

MORNING DRILLING REPORT

For: H&D Exploration, LLC

SOUTHWIND DRILLING, INC.

RIG No. 6

Well Name: **Marlene #1**
 Location: **2167' FSL & 500' FEL**
 Section: **31-20S-15W**
 County: **Barton**
 API: **15-009-26000-00-00**

Elevation: **GL 2002'**
KB 2010'
 Est. TD: **3900'**
 Conductor: **N/A**

Rig No. 6 (Pusher/Wes Platf) 620 560-7094
 Rig No. 6 (Doghouse) 620 566-7156
 Southwind Drilling Office 620 564-3800



Surface Casing: **Ran 24 joints of new 23#, 8 5/8" casing, Tally @ 1000', Set @ 1010', used 375 sacks of 70/30, 3%cc, 2% gel, cement circulated, by Quality (Ticket #083), plug down @ 11:15 am on 07.06.14.**

Plugging Info: **Plugged well with 220 sacks of 60/40 Pix, 4% gel, 1/4# Flo-seal, 1st plug @ 3774' w/ 50 sacks, 2nd plug @ 1170' w/ 50 sacks, 3rd plug @ 550' w/ 80 sacks, 4th plug @ 40' w/ 10 sacks, 30 sacks for Rat hole, cemented, by Quality (Ticket # 514), job complete @ 11:30 pm on 07.12.14.**

Rotary Total Depth: **3925'**
 Log Total Depth: **3920'**

Geologist: **Jim Musgrove**

7:00 A.M. Depth: 3925'

7:00 A.M. Current Operation: TEAR DOWN

Spud Date & Time:	07/05/14	07/06/14	07/07/14	07/08/14	07/09/14	07/10/14	07/11/14	07/12/14	07/13/14	Total
07/05/2014 @ 10:00 AM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	
Total Depth (7:00am)	0	1010	1567	2571	3276	3720	3822	3925	3925	3925
Daily Progress	1010	557	1004	705	444	102	101	0		
Ft. Per Hr.	62.15	89.12	50.20	33.57	21.93	27.20	22.89	#DIV/0!	#DIV/0!	42.66
Current Operation (7:00am)	Rig Up	Wiper Trip	Drilling	Drilling	Drilling	Drilling	DST #1	Drilling	Tear Down	
Formation	Surface	Surface	Sand / Shale	Sand / Shale	Sand / Shale	Sand / Shale	Arbuckle	Arbuckle		
Fuel Used	332.37	202.71	347.90	317.58	365.57	256.27	226.34	91.39		2152.74
Survey (degree & depth)		1/4" @ 1010'				1" @ 3800'	1" @ 3822'	3/4" @ 3925'		
Mud Info										
Mud Cost	\$0.00	\$0.00	\$2,969.75	\$4,986.00	\$5,519.30	\$1,353.70	\$35.90	\$0.00		\$9,864.65
Weight (# / Gal)				8.6	9.0	9.1	8.8			
Vis (Funnel)				52	60	52	48			
Water Loss (cc)				9.6	10.0	8.8	10.4			
Bit #1										
Bit Make / Type	JZ RT									
Bit Size	12 1/4									
Bit Hours	16.25									16.25
Bit #2										
Bit Make / Type	JZ	JZ	JZ	JZ	JZ	JZ	JZ			
Bit Size	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8			
Bit Hours	6.25	20.00	21.00	20.25	3.75	4.50				75.75
Bit Cumulative Hours	16.25	6.25	20.00	21.00	20.25	3.75	4.50	0.00	0.00	92.00
Weight on Bit (WOB)	15,000	15,000	30,000	35,000	35,000	38,000	38,000			
RPM	100	70	85	85	85	85	85			
Pump Pressure	500	500	650	600	700	700	700			
Drilling (Rotating) Hours	16.25	6.25	20.00	21.00	20.25	3.75	4.50	0.00	0.00	92.00
Daywork Hrs. (Operator's time)										
Rat Hole (>.75 Hrs)										0.00
Wait on Cement		12.00								12.00
Wait on Orders							0.25			0.25
Trip	1.50	0.25				6.25	10.50	3.75		22.25
Circulate	0.50				2.25	10.25	5.00	1.25		19.25
Tool						0.50	1.25			1.75
Testing						2.00	2.50			4.50
Clean Floor										0.00
Logging								3.25		3.25
LDDP / LDDC / Plug well								4.50		4.50
Run Casing / Cement		2.50								2.50
Nipple Down / Jet Collar										0.00
Set Slips / Jet Pits										0.00
Billable Hours	2.00	14.75	0.00	0.00	2.25	19.00	19.25	13.00	0.00	70.25
Non-Billable Hours (Southwind's time)										
Rig Up / Rig Down	2.50							8.50		11.00
Wait on Cement (if NC)										0.00
Drill Rat Hole (<.75 hrs)	0.50									0.50
Drill Plug		0.25								0.25
Circulate / Trip (Surface)		1.25								1.25
Rig Repair						0.75		0.50		1.25
Connections	2.75	1.00	2.75	2.00	1.50	0.25	0.25			10.50
Jet/Displace		0.25	0.75	1.00				1.00		3.00
Surveys		0.25				0.25		0.25		0.75
Rig Check			0.50							0.50
Lost Circulation (< 2 hrs)										0.00
Lay Down Kelly / RH								0.75		0.75
Non-Billable Hrs.	5.75	3.00	4.00	3.00	1.50	1.25	0.25	11.00	0.00	29.75
Footage Cost										
	\$ 14,140.00	\$ 7,798.00	\$ 14,056.00	\$ 9,870.00	\$ 6,216.00	\$ 1,428.00	\$ 1,428.00	\$ -	\$ -	\$ 54,950.00
Daywork Cost										
	\$ 700.00	\$ 5,162.50	\$ -	\$ -	\$ 787.50	\$ 6,650.00	\$ 6,737.50	\$ 4,550.00	\$ -	\$ 24,587.50
Combined Est. Cost*										
	\$ 14,840.00	\$ 12,960.50	\$ 14,056.00	\$ 9,870.00	\$ 7,003.50	\$ 8,078.00	\$ 8,179.50	\$ 4,550.00	\$ -	\$ 79,537.50
<i>*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)</i>										
DST #1 Info -					DST #2 Info -					
Footage Interval: 3745' - 3822' "Arbuckle"					Footage Interval: 3820' - 3335' "Arbuckle"					
Recovery: 730' Slight Oil Cut Watery Mud					Recovery: 1200' Gas in Pipe 350' Muddy Water					

Anhydrite @ 1003' - 1029'

Displaced @ 2761' - 2793'


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. 083

Date	7-6-14	Sec.	31	Twp.	20	Range	15	County	Barton	State	Ks	On Location		Finish	11:15 AM
Lease	Marlene		Well No.	1		Location Pawnee Rock, Ks - west side of									
Contractor	Southwind #6		Owner town, won T Rd 1/2 to 130 Ave, 1/2 N, 1/8 W												
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.	1010'		Charge To H & D Exploration									
Csg.	8 3/8"		Depth	1010'		Street									
Tbg. Size			Depth			City									
Tool			Depth			State									
Cement Left in Csg.	32'		Shoe Joint	32'		The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace	62 1/4 BLS		Cement Amount Ordered 375 70/30 3% cc 2% gel									
EQUIPMENT															
Pumptrk	16		No.	Cement Helper Billie		Common 262									
Bulktrk	4		No.	Driver Lannie M. Tyler		Poz. Mix 113									
Bulktrk	p.u.		No.	Driver Rick		Gel. 7									
JOB SERVICES & REMARKS															
Remarks:	Cement did		Circulate		Hulls										
Fat 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 397									
						Mileage									
						FLOAT EQUIPMENT									
						Guide Shoe Rubber plug									
						Centralizer Baffle plate									
						Baskets									
						AFU Inserts									
						Float Shoe									
						Latch Down									
						Pumptrk Charge Long Surface									
						Mileage 28									
						Tax									
						Discount									
						Total Charge									
Signature 															

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No. 514

Date	7-12-14	Sec.	31	Twp.	20	Range	15	County	Barton	State	KS	On Location		Finish	9:30 PM		
Lease								Well No. #1		Owner							
Contractor								Southwind #8		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								Plug		Charge To H + D Exploration							
Hole Size								7 7/8		T.D.		3925'					
Csg.								Drill Pipe		Depth		Street					
Tbg. Size										Depth		City		State			
Tool										The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered		220 6 3/4 4% Gel					
Meas Line								Displace									
EQUIPMENT																	
Pumptrk		18		No.		Cementer		Helper		Clayton		Common		132			
Bulktrk		9		No.		Driver		Driver		Chad		Poz. Mix		88			
Bulktrk		Pu		No.		Driver		Driver		Brett		Gel.		8			
JOB SERVICES & REMARKS																	
Remarks:										Salt							
Flat Hole -								30 sk		Flowseal		55#					
Mouse Hole										Koi-Seal							
Centralizers										Mud CLR 48							
Baskets										CFL-117 or CD110 CAF 38							
D/V or Port Collar										Sand							
1st Plug @								3724		w/ 50 sk		Handling		228			
2nd Plug @								1170		w/ 50 sk		Mileage		8 1/4			
3rd Plug @								550		w/ 90 sk		FLOAT EQUIPMENT					
4th Plug @								410		w/ 10 sk		Guide Shoe					
												Centralizer					
												Baskets					
												AFU Inserts					
												Float Shoe					
												Latch Down					
												Wood Plug		1			
												Pumptrk Charge		plug			
												Mileage		28			
Signature <i>W. P. P.</i>												Tax					
												Discount					
												Total Charge					