

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

12/12

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

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 # 31548
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 #:

9-8-11 9-14-11 10-20-11
 Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-135-25,293-00-00
Spot Description:
NE_NW_SW_NW Sec. 35 Twp. 17 S. R. 25 East West
1,330 Feet from North / South Line of Section
430 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ness
Lease Name: Potter "J" Well #: 1
Field Name: (wildcat)
Producing Formation: Mississippi
Elevation: Ground: 2427' Kelly Bushing: 2435'
Total Depth: 4450' Plug Back Total Depth: 4415'
Amount of Surface Pipe Set and Cemented at: 233 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: Port Collar @ 1661 Feet
If Alternate II completion, cement circulated from: 1661
feet depth to: surface w/ 175 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 if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter ~~CONFIDENTIAL~~ S. R. East West
County: Permit #:

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DEC 30 2012 JAN 03 2012
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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, 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: 12-30-11

KCC Office Use ONLY
 Letter of Confidentiality Received Date: 12/30/11 - 12/30/12
 Confidential Release Date:
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NS Date: 1-27-12

Operator Name: John O. Farmer, Inc. Lease Name: Potter "J" Well #: 1
 Sec. 35 Twp. 17 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: Dual Induction Log, Compensated Density Neutron Log, Micro Resistivity Log, Cement Bond Log	<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>1681'</td> <td>(+754)</td> </tr> <tr> <td>Heebner</td> <td>3723'</td> <td>(-1288)</td> </tr> <tr> <td>Lansing</td> <td>3766'</td> <td>(-1331)</td> </tr> <tr> <td>Pawnee</td> <td>4188'</td> <td>(-1753)</td> </tr> <tr> <td>Fort Scott</td> <td>4262'</td> <td>(-1827)</td> </tr> <tr> <td>Cherokee Shale</td> <td>4287'</td> <td>(-1852)</td> </tr> <tr> <td>Mississippi</td> <td>4357'</td> <td>(-1922)</td> </tr> </table>	Name	Top	Datum	Anhydrite	1681'	(+754)	Heebner	3723'	(-1288)	Lansing	3766'	(-1331)	Pawnee	4188'	(-1753)	Fort Scott	4262'	(-1827)	Cherokee Shale	4287'	(-1852)	Mississippi	4357'	(-1922)
Name	Top	Datum																							
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Mississippi	4357'	(-1922)																							

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#	233'	Common	150	3% C.C., 2% gel
Production	7-7/8"	5-1/2"	14#	4444'	EA-2	125	
Port Collar				1661'	Q-MDC	175	

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	4356-62' (Mississippi)	750 gals. 15% NE	

TUBING RECORD:	Size: <u>2-7/8"</u>	Set At: <u>4411'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of <u>First</u> Resumed <u>Production</u> , SWD or ENHR. <u>10-29-11</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>22.37</u>	Gas Mcf	Water Bbls. <u>0.00</u>	Gas-Oil Ratio <u>36.7°</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>4356-62'</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 - 370 West Wichita Avenue PO Box 763
Russell, KS 67665 Hays, KS 67601

Lease: Potter "J" # 1 Location: NE/NW/SW/NW
Section 35/17S/25W
Ness Co., KS

Loggers Total Depth: 4450' API#15- 135-25,293-00-00
Rotary Total Depth: 4450' Elevation: 2427 GL / 2435 KB
Commenced: 9/8/2011 Completed: 9/15/2011
Casing: 8 5/8" @ 233.45'W/150sks Status: Oilwell
5 1/2" @ 4444.61'W/125sks
(Port Collar @ ~~4073'~~
1661')

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1720'</u>
Dakota Sand	<u>879'</u>	Shale & Lime	<u>2277'</u>
Shale	<u>922'</u>	Shale	<u>2499'</u>
Cedar Hill Sand	<u>1163'</u>	Shale & Lime	<u>2917'</u>
Red Bed Shale	<u>1378'</u>	Lime & Shale	<u>3894'</u>
Anhydrite	<u>1684'</u>	RTD	<u>4450'</u>
Base Anhydrite	<u>1720'</u>		

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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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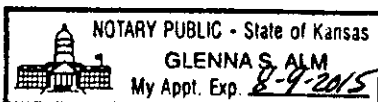
KCC WICHITA

Subscribed and sworn to before me on 9-16-2011

My Commission expires: 8-9-2015

(Place stamp or seal below)

Notary Public



QUALITY OILWELL CEMENTING, INC.

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

Home Office P.O. Box 32 Russell, KS 67665

No. 5152

Date	9-8-11	Sec.	35	Twp.	17	Range	25	County	Ness	State	Ks	On Location		Finish	6:00 PM	
Lease	Potter J			Well No.	1			Location	Arnold, Ks - 3W to H Rd, 6 1/2 S to 195 Rd,							
Contractor	Discovery #3							Owner	2E to Cattle Guard, S to Rig							
Type Job	Surface							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.								
Hole Size	12 1/4"			T.D.	234'			Charge To	S.O. Farmer							
Csg.	8 5/8"			Depth	233'			Street								
Tbg. Size								City	State							
Tool								Depth								
Cement Left in Csg.	15'			Shoe Joint	15'			The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line								Displace	13 3/4 BLS			Cement Amount Ordered 150 sx Common 3%CC				

EQUIPMENT

Pumptrk	1	No.	Cementer	AD Caslo	2% Gel
			Helper		Common 150
Bulktrk	8	No.	Driver	Brian S.	Poz. Mix
			Driver		3
Bulktrk		No.	Driver	Rick	Calcium 5
			Driver		

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.				
Rat Hole	Salt				
Mouse Hole	Flowseal				
Centralizers	Kol-Seal				
Baskets	Mud CLR 48				
D/V or Port Collar	CFL-117 or CD110 CAF 38				
	Sand				
	Handling 158				
	Mileage				

FLOAT EQUIPMENT

	Guide Shoe	
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	
	Pumptrk Charge	Surface
	Mileage	32

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X Signature *John Miller*

Tax
Discount
Total Charge

JOB LOG

SWIFT Services, Inc.

DATE 15 SEP 11 PAGE NO. 1

CUSTOMER John D Farmer WELL NO. #1 LEASE Potter 2 JOB TYPE Cement long string TICKET NO. 21098

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2 w/ 1/4" Flocals 5 1/2" x 15.5" Cont 1, 3, 5, 7, 9, 11, 66 Bskt 2, 12, 67 TD 4450 TOTAL PIPE 4450 IDFT COLLAR # 67 1677'
	0630							on loc TRK 114
	0750							Start 5 1/2" x 15.5" casing in well
	0945							Drop ball - circulate - ROTATE
	1010	4 3/4	12				200	Pump 12 bbl MUDFLUSH
		4 3/4	20				200	Pump 20 bbl KCL liquid
	1015		12					Plug RH - MH 30 SKS = 20 SKS
	1020	4 3/4	30				250	Mix 125 sks EA-2 @ 15.3 ppg
	1032							Drop latch down plug wash pump & line
	1035	6 3/4					250	Displace plug
		6 3/4	95				90	
	1050	6 3/4	106				150	Land plug
	1052							Release pressure to truck - dried up wash truck
								Rack up
	1145							Job complete

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Thanks
Brian, Joe & Dave

QUALITY OILWELL CEMENTING, INC.

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

Home Office P.O. Box 32 Russell, KS 67665

No. 5193

Date	10-14-11	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Porter J	Well No.	#1	Location Arnold, KS - 3 W to HRA, 6 S to 195th				
Contractor	J+M Well Service			Owner Ed, 2 E to Cattle guard, S to well				
Type Job	Port Collar			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.				
Hole Size	5 1/2"			T.D.				
Csg.	2 7/8"			Depth 1661'				
Tbg. Size	2 7/8"			Depth 1661'				
Tool	Port Collar			Street				
Cement Left in Csg.	Shoe Joint			City State				
Meas Line	Displace			The above was done to satisfaction and supervision of owner agent or contractor.				
EQUIPMENT				Cement Amount Ordered 2705x QMDC 1/4# Flt-seal				
Pumptrk	1	No.	Cement Helper	12 gal on site				
Bulktrk	12	No.	Driver	Common 175 QMDC				
Bulktrk	p.u.	No.	Driver	Poz. Mix				
JOB SERVICES & REMARKS				Gel. 8				
Remarks:	Calcium							
Rat Hole	Hulls							
Mouse Hole	Salt							
Centralizers	Flowseal 67#							
Baskets	Kol-Seal							
D/V or Port Collar	1661'			Mud CLR 48				
used 175x QMDC 1/4# Flt-seal + 8 gal				CFL-117 or CD110 CAF 38				
Cement did Circulate.				Sand				
				Handling 282				
				Mileage				

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	RECEIVED
AFU Inserts	JAN 03 2012
Float Shoe	
Latch Down	KCC WICHITA
Pumptrk Charge	port Collar
Mileage	33

X Signature	<p>CONFIDENTIAL</p> <p>DEC 30 2012</p> <p>KCC</p>	Tax	
		Discount	
		Total Charge	

Potter J # 1

Completion report

9-22-11 Rig up Perforators LLC, portable mast, run Dual Receiver Cement Bond log. Found TD at 4415', top of cement at 3290'

10-13-11 Move in and rig up J & M Well Service double drum unit.

10-14-11 Run Reinhardt's Services port collar tool on 2 7/8" tubing to ^{1661'}~~1074'~~, locate port collar. Hookup Quality Oilwell Cementing pump truck, pressure casing to 1000#, held. Open port collar, mix and pump 8 sxs gel with good circulation. Mix and pump 175 sxs QMD Cement, cement did circulate, witnessed by Mike Maier, KCC rep. Close port collar, Pressure casing to 1000#, held. Run 5 jts tubing circulate clean. Pull tubing and tool. Swab down to TD. Dump 12 bbls KCL water down casing. Shut down.

10-17-11 Rig up Perforators LLC, perforate Mississippi Zone 4356-62' (6') (4SPF) with screw port gun. Run 2 7/8" tubing with Reinhardt's Services packer to 4320', swab down. Let set 30 minutes, dry. Hookup RPM Services acid pump truck, balance 750 gallons 15% NE Acid on bottom, pull 28 jts tubing, fill casing and tubing with KCL water. Total load pumped 88.8 bbls, volume 96.7 bbls. Shut in, shut down.

10-18-11 Fluid 750' from surface, acid is displaced. Lower tubing to 4320', swab down to 300'. Total swabbed 102 bbls. Set packer, swab down, swab test:

Time	Fluid	Oil
1st hour	9.32 bbls	100%
2nd hour	7.54 bbls	100%
3rd hour	6.67 bbls	100%
4th hour	6.09 bbls	100%

Shut in, shut down.

10-19-11 ONFU 2400' fluid, 100% oil. Pull tubing and packer. Sandpump clean. Run tubing:

15.00' 2 7/8" Perforated mud anchor
1.10' 2 7/8" Seating nipple
4375.25' 135 jts 2 7/8" 8rd EUE tubing (Mishler Potter A # 1)
20.00' 2 7/8" x 6', 6' 8' Tubing subs

Lower tubing, tag bottom, pull up 1', swab water from bottom of well. Land tubing

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4' off bottom.

Start to run pump and rods. Shut down.

10-20-11 Finish running rods:

2 1/2" x 1 1/2" x 12' RWTC DV Insert pump with 6' gas anchor
7/8" x 2' Pony rod with spiral guide
114 3/4" Sucker rods (64 from Mishler Unit, 50 New Tenaris)
60 7/8" Sucker rods (New Tenaris)
7/8" x 2', 4' Pony rods
1 1/4" x 16' Polished rod with 6' liner

Longstroke, good blow, rig down and move off.

Val Dreher

Val Dreher Production foreman

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