, 2013

John Niernberger
Ritchie Exploration, Inc.
8100 E 22ND ST N # 700
BOX 783188
WICHITA, KS 67278-3188

Re: ACO1
API 15-159-22731-00-00
Ames P 8
NW/4 Sec.06-18S-10W
Rice County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
John Niernberger