

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1240607  
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: \_\_\_\_\_

1240607

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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**WELL INFORMATION**

Company:	RITCHIE EXP. INC.		
Address:	P.O. BOX 783188		
	WICHITA, KS 67278		
Well Name:	#1 ZERR 8C		
Location:	450' FSL, 1705' FWL		
	SEC. 8-T11S-R28W		
	GOVE COUNTY, KS		
API:	15-063-22224		
Field:	WILDCAT		
K. B. Elevation:	2799	Rotary Depth:	4600
Ground Elevation:	2791	Log Depth:	4600
Spud Date:	10/09/2014	Drilling Completed:	10/17/2014
Completion:	D&A		
Surface Casing:	8 5/8" SET AT 263'	Production Casing:	NONE
Formation at TD:	MISSISSIPPIAN		
Drilling Fluid Type:	CHEMICAL		
Rig Contractor:	DISCOVERY RIG #1		
Logger:	NABORS	Logs Run:	DI & CND
Wellsite Geologist:	LARRY P. FRIEND		

**FORMATION DEPTHS**

FORMATIONS	SAMPLE (Corrected)	LOG	COMPARED TO: CINCO EXP. CO. #1 HARTMAN (2/1983) SE NW, SEC 5-T11S-28W
ANHYDRITE	2333 (+466)	2334 (+465)	+11
BASE	2369 (+430)	2368 (+431)	+12
STOTLER	3523 (-724)	3522 (-723)	+2
HEEBNER SHALE	3875 (-1076)	3875 (-1076)	+5
TORONTO	3894 (-1095)	3894 (-1095)	+14
LANSING	3903 (-1104)	3904 (-1105)	+8
MUNCIE CREEK SH.	4041 (-1242)	4042 (-1243)	+2
STARSH SHALE	4119 (-1320)	4119 (-1320)	+4
HUSHPUCKNEY SH.	4143 (-1344)	4142 (-1343)	+6
BS. KANSAS CITY	4170 (-1371)	4170 (-1371)	+5
MARMATON	4184 (-1385)	4184 (-1385)	+7
"PAWNEE"	4287 (-1488)	4288 (-1489)	+6
"MYRICK STATION"	4323 (-1524)	4321 (-1522)	+16
"FT. SCOTT"	4376 (-1577)	4374 (-1575)	+12
"CHEROKEE"	4404 (-1605)	4402 (-1603)	+10
MISSISSIPPIAN	4457 (-1658)	4463 (-1664)	+2

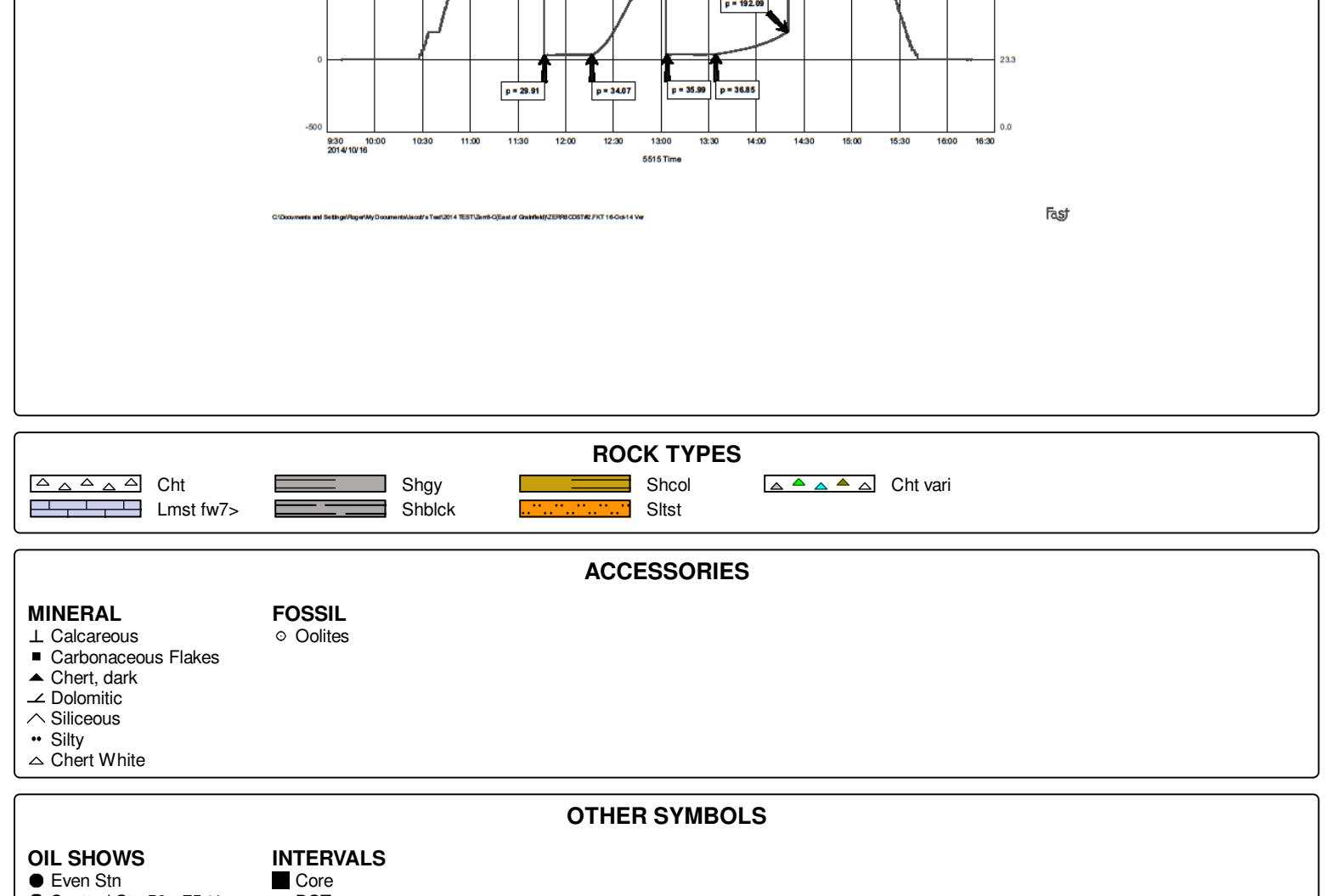
**NOTES**

DUE TO NEGATIVE DST RESULTS IT WAS DECIDED TO PLUG AND ABANDON THE #1 ZERR 8C.  
LARRY P. FRIEND

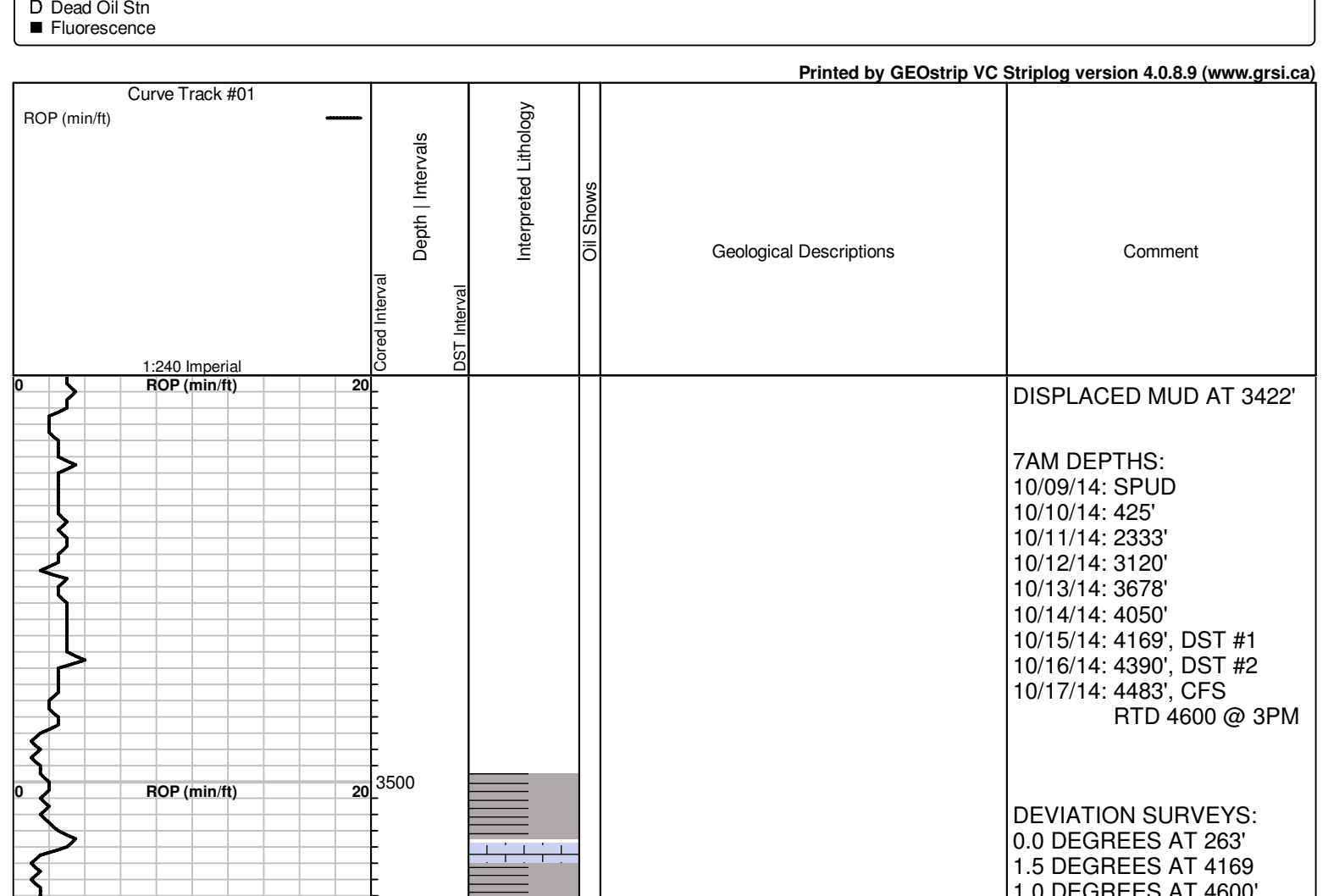
**DRILLSTEM TESTS**

No	Interval	Formation
1	4068 - 4169	KC: "I, J, K, L"
2	4290 - 4390	MYRICK + FT. SCOTT

**Image Header 01**



**Image Header 02**



**ROCK TYPES**

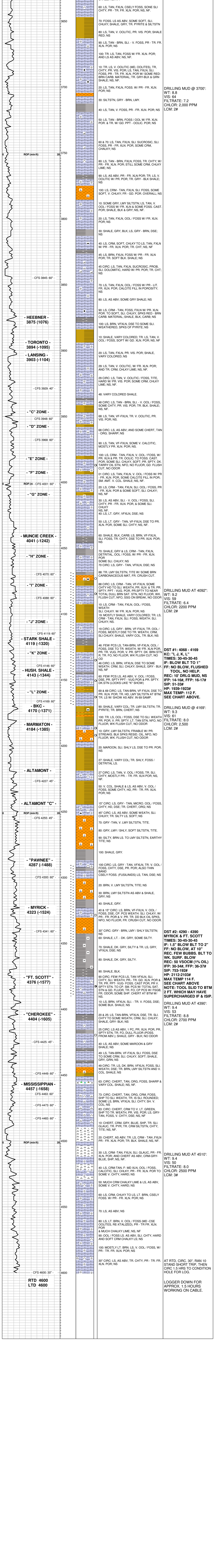
Chl	Shly	Shst	Chl vari
Lmst fw7-	Shblk	Slst	

**ACCESSORIES**

<b>MINERAL</b>	<b>FOSSIL</b>
<ul style="list-style-type: none"> <li>Carbonaceous Flakes</li> <li>Chert, dark</li> <li>Dolomitic</li> <li>Siliceous</li> <li>Silty</li> <li>Chert White</li> </ul>	<ul style="list-style-type: none"> <li>Chert</li> <li>Chert</li> </ul>

**OTHER SYMBOLS**

<b>OIL SHOWS</b>	<b>INTERVALS</b>
<ul style="list-style-type: none"> <li>Even Stn</li> <li>Spotted Stn 50 - 75 %</li> <li>Spotted Stn 25 - 50 %</li> <li>Spotted Stn 1 - 25 %</li> <li>Questionable Stn</li> <li>Dead Oil Stn</li> <li>Fluorescence</li> </ul>	<ul style="list-style-type: none"> <li>Core</li> <li>DST</li> </ul>



Printed by GEOstrip VPC Striplog version 4.0.8.9 (www.gstri.com)



**#1 Zerr 8C**

450' FSL & 1705' FWL

115' N & 55' E of SW SE SW Section 8-11S-28W

Gove County, Kansas

API# 15-063-22224-0000

Elevation: GL: 2791', KB: 2799'

Sample Tops			Ref. Well
Anhydrite	2333'	+466	+12
B/Anhydrite	2369'	+430	+11
Stotler	3523'	-724	+1
Heebner	3875'	-1076	+5
Lansing	3910'	-1111	+8
Muncie Shale	4041'	-1242	+3
Stark Shale	4119'	-1320	+4
Hush	4143'	-1344	+5
Marmaton	4180'	-1381	+11
Altamont	4219'	-1420	+8
Pawnee	4287'	-1488	+7
Myrick	4329'	-1530	+8
Fort Scott	4376'	-1577	+10
Cherokee Shale	4404'	-1605	+8
Mississippian	4457'	-1658	+8
RTD	4600'	-1801	



Zerr 8C1

# ALLIED OIL & GAS SERVICES, LLC 064264

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Oakley

DATE <u>10-9-14</u>	SEC <u>8</u>	TWP. <u>11</u>	RANGE <u>28</u>	CALLED OUT	ON LOCATION <u>3:30 PM</u>	JOB START <u>3:30 PM</u>	JOB FINISH <u>9:00 AM</u>
LEASE <u>Zerr 8C</u>	WELL# <u>1</u>	LOCATION <u>Grain Field E side 3/4s</u>		JOB START <u>GORE</u>		JOB FINISH <u>STATE ROAD</u>	
OLD OR NEW (Circle one)		E. into					

CONTRACTOR Discovery #1 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 263' CEMENT

CASING SIZE 8 5/8 DEPTH 262.93' AMOUNT ORDERED 200 sls com 3%cc 2nd Time

TUBING SIZE DEPTH 200 sls com 3%cc 1st Time

DRILL PIPE DEPTH used 150 sls 3rd Time

TOOL DEPTH

PRES. MAX MINIMUM COMMON 535 sls @ 17.90 9576.150

MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. 15' GEL 340# @ 1.50 178.50

PERFS. CHLORIDE 1508# @ 1.10 1658.80

DISPLACEMENT 151.79 ASC @

EQUIPMENT Flo Seal 75# @ 2.97 222.75

PUMP TRUCK CEMENTER Andrew Forstner

# 431 HELPER Brandon Wilkinson Material total @ 116.31.15

BULK TRUCK DRIVER Chris (TWS)

# 323 DRIVER Chris (TWS)

BULK TRUCK DRIVER Chris (TWS)

# 818 HANDLING 6.2617 cu/ft @ 2.48 1554.21

MILEAGE 2.25 mi/mile 28.54701 1569.70

TOTAL

REMARKS:

no circulation when started to mix cement  
mix cement and displace 100% lift pressure  
no circulation, cement did not circulate  
mix 200 sls com 3%cc from top, did  
not fill up.  
Fill to surface with 150 sls com  
3%cc with Flo Seal.

Thank you

CHARGE TO: Ritchie Exploration

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 262.93'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE 20 miles @ 7.70 154.00

MANFOLD @

Light vehicle @ 4.40 88.00

( 915.63 / 20% ) TOTAL 4,878.16

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

SALES TAX (if Any)

TOTAL CHARGES 16,509.71

DISCOUNT 3,301.94 (20%) PAID IN 30 DAYS

13,207.76 Net

PRINTED NAME

SIGNATURE [Signature]

185  
200  
150  
535 BX  
TOW  
Used



ZERR 8C1  
**ALLIED OIL & GAS SERVICES, LLC** 064291  
 Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Oakley, KS

DATE <u>10-18-14</u>	SEC <u>8</u>	TWP. <u>11</u>	RANGE <u>28</u>	CALLED OUT	ON LOCATION <u>6:15 am</u>	JOB START <u>8:45 am</u>	JOB FINISH <u>9:45 am</u>
LEASE <u>Zerr 8C</u>	WELL # <u>1</u>	LOCATION <u>Granfield</u>			COUNTY <u>Boone</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Discovery  
 TYPE OF JOB PTA  
 HOLE SIZE 4 7/8 T.D. 4300'  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 2350'  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 5 bbl 100, 21.31 bbl mud  
 EQUIPMENT \_\_\_\_\_

OWNER Same  
 CEMENT AMOUNT ORDERED 255 sks Lite  
60/40 4 1/2 gel 1/4 # Florseal  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
Lite 255 sks @ 18.92 4824.60  
Florseal 64 # @ 2.97 190.08  
Majors 1616 @ \_\_\_\_\_ 5011.68  
(1652.94 / 10570) @ \_\_\_\_\_  
 HANDLING 273.87 @ 2.48 679.20  
 MILEAGE 11.44 hrs x 20 mph x 2.75 629.20  
 TOTAL \_\_\_\_\_

PUMP TRUCK CEMENTER Paul Beaver  
 # 422 HELPER Tyler Elyse / Brandon Wilkinson  
 BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_  
 BULK TRUCK # 818287 DRIVER KIKO (Tax)

REMARKS:  
Mix 50 sks @ 2350', Displace w/ mud  
Mix 100 sks @ 1395', Displace w/ water  
Mix 50 sks @ 313', mix 10 sks @ 40'  
Mix 30 sks in R.H., mix 15 sks in A  
Thank You Paul + Crew

SERVICE  
 DEPTH OF JOB 2350'  
 PUMP TRUCK CHARGE 2483.59  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE MILV 20 @ 7.70 154.00  
 MANIFOLD @ \_\_\_\_\_  
MILV 20 @ 4.40 88.00  
 TOTAL \_\_\_\_\_

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

(806.71/200) TOTAL 4633.99

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.

PLUG & FLOAT EQUIPMENT  
8 1/2" wooden plug @ \_\_\_\_\_ 110.00  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 TOTAL 110.00

PRINTED NAME \_\_\_\_\_  
 SIGNATURE [Signature]

SALES TAX (if Any) \_\_\_\_\_  
 TOTAL CHARGES 7,158.67  
 DISCOUNT 1,809.13 (20%) IF PAID IN 30 DAYS  
7,348.93 Net.

