



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1097652
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: _____



1097652

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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#1 Barngrover

2305' FNL & 335' FEL

5' N & 5' W of SE SE NE Section 7-28S-23W

Ford County, Kansas

API# 15-057-20824-0000

Elevation: 2515' GL, 2527' KB

Sample Tops			Ref. Well
Anhydrite	1503'	+1024	+3
B/Anhydrite	1567'	+960	Flat
Stotler	3613'	-1086	+6
Heebner	4282'	-1755	+4
Lansing	4417'	-1890	+5
Hush.	4779'	-2252	+9
BKC	4812'	-2295	+19
Pleasanton	4830'	-2303	+12
Marmaton	4874'	-2347	+12
Altamont	4892'	-2365	+13
Pawnee	4961'	-2434	+9
Cherokee Shale	5008'	-2481	+9
Huck	5099'	-2572	+10
Atoka Shale	5112'	-2585	+12
Mississippian	5152'	-2625	+34
RTD	5299'	-2772	

ALLIED OIL & GAS SERVICES, LLC 053980

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge, KS
7-24 7-24

DATE <u>7-23-2011</u>	SEC. <u>2</u>	TWP. <u>28</u>	RANGE <u>25</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30 am</u>	JOB FINISH <u>1:30 pm</u>
LEASE <u>Bain Grower</u>	WELL # <u>1</u>	LOCATION <u>Forb, ks down to ss, sdye</u>			COUNTY <u>Forb</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			Rd, W to Rd 120, 15, 1W, S1/4			1,03	

CONTRACTOR Duke #1
 TYPE OF JOB Rotary Plug
 HOLE SIZE T.D.
 CASING SIZE DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH 1560'
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSO.
 PERFS.
 DISPLACEMENT 3 bbls water, 13 bbls mud
 EQUIPMENT:

OWNER Rachic Exploration
 CEMENT AMOUNT ORDERED 210sq 60:40:440601
 1/4 # 110ccs
 COMMON 01955 @ 126.00 16.25 2,647.50
 POZMIX 840x @ 8.50 714.00
 GEL 75x @ 21.25 1,593.75
 CHLORIDE @
 ASC @
 110sec 52# @ 2.70 140.40
 HANDLING 219 @ 2.25 492.75
 MILEAGE 219/1175 1806.25
 TOTAL 5350.15

PUMP TRUCK CEMENTER Darin E 1
 # 471-302 HELPER Brett G. 2
 BULK TRUCK DRIVER Bronson P 3
 # 364
 BULK TRUCK DRIVER

REMARKS:
1st plug - 1560' - 8 bbls water, 13 bbls mud
30 sq. Pozmix 3 bbls water, 13 bbls mud
2nd plug - 15' bbls water, 13 bbls mud
30 sq. Pozmix 3 bbls water
3rd plug - 360' 3 bbls water, 13 bbls mud
30 sq. displacer 1/2 bbl water
4th plug - 60' mix 20sq
Rachic - mix 20sq mud water - mix 20sq

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

SERVICE
 DEPTH OF JOB 1560'
 PUMP TRUCK CHARGE 1250.00
 EXTRA FOOTAGE @
 MILEAGE 75 @ 7.00 525.00
 MANIFOLD @
 Light Vehicle 75 @ 4.00 300.00
 TOTAL 2,075.00

PLUG & FLOAT EQUIPMENT
~~None~~
 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.

PRINTED NAME Mike Godfrey
 SIGNATURE Mike Godfrey
 Thank you!!!

SALES TAX (if Any) 590.29
 TOTAL CHARGES \$1425.15
 DISCOUNT 1485.03 IF PAID IN 30 DAYS
 Field Estimate
 Net \$ 5,940.12

Bumpover

1.01

ALLIED OIL & GAS SERVICES, LLC KB
053233

Federal Tax ID # 20-5976604

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67655

SERVICE POINT:
Lubaca/KS

DATE <i>7/14/12</i>	SEC. <i>7</i>	TWP. <i>28S</i>	RANGE <i>23W</i>	CALLER OUT	ON LOCATION <i>12:30A</i>	JOB START <i>2:30</i>	JOB FINISH <i>5:30</i>
LEASE <i>Bumpover</i>	WELL # <i>1</i>	LOCATION <i>Ford, KS N. to Saddle Rd</i>	FORD	FORD	KS		
OLD OR NEW (Circle one) <i>NEW</i> <i>W. to R118, S 1 mi, E 1 mi, S 1 mi</i>							

CONTRACTOR <i>Duke Drilling #1</i>	OWNER <i>Rechie Exploration</i>
TYPE OF JOB <i>Surface</i>	CEMENT
HOLE SIZE <i>12 1/4</i>	AMOUNT ORDERED <i>225 sks Class 'A'</i>
CASING SIZE <i>8 5/8</i>	<i>+ 3% cc. + 2% Gel</i>
TUBING SIZE	
DRILL PIPE	
TOOL	
PRES. MAX	
MEAS. LINE	
CEMENT LEFT IN CSO. <i>40'</i>	COMMON <i>Class 'A' 225 @ 16.25 3,656.25</i>
PERFS.	POZMIX @
DISPLACEMENT <i>19.5</i>	GEL <i>428 sk @ 21.25 9,099</i>
	CHLORIDE <i>8 sk @ 58.20 465.60</i>
	ASC @

EQUIPMENT		
PUMP TRUCK CEMENTER <i>Virgil Newton</i>		
# <i>549/550</i> HELPER <i>Randy Barza / Viswateh</i>		
BULK TRUCK		
# <i>470/628</i> DRIVER <i>E. Al Colorado</i>		
BULK TRUCK		
#	DRIVER	
	HANDLING <i>225 @ 2.25 506.25</i>	
	MILEAGE <i>11,250 @ 0.11 1,237.50</i>	
	TOTAL <i>5,955.14</i>	

1/25/12

REMARKS:

Circulated Cement

Thank you!!!

SERVICE

DEPTH OF JOB <i>348</i>	
PUMP TRUCK CHARGE <i>0.300 @ 1125.00</i>	
EXTRA FOOTAGE <i>300-1000 @ 0.95 451.60</i>	
MILEAGE (H) <i>100 @ 7.00 700.00</i>	
MANIFOLD <i>8 5/8 (1) @ 200.00 200.00</i>	
Mileage (L) <i>100 @ 2.00 200.00</i>	

CHARGE TO: *Rechie Exploration*

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL *2470.62*

PLUG & FLOAT EQUIPMENT

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.

TOTAL	
SALES TAX (if Any) <i>334.83</i>	
TOTAL CHARGES <i>\$2470.62</i>	
DISCOUNT <i>\$6740.87</i> IF PAID IN 30 DAYS	

PRINTED NAME *Mike Godfrey*

SIGNATURE *Mike Godfrey*

Disc. 1685.22

R

Ritchie Exploration, Inc.

Barngrover No. 1 SE SE NE 2305' FNL & 335' FEL Sec 7 T28S R23W Ford County, Kansas

Geological Report
by
Macklin M. Armstrong
Geologist

Kansas License Number 743316-209-5047

Scale 1:240 Imperial

Well Name: Barngrover No. 1
Surface Location: Sec 7 T28S R23W
Bottom Location: 2305' FNL and 335' FEL
API: 15-057-20824
License Number: 4767
Spud Date: 7/13/2012 Time: 6:30 PM
Region: Ford County, Kansas
Drilling Completed: 7/23/2012 Time: 4:48 AM
Surface Coordinates: 2527.00ft
Ground Elevation: 2515.00ft
K.B. Elevation: 2527.00ft
Logged Interval: 3500.00ft To: 5298.00ft
Total Depth: 2529.00ft
Formation: Pawnee
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Ritchie Exploration, Inc.
Address: P. O. Box 783188
Wichita, Kansas 67278

Contact Geologist: Mike Engelbrecht
Phone Nbr: 316-691-9500
Well Name: Barngrover No. 1
Location: Sec 7 T28S R23W API: 15-057-20824
Pool: Oil Gas
State: Kansas Country: Ford

CONTRACTOR

Contractor: Duke Drilling
Rig #: 1
Rig Type: mud rotary
Spud Date: 7/13/2012 Time: 6:30 PM
TD Date: 7/23/2012 Time: 4:48 AM
Rig Release: 7/24/2012 Time: 1:30 AM

ELEVATIONS

K.B. Elevation: 2527.00ft Ground Elevation: 2515.00ft
K.B. to Ground: 12.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
Well Longitude: 99° 52' 15.824" Latitude: 37° 37' 32.423"
N/S Co-ord:
E/W Co-ord:

NOTES

Date Depth Activity
7-13-12 346 MIRU at 6:30 pm
7-14-12 346 Spud
7-15-12 1616 Drilling
7-16-12 2686 Drilling
7-17-12 3392 Drilling
7-18-12 4080 Drilling
7-19-12 4605 Drilling
7-20-12 4950 TCH for Short Trip
7-21-12 5070 Drilling
7-22-12 5182 CFS for Log
7-23-12 5299 CTS
7-24-12 5299 P & A

Surface Casing: 8 5/8" 23W at 345'
Production Casing: None set

Deviation: 348' 3.4"
859' 1.1"
1833' 1.1"
2401' 1.1"
2939' 1.1"
4886' 1.1"
5299' 1.1"

Bit Record: Make Type Depth In Depth Out Hours
Varel HE-21 348 5210 125
Varel HE-29 5210 5299 4 3/4

Drill Stem Tests:
DST No. 1 4954 to 4986 Formation: Pawnee
Recovery: 10' MCW (20% M, 80% W)
180' W (Chl 75,000 ppm)
IHP 2490 FHP 2422
IFP 24-73 FFP 74-132
ISIP 37 FSP 913
Temp 113°

DST No. 2 5094 to 5162 Formation: Morrow Sand, Mississippi
Recovery: 20' Mud
IHP 2555 FHP 2506
IFP 32-34 FFP 35-59
ISIP 37 FSP 330
Temp 116°

DST No. 3 5163 to 5210 Formation: Mississippi
Recovery: 70' MCW (40% M, 60% W)
120' W (Chl 80,000 ppm)
IHP 2611 FHP 2599
IFP 33-68 FFP 80-117
ISIP 1435 FSP 1338
Temp 115°

Formation	Sample	E-Log	Datum	Well 1	Well 2	Well 3
Anhydrite	1497	1509	+1018	-3	-6	+9
B/Anhydrite	1567	1568	+959	-1	-10	+8
Stotter	3613	3611	-1084	+6	+0	+5
Heebner	4282	4281	-1754	+5	-2	+2
Toronto	4297	4297	-1770	+3	-2	+0
Douglas	4344	4343	-1816	+3	0	+6
Brown Limestone	4410	4409	-1882	+5	0	+9
Lansing	4419	4418	-1891	+4	+1	+4
Muncie Creek	4603	4602	-2075	+8	-1	+2
Stark	4735	4736	-2209	+6	-5	-8
Huck	4779	4780	-2253	+6	-6	-4
B/Kansas City	4825	4826	-2299	+5	-8	-4
Pleasanton	4830	4830	-2303	+8	-9	-10
Marmaton	4884	4884	-2357	+2	-3	-23
Hucknuckey	4894	4894	-2367	+6	-6	-14
Pawnee	4960	4960	-2433	+10	-4	-6
Cherokee Shale	5008	5008	-2479	+11	-3	-7
Huck	5094	5094	-2567	+15	+1	-6
Atoka Sand	5109	5106	-2579	+18	+1	-5
Morrow Sand	5122	5119	-2592	+15	-2	ABS
Mississippi	5144	5142	-2615	+44	-14	-30
Total Depth	5299	5298	-2771			

Reference Well No. 1: Ritchie Exploration, Inc. Zimmerman 7CD No. 1 1605' FSL & 1100' FEL Sec 7 T28S R23W
Reference Well No. 2: Ritchie Exploration, Inc. Barngrover No. 1 906' FNL & 753' FWL Sec 17 T28S R23W
Reference Well No. 3: Ashland Oil & Refining Company Taylor No. 1 C NE SW Sec 6 T28S R23W

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

Chert, dark
Chert, light
Sandy
Silty
Chert White

Ulmst hw-7 shale, grn
shale, grn
shale, red
Carbon Sh
shale

ACCESSORIES

MINERAL: Chert, dark; Chert, light; Sandy; Silty; Chert White

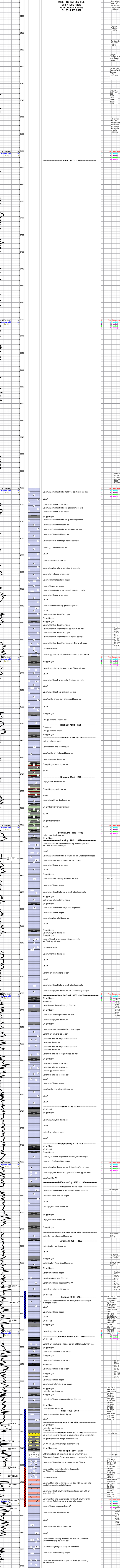
FOSSIL: Grinoids; Fossils < 20%; Colored

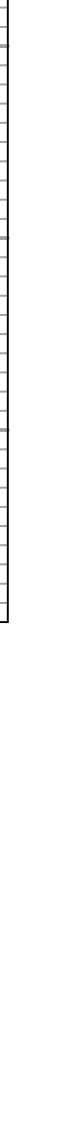
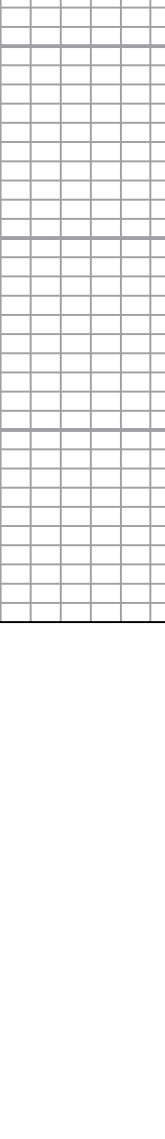
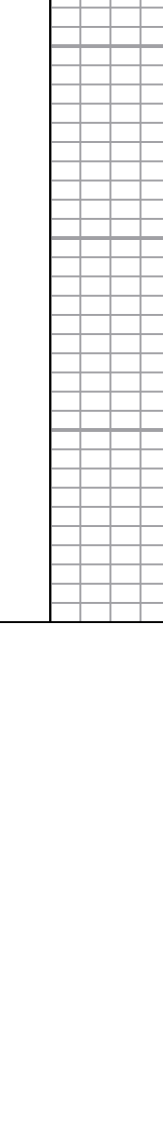
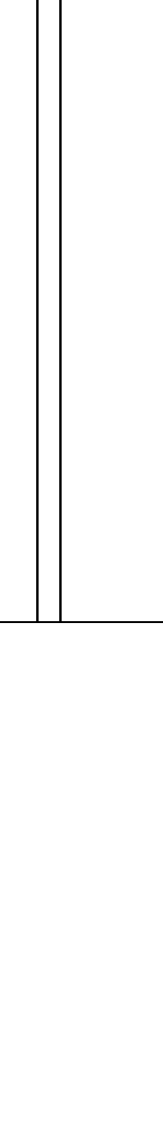
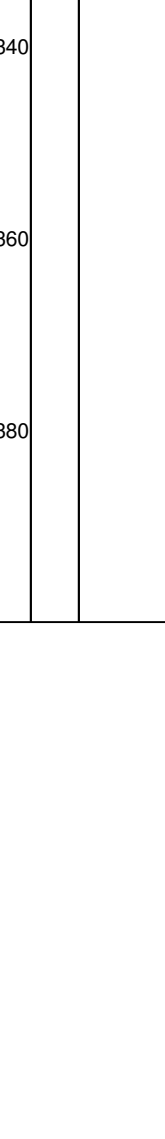
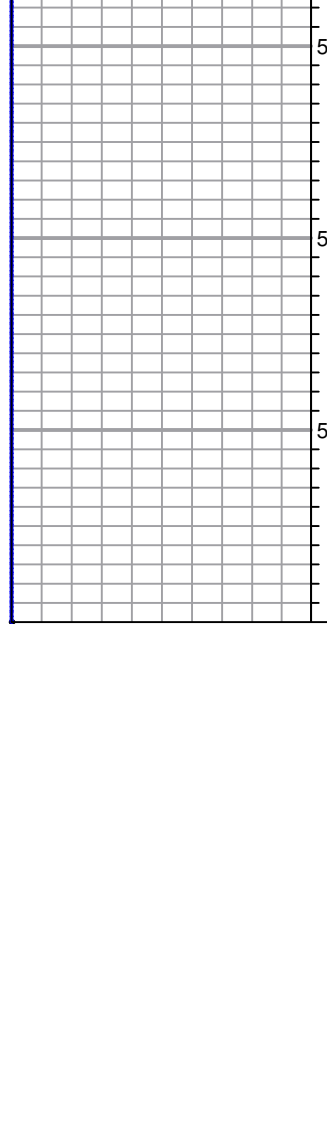
STRINGER: Sandstone

TEXTURE: Chalky

OTHER SYMBOLS

DST: DST Int; DST alt; Core





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 16, 2012

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

Re: ACO1
API 15-057-20824-00-00
Barngrover 1
NE/4 Sec.07-28S-23W
Ford 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