



Operator Name: John O. Farmer, Inc. Lease Name: Mishler-Potter "A" Well #: 4338  
 Sec. 14 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy)

Name	Top	Datum
Anhydrite	1775'	(+680)
Heebner Shale	3781'	(-1326)
Lansing	3821'	(-1366)
Base/KC	4115'	(-1660)
Pawnee Limestone	4240'	(-1785)
Fort Scott Limestone	4318'	(-1863)
Cherokee Shale	4342'	(-1887)
Mississippi	4417'	(-1962)

List All E. Logs Run:  
 Micro Resistivity Log, Array Induction Focused Electric Log, Compact Photo Density Compensated Neutron Log, Dual Receiver Cement Bond Log

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#	213'	Common	150	3% C.C., 2% Gel
Production	7-7/8"	5-1/2"	15.5 & 14#	4517'	EA-2	125	
Port Collar				1773'	QMD	130	

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	4430-40' (Mississippi) CIBP Set @ 4400'	None	
4 SPF	4332-34' & 4336-38' (Fort Scott "B")	1000 gals. 15% NE acid (Fort Scott "A" & "B" perms.)	
4 SPF	4319-4322' (Fort Scott "A")		

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-7/8"	4395'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
1-15-10		<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	5.84		0.00		38.2°

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)  
 METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)  
 Production Interval 4319-4338' OA



# Discovery Drilling

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 / 17S/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')**

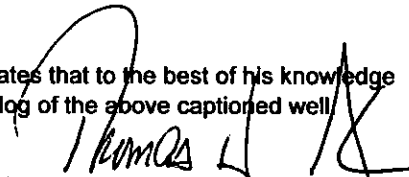
API#15- **135-24, 962-00-00**  
Elevation: **2447' GL / 2455' KB**  
Completed: **10/24/2009**  
Status: **Oil Well**

### 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.

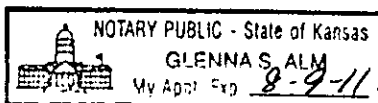
  
\_\_\_\_\_  
Thomas H. Alm

Subscribed and sworn to before me on 10-26-09

My Commission expires: 8-9-11

(Place stamp or seal below)

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



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JOB LOG

SWIFT Services, Inc.

DATE 10-23-09 PAGE NO. 1

CUSTOMER John O. Farmer WELL NO. 1 LEASE Mishler-Potter "A" JOB TYPE Cement Long String TICKET NO. 17141

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2230							On Location RTD-4520' LTD-4517 TP-4521' Cent. 1,3,5,7,11,16,20,68 SV-23.15' Basket, 21,69 PS-4517 PC.69-1775' 6Jts out 17Jts 5 1/2" 93Jts 5 1/2" IS.5"
	2330							Start 5 1/2" Casing
	130							Break Circulation
	200	6 3/4	32	✓			350	Pump Mud Flush + KCL Flush
	205	3 1/2	7	✓				Plug Rat Hole 30sk
	210	3 1/2	5	✓				Plug Mouse Hole 20sk
	215	4		✓			350	Start Cement 125sk 15.5ppg
	225		30	✓				- Shut Down - Release Plug - Wash Pump Lines
	230	6 3/4		✓			200	Start Displacement
		6 3/4	83	✓			400	Lift Cement
							900	Max Lift
	245		107.3				1500	Land Plug - Release - Held
								Wash Truck
	315							Job Complete
								Thank you Brett, Dave + Shane

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# QUALITY OILWELL CEMENTING, INC.

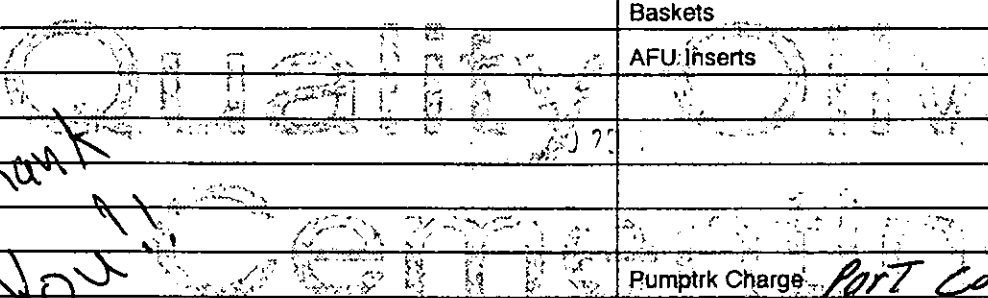
Phone 785-483-2025  
Cell 785-324-1041

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

No. 3587

Date	12/3/09	Sec.		Twp.		Range		County	Ness	State	KS	On Location		Finish	12:30 PM
Lease	Mishler Poth			Well No.	"A" # 1			Location	Arnold, H.S., 1/2 W, S into						
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							Charge To	John O. Farmer						
Hole Size	7 7/8"			T.D.											
Csg.	5 1/2"			Depth											
Tbg. Size	2 7/8"			Depth											
Tool	Reinart			Depth	1773'			Street							
Cement Left in Csg.				Shoe Joint											
Meas Line				Displace				City	State						
EQUIPMENT								The above was done to satisfaction and supervision of owner agent or contractor.							
Pumptrk	9	No.	Cement	Paul	Amount Ordered			275 ex Q-MOC							
			Helper		Common			130 @ 13.00							
Bulktrk	10	No.	Driver	Blake	Poz. Mix										
			Driver		Gel.			10 @ 17.00							
Bulktrk	PU	No.	Driver	Neate	Calcium										
			Driver		Hulls										
JOB SERVICES & REMARKS								Remarks:							
Pressure Up 5 1/2" - 1000#								Salt							
Open Tool								Flowseal 33 @ 2.00							
Mix 130 ex - To Circulate Cement								Handling 275 @ 2.00							
Displace								Mileage							
Close Tool								FLOAT EQUIPMENT							
Pressure up 1000#								Guide Shoe							
Wash Clean								Centralizer							
Mix 10 gel								Baskets							
								AFU Inserts							
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								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
Signature								Ucl Dhe							

Thank You!!



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Well  
File

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 Reinhardt's 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 Reinhardt's 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 perms. Raise packer to 4295', acidize Ft Scott A & B Zones with 1000 gallons 15% NE acid and 5 bbls flush. Treated:

Pressure	Rate
30#	.3 bpm
300#	1 bpm
400#	1 bpm

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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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