

**MORNING DRILLING REPORT**

For: H&D Exploration

**SOUTHWIND DRILLING, INC.**

RIG No. 6

Well Name: **Staudinger Heirs #1**  
 Location: **890' FNL & 444' FEL**  
 Section: **26-15S-12W**  
 County: **Russell**  
 API: **15-167-23969-00-00**

Elevation: **GL 1860'**  
**KB 1868'**  
 Est. TD: **3400'**

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 18 joints of new 23#, 8 5/8" casing, Tally @ 752', Set @ 762', used 325 sacks of Common, 3% cc, 2% gel, cement-circulated, by Quality (Ticket #063), plug down @ 8:45 am on 05.10.14.

Plugging Info: Plugged well with 160 sacks of 60/40 Poz, 4% gel, 1/4# Flo-seal, 1st plug @ 812' w/ 40 sacks, 2nd plug @ 460' w/ 80 sacks, 3rd plug @ 40' w/ 10 sacks, 30 sacks for Rat hole, cemented, by Quality (Ticket #034), job complete @ 11:45 pm on 05.15.14.

Rotary Total Depth: **3341'**

Log Total Depth: **N/A**

Geologist: **Jim Musgrove**

**7:00 A.M. Depth: 3341'**

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

Spud Date & Time:	05/09/14	05/10/14	05/11/14	05/12/14	05/13/14	05/14/14	05/15/14	05/16/14	Total
05/09/2014 @ 1:30 PM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	
Total Depth (7:00am)	0	762	800	2107	2800	3070	3270	3341	
Daily Progress	762	38	1307	693	270	200	71		3341
Ft. Per Hr.	74.34	16.89	67.03	33.80	27.69	21.62	20.29	#DIV/0!	44.55
Current Operation (7:00am)	Rig Up	Run Casing	Drilling	Drilling	Drilling	TIWB	Drilling	Tear Down	
Formation	Surface	Surface	Sand / Shale	Sand / Shale	Sand / Shale	Sand / Shale	Sand / Shale		
Fuel Used	183.15	183.21	318.21	330.42	265.05	226.98	183.00		1690.03
Survey (degree & depth)	3/4" @ 762'				1" @ 3070'				
Mud Cost	\$0.00	\$0.00	\$1,483.95	\$4,103.15	\$962.15	\$755.05	\$485.75		\$7,790.05
Weight (# / Gal)				8.9	9.0	9.2			
Vis (Funnel)				49	47	50			
Water Loss (cc)					10.0	9.2			
<b>Bit #1</b>									
Bit Make / Type	JZ								
Bit Size	12 1/4								
Bit Hours	10.25								10.25
<b>Bit #2</b>									
Bit Make / Type		JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q		
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8		
Bit Hours		2.25	19.50	20.50	9.75	9.25	3.50		64.75
Bit Cumulative Hours	10.25	2.25	19.50	20.50	9.75	9.25	3.50	0.00	75.00
Weight on Bit (WOB)	15,000	10,000	32,000	35,000	35,000	35,000	35,000		
RPM	100	70	85	85	85	85	85		
Pump Pressure	500	450	650	700	650	725	725		
Drilling (Rotating) Hours	10.25	2.25	19.50	20.50	9.75	9.25	3.50	0.00	75.00
<b>Daywork Hrs. (Operator's time)</b>									
Rat Hole (>.75 Hrs)	0.50								0.50
Wait on Cement		8.00							8.00
Trip	1.25				5.75	7.00			14.00
Circulate					2.50	3.50	7.25		13.25
Tool					0.75	1.00			1.75
Testing					2.00	2.25			4.25
Wait on Tester									
Clean Floor after DST							0.75		0.75
Lost Circulation (> 2 hrs)									0.00
Wait on Orders									0.00
Logging									0.00
LDDP / LDDC / Plug well									0.00
Run Casing / Circ / Cement	0.75	1.75					5.00		5.00
Set Silps									2.50
Nipple Down/Jet Cellar									0.00
Billable Hours	2.50	9.75	0.00	0.00	11.00	13.75	13.00	0.00	50.00
<b>Non-Billable Hours (Southwind's time)</b>									
Rig Up / Tear Down	5.25						7.25		12.50
Wait on Cement (NB)		2.00							2.00
Drill Rat Hole (<.75 hrs)	0.75								0.75
Drill Plug		1.00							1.00
Circulate / Trip (Surface)	1.25								1.25
Rig Repair		8.75	0.25		1.75				10.75
Connections	2.50	0.25	3.25	2.25	1.00	0.75	0.25		10.25
Jet/Displace	1.25		0.75	1.00					3.00
Surveys	0.25				0.25				0.50
Rig Check			0.25	0.25	0.25	0.25			1.00
Lost Circulation (< 2 hrs)									0.00
Lay Down Kelly / MH & RH									0.00
Circulate (NB)									0.00
Non-Billable Hrs.	11.25	12.00	4.50	3.50	3.25	1.00	7.50	0.00	43.00
Footage Cost	\$ 10,668.00	\$ 532.00	\$ 18,298.00	\$ 9,702.00	\$ 3,780.00	\$ 2,800.00	\$ 994.00	\$ -	\$ 46,774.00
Daywork Cost	\$ 875.00	\$ 3,412.50	\$ -	\$ -	\$ 3,850.00	\$ 4,812.50	\$ 4,550.00	\$ -	\$ 17,500.00
Combined Est. Cost*	\$ 11,543.00	\$ 3,944.50	\$ 18,298.00	\$ 9,702.00	\$ 7,630.00	\$ 7,612.50	\$ 5,544.00	\$ -	\$ 64,274.00

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

<b>DST #1 Info -</b>	Footage Interval: 3036' - 3070'	"Lansing"	<b>DST #2 Info -</b>	Footage Interval: 3176' - 3230'	Lansing "H-1"
	Recovery: 5' Mud			Recovery: 20' Mud	

Anhydrite @ 757' - 787'

Displaced @ 2484' - 2500'



# 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. 034

Date	5-15-14	Sec.	26	Twp.	15	Range	12	County	Russell	State	KS	On Location		Finish	11:45p.m.	
								Location								
								Michael's Rd R# 198 3/4 Winto								
Lease	Stardinger Heir							Well No.	1							
Contractor	Southwind #6							Owner								
								To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.								
Type Job	Rotary Plug							Charge To								
								H-D Expiration								
Hole Size	7 7/8							T.D.	3341							
Csg.								Depth								
Tbg. Size								Depth								
Tool								Depth								
Cement Left in Csg.								Shoe Joint								
								Cement Amount Ordered 160 2/40 4/6el 14# Flo								
Meas Line								Displace								
<b>EQUIPMENT</b>																
Pumptrk	20	No.	Cementer		Cang		Common		96							
			Helper				Poz. Mix		64							
Bulktrk		No.	Driver		MCK		Gel.		6							
			Driver				Calcium									
Bulktrk	1	No.	Driver		Cang		Hulls									
			Driver				Salt									
<b>JOB SERVICES &amp; REMARKS</b>																
Remarks:								Rat Hole 30SK								
Mouse Hole								Flowseal 40H								
Centralizers								Kol-Seal								
Baskets								Mud CLR 48								
D/V or Port Collar								CFL-117 or CD110 CAF 36								
	15'	812	40SK				Sand									
	2nd	460	80SK				Handling 166									
	3rd	40'	10SK				Mileage									
<b>FLOAT EQUIPMENT</b>																
Guide Shoe																
Centralizer																
Baskets 8 5/8 Day Hole Plug																
AFU Inserts																
Float Shoe																
Latch Down																
Pumptrk Charge plug																
Mileage																
Tax																
Discount																
Total Charge																
Signature <i>W. P. P.</i>																