CONFIDENTIAL

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL Form ACO-1 September 1999 Form Must Be Typed

Operator: License # 5135	API No. 15 - 135-24,962-00-00
Name: John O. Farmer, Inc.	County: Ness NS 100
Address: P.O. Box 352	County: New New New Sec. 14 Twp. 17 S. R. 25 ☐ East ✓ West
City/State/Zip: Russell, KS 67665	330 feet from S /(N) (circle one) Line of Section
Purchaser: NCRA	1265 feet from E / (circle one) Line of Section
Operator Contact Person: Marge Schulte	Footages Calculated from Nearest Outside Section Corner:
Phone: (785_) 483-3145, Ext. 214	(circle one) NE SE (NW) SW
Contractor: Name: Discovery Drilling Company, Inc.	Lease Name: Mishler-Potter "A" Well #: 1
License: 31548	Field Name: Rap South
Wellsite Geologist: Bob Stolzle	Producing Formation: Fort Scott
Designate Type of Completion:	Elevation: Ground: 2447' Kelly Bushing: 2455'
New Well Re-Entry Workover	Total Depth: 4520' Plug Back Total Depth: 4400'
OilSWDSIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 213 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
·	If yes, show depth set Port Collar @ 1773 Feet
Dry Other (Core, WSW, Expl., Cathodic, etc)	l i i i i i i i i i i i i i i i i i i i
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 1773 feet depth to surface w/ 130 sx cmt.
Operator:	teet depth to sx cmt.
Well Name:	(Data must be collected from the Reserve All IN 212-10
Original Comp. Date: Original Total Depth:	
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 16,000 ppm Fluid volume 240 bbls
Plug Back Plug Back Total Depth	Dewatering method used evaporation
Commingled Docket No	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	·
Other (SWD or Enhr.?) Docket No	Operator Name:
10-16-09 10-23-09 12-16-09	Lease Name: License No.:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R Teast West
Recompletion Date Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workove information of side two of this form will be held confidential for a period of 1	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, er or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 2 months if requested in writing and submitted with the form (see rule 82-3-and geologist well report shall be attached with this form. ALL CEMENTING. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regula herein are complete and correct to the best of my knowledge.	ate the oil and gas industry have been fully complied with and the statements
Signature: JOO. Falme IIF	KCC Office Use ONLY
Title: Date: 2-10-10	Letter of Confidentiality Received
Subscribed and sworn to before me this 10th day ofFebruar	If Denied, Yes Date:
_	Wireline Log Received
20_10. Notary Public: Margaret a, Schulte	Geologist Report Received RECEIVE
	FEB 1 1 20
Date Commission Expires:	

J. 0 , .

Operator Name: John O. Farmer, Inc.					Name:_	Mishler-Potte	r "A"	ე ენიტე! 1. We ll#: - 1		3
Sec. 14 Twp. 17 S. R. 25 East West			County	Ness			20 0 0 CC	3 "30" 9%	71,7	
INSTRUCTIONS: S tested, time tool ope temperature, fluid red Electric Wireline Log	n and closed, flowing covery, and flow rate:	g and shut-in s if gas to sur	pressures, face test, a	enetrated. I whether sha	Detail a ut-in pre	Il cores. Report	static level, hydr	ostatic pressur	es, bottor	m hole
Drill Stem Tests Taken (Attach Additional Sheets)					۷L	og Formatio	on (Top), Depth	and Datum		Sample
Samples Sent to Geological Survey				Nam Anh	e ydrite		Top 1775'		Datum +680)	
Cores Taken Yes V No					ner Shale		3781'		-1326)	
Electric Log Run		✓ Yes	□No		Lans	sing		3821'	`	-1366)
(Submit Copy)					Base	/KC		4115'	•	·1660)
List All E. Logs Run:					Pawi	nee Limestone		4240'	(-	1785)
Micro Resistivit	y Log, Array Ind	duction Fo	cused El	ectric	Fort	Scott Limeston	е	4318'	(-	1863)
	Photo Density C		ted Neut	ron	Cher	okee Shale		4342'	(-	1887)
Log, Duai Rece	eiver Cement Bo	ona Log			Miss	issippi		4417'	(-	1962)
		Report at		RECORD	No	w Used ermediate, product	ion, etc.			
Purpose of String	Size Hole Drilled			Weig Lbs./	ht	Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
Surface	12-1/4"	8-5/8"		23#		213'	Common	150	3% C.0	C., 2% Gel
Production	7-7/8"	5-1/2"		15.5 & 14	#	4517'	EA-2	125		
Port Collar						1773'	QMD	130		
		А	DDITIONAL	CEMENTIN	G / SQL	JEEZE RECORD				
Purpose: Perforate	Depth Top Bottom	Type of 0	#Sacks	Used		Type and	Percent Additives	5		
Protect Casing Plug Back TD Plug Off Zone					.					
Shots Per Foot	PERFORATI	ON RECORD Footage of Eacl	- Bridge Plug h Interval Per	s Set/Type forated	<u></u>		cture, Shot, Cemer		rd	Depth
4 SPF	4430-40' (Mississip					None				
	CIBP Set @ 4400'									
4 SPF 4332-34' & 4336-38' (Fort Scott "B") 1000 gals. 15% NE acid (Fort Scott "A" & "B" perfs.)										
4 SPF 4319-4322' (Fort Scott "A")										
TUBING RECORD Size Set At Packer At Liner Run 2-7/8" 4395' Yes No .										
Date of First, Resumerd Production, SWD or Enhr. Producing Method 1-15-10										
Estimated Production Per 24 Hours	Oil 5.84	Bbls.	Gas	Mcf	Wate	er B	bls.	Gas-Oil Ratio		Gravity 38.2°
Disposition of Gas	METHOD OF C	COMPLETION		1		Production Inter	val			U.E
Vented Sold	Used on Lease		Open Hole	Perf.		Dually Comp.	Commingled .	4319-4338' O	A	 ,



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

DISCOVERY DRILLING CO., INC.

DRILLER'S LOG

Operator: John O. Farmer, Inc. LIC# 5135

PO Box 352

Russell, KS 67665

Contractor: Discovery Drilling Co., Inc. LIC#31548

PO Box 763

Hays, KS 67601

Lease: Mishler-Potter "A" #1

Location: 275' E of NE / NW / NW

Sec. 14 / 175/25W

Ness Co., KS

Loggers Total Depth: 4517'

Rotary Total Depth: 4520'

Commenced: 10/16/2009

Casing: 8 5/8" @ 212.02' w / 150 sks

5 1/2" @ 4517' w / 125 sks

(Port Collar @ 1775')

API#15- 135-24, 962-00-00 Elevation: 2447' GL / 2455' KB

Completed: 10/24/2009

Status: Oil Well

DEPTHS & FORMATIONS

(All from KB)

Surface, Sand & Shale	0'	Shale	1807'
Dakota Sand	1009'	Shale & Lime	2336'
Shale	1094'	Shale	2650'
Cedar Hill Sand	1278'	Shale & Lime	2982'
Red Bed Shale	1491'	Lime & Shale	3949'
Anhydrite	1770'	RTD	4520'
Base Anhydrite	1807'		,

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

Subscribed and sworn to before me on

My Commission expires:

(Place stamp or seal below)

Notary Public

RECEIVED FEB 1 1 2010 KCC WICHITA

NOTARY PUBLIC - State of Kansas

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025 c Cell 785-324-1041	H	lome Office	P.O. Box 32	lussell, KS 67665	No	3004
Date 10/609 Sec.	Twp.	Range	County	State	On Location	Finish
10:11	 Well No.	<i>2</i> 1	Lacotic A	100 EDC	3/10 (10,45
Contractor Discovers	#2	<u> </u>	Location	[JOOICE] 3	74W	
10 10	72		Owner To Qualit	y Oilwell Cementing, In	nc.	
Type Job Surfaced	+	112	———You are t	ereby requested to re-	nt cementina equipmer	it and furnish
Hole Size 12/4	T.D.	d13	Charge	and neiper to assist o	wner or contractor to o	o work as listed.
Csg.	Depth	2/2	to	JU farm	100	<u></u>
Tbg. Size	Depth	, , , , , , , , , , , , , , , , , , , 	Street	·		
Drill Pipe	Depth		City	<u> </u>	State :	
Tool	Depth	· · ·	The above	was done to satisfaction	and supervision of owner	agent or contractor
Cement Left in Csg./O 1/5	Shoe Jo	oint ·		CEMENT		1
Press Max.	Minimur	m · _ ·	- Amount (Ordered 150 3%	cc 2% act	1
Meas Line 23	Displace	13 BB	Common		7.1	
Perf.			Poz. Mix		in the second second	<u> </u>
EQUIP	MENT		Gel.			
Pumptrk 5 No. Cementer Helper		Use	Calcium			
Bulktrk & No. Driver Driver	·	Klaffe	Mills			
Bulktrk Pu No. Driver		Dowe	Salt			· · · · · · · · · · · · · · · · · · ·
JOB SERVICES	& REMAI	RKS	Flowseal			
Pumptrk Charge						· · · · · · · · · · · · · · · · · · ·
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ignature	· · · · · ·				Discount	
		•		1	Total Charge	

OG							ices, Inc. Date 10-23-09 PA
~O.F	wirer	WELL NO.			Mish	er-Po	Hert Cement Long String TICKET NO. 7141
TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUM T	PS C	PRESSUR TUBING	E (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
2730							On Location
							RTD-4520 LTD-4517
					` ;;		TP-4521' Cent. 1,3,5,7,11,16,20
				~ /	+ +		5V-23.15 Besket, 21.69
			1				PC-4517 PC 69-1775
							GJ+s out
							17Jts 5/214# 93Jts 5/2 15,5#
2330	·		<u> </u>				Start 542 Casing
							Start Ore Casing
130		 	 				Break Circulation
			<u> </u>				Dream Circhiallon
200	63/4	37.	1	_	•	350	P AM I EL JAKEL CI A
<u> </u>	47	<u></u>				<u> </u>	Pump Mud Flush + KCL Flush
205	742	 -		_			Plus P Lula 3Aab
200		1-/-					Plug Rat Hole 30sks
210	31/2	5	1.				Pl. ha (1-1 70)
210	3/2	<u> </u>					Plug Mouse Hole 20sks
212	4		~	-		300	C1 + C + 17 = 10 + C =
215		 				<u> </u>	Start Coment 1255ks 15,5pp
225		30					C1 + 0 81 01 110
200							Shat Down-Release Plug-Wash Pam
230	63/4					200	CL. I AS AL
LJO	<u> </u>					200	Start Displacement
	1361	C/ 3	. /	-	-	//0.00	1.010
	63/4	<u> </u>	V		<u> </u>	400	LiftCement
-						2000	MA I SOA
						700	Max Lift
245		120-1-				1	i Di al ii li
245		107.3				1500	LandPlug-Refease-Held
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							Brett, Dave + Shane

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025 Cell 785-324-1041	Home Office P.O	No. 308 (
Date 13/09 Sec.	Twp. Range	County State On Location Finish
Lease Mishler Pitter	Vell No. A # 1 Lo	ocation Asnold, HS, YaW, 5 into
Contractor J+M Well	Service	Owner
Type Job Port Callar		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish
Hole Size 7 2811	T.D.	cementer and helper to assist owner or contractor to do work as listed.
Csg. 51/2"	Depth	Charge John O. Farner
Tbg. Size 2781	Depth	Street
Tool Reinhart	Depth 1773	City State
Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line	Displace	14 to the cement 30 ds
EQUIPA	MENT	Amount Ordered 275 sx Q-MUC
	w	— Common 130(8) 13,00
	alte	Poz. Mix
Bulktrk PU No. Driver No. Driver	2a]e 	Gel. 10/0/ 17_00
JOB SERVICES	& REMARKS	Calcium
Remarks:		Hulls
* Pressure Up	5/2 -1000	Salt
Open Tool		Flowseal 33 @ Z-00
W;x 130 s	-To Circulate.	Cament
Displace		·
Close Tool		
Pressure up	1000#	Handling 295 0 2.00
Wash [Clear	No. 1 Acres 1	Mileage
		A CONTRACTOR OF THE PROPERTY O
		FLOAT EQUIPMENT
N'X D	ael	Guide Shoe
	<u>ا</u> ا	Centralizer
Ar Areas		Baskets RECEIVED
- (\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	A STATE	AFU: Inserts
N. J. J.		FEB-1 1 2010
Mank		KCC WICHITA
1	1/2-1/2 1/2 - NAMES 1.	
100		Pumptrk Charge Port Collar
40	wrws.or ng as M	Mileage
		Tax
		Discount
Signature UCO DL	•	Total Charge
		

well Fil

Mishler-Potter A # 1

Completion report

11-3-09 Rig up Perf-Tech portable mast, run Dual Receiver, Cement Bond Log. Found TD at 4486', top of cement at 3535'.

12-2-09 Move in and rig up J & M Well Service double drum unit.

12-3-09 Move 141 jts 2 7/8" tubing from Horacek # 1 to location. Run Reinhardts Services port collar tool to 1773', locate port collar. Hookup Quality Oilwell Cementing pump truck, pressure casing to 1000#, held. Open port collar, mix and pump 10 sxs gel to get circulation, follow with 130 sxs QMD Cement. Cement did circulate to surface. Witnessed by Lin Reimer KCC rep. Close port collar, pressure to 1000#, held. Run 3 jts tubing, circulate clean. Pull tubing and tool. Swab well down to 4000'. Shut down.

12-4-09 Rig up Perf-Tech, perforate Mississippi Zone 4430-40' (10') (4SPF) with expendable charges. Run tubing with Reinhardts Services packer to 4360'. Swab down, let set 30 minutes, dry. Shut down.

12-7-09 OWFU 1600' fluid, trace of oil. Let set 30 minutes, dry. Pull tubing and packer. Rig up Perf-Tech, set CIBP at 4400', perforate Ft Scott B Zone 4332-34' (2') (4 SPF) and 4336-38' (2') (4SPF) and Ft Scott A Zone 4319-22' (3') (4SPF) with expendable charges. Rerun tubing and packer to 4295', swab down, let set 50 minutes, dry. Shut down.

12-8-09 to 12-13-09 Snow and below temperatures, did not work.

12-14-09 7 Day fillup, 1200' fluid, 100% oil. Next swab pull had 25' water. 30 minutes, dry. Lower packer to 4357', hookup Allied Acidizing pump truck, pressure tubing and packer to 1000#, held. Raise tubing to 4347', spot acid over both Ft Scott perfs. Raise packer to 4295', acidize Ft Scott A & B Zones with 1000 gallons 15% NE acid and 5 bbls flush. Treated:

Pressure	Rate	RECEIVED
30# 300#	.3 bpm 1 bpm	FEB 1 1 2010
400#	1 bpm	KCC WICHITA

500#	1 bpm
400#	1.5 bpm Break
500#	1.5 bpm
600#	1.75 bpm

Total load pumped 54.9 bbls. ISIP 500#, 5 minutes 400#, 10 minutes 300#, 20 minutes 175#, 30 minutes 75#.

Let set 1 hour, swab down. Swabbed 40 bbls, last pulls were 100% oil. Release packer to dump acid from top of packer, make 2 swab pulls. Shut in. Shut down.

12-15-09 ONFU 1300' fluid, 100% oil. Swab down, swab test:

Time	Fluid	Oil	
1st hour	4 bbls	88%	
2nd hour	3 bbls	100%	
3rd hour	2.5 bbls	100%	300' fluid per pull

Run packer to 4390', make 2 swab pulls. Pull tubing and packer. Start to run tubing. Shut down.

12-16-09 Tubing in well:

15.00' 2 7/8" Perforated mud anchor 1.10' 2 7/8" Seating nipple 4378.08' 135 jts 2 7/8" 8rd EUE tubing

Tubing is landed 5' off bottom.

Run pump and 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 116 3/4" Sucker rods (80 from Young Brothers A # 2 36 Yellow #

2 TRC)
58 7/8" Sucker rods (22 from Young Brothers A # 2 4 from Horacek # 1 32 New)

7/8" x 2', 4', 6' Pony rods 1 1/4" x 16' Polished rod with 6' liner

Longstroke, good blow. Rig down and move off.

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Val Dreher Prodction foreman

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