

ORIGINAL

12/16/13

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5135  
Name: John O. Farmer, Inc.  
Address 1: P.O. Box 352  
Address 2:  
City: Russell State: KS Zip: 67665 + 0 3 5 2  
Contact Person: Marge Schulte  
Phone: ( 785 ) 483-3145, Ext. 214  
CONTRACTOR: License # 33575  
Name: Discovery Drilling Company, Inc.  
Wellsite Geologist: Robert Stolze  
Purchaser: NCRA

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  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #:  
 ENHR Permit #:  
 GSW Permit #:

8-23-11 8-29-11 9-16-11  
 Spud Date or Recompletion Date  Date Reached TD  Completion Date or Recompletion Date

API No. 15 - 15-135-25,290-00-00  
Spot Description:  
S/2 NW SW NW Sec. 2 Twp. 17 S. R. 25 East  West  
~~4720~~ 1737 Feet from  North /  South Line of Section  
~~230~~ 363 Feet from  East /  West Line of Section  
GPS-KCC  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ness  
Lease Name: Mishler "D" Well #: #2  
Field Name: Prairie Chapel  
Producing Formation: Mississippi  
Elevation: Ground: 2522' Kelly Bushing: 2530'  
Total Depth: 4570' Plug Back Total Depth: 4538'  
Amount of Surface Pipe Set and Cemented at: 232 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: Port Collar @ 1890 Feet  
If Alternate II completion, cement circulated from: 1890  
feet depth to: surface w/ 155 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 16,000 ppm Fluid volume: 320 bbls  
Dewatering method used: evaporation  
Location of fluid disposal:  
Operator Name: **CONFIDENTIAL**  
Lease Name: **DEC 16 2013** License #:  
Quarter Sec. Twp. **KCC** S. R. East West  
County: Permit #:

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**KCC WICHITA**

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 1074 - Office Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: John O. Farmer III  
Title: John O. Farmer III, President Date: 12-14-11

KCC Office Use ONLY  
 Letter of Confidentiality Received  
Date: 12.16.11 - 12.16.13  
 Confidential Release Date:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NS Date: 12-28-11

Operator Name: John O. Farmer, Inc. Lease Name: Mishler "D" Well #: #2  
 Sec. 2 Twp. 17 S. R. 25  East  West County: Ness

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction Log, Compensated Density Neutron Log, Micro Resistivity Log, Cement Bond Log</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1882'</td> <td>(+648)</td> </tr> <tr> <td>Heebner</td> <td>3851'</td> <td>(-1321)</td> </tr> <tr> <td>Lansing</td> <td>3889'</td> <td>(-1359)</td> </tr> <tr> <td>Pawnee</td> <td>4316'</td> <td>(-1786)</td> </tr> <tr> <td>Fort Scott</td> <td>4390'</td> <td>(-1860)</td> </tr> <tr> <td>Cherokee Shale</td> <td>4415'</td> <td>(-1885)</td> </tr> <tr> <td>Mississippi</td> <td>4486'</td> <td>(-1956)</td> </tr> </table>	Name	Top	Datum	Anhydrite	1882'	(+648)	Heebner	3851'	(-1321)	Lansing	3889'	(-1359)	Pawnee	4316'	(-1786)	Fort Scott	4390'	(-1860)	Cherokee Shale	4415'	(-1885)	Mississippi	4486'	(-1956)
Name	Top	Datum																							
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CASING RECORD <input checked="" 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
Surface	12-1/4"	8-5/8"	23#	232'	Common	150	3% C.C., 2% gel
Production	7-7/8"	5-1/2"	14#	4568'	EA-2	125	
Port Collar				1890'	Q-MDC	155	

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPF	4485-96' (Mississippi)	1850 gals. 15% NE & 1500 gals. 15% FE NE	

TUBING RECORD: Size: <u>2-7/8"</u> Set At: <u>4534'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>9-20-11</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>14.00</u>	Gas Mcf _____ Water Bbls. <u>16.00</u> Gas-Oil Ratio _____ Gravity <u>38.7°</u>

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 checked="" 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 (Specify) _____	PRODUCTION INTERVAL: <u>4485-96'</u>
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# Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

## DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548  
P.O. Box 352 PO Box 763  
Russekk, KS 67665 Hays, KS 67601

Lease: Mishler "D" # 2 Location: S/2/NW/SW/NW  
Section 2/17S/25W  
Russell Co., KS

Loggers Total Depth: 4572' API#15- 135-25,290-00-00  
Rotary Total Depth: 4570' Elevation: 2522 GI / 2530 KB  
Commenced: 8/23/2011 Completed: 8/30/2011  
Casing: 8 5/8" @ 232.24'W/150sks Status: Oilwell  
5 1/2" @ 4568.37'W/125sks  
Port Collar @ 1890'

### DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1915'</u>
Dakota Sand	<u>1109'</u>	Shale & Lime	<u>2425'</u>
Shale	<u>1164'</u>	Shale	<u>2725'</u>
Cedar Hill Sand	<u>1348'</u>	Shale & Lime	<u>3187'</u>
Red Bed Shale	<u>1613'</u>	Lime & Shale	<u>3988'</u>
Anhydrite	<u>1886'</u>	RTD	<u>4570'</u>
Base Anhydrite	<u>1915'</u>		

STATE OF KANSAS )  
) ss  
COUNTY OF ELLIS )

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

\_\_\_\_\_  
Thomas H. Alm

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Subscribed and sworn to before me on 9-1-11

My Commission expires: 6-28-14

(Place stamp or seal below)

\_\_\_\_\_  
Notary Public

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DEC 16 2013  
KCC



# ALLIED CEMENTING CO., LLC. 037265

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

SERVICE POINT:  
G-est Bend

DATE <u>8-23-11</u>	SEC. <u>2</u>	TWP. <u>17S</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30pm</u>	JOB FINISH <u>7:00pm</u>
LEASE <u>Missouri</u>	WELL# <u>2</u>	LOCATION <u>Arnoldus West To 5 RD</u>			COUNTY <u>ness</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>2 1/2 South east into</u>				

CONTRACTOR Discovery 3  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 233  
 CASING SIZE 8 1/2 DEPTH 232  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS-LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15  
 PERFS.  
 DISPLACEMENT 13.75 BBHs

OWNER John O Farmer  
 CEMENT  
 AMOUNT ORDERED 150 sy class A  
+ 3% cc + 2% gel

EQUIPMENT  
 PUMP TRUCK CEMENTER Wayne O  
 # 366 HELPER G-est  
 BULK TRUCK  
 # 341 DRIVER Kevin  
 BULK TRUCK  
 # DRIVER

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2,437.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@	<u>58.20</u>	<u>291.00</u>
ASC		@		
HANDLING	<u>158</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>158 x 28 x .11</u>			<u>486.64</u>
TOTAL				<u>3,634.39</u>

REMARKS:

Pipe on Bottom Break circulation  
with Rig mud  
Hook up mix 150SX Class A + 3% cc  
+ 2% gel  
Displace BBHs fresh water  
wash up Rig Down  
Cement did circulate

SERVICE

DEPTH OF JOB	<u>232</u>			
PUMP TRUCK CHARGE				<u>1125.00</u>
EXTRA FOOTAGE		@		
MILEAGE HVM	<u>56</u>	@	<u>7.00</u>	<u>392.00</u>
MANIFOLD		@		
<u>hvm</u>	<u>56</u>	@	<u>4.00</u>	<u>224.00</u>
TOTAL				<u>1741.00</u>

CHARGE TO: John O Farmer  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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 GALEN GASCHLER  
 SIGNATURE [Signature]

SALES TAX (If Any)				
TOTAL CHARGES	<u>5,375.39</u>			
DISCOUNT	<u>708.20</u>			
	<u>1,626.39</u>			
TOTAL				<u>3,749.00</u>

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JGB LOG

SWIFT Services, Inc.

DATE 08-30-11 PAGE NO. 7

CUSTOMER JOHN O FARMER WELL NO. D-2 LEASE MISHLER JOB TYPE LONGSTRING TICKET NO. 20265

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0000							DN LOCATION CMT: 175 SWS STD EA-2
								RTO 4570 (SET PIPE 4560) SJ 2122, 2154 4547 (512.14) PUMP COLLAR ON TOP #64, 1875 FT CMT 1.31.5.79.11.63 BARS 2.12.64 125 FT ROTARY SEALS, 1 LIMIT CLAMP
	0045							START CUL. OPERATION TAG BIT TBM - DRIP BALL
	0500							BREAK CIRC & ROTATE PIPE
	0550		7.5					PLUG RH 30, MH 20
	0555	5.0	12				200	500 GAL MULTIFLUSH
			20					20 BBS HCL 1
			30.5					125 STD EA-2 CMT
	0610	6.5	0				200	START DISP
			88				300	
			95				500	
			100				600	
			105				700	
	0630	4.5	111.0				1400	LAND PLUG RELEASE - DLY
	0730							JOB COMPLETE

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THANK YOU!  
DAVE JOSH B. BARON

CONFIDENTIAL  
DEC 16 2013  
KCC

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67605

No. 5088

Date	9-7-11	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Mishler D	Well No.	2	Location	Arnold W 35			12:45PM
Contractor	J & M Well Service	Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Type Job	Port Collar	Hole Size	T.D.	Csg.	5 1/2	Depth	Charge To	S.O. Farmer
Tbg. Size	2 3/8	Depth	1890	Street		City	State	
Tool	Port Collar	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg.		Displace	10 Bbl	Cement Amount Ordered 300 Q-MDC 4 B Bl Sand				

### EQUIPMENT

Pumptrk	5	No.	Cement Helper	Star	Common	12 bed on side
Bulktrk	12	No.	Driver	Clark	Poz. Mix	155 Q-MDC (Used)
Bulktrk		No.	Driver	Looney	Gel.	12

### JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 75#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar 1890	CFL-117 or CD110 CAF 38
Port Collar @ 1890	Sand
Pressure casing to 1000 psi	Handling 312
Open tool mix 12 bed & break circulation	Mileage

### FLOAT EQUIPMENT

Mix 155sx & Circulate Cement	Guide Shoe	
Displace 10 Bbl	Centralizer	RECEIVED
Rem. Sigs & wash clean	Baskets	DEC 16 2011
Used 155sx	AFU Inserts	KCC WICHITA
	Float Shoe	
	Latch Down	
	Pumptrk Charge	port collar
	Mileage	24

X Signature *Uell One*

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Tax  
Discount  
Total Charge