



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1086434
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: _____

1086434

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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TRACY INDUSTRIES
 Consulting Geologist
 P. O. Box 803
 Wichita, Kansas 67201
 316-268-6431

GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

OPERATOR: RITCHE EXPLORATION, INC.
 LEASE: Webber WELL NO. 21AD
 ELEVATION: 2893

FIELD: Archer LOCATION: 2400 S 22 1/2 E 13 S
 COUNTY: Gooss STATE: Kansas

SECTION: 21 TWP: 13S RGE: 31W
 CORNER: Gooss STATE: Kansas

CONTRACT: PLUG & ABANDON D.L.G. CO. RIS-14
 SURFACE: 3-1-3012 COMPT. 4-11-12
 RECORD: 3-1-3012 COMPT. 4-11-12

SPERMION WELL SURV. DATA
 DEPTH TO PERM. 2893 TO 3120 TO BEDS
 GEOLOGICAL SUPERVISOR FROM 3120 TO 3120 TO BEDS
 WELL NO. 3350 THE WELL CHIEF

FORMATION LOG DATA

FORMATION	TOP	BOTTOM	THICKNESS	STRATIGRAPHIC POSITION
Archer	2893	3100	208	1
Higgins	3100	3205	105	2
Lawrence	3205	3210	5	3
Marmaton	3210	3225	15	4
Alton	3225	3230	5	5
Lawrence	3230	3235	5	6
Lawrence	3235	3240	5	7
Lawrence	3240	3245	5	8
Lawrence	3245	3250	5	9
Lawrence	3250	3255	5	10
Lawrence	3255	3260	5	11
Lawrence	3260	3265	5	12
Lawrence	3265	3270	5	13
Lawrence	3270	3275	5	14
Lawrence	3275	3280	5	15
Lawrence	3280	3285	5	16
Lawrence	3285	3290	5	17
Lawrence	3290	3295	5	18
Lawrence	3295	3300	5	19
Lawrence	3300	3305	5	20
Lawrence	3305	3310	5	21
Lawrence	3310	3315	5	22
Lawrence	3315	3320	5	23
Lawrence	3320	3325	5	24
Lawrence	3325	3330	5	25
Lawrence	3330	3335	5	26
Lawrence	3335	3340	5	27
Lawrence	3340	3345	5	28
Lawrence	3345	3350	5	29
Lawrence	3350	3355	5	30
Lawrence	3355	3360	5	31
Lawrence	3360	3365	5	32
Lawrence	3365	3370	5	33
Lawrence	3370	3375	5	34
Lawrence	3375	3380	5	35
Lawrence	3380	3385	5	36
Lawrence	3385	3390	5	37
Lawrence	3390	3395	5	38
Lawrence	3395	3400	5	39
Lawrence	3400	3405	5	40
Lawrence	3405	3410	5	41
Lawrence	3410	3415	5	42
Lawrence	3415	3420	5	43
Lawrence	3420	3425	5	44
Lawrence	3425	3430	5	45
Lawrence	3430	3435	5	46
Lawrence	3435	3440	5	47
Lawrence	3440	3445	5	48
Lawrence	3445	3450	5	49
Lawrence	3450	3455	5	50
Lawrence	3455	3460	5	51
Lawrence	3460	3465	5	52
Lawrence	3465	3470	5	53
Lawrence	3470	3475	5	54
Lawrence	3475	3480	5	55
Lawrence	3480	3485	5	56
Lawrence	3485	3490	5	57
Lawrence	3490	3495	5	58
Lawrence	3495	3500	5	59
Lawrence	3500	3505	5	60
Lawrence	3505	3510	5	61
Lawrence	3510	3515	5	62
Lawrence	3515	3520	5	63
Lawrence	3520	3525	5	64
Lawrence	3525	3530	5	65
Lawrence	3530	3535	5	66
Lawrence	3535	3540	5	67
Lawrence	3540	3545	5	68
Lawrence	3545	3550	5	69
Lawrence	3550	3555	5	70
Lawrence	3555	3560	5	71
Lawrence	3560	3565	5	72
Lawrence	3565	3570	5	73
Lawrence	3570	3575	5	74
Lawrence	3575	3580	5	75
Lawrence	3580	3585	5	76
Lawrence	3585	3590	5	77
Lawrence	3590	3595	5	78
Lawrence	3595	3600	5	79
Lawrence	3600	3605	5	80
Lawrence	3605	3610	5	81
Lawrence	3610	3615	5	82
Lawrence	3615	3620	5	83
Lawrence	3620	3625	5	84
Lawrence	3625	3630	5	85
Lawrence	3630	3635	5	86
Lawrence	3635	3640	5	87
Lawrence	3640	3645	5	88
Lawrence	3645	3650	5	89
Lawrence	3650	3655	5	90
Lawrence	3655	3660	5	91
Lawrence	3660	3665	5	92
Lawrence	3665	3670	5	93
Lawrence	3670	3675	5	94
Lawrence	3675	3680	5	95
Lawrence	3680	3685	5	96
Lawrence	3685	3690	5	97
Lawrence	3690	3695	5	98
Lawrence	3695	3700	5	99
Lawrence	3700	3705	5	100

DEPTH	FORMATION	LOG	STRATIGRAPHIC POSITION	SPERMION WELL SURV. DATA
2385	Archer	2088 (2505)	1	
2405	Archer	2414 (2777)	2	
3500	Archer	2414 (2777)	2	
3600	Archer	2414 (2777)	2	
3700	Archer	2414 (2777)	2	
3800	Archer	2414 (2777)	2	
3900	Archer	2414 (2777)	2	
4000	Archer	2414 (2777)	2	
4100	Archer	2414 (2777)	2	
4200	Archer	2414 (2777)	2	
4300	Archer	2414 (2777)	2	
4400	Archer	2414 (2777)	2	
4500	Archer	2414 (2777)	2	
4600	Archer	2414 (2777)	2	
4700	Archer	2414 (2777)	2	

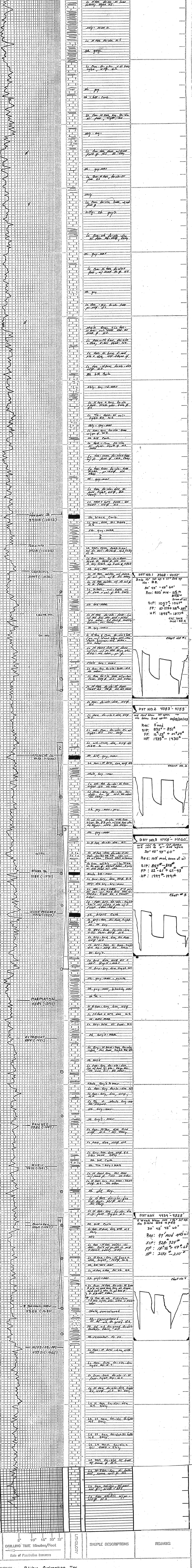
DRILL STEM TESTS

No.	Interval	Depth	Pressure	Flow	Remarks
1	2385-2405	2395	1057	1067	820' mud
2	3500-3600	3550	1057	1067	820' mud
3	3600-3700	3650	1057	1067	820' mud
4	3700-3800	3750	1057	1067	820' mud
5	3800-3900	3850	1057	1067	820' mud
6	3900-4000	3950	1057	1067	820' mud
7	4000-4100	4050	1057	1067	820' mud
8	4100-4200	4150	1057	1067	820' mud
9	4200-4300	4250	1057	1067	820' mud
10	4300-4400	4350	1057	1067	820' mud
11	4400-4500	4450	1057	1067	820' mud
12	4500-4600	4550	1057	1067	820' mud
13	4600-4700	4650	1057	1067	820' mud

LEGEND

[Symbol]	Anhydrite
[Symbol]	Soft
[Symbol]	Sandstone
[Symbol]	Shale
[Symbol]	Carb
[Symbol]	Limestone
[Symbol]	Oil. Linn
[Symbol]	Chert
[Symbol]	Dolomite

SCALE 1" = 100'



COMPANY: Ritchie Exploration, Inc. LEASE: No. 1, Webber 21AD Unit ELEVATION: 2893 K.B.
 LOCATION: 2400 S 22 1/2 E 13 S RING 31W
 COUNTY: Gooss STATE: Kansas



#1 Weber 21AD Unit
 2460' FSL & 2265' FEL
 150' N & 45' E of NW NW SE Section 21-13S-31W
 Gove County, Kansas
 API# 15-063-21974-0000
 Elevation: 2883' GL, 2893' KB

Sample Tops			Ref. Well
Anhydrite	2388'	+505	-6
B/Anhydrite	2414'	+479	-9
Heebner	3905'	-1012	-5
Toronto	3929'	-1036	-6
Lansing	3949'	-1056	-6
LKC "C"	3982'	-1089	-5
Muncie Shale	4093'	-1200	-6
LKC "H"	4111'	-1218	-6
Stark Shale	4184'	-1291	-8
Hush. Shale	4216'	-1323	-8
BKC	4249'	-1356	-8
Marmaton	4284'	-1391	-7
Altamont	4314'	-1421	-9
Pawnee	4382'	-1489	-11
Myrick	4414'	-1521	-6
Fort Scott	4434'	-1541	-6
Cherokee Shale	4460'	-1567	-7
Johnson	4507'	-1614	-12
B/Johnson	4524'	-1631	-12
Mississippian	4545'	-1662	-19
RTD	4680'	-1787	

ALLIED CEMENTING CO., LLC. 035355

Federal Tax I.D.# 20-5976804

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

WEBER 21 AS UNIT 1

SERVICE POINT: Dokley, KS

DATE <u>3/2/12</u>	SEC <u>21</u>	TWP. <u>13</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>8:20</u>	JOB FINISH <u>2:00</u>
WEBER UNIT LEASE <u>21 A0</u>	WELL# <u>1</u>	LOCATION <u>Dokley 11 S 5 E 3 1/2 SW 1/4</u>				COUNTY <u>Lawrence</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR Mun Fin 14
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 216'
 CASING SIZE 8 7/8 DEPTH 216'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MBAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 1208037

OWNER Sama
 CEMENT
 AMOUNT ORDERED 175 SKs Com 370 CC
270 gal

COMMON	<u>175</u>	@	<u>16.25</u>	<u>2843.75</u>
POZMIX		@		
GBL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@	<u>58.00</u>	<u>348.00</u>
ASC		@		

EQUIPMENT
 PUMP TRUCK CEMENTER Alan
 # 422 HELPER Wayne
 BULK TRUCK
 # 347 DRIVER Chris
 BULK TRUCK
 # DRIVER

HANDLING	<u>189 SK</u>	@	<u>2.15</u>	<u>404.85</u>
MILBAGE	<u>11 SK/mile</u>			<u>904.85</u>
TOTAL				<u>4075.20</u>

REMARKS:
In Coy, disposable mix cement, Displace cement.

Cement did circulate
Thank you Alan, Wayne, Chris

CHARGE TO: Ritchie Exploration
 STREET
 CITY STATE ZIP

SERVICE
 DEPTH OF JOB 216'
 PUMP TRUCK CHARGE 1125.00
 EXTRA FOOTAGE @
 MILBAGE 20 miles @ 7.00 140.00
 MANIFOLD 20 miles @ 4.00 80.00
 TOTAL 1345.00

PLUG & FLOAT EQUIPMENT
 @
 @
 @
 @
 @
 TOTAL

To Allied Cementing Co., 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 Greg Chrusch
 SIGNATURE Greg Chrusch

SALES TAX (If Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS

DR

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 03, 2012

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

Re: ACO1
API 15-063-21974-00-00
Weber 21AD Unit 1
SE/4 Sec.21-13S-31W
Gove 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