

MORNING DRILLING REPORT

For: H&D Exploration, LLC

SOUTHWIND DRILLING, INC.

RIG No. 6

Well Name: **Stafford Co. Farms #1**
 Location: **1388' FNL & 2559' FEL**
 Section: **11-25S-12W**
 County: **Stafford**
 API: **15-185-23853-00-00**

Elevation: **GL 1849'**
KB 1857'
 Est. TD: **4300'**
 Conductor: **N/A**

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



Surface Casing: **Ran 16 joints with new 2 3/8" 8 5/8" casing, Tally @ 653'. Set @ 663', used 325 sacks total, 175 sacks of A-Con, 3% cc, 1/4# CF, 150 sacks of Common, 2% cc, 1/4# CF, cement circulated, by Basic (Ticket #9799), plug down @ 1:00 pm on 02.13.14.**

Plugging Info: **Plugged well with 150 sacks of 60/40 Poz, 4% gel, 1st plug @ 4156' w/ 50 sacks, 2nd plug @ 682' w/ 50 sacks, 3rd plug @ 62' w/ 20 sacks, , 30 sacks for Rat hole, cemented, by Basic (Ticket #9875), job completed @ 10:00 pm on 02.21.14.**

Rotary Total Depth: **4211'**
 Log Total Depth: **4220'**

Geologist: **Jim Musgrove**

7:00 A.M. Depth: **4211'**

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

Spud Date & Time:	02/12/14	02/13/14	02/14/14	02/15/14	02/16/14	02/17/14	02/18/14	02/19/14	02/20/14	02/21/14	02/22/14	Total
02/12/2014 @ 8:15 PM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	
Total Depth (7:00am)	0	630	977	2275	3120	3390	3590	3810	4075	4211	4211	4211
Daily Progress	630	347	1298	845	270	200	220	265				
Ft. Per Hr.	84.00	77.11	64.90	40.24	22.98	20.51	16.60	13.77	17.00	0.00	#DIV/0!	36.46
Current Operation (7:00am)	Rig Up	Drilling	Drilling	Drilling	Drilling	TOWT	Drilling	TOWT	Drilling	Drilling	Tear Down	
Formation	Surface	Surface	Sand / Shale	Sand / Shale	Shale	Toronto	Lansing	Lansing "L"	Simpson	Arbuckle		
Fuel Used	228.94	182.37	398.40	365.09	340.38	210.50	355.40	319.79	318.50	221.67		2941.02
Survey (degree & depth)		14' @ 663'			1 1/4' @ 3390'				1 1/4' @ 3390'			
Mud Info												
Mud Cost	\$0.00	\$564.55	\$2,700.85	\$2,283.25	\$888.25	\$1,042.90	\$330.45	\$160.90	\$1,235.95	\$0.00		\$9,206.90
Weight (# / Gal)	10.0	8.7	10.1	8.9	9.3	9.2	9.4	9.2	9.4			
Vis (Funnel)	37	38	28	52	60	62	62	57	50			
Water Loss (cc)					8.8	8.8	10.0	12.0	9.2			
Bit #1												
Bit Make / Type	JZ Tooth ReTip											
Bit Size	12 1/4											
Bit Hours	7.50											7.50
Bit #2												
Bit Make / Type		Reed	Reed	Reed	Reed	Reed	Reed	Reed	Reed	Reed		
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8		
Bit Hours		4.50	20.00	21.00	11.75	9.75	13.25	19.25	8.00	0.50		108.00
Bit Cumulative Hours	7.50	4.50	20.00	21.00	11.75	9.75	13.25	19.25	8.00	0.50	0.00	115.50
Weight on Bit (WOB)	20,000	20,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000		
RPM	100	90	80	80	80	80	80	75	70	70		
Pump Pressure	750	600	750	750	750	700	800	850	850	850		
Drilling (Rotating) Hours	7.50	4.50	20.00	21.00	11.75	9.75	13.25	19.25	8.00	0.50	0.00	115.50
Daywork Hrs. (Operator's time)												
Rat Hole (>.75 Hrs)												0.00
Wait on Cement		12.00										12.00
Wait on Water	5.00											5.00
Trip		1.00			6.25	7.25	4.25	1.75	5.75	3.00		29.25
Circulate		0.50			2.00	2.00	2.75	1.75	6.00	1.50		16.50
Tool					1.00	1.00	0.50	0.50	0.75			3.75
Testing					2.00	3.25	2.25		2.75			10.25
Clean Floor												0.00
Logging											4.50	4.50
LDDP / LDDC / Plug well										5.50		5.50
Run Casing / Cement		2.50										2.50
Nipple Down / Jet Cellar												0.00
Set Slips / Jet Pits												0.00
Wait on Loggers												0.00
Wait on Orders												0.00
Billable Hours	5.00	16.00	0.00	0.00	11.25	13.50	9.75	4.00	15.25	14.50	0.00	89.25
Non-Billable Hours (Southwind's time)												
Rig Up / Rig Down	8.00										8.50	16.50
Wait on Cement (if NC)												0.00
Drill Rat Hole (<.75 hrs)	0.25											0.25
Drill Plug		1.00										1.00
Circulate / Trip (Surface)		1.00										1.00
Rig Repair	0.25	0.25		0.25								1.00
Connections	3.00	1.25	3.00	1.75	0.75	0.75	1.00	0.75	0.75			0.75
Jet/Displace			1.00	1.00								13.00
Surveys					0.25							2.00
Rig Check												0.25
Circulate (NB)												0.00
Trip Time (NB)												0.00
Plugged Bit												0.00
Lost Circulation (< 2 hrs)												0.00
Lay Down Kelly / RH											0.50	0.00
Non-Billable Hrs.	11.50	3.50	4.00	3.00	1.00	0.75	1.00	0.75	0.75	9.00	0.00	35.25
Footage Cost	\$ 8,820.00	\$ 4,858.00	\$ 18,172.00	\$ 11,830.00	\$ 3,780.00	\$ 2,800.00	\$ 3,080.00	\$ 3,710.00	\$ 1,904.00	\$ -	\$ -	\$ 58,954.00
Daywork Cost	\$ 1,750.00	\$ 5,600.00	\$ -	\$ -	\$ 3,937.50	\$ 4,725.00	\$ 3,412.50	\$ 1,400.00	\$ 5,337.50	\$ 5,075.00	\$ -	\$ 31,237.50
Combined Est. Cost*	\$ 10,570.00	\$ 10,458.00	\$ 18,172.00	\$ 11,830.00	\$ 7,717.50	\$ 7,525.00	\$ 6,492.50	\$ 5,110.00	\$ 7,241.50	\$ 5,075.00	\$ -	\$ 90,191.50

*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)

DST #1 Info - Footage Interval: 3355' - 3390' "Toronto" Recovery: 15' Mud	DST #2 Info - Footage Interval: 3550' - 3580' Lansing "B" Recovery: 135' Frothy Gassy Oily Mud
DST #3 Info - Footage Interval: 3775' - 3810' Lansing "L" Recovery: 30' Slightly Oil Spotted Mud	DST #4 Info - Footage Interval: 4055' - 4131' "Simpson Sand" Recovery: 45' Mud

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TREATMENT REPORT

Customer Hand D Exploration, LLC	Lease No.	Date 2-21-14
Lease STAFFORD COUNTY FITTINGS	Well # 1	
Field Order # 9875	Station Pratt, Kansas	Casing 1 1/2" Drill Pipe
Type Job C.N.W. - Plug To Abandon	Formation	County Stafford
		State Kansas
		Well Description -255-12W

PIPE DATA		PERFORATION DATA		CEMENT USED		TREATMENT RESUME	
Casing Size 1 1/2" Drill Pipe	Tubing Size	Shots/FC		150 sacks	60/40 Poz	with 48	Total Gel
Depth	Depth	From	To	13.8 Lb./Gal.	Max 6.92 Gal./Stk.	Min 1.43	5 Min. CL. FT./Stk.
Volume	Volume	From	To				10 Min.
Max Press 400 P.S.I.	Max Press	From	To		Avg		15 Min.
Well Connection X-Hole	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Drilling mud and Fresh Water	Gas Volume	Total Load

Customer Representative Wess	Station Manager Kevin Gordley	Operator Clarence R. Messich
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Service Units 37,216	27,463	70,959	19,918
Driver Names Messich	McGraw	Phye	

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:30					Cementer on location.
6:00					Truck on location and hold safety meeting.
6:45		400		5	1st Plug 4,156 Feet - 50 sacks
		300	20	5	start Fresh water Pre-Flush.
		300	32	5	Start mixing cement.
		200	42	5	Start Fresh water Displacement
7:04		-0-	88		Start Drilling mud Displacement.
					stop pumping.
9:25		100		5	2nd Plug 682 Feet - 50 sacks
		100	5	5	start Fresh water Pre-Flush.
		100	17	5	start mixing cement.
9:30		-0-	19.5		Start Fresh water Displacement.
					stop pumping.
		100		3	3rd Plug 62 Feet - 20 sacks
			5		Start mixing cement.
10:00		-0-			Cement circulated to surface
					stop pumping.
			7	3	Plug Rat Hole
10:30					Wash up pump truck.
					Job Complete.
					Thank You.
					Clarence,

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TREATMENT REPORT

Customer <i>H&D-EXPORT-06</i>	Lease No.	Date <i>02-13-14</i>
Lease <i>STAFFORD COUNTY JANS</i>	Well # <i>1</i>	
Field Order # <i>9799</i>	Station <i>ARA-101</i>	Casing <i>8 5/8</i>
Type Job <i>CNW 8 5/8 Surface</i>	Formation	Depth
		County <i>STAFFORD</i>
		State <i>KS</i>
		Legal Description <i>11-25-12</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>653</i>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <i>39 1/2</i>	Volume	From	To	Pad	Min			10 Min.
Max Press <i>500</i>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <i>BC</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <i>1031</i>	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Jellison</i>
Service Units <i>37900</i>	<i>33708</i>	<i>20920</i>
Driver Names <i>Sullivan</i>	<i>TRAUT</i>	<i>70890</i>
		<i>19781</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:45</i>					<i>OO loc safety meeting</i>
					<i>Run 8 5/8 csg.</i>
<i>12:05</i>					<i>Casing on bottom</i>
<i>12:15</i>					<i>Hook Break circ</i>
<i>12:25</i>	<i>150</i>		<i>2</i>	<i>35</i>	<i>1/2 SPNOR</i>
			<i>76</i>	<i>5</i>	<i>mix A-conc amt @ 12 pp.g 3%cc 1/4 of</i>
			<i>32</i>		<i>mix cement w/ 3%cc 1/4 of</i>
					<i>amt mixed shut down</i>
<i>1:00</i>	<i>400</i>		<i>39 1/2</i>	<i>4.5</i>	<i>Release Plug START DISP</i>
					<i>Plug down</i>
					<i>✓ circ 20 BBL amt Pit</i>
					<i>JOB Complete</i>
					<i>Thank you</i>