



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1140770  
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: \_\_\_\_\_



1140770

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  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				

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**#1 Derstein 8D**

2305' FSL & 1860' FEL

5' S & 120' E of N/2 NW SE Section 8-28S-22W

Ford County, Kansas

API# 15-057-20875-00-00

Elevation: 2412' GL, 2424' KB

Sample Tops			Ref. Well
Anhydrite	1418'	+1006	-15
B/Anhydrite	1469'	+955	-21
Stotler	3557'	-1133	-30
Heebner	4214'	-1790	-31
Lansing	4356'	-1932	-33
Muncie Shale	4543'	-2119	-36
Stark Shale	4682'	-2258	-37
Hush.	4722'	-2298	-35
BKC	4756'	-2332	-29
Marmaton	4809'	-2385	-30
Pawnee	4881'	-2457	-28
Cherokee	4928'	-2504	-30
Huck	5009'	-2585	-28
Atoka	5018'	-2594	-29
Mississippian	5039'	-2615	-28
RTD	5230'	-2806	

# ALLIED OIL & GAS SERVICES, LLC 059245

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Granbury, TX

Derstein 80-1

DATE <u>2-2-13</u>	SEC. <u>46</u>	TWP. <u>28S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>7:15 AM</u>	JOB FINISH <u>7:30 AM</u>
LEASE # <u>412</u>	WELL # <u>1</u>	LOCATION <u>Fald, KS Ls. Elard</u>			COUNTY <u>Fald</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)						<u>1.01</u>	<u>7.95</u>

CONTRACTOR Duke Drilling #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. \_\_\_\_\_

CASING SIZE 5 5/8 DEPTH 395.43

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 1507

PERFS. \_\_\_\_\_

DISPLACEMENT 2 1/4 42 bbls Freshwater

EQUIPMENT \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 240 SKS Class A

342cc 249 gal

COMMON	<u>240</u>	@ <u>17.90</u>	<u>4,296.00</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>260.31</u>	@ <u>2.48</u>	<u>645.56</u>
MILEAGE	<u>11.86 x 45 x</u>	@ <u>2.60</u>	<u>1,388.55</u>
			<b>TOTAL <u>7,023.11</u></b>

PUMP TRUCK CEMENTER Theresa Chambers 1

# 204 HELPER Travis Hall 2

BULK TRUCK # 681-112 DRIVER Kayla Weighman 3

BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

Back circulation with big mud pump bbls freshwater ahead

1 bag 240 SKS class A 342cc 2-pipe

Displace 2 1/4 42 bbls freshwater

Lease Old 42 gal

plug Down 1:15 AM

1 bag Down

SERVICE

DEPTH OF JOB 398

PUMP TRUCK CHARGE 1512.35

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE Hum 45 @ 7.70 346.50

MANIFOLD Hum 45 @ 4.90 198.00

TOTAL 2,056.75

CHARGE TO: Roche Exploration

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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 Cochran

SIGNATURE Mike Cochran

Thank You!!

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

SALES TAX (if Any) 396.62

TOTAL CHARGES 9,079.86

DISCOUNT 1,815.98 IF PAID IN 30 DAYS

7,263.88

# ALLIED OIL & GAS SERVICES, LLC 059246

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Garrett Area, TX

DATE <u>2-2-13</u>	SEC. <u>4</u>	TWP. <u>28S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00</u>	JOB FINISH <u>4:06 PM</u>
LEASE <u>Derstein</u>	WELL # <u>1</u>	LOCATION <u>Card 13 E 100</u>			COUNTY <u>Ford</u>	STATE <u>TX</u>	
OLD OR (NEW) (Circle one) <u>NEW</u>						<u>1.01</u>	<u>7.95</u>

CONTRACTOR Duke Drilling

TYPE OF JOB 1" surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 4 1/2 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT None

OWNER

CEMENT AMOUNT ORDERED 150 yds Class A

3% CC

COMMON	<u>150</u>	@ <u>17.90</u>	<u>2,685.00</u>
POZMIX		@	
GEL		@	
CHLORIDE	<u>5</u>	@ <u>64.00</u>	<u>320.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>157.5</u>	@ <u>2.48</u>	<u>390.00</u>
MILEAGE	<u>7.26 x 45x</u>	<u>2.60</u>	<u>849.72</u>
TOTAL			<u>4,245.02</u>

EQUIPMENT

PUMP TRUCK CEMENTER Dustin Chambers

# 224 HELPER Tina Hall

BULK TRUCK

# 629-112 DRIVER Kevin Welford

BULK TRUCK

# DRIVER

REMARKS:

Had to 1" surface

Mix 150 yds Class A 3% CC

Cement did cure fine

Shut down 4 in x 12 20 MIN

Cement didn't fall Big Taper

Well we washed up and left

CHARGE TO: Birchie Exploration

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 300

PUMP TRUCK CHARGE 850.00

EXTRA FOOTAGE @

MILEAGE 45 @ 7.70 346.50

MANIFOLD @

45 @ 4.40 198.00

TOTAL 1,394.50

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.

PRINTED NAME X [Signature]

SIGNATURE X

Thank you !!

SALES TAX (If Any) 238.89

TOTAL CHARGES 5,639.52

DISCOUNT 1,127.20 IF PAID IN 30 DAYS

4,511.61

*Derstein  
8-D-1*

# ALLIED OIL & GAS SERVICES, LLC 059287

Federal Tax I.D.# 20-5976304

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

SERVICE POINT:  
Great Bend, KS

DATE <u>2-12-13</u>	SEC <u>9</u>	TWP. <u>28</u>	RANGE <u>22</u>	CALLED OUT <u>5:00 PM</u>	ON LOCATION <u>7:30 PM</u>	JOB START <u>8:30 AM</u>	JOB FINISH <u>12:30 PM</u>
LEASE <u>Derstein</u>	WELL # <u>1-8-D</u>	LOCATION <u>Ford, 1 South, East into location</u>			COUNTY <u>Ford</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR Duke 1  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8" T.D. 5233 FT  
 CASING SIZE 8 5/8" 23 DEPTH 3945 ft  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2" 16.60 DEPTH 1470 ft  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT Fresh water  
 EQUIPMENT  
 PUMP TRUCK CEMENTER Charles Kirkins 1  
 # 398 HELPER Josh Isaac "  
 BULK TRUCK  
 # 604/112 DRIVER Joel Monahan 2  
 BULK TRUCK  
 # DRIVER

OWNER Ritchie  
 CEMENT  
 AMOUNT ORDERED 12056 60/40 14% Cnd  
125 7/8 Flo-Seal  
 COMMON 102 @ 17.90 1,825.80  
 POZMIX 68 @ 9.35 635.80  
 GEL 6 @ 23.40 140.80  
 CHLORIDE @  
 ASC @  
Flo Seal 43 @ 2.97 127.21  
 HANDLING 182.00 @ 2.48 453.99  
 MILEAGE 7.63 x 45x 2.60 892.25  
 TOTAL 4,075.21

REMARKS:  
Set Plug 1 @ 1470 ft; 6 FW, 12.5 cm, 10 FW (505)  
Set Plug 2 @ 450 ft; 6 FW, 12.5 cm, 2 FW (505)  
Set Plug 3 @ 60 ft; 5 cm (205)  
Plug Race Hole with 7.5 cm (305)  
Plug Race Hole with 5 cm (205)

SERVICE  
 DEPTH OF JOB  
 PUMP TRUCK CHARGE 2249.84  
 EXTRA FOOTAGE @  
 MILEAGE Hum 45 @ 7.70 346.50  
 MANIFOLD @  
Hum 45 @ 4.40 198.00  
 TOTAL 2,794.34

CHARGE TO: Ritchie  
 STREET  
 CITY STATE ZIP

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

PLUG & FLOAT EQUIPMENT  
 @  
 @  
 @  
 @  
 @  
 TOTAL  
 SALES TAX (If Any) 546.18  
 TOTAL CHARGES 6,870.35  
 DISCOUNT 1,374.05 IF PAID IN 30 DAYS  
5,496.20

**Ritchie Exploration, Inc.  
Derstein 8D No. 1  
2305' FSL and 1860' FEL  
5' S and 120' E of N2 NW SE  
Sec 8 T28S R22W  
Ford County, Kansas**

**Geological Report  
by**

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

Scale 1:240 Imperial

Well Name:	Derstein 8D No. 1	
Surface Location:	Sec 8 T28S R22W	
Bottom Location:	2305' FSL and 1860' FEL	
License Number:	API: 15-057-20857	
Spud Date:	4767	Time: 9:00 PM
Region:	2/1/2013	Time: 9:00 PM
Drilling Completed:	Ford County, Kansas	
Surface Coordinates:	2/12/2013	Time: 2:48 AM
Bottom Hole Coordinates:		
Ground Elevation:	2412.00ft	
K.B. Elevation:	2424.00ft	
Logged Interval:	3400.00ft	To: 5234.00ft
Total Depth:	5230.00ft	
Formation:	Mississippi	
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:	Derstein 8D No. 1	
Location:	Sec 8 T28S R22W	API: 15-057-20857
Pool:	Gas, Oil	Field:
State:	Kansas	Country:

**CONTRACTOR**

Contractor:	Duke Drilling	
Rig #:	1	
Rig Type:	mud rotary	Time: 9:00 PM
Spud Date:	2/1/2013	Time: 2:48 AM
TD Date:	2/12/2013	Time: 10:15 PM
Rig Release:	2/12/2013	

**ELEVATIONS**

K.B. Elevation:	2424.00ft	Ground Elevation:	2412.00ft
K.B. to Ground:	12.00ft		

**SURFACE CO-ORDINATES**

Well Type:	Vertical		
Longitude:	99° 44' 47.429"	Latitude:	37° 37' 21.033"
N/S Co-ord:			
E/W Co-ord:			

**NOTES**

Date	Depth at 7am	Activity
2-01-13	MIRU	Spud at 9:00 pm
2-02-13	336	WOC
2-03-13	830	Drilling
2-04-13	2090	Drilling
2-05-13	2887	Drilling
2-06-13	3500	Drilling
2-07-13	4174	Drilling
2-08-13	4590	Drilling
2-09-13	4950	Drilling
2-10-13	5065	TIH after DST No. 1
2-11-13	5138	CFS
2-12-13	5230	TOH for Log
2-13-13	5230	P & A

Surface Casing: 8 5/8" 23# at 396'  
Production Casing: None set

Deviation: 370' - 1°, 1177' - 1°, 1714' - 1°, 2245' - 1°, 2750' - 1°, 3410' - 1°, 4985' - 1°, 5147' - 1°, 5230' - 1°

Bit Record: Make	Size	Type	Depth In	Depth Out	Hours
Varel	7 7/8	HE-21	396	5065	130 1/4
Varel	7 7/8	HE-21	5065	5230	6 3/4

Drill Stem Tests:

DST No. 1 5015 to 5065 Formation: Mississippi  
30-45-45-60  
2nd Open: GTS in 2" Gauged 7.63 MCFD in 5", 6.89 MCFD in 10", 6.51 MCFD in 15", 5.76 MCFD in 20"  
Recovery: 150' GM (5%G, 95%M)  
IHP 2435 FHP 2406  
IFP 30-74 FFP 67-77  
ISIP 1366 FSIP 1493  
Temp 125°

DST No. 2 5065 to 5085 Formation: Mississippi  
30-60-45-60  
2nd Open: GTS in 30" TSTM  
Recovery: 25' WM (2%W, 98%M)  
IHP 2420 FHP 2408  
IFP 10-15 FFP 13-16  
ISIP 1439 FSIP 1429  
Temp 120°

DST No. 3 5086 to 5160 Formation: Mississippi  
30-45-45-60  
Recovery: 120' WM (20%W, 80%M)  
180' MW (40%M, 60%W) - Chl 85,000 ppm  
IHP 2486 FHP 2430  
IFP 31-115 FFP 128-229  
ISIP 1435 FSIP 1414  
Temp 120°

Formation	Sample	E-Log	Datum	Well 1	Well 2	Well 3
Anhydrite		1408	+1016	-5	-7	+6
B/Anhydrite		1450	+974	-2	-1	+5
Stotter	3553	3550	-1126	-23	-5	+9
Heebner	4210	4216	-1792	-32	-5	+4
Toronto	4233	4235	-1811	-33	-7	+3
Douglas	4296	4299	-1875	-33	-6	+2
Brown Lime	4346	4349	-1925	-34	-3	+3
Lansing	4354	4357	-1933	-34	-2	+2
Muncie Creek	4537	4540	-2116	-33	+5	0
Stark	4682	4684	-2260	-39	+7	+5
Hushpuckney	4722	4724	-2300	-37	+9	+7
Eric Kansas City	4760	4763	-2339	-36	+6	+1
Marmaton	4805	4807	-2383	-28	+30	+23
Pawnee	4882	4885	-2461	-32	+14	+12
Cherokee Shale	4928	4932	-2508	-34	+17	+22
Huck	4996	4999	-2575	-18	+16	+34
Atoka Shale	5006	5009	-2585	-20	+24	+32
Mississippi	5039	5045	-2621	-34	+35	+19
Total Depth	5230	5234	-2810			

Reference Well No. 1: Ritchie Exploration, Inc. Lamb-Lance No. 1 750' FNL and 2250' FEL Sec 8 T28S R22W  
Reference Well No. 2: Ritchie Exploration, Inc. Derstein 17A No. 1 1925' FNL and 1730' FEL Sec 17 T28S R22W  
Reference Well No. 3: Ritchie Exploration, Inc. Maupin-Fisher No. 1 2690' FNL and 2130' FEL Sec 9 T28S R22W

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**

Legend: Lmst fw7> shale, gry Carbon Sh

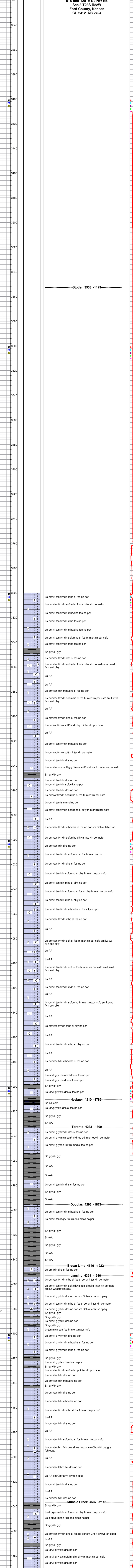
**ACCESSORIES**

MINERAL: Chert, dark; Varicolored chert; Chert White  
FOSSIL: F Fossils <20%; Oolite  
TEXTURE: C Chalky

**OTHER SYMBOLS**

DST: DST Int; DST all; Core

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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

May 21, 2013

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

Re: ACO1  
API 15-057-20875-00-00  
Derstein 8D 1  
SE/4 Sec.08-28S-22W  
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