



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 67665-2635 Hays, KS 67601

Lease: Shaw # 1 Location: NE-NW-SW-SE
Section 18/ 4S/ 18W
Phillips Co., KS

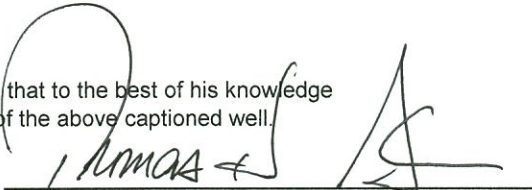
Loggers Total Depth: 3378' API#15- 147-20,680-00-00
 Rotary Total Depth: 3391' Elevation: 1902 GL / 1910 KB
 Commenced: 5/29/2012 Completed: 6/4/2012
 Casing: 8 5/8" @ 223.19'W/150sks Status: Oilwell
5 1/2" @ 3389'W/130sks
Port Collar @ 1473'

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1497'</u>
Dakota Sand	<u>870'</u>	Shale & Lime	<u>1843'</u>
Shale	<u>944'</u>	Shale	<u>2180'</u>
Cedar Hill Sand	<u>1017'</u>	Shale & Lime	<u>2509'</u>
Red Bed Shale	<u>1193'</u>	Lime & Shale	<u>3044'</u>
Anhydrite	<u>1464'</u>	RTD	<u>3391'</u>
Base Anhydrite	<u>1497'</u>		

STATE OF KANSAS))
) ss
 COUNTY OF ELLIS))

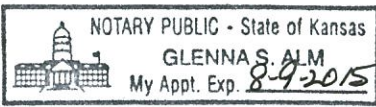
Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.


 Thomas H. Alm

Subscribed and sworn to before me on 6-6-2012

My Commission expires: 8-9-2015

(Place stamp or seal below) 
 Notary Public



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 5403

Date	5-29-12	Sec.	18	Twp.	4	Range	18	County	PHILLIPS	State	KANSAS	On Location		Finish	6:45 pm	
Lease	SHAW		Well No.	#1		Location	GLADE 3W-1N-1/2W-N INTO									
Contractor	DISCOVERY #1 BEST.							Owner	J.O. FARMER							
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.	223'		Charge To	J.O. FARMER									
Csg.	8 1/8"		Depth	223'		Street	370 W. WICHITA AVE.									
Tbg. Size			Depth			City	PO Box 352 Russell KANSAS 67665									
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.			Shoe Joint	15'		Cement Amount Ordered	160 com - 3% - 2% GEL									
Meas Line			Displace	13 BLS												

EQUIPMENT

Pumptrk #5	No.	Cementor	Beett	Common	160	used 150 sks.
Bulktrk #10	No.	Driver	Brian	Poz. Mix		
Bulktrk P/4	No.	Driver	Cisco	Gel.	3	

JOB SERVICES & REMARKS

Remarks:	Calcium	5
Rat Hole	Hulls	
Mouse Hole	Salt	
Centralizers	Flowseal	
Baskets	Kol-Seal	
D/V or Port Collar	Mud CLR 48	
	CFL-117 or CD110 CAF 38	
	Sand	
	Handling	168
	Mileage	

FLOAT EQUIPMENT

Guide Shoe	1
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

CEMENT DID NOT CIRCULATE 1x

THANK YOU 1x

Pumptrk Charge Surface
Mileage 57

X Signature *Cliff Mays*

Tax
Discount
Total Charge

JOB LOG

SWIFT Services, Inc.

DATE 6-4-12 PAGE NO. 1

CUSTOMER John O. Farmer WELL NO. #1 LEASE Shaw JOB TYPE Cement Longstring TICKET NO. 21783

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD 3391' DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1845							DN location - Ready @ 1900 HR
	1855							Start 5 1/2" 14#/ft casing to 3389'
								Insert Float Shoe w/ Fill-up
								Cent 1-3-5-8-10-12-48 1/2 way up
								Cement Baskets Run and #2-13-48 1/2 way up
								Port Collar #48 @ 1473'
								L.D. Baffle - Shoe Jt. 22' @ 3371' @ 82 1/4'
								Drop fillup ball 5 Jts out
	2010							Fin run casing
	2030							Start circ / Rotate
								Fin circ
			7					Plug Rth - 30 SKS out MTH 15 SKS out
		6	12				200	Pump 500 gal Mead Flush
	2100	6	20				200	Pump 20 BBL KCL Flush
							200	Start 130 SKS EM-2 unit
			32				150	Fin out - Wash Pump & Lines
								Drop L.D. Plug -
		7					200	Start Displ
		7	60				300	Caught unit @ 60 BBL
	2130	5	82 1/4				700	Plug Down - Acid - Release & Hold
							1000	Job Complete
								Washup & Reelup TRS

Thanks
Don, Brian & T.J.

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

No. 689

Date	6-21-12	Sec.	Twp.	Range	County	State	On Location	Finish	
Lease	Shaw	Well No.	1	Location					Speed 2E W 1/4 W into
Contractor	Chito's	Owner						To Quality Oilwell Cementing, Inc.	
Type Job	Port collar	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	7 7/8	T.D.							
Csg.	5 1/2	Depth	Charge To						
Tbg. Size	2 7/8	Depth	S.O. Farmer						
Tool	Port collar	Depth	1473	Street		City			
Cement Left in Csg.		Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line		Displace	4BL	Cement Amount Ordered		275 QMDC 1/4# F10			

EQUIPMENT

Pumptrk	5	No.	Cement Helper	Craig	Common	225
Bulktrk		No.	Driver	Brett	Poz. Mix	
Bulktrk	14	No.	Driver	Levi	Gel.	

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 50#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

Tool @ 1473. Test to 1000# hold open tool Bst. Circulation. Mix 225SK + Cement Circulated. Displace 4BL. Close Tool Pressure to 1000# Run 5 joints wash clean.

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	port collar
Mileage	59

Tax	
Discount	
Total Charge	

X Signature *Brian Edwards*