

1190675

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

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)		1/4" @ 663'			1 1/4" @ 3390'				1 1/4" @ 3390'			
Mud Info												
Mud Cost	\$0.00	\$564.55	\$2,700.35	\$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

BASIC

energy services, L.P.

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
		Anal 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	RATE	PRESS	IGIP
Depth	Depth	From	To	13.8 Lb./Gal	6.92 Gal	1/stk	1.43	5 Min. CL. FT./stk
Volume	Volume	From	To					10 Min.
Max Press	Max Press 400 P.S.I.	From	To					15 Min.
Well Connection X-Hole	Annulus Vol.	From	To					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
---------------------------------	----------------------------------	---------------------------------

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	1 st 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.
					2 nd Plug 682 Feet - 50 sacks
9:25		100		5	start Fresh water Pre-Flush.
		100	5	5	start mixing cement.
		100	17	5	Start Fresh water Displacement.
9:30		-0-	19.5		stop pumping.
					3 rd Plug 62 Feet - 20 sacks
		100		3	Start mixing cement.
			5		Cement circulated to surface
10:00		-0-			stop pumping.
			7	3	Plug Rat Hole
					Wash up pump truck.
10:30					Job Complete.
					Thank You.
					Clarence,

BASIC

energy services, L.P.

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>70890</i>
Driver Names <i>Sullivan</i>	<i>TRAUT</i>	<i>Phyllis</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 casing</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>1st SPNCR</i>
			<i>76</i>	<i>5</i>	<i>mix A-conc amt @ 12 pp.g 3%acc 1/4 of</i>
			<i>32</i>		<i>mix cement w/ 3%acc 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>