



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1160861  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_



1160861

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

**Ritchie Exploration, Inc.  
Bieker-Stehno No.1  
2410' FSL and 2010' FWL  
100'N and 30'E of N2 NE SW  
Sec 6 T6S R24W  
Graham County, Kansas**

Geological Report  
by

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

Scale 1:240 Imperial

Well Name:	Bieker-Stehno No. 1	
Surface Location:	Sec 6 T6S R24W	
Bottom Location:	2410' FSL and 2010' FWL	
API:	15-065-23949	
License Number:	4767	
Spud Date:	6/22/2013	Time: 2:00 PM
Region:	Graham County, Kansas	
Drilling Completed:	6/28/2013	Time: 8:00 PM
Surface Coordinates:		
Bottom Hole Coordinates:		
Ground Elevation:	2448.00ft	
K.B. Elevation:	2453.00ft	
Logged Interval:	3100.00ft	To: 3830.00ft
Total Depth:	3830.00ft	
Formation:	Marmaton	
Drilling Fluid Type:	Chemical/Fresh Water Gel	

**OPERATOR**

Company:	Ritchie Exploration, Inc.	
Address:	8100 East 22nd Street North, No. 700 Wichita, Kansas 67226	
Contact Geologist:	Pete Fiorini	
Contact Phone Nbr:	316-691-9500	
Well Name:	Bieker-Stehno No. 1	
Location:	Sec 6 T6S R24W	API: 15-065-23949
Pool:	Oil	Field: Wildcat
State:	Kansas	Country: USA

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: 100° 02' 35.504" Latitude: 39° 33' 32.911"  
 N/S Co-ord:  
 E/W Co-ord:

**CONTRACTOR**

Contractor: WW Drilling  
 Rig #: 6  
 Rig Type: mud rotary  
 Spud Date: 6/22/2013 Time: 2:00 PM  
 TD Date: 6/28/2013 Time: 8:00 PM  
 Rig Release: 6/29/2013 Time: 10:30 AM

**ELEVATIONS**

K.B. Elevation: 2453.00ft Ground Elevation: 2448.00ft  
 K.B. to Ground: 5.00ft

**NOTES**

Date	Depth at 7 am	Activity
6-22-13	MIRU	Spud at 2:00 pm
6-23-13	990	Drilling
6-24-13	2838	Drilling
6-25-13	3540	CFS
6-26-13	3632	TIH after DST No. 1
6-27-13	3682	TOH after DST No. 3
6-28-13	3760	TOH for DST No. 5
6-29-13	3830	Lay Down Drill Pipe
6-30-13	3830	P & A

Surface Casing: 8 5/8" 23# at 260'  
 Production Casing: None set

Deviation: 260' - 3/4°  
 3632' - 1°  
 3830' - 1°

Bit Record:	Make	Size	Type	Depth In	Depth Out	Hours
	SM	12 1/4"	Tooth Bit	Surface	260	2
	SM	7 7/8"	F27	260	3830	64

**Drill Stem Tests:**

DST No. 1 3564 to 3632 Formation: Toronto and Lansing A Zone  
 30-45-45-60

Recovery: 10' Clean Oil (23 degree gravity)  
 60' WHMCO (19%W, 36%M, 45%O)  
 60' SOMCW (7%O, 32%M, 61%W - Chl 61,000 ppm)

IHP 1700 FHP 1695  
 IFP 6-32 FFP 39-63  
 ISIP 1229 FSIP 1228  
 Temp 108°

DST No. 2 3622 to 3662 Formation: Lansing C and D Zones  
 30-45-45-60

Recovery: 10' OCM (22%O, 78%M)  
 60' GSOWCM (5%G, 5%O, 12%W, 78%M)

IHP 1723 FHP 1714  
 IFP 4-24 FFP 26-43  
 ISIP 1107 FSIP 1100  
 Temp 105°

DST No. 3 3658 to 3682 Formation: Lansing E and F Zones

DST No. 3 3636 to 3682 Formation: Lansing E, and F Zones  
 30-30-30-30  
 Recovery: 5' Mud  
 IHP 1732 FHP 1729  
 IFP 3-5 FFP 6-7  
 ISIP 11 FSIP 12  
 Temp 105°

DST No. 4 3702 to 3730 Formation: Lansing H Zone  
 30-30-30-30  
 Recovery: 15' SOCM (7%O, 93%M)  
 IHP 1746 FHP 1743  
 IFP 4-11 FFP 14-20  
 ISIP 978 FSIP 912  
 Temp 107°

DST No. 5 3726 to 3760 Formation: Lansing I and J Zones  
 30-30-30-30  
 Recovery: 5' Mud  
 IHP 1755 FHP 1745  
 IFP 7-7 FFP 7-10  
 ISIP 31 FSIP 33  
 Temp 105°

Formation	Sample	E-Log	Datum	Well 1	Well 2	Well 3
Anhydrite	2082	2082	+371	-2	-12	-12
B/Anhydrite	2114	2114	+339	-2	-11	-11
Topeka	3370	3368	-915	0	-5	-13
King Hill	3461	3461	-1008	0	-6	-14
Queen Hill	3521	3521	-1068	+1	-5	-14
Heebner	3572	3571	-1118	+1	-6	-12
Toronto	3596	3595	-1142	+4	-1	-13
Lansing	3610	3610	-1157	+3	-5	-13
Muncie Creek	3711	3711	-1258	-1	-1	-15
Stark	3761	3761	-1308	+2	-2	-15
Hushpuckney	3778	3778	-1325	+2	-1	-13
B/Kansas City	3793	3793	-1340	+6	0	-11
Marmaton	3816	3817	-1364	+7		
Total Depth	3830	3830	-1377			

Well 1: Murfin Drilling Company Schoen No. 1 C NE SE Sec 1 T6S R25W  
 Well 2: Horizon Petroleum David No. 1 C SW SW Sec 5 T6S R24W  
 Well 3: Ritchie Exploration, Inc. Slipke Unit No. 1 2268' FNL and 29' FEL Sec 32 T5S R24W

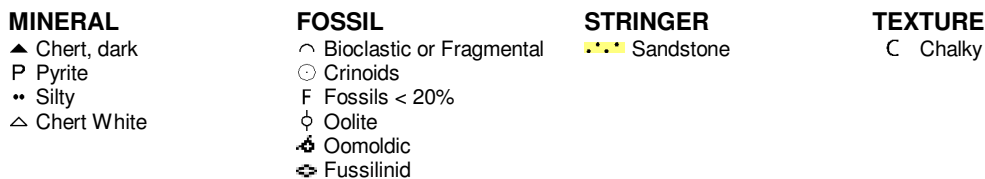
Due to the results of the Drill Stem Tests and the electric log calculations, it was decided to plug this test well.

Respectfully submitted,  
 Macklin M. Armstrong

### ROCK TYPES

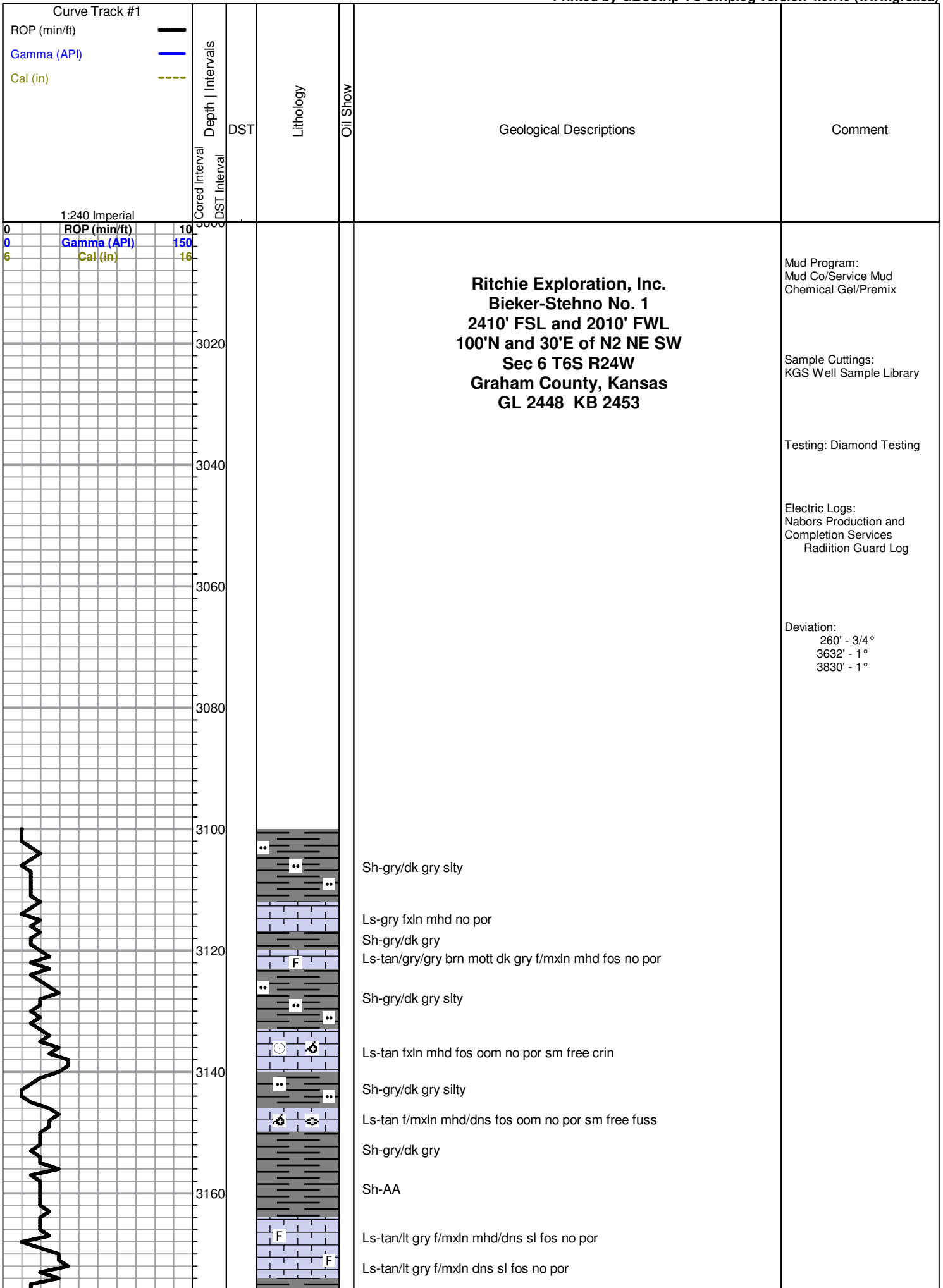


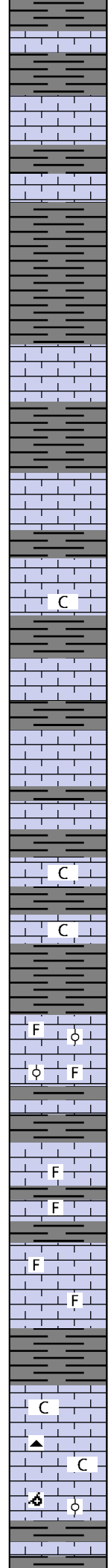
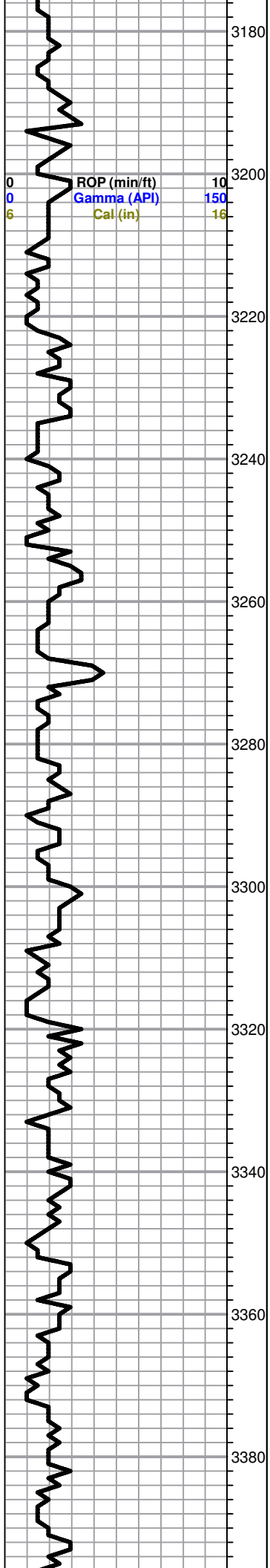
### ACCESSORIES



### OTHER SYMBOLS

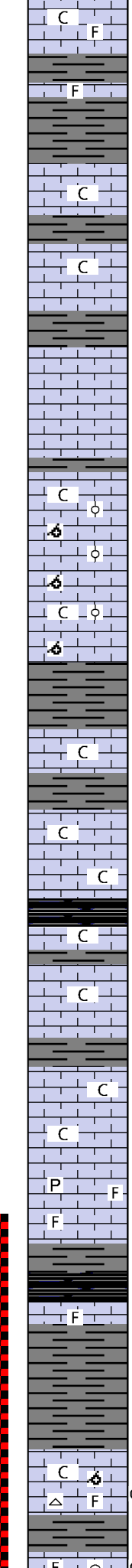
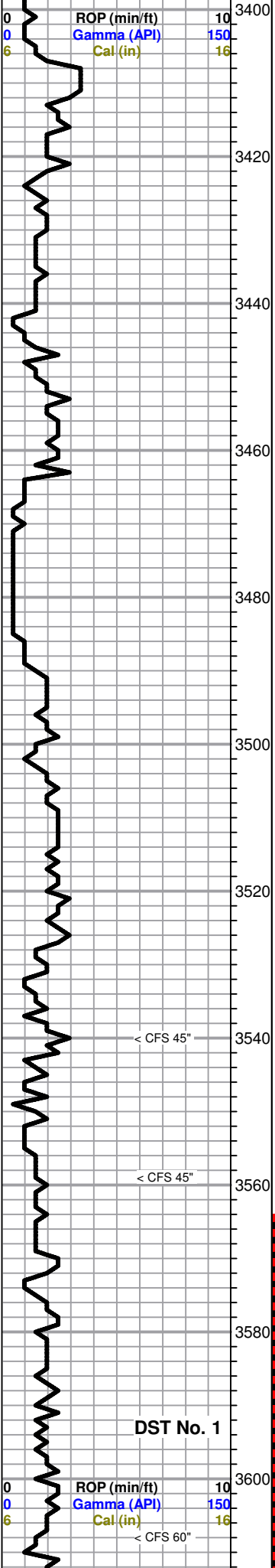






3180 Sh-gry/dk gry  
 Ls-lt gry/tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-lt gry/tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-lt gry/tan f/mxln dns no por  
 Sh-gry/dk gry  
 Sh-AA  
 Sh-AA  
 Ls-lt gry f/mxln dns no por  
 Sh-gry/dk gry  
 Ls-lt gry/gry mott blk f/mxln dns no por  
 Sh-gry/dk gry  
 Ls-tan fxln fxln dns no por  
 Ls-frm/tan fxln mdh clkly no por  
 Sh-gry/dk gry  
 Ls-tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-lt gry/tan fxln mhd no por  
 Ls-lt gry/tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-lt gry/tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-frm/tan f/mxln mhd/dns sl clkly no por  
 Sh-gry/dk gry  
 Ls-frm/tan f/mxln mhd/dns sl clkly no por  
 Sh-gry/dk gry  
 Ls-tan/brn f/mxln dns sl fos no por sm Ls-tan f/mxln mhd with blk ool and irreg shaped fos no por  
 Sh-gry/dk gry  
 Ls-tan/lt gry fxln dns sl fos no por  
 Sh-gry/dk gry  
 Ls-tan/lt gry fxln dns sl fos no por  
 Sh-gry/dk gry  
 Ls-tan/lt gry fxln dns sl fos no por  
 Sh-gry/dk gry  
 Ls-tan/lt gry fxln dns sl fos no por  
 Sh-gry/dk gry  
 Ls-tan/gry f/mxln dns sl fos no por  
 Ls-AA  
 Sh-gry/dk gry  
 ----- **Topeka 3370 -917** -----  
 Ls-frm/lt tan fxln mhd sl clkly no por  
 Ls-frm/tan f/mxln mhd sl clkly no por sm Cht-brn fsh opa with wt strks  
 Ls-frm mxln mhd fos ool and oom no por  
 Sh-gry/dk gry  
 Ls-frm/tan f/mxln dns no por  
 Sh-gry/dk gry

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



Sh-gry/dk gry  
Ls-crm/lt tan f/mxln soft sl clky sl fos fr inter xln por nsfo

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

Sh-gry/dkgry

Ls-crm/lt tan fxln mhd sl clky trc inter xln por nsfo

Sh-gry/dk gry

Ls-crm/lt tan f/mxln mhd sl clky no por

Sh-gry/dk gry

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

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

----- **King Hill 3461 -1008** -----

Sh-gry/dk gry  
Ls-crm/tan fxln soft clky fos oom and ool gd inter ool por nsfo

Ls-AA

Ls-AA

Ls-AA

Sh-gry/dk gry

Ls-crm/lt gry fxln mhd sl clky no por

Sh-gry/dk gry

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

Ls-AA

----- **Queen Hill 3521 -1068** -----

Sh-blk carb  
Ls-tan/lt gry fxln dns sl clky no por

Sh-gry/dk gry  
Ls-tan fxln mhd sl clky trc inter xln por nsfo

Ls-AA

Sh-gry/dk gry

Ls-crm/lt gry fxln soft clky fr inter xln por nsfo

Ls-AA

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

Ls-AA

Sh-gry/dk gry

----- **Heebner 3572 -1119** -----

Sh-blk carb  
Ls-gry/tan fxln dns fos no por

Sh-gry/dk gry

Sh-AA

----- **Toronto 3596 -1143** -----

Ls-crm/tan f/mxln mhd sl clky no por sm Ls-wt fxln soft clky

Ls-AA with sm Ls-crm f/mxln mhd sl clky fos oom no por sm Cht-crm/wt fsh opa and 2 pcs Ls-tan fxln mhd sl fos fr vug por brn spt stn sso on brk

Sh-gry/dk gry

----- **Lansing 3610 -1157** -----

Ls-tan fxln to frag mhd fos gd vug/foscast por brn spt stn fgsfo on brk very faint odor

DST No. 1  
3564 to 3632  
30-45-45-60  
1st Open: Weak surface  
blow building to 2 1/2"  
2nd Open: Very weak  
surface blow building to 3"  
Recovery:  
10' CO (23 deg grav)  
60' WHMCO (19%W  
36%M, 45%O)  
60' SOMCW (7%O, 32%M  
61%W - Chl 61,000 ppm)  
IHP 1700 FHP 1695  
IFP 6-32 FFP 39-63  
ISIP 1229 FSIP 1228  
Temp 108°

Mud Data at 3540'  
7:20 am 6-25-13  
Wt 9.1 Vis 59 WL 6.4  
pH 11 Chl 900  
Sol 5.7% YP 28 LCM 2#

DST No. 2  
3622 to 3662  
30-45-45-60  
1st Open: Very weak  
surface blow building to 1"  
2nd Open: Very weak  
surface blow building to 1"  
Recovery:  
10' OCM (22%O, 78%M)  
60' GSOWCM (5%G, 5%O  
12%W, 78%M)  
IHP 1723 FHP 1714  
IFP 4-24 FFP 26-43  
ISIP 1107 FSIP 1100  
Temp 105°

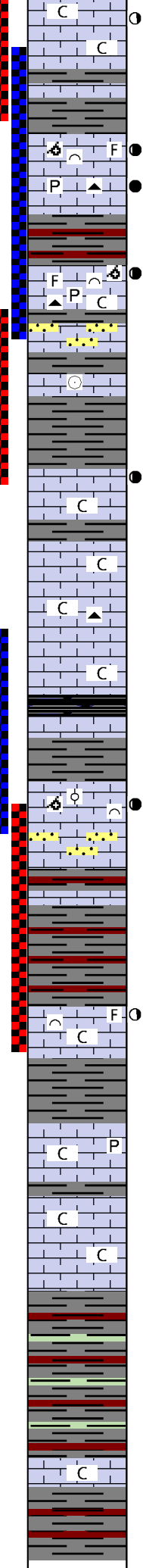
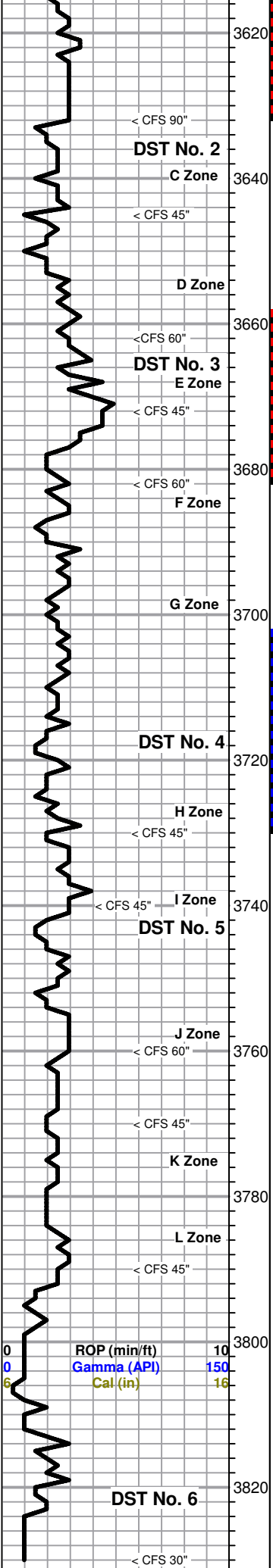
DST No. 1

< CFS 45"

< CFS 45"

< CFS 60"





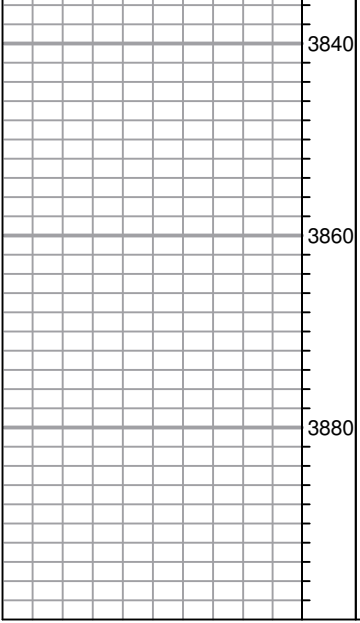
Ls-crm fxln mhd/dns clkly no por with few pcs Ls-tan fxln mhd trc vug por  
 brn spt stn ssfo on brk  
 Ls-crm/lt tan fxln mhd/dns sl clkly no por  
 Sh-gry/dk gry  
 Ls-AA  
 Sh-gry/dk gry  
 Ls-tan fxln to sl frag mhd sl fos sl oom gd vug por lt brn spt stn  
 fgso on brk very faint odor  
 Ls-tan fxln to sl frag mhd fos oom gd vug por brn spt to sat stn gsfo  
 gd odor sm pcs ingrained with pyrite and sm Cht-gry/lt gry fsh opa  
 Sh-gry/dk gry/red  
 Ls-crm fxln to sl frag mhd sm sl fos and sl oom gd vug por brn spt stn  
 fgso on brk faint odor  
 Ls-crm fxln mhd/dns sl clkly sm pyrite no por sm Cht-gry/lt gry fsh opa  
 Sh-gry/dk gry  
 Ls-lt gry fxln dns no por and Ss-clr cgrn sub ang tite cemt nsfo  
 Sh-gry/dk gry  
 Ls-crm/lt gry fxln dns no por sm free crin  
 Sh-gry/dk gry  
 Sh-AA  
 Ls-tan fxln to frag mhd fr vug por brn sct stn fgso on brk faint odor  
 Ls-crm fxln dns sl clkly no por  
 Sh-gry/dk gry  
 Ls-crm/wt fxln mhd clkly no por  
 Ls-crm/wt/lt gry fxln dns sl clkly no por  
 Ls-AA with sm Cht-gry/lt gry fsh opa to semi trans  
 Ls-crm/tan fxln dns sl clkly no por  
 ----- **Muncie Creek 3711 -1258** -----  
 Ls-crm/tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-crm fxln to frag mhd fos oom and ool fr vug/inter ool por brn spt stn  
 fgso on brk faint odor  
 Ls-crm/lt gry fxln mhd no por with sm Ss-clr cgrn sub rnd tite cemt  
 Sh-gry/dk gry/red  
 Ls-crm/lt gry fxln dns no por  
 Sh-gry/dk gry/red  
 Sh-AA  
 Ls-crm/lt gry fxln dns sl clkly no por with sm Ls-crm fxln to sl frag  
 mhd fos fr vug/inter fos por lt brn spt stn ssfo on brk  
 ----- **Stark 3761 -1308** -----  
 Sh-gry/dk gry  
 Ls-crm/lt gry f/mxln mhd sl clkly no por sm pyrite  
 ----- **Hushpuckney 3778 -1325** -----  
 Ls-crm/lt gry fxln mhd sl clkly no por sm Ls-wt fxln soft clkly  
 ----- **B/Kansas City 3793 -1340** -----  
 Sh-gry/dk gry/red/grn  
 Sh-AA  
 Sh-AA  
 ----- **Marmaton 3816 -1363** -----  
 Ls-crm/lt gry fxln mhd sl clkly no por  
 Sh-gry/dk gry/red  
 ----- **RTD 3830 -1377** -----

Pipe strap at 3632'  
 Short 0.57 feet.  
 Mud Data at 3632'  
 7:30 am 6-26-13  
 Wt 9 Vis 60 WL 6.8  
 pH 11 Chl 1300  
 Sol 4.9% YP 36 LCM 2#  
 DST No. 3  
 3658 to 3682  
 30-30-30-30  
 1st Open: Weak surface  
 blow lasting 22"  
 2nd Open: No blow, flushed  
 tool, slight surge  
 Recovery: 5' Mud  
 IHP 1732 FHP 1729  
 IFP 3-5 FFP 6-7  
 ISIP 11 FSIP 12  
 Temp 105°  
 Mud Data at 3682'  
 7:00 am 6-27-13  
 Wt 9.1 Vis 60 WL 6.8  
 pH 11 Chl 1200  
 Sol 5.7% YP 26 LCM 2#  
 DST No. 4  
 3702 to 3730  
 30-30-30-30  
 1st Open: Very weak  
 surface blow lasting 28"  
 2nd Open: No blow, flushed  
 tool, very weak surface  
 blow lasting 3"  
 Recovery:  
 15' SOCM (7%O, 93%M)  
 IHP 1746 FHP 1743  
 IFP 4-11 FFP 14-20  
 ISIP 978 FSIP 912  
 Temp 107°  
 Mud Data at 3760'  
 7:15 am 6-28-13  
 Wt 9.4 Vis 60 WL 7.2  
 pH 10.5 Chl 1500  
 Sol 7.8% YP 36 LCM 2#  
 DST No. 5  
 3726 to 3760  
 30-30-30-30  
 1st Open: Very weak  
 surface blow lasting 8"  
 2nd Open: No blow, flushed  
 tool, slight surge  
 Recovery: 5' Mud  
 IHP 1755 FHP 1745  
 IFP 7-7 FFP 7-10  
 ISIP 31 FSIP 33  
 Temp 105°

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

DST No. 6

< CFS 30°



Finished Drilling at 8:00 pm on 6-28-13. Pulled 11 stand short trip, then Cir for Log 90"

Finished Logging at 2:20 am on 6-29-13



**#1 Bieker-Stehno**

2410' FSL & 2010' FWL

100' N & 30' E of N/2 NE SW Section 6-6S-24W

Graham County, Kansas

API# 15-065-23949-0000

Elevation: 2448' GL, 2453' KB

Sample Tops			Ref. Well
Anhydrite	2082'	+371	-2
B/Anhydrite	2114'	+339	-2
Topeka	3370'	-917	-2
Heebner	3572'	-1119	flat
Toronto	3596'	-1143	+3
Lansing	3609'	-1156	+4
Muncie Shale	3718'	-1265	+5
Stark Shale	3756'	-1303	+7
Hush	3770'	-1317	+10
BKC	3790'	-1337	+9
Marmaton	3816'	-1363	+8
RTD	3830'	-1377	

# ALLIED OIL & GAS SERVICES, LLC 060324

Federal Tax I.D. # 20-8651476

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

SERVICE POINT: Oakley

DATE <u>6/29/13</u>	SEC. <u>6</u>	TWP. <u>6</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30 AM</u>	JOB FINISH <u>10:30 AM</u>
LEASE <u>Bieker</u>	WELL # <u>1</u>	LOCATION <u>Morland 28 13 1/4 N Winto</u>			COUNTY <u>Graham</u>	STATE <u>Ko.</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR WV-6 OWNER Same

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D.

CASING SIZE DEPTH CEMENT AMOUNT ORDERED 205 SKs @ 69/40 4% Gel

TUBING SIZE DEPTH 1 1/2" Floscal

DRILL PIPE 4 1/2 DEPTH 2100

TOOL DEPTH COMMON 12.3 SKs @ 17.92 = 220.10

PRES. MAX MINIMUM POZMIX 8.2 SKs @ 9.35 = 78.67

MEAS. LINE SHOES JOINT GEL 7 SKs @ 23.25 = 163.25

CEMENT LEFT IN CSO. CHLORIDE @

PERFS. ASC @

DISPLACEMENT 26.30 EQUIPMENT Floscal 51 @ 2.28 = 151.22

PUMP TRUCK # 431 CEMENTER Quen Kanette

HELPER Paul Beaver

BULK TRUCK # 317 DRIVER Brandon Wilkerson

BULK TRUCK # DRIVER

HANDLING 220.15 @ 2.48 = 545.98

MILBAGE 9.19 @ 75 X 2.92 = 1,792.05

TOTAL 5,621.20

REMARKS:

mix 25 SKs Cement 2100'  
mix 100 SKs Cement 1323'  
mix 40 SKs Cement 320'  
mix 10 SKs Cement 40'  
Plug Bit hole 30 SKs Cement

Thank You.

SERVICE

DEPTH OF JOB 2100'

PUMP TRUCK CHARGE \$2483.59

EXTRA FOOTAGE @

MILBAGE 75 @ 7.72 = 577.50

MANIFOLD @

LU mileage @ 2.40 = 390.00

TOTAL \$3391.09

CHARGE TO: Ritchie Exploration

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1 Wooden Plug @ 107.64

TOTAL \$107.64

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 9,120.43

DISCOUNT 2,097.70 IF PAID IN 30 DAYS

7,022.73 Net.

PRINTED NAME Jason Rodison

SIGNATURE [Signature]

# ALLIED OIL & GAS SERVICES, LLC 060751

Federal Tax I.D. # 20-8651476

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

SERVICE POINT:

Dakley

DATE <u>6-22-13</u>	SEC <u>6</u>	TWP. <u>6</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Bieker</u>	WELL# <u>1</u>	LOCATION <u>Merland 2W 13 1/4 N Winto</u>	COUNTY	STATE		<u>5:00 PM</u>	<u>5:30 PM</u>
OLD OR NEW (Circle one) <u>NEW</u>					<u>Graham</u>		<u>KS</u>

CONTRACTOR W+W L  
TYPE OF JOB Surface  
HOLE SIZE 12 1/4 I.D. 260'  
CASING SIZE 8 7/8 DEPTH 260'  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX DEPTH  
WEAS. LINE MINIMUM  
CEMENT LEFT IN CSG. 15' SHOE JOINT  
DISPLACEMENT 15.6 DBL  
EQUIPMENT

OWNER same  
CEMENT  
AMOUNT ORDERED 170 Sks com 38cc  
289cc  
COMMON 170 Sks @ 12.90 3043.00  
POZMIX @  
GEL 3 Sks @ 23.40 70.20  
CHLORIDE 6 Sks @ 64.00 384.00  
ASC @  
@  
@  
@  
@  
@  
@  
@  
@

UMP TRUCK CEMENTER Andrew Vorstlund  
431 HELPER Dane Retzloff  
ULK TRUCK  
342 DRIVER David Scarian Tolan  
ULK TRUCK DRIVER Sores

HANDLING 183.82 @ 2.48 455.87  
MILBAGE 260 70/mile 8,38.00 1634.10  
TOTAL 5587.17

REMARKS:

cement did circulate

## SERVICE

DEPTH OF JOB 260'  
PUMP TRUCK CHARGE 1572.25  
EXTRA FOOTAGE @  
MILBAGE 25 miles @ 2.70 577.50  
MANIFOLD @  
light vehicle @ 4.40 330.00  
@

TOTAL 2419.25

CHARGE TO: Ritchie Exploration  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

## PLUG & FLOAT EQUIPMENT

\_\_\_\_\_  
@ \_\_\_\_\_  
\_\_\_\_\_  
@ \_\_\_\_\_  
\_\_\_\_\_  
@ \_\_\_\_\_  
\_\_\_\_\_  
@ \_\_\_\_\_  
TOTAL \_\_\_\_\_

Allied Oil & Gas Services, LLC.  
are hereby requested to rent cementing equipment  
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 8,006.92

OPERATOR NAME JD Hafziger

DISCOUNT 1,841.59 IF PAID IN 30 DAYS

AGREEMENT [Signature]

6,165.32 Net

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

October 01, 2013

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

Re: ACO1  
API 15-065-23949-00-00  
Bieker-Stehno 1  
SW/4 Sec.06-06S-24W  
Graham 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