

MORNING DRILLING REPORT

SOUTHWIND DRILLING, INC.

For: H&D Exploration

RIG No. 6

Well Name: **Staudinger #2**
 Location: **1419' FSL & 1859' FEL**
 Section: **25-15S-12W**
 County: **Russell**

Elevation: **GL 1845'**
 KB **1853'**
 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



API: 15-167-23964-00-00

Surface Casing: **Ran 12 joints with new 23#, 8 5/8" casing, Tally @ 505', Set @ 515', used 250 sacks of Common, 3% cc, 2% gel, cement circulated, by Quality (Ticket #173), plug down @ 11:30 pm on 05.02.14.**

Production Info: **Ran 79 joints of new 15.5#, 5 1/2" casing, Tally @ 3307', Set @ 3312', Port Collar Set @ 766', used 180 sacks of Common, 10% salt, 5% Gilsonite, cemented, by Quality (Ticket #061), job complete @ 8:45 am on 05.08.14.**

Rotary Total Depth: **3320'**

Log Total Depth: **3319'**

Geologist: **Jim Musgrove**

7:00 A.M. Depth: 3320'

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

Spud Date & Time: 5/2/14 @ 11:00am	05/02/14 Day 1	05/03/14 Day 2	05/04/14 Day 3	05/05/14 Day 4	05/06/14 Day 5	05/07/14 Day 6	05/08/14 Day 7	Total
Total Depth (7:00am)	0	515	1919	2798	3215	3320	3320	
Daily Progress	515	1404	879	417	105	0		3320
Fl. Per Hr.	89.57	78.00	43.41	20.10	17.50	#DIV/0!	#DIV/0!	46.93
Current Operation (7:00am)	Rig Up	WOC	Drilling	Drilling	CFS	Short Trip	Run Casing	
Formation	Surface	Sand / Shale	Sand / Shale	Sand / Shale	Sand / Shale	LKC	Arbuckle	
Fuel Used	113.67	281.01	311.34	344.92	270.82	91.39	45.79	1458.94
Survey (degree & depth)	1" @ 515'				1 1/2" @ 3215'			
Mud Cost	\$0.00	\$771.45	\$3,860.35	\$643.25	\$2,085.25	\$396.45	\$261.10	\$8,017.85
Weight (# / Gal)			9.2	9.0	9.2			
Vis (Funnel)		27	48		43			
Water Loss (cc)				10.4	9.2			
Bit #1								
Bit Make / Type	JZ RT							
Bit Size	12 1/4							
Bit Hours	5.75							5.75
Bit #2								
Bit Make / Type		JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q			
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8			
Bit Hours		18.00	20.25	20.75	6.00			65.00
Bit Cumulative Hours	5.75	18.00	20.25	20.75	6.00	0.00	0.00	70.75
Weight on Bit (WOB)	10,000	30,000	35,000	35,000	35,000			
RPM	100	85	85	85	85			
Pump Pressure	750	650	650	700	700			
Drilling (Rotating) Hours	5.75	18.00	20.25	20.75	6.00	0.00	0.00	70.75
Daywork Hrs. (Operator's time)								
Rat Hole (>.75 Hrs)	0.75							0.75
Wait on Cement	7.50	0.50						8.00
Trip	1.00				8.25	5.25		14.50
Circulate	0.50			1.00	5.00	1.00		7.50
Tool					1.00	1.00		2.00
Testing					2.75	2.75		5.50
Clean Floor after DST					0.25			0.25
Wait on Orders						0.50		0.50
Logging						4.00		4.00
Nipple Down / Jet Cellar								0.00
LDDP / LDDC						4.00		4.00
Run Casing / Circ / Cement	1.50					1.50	1.75	4.75
Set Slips							1.00	1.00
Wait on Loggers						2.50		2.50
Lost Circulation (> 2 hrs)								0.00
Billable Hours	11.25	0.50	0.00	1.00	17.25	22.50	2.75	55.25
Non-Billable Hours (Southwind's time)								
Rig Up / Tear Down	2.50						5.25	7.75
Wait on Cement (NB)								0.00
Drill Rat Hole (<.75 hrs)	0.75							0.75
Drill Plug		0.50						0.50
Circulate / Trip (Surface)	0.75							0.75
Rig Repair		0.25		0.25		0.50		1.00
Connections	2.50	3.75	2.25	1.50	0.50			10.50
Jet/Displace	0.25	0.75	1.25	0.25				2.50
Surveys	0.25				0.25			0.50
Rig Check		0.25	0.25	0.25				0.75
Lost Circulation (< 2 hrs)								0.00
Lay Down Kelly / MH & RH						1.00		1.00
Circulate (NB)								0.00
Non-Billable Hrs.	7.00	5.50	3.75	2.25	0.75	1.50	5.25	26.00
Footage Cost	\$ 7,210.00	\$ 19,656.00	\$ 12,306.00	\$ 5,838.00	\$ 1,470.00	\$ -	\$ -	\$ 46,480.00
Daywork Cost	\$ 3,937.50	\$ 175.00	\$ -	\$ 350.00	\$ 6,037.50	\$ 7,875.00	\$ 962.50	\$ 19,337.50
Combined Est. Cost*	\$ 11,147.50	\$ 19,831.00	\$ 12,306.00	\$ 6,188.00	\$ 7,507.50	\$ 7,875.00	\$ 962.50	\$ 65,817.50

*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: 3164' - 3215'
 Recovery: 2223' Gas in Pipe
 170' Oil

DST #2 Info -

Footage Interval: 3264' - 3320' "Arbuckle"
 Recovery: 120' Gas in Pipe
 420' Gassy Oil

Anhydrite @ 753' - 776'

Displaced @ 2502'

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. 173

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-2-14	25	15	12	Russell	KS		11:30 PM
Lease				Location		Finish	
Strandinger				281 + Michealis E to Rd 199 1/4 N W into			
Contractor			Well No.	Owner			
Southwind #6			#2	To Quality Oilwell Cementing, Inc.			
Type Job			You are hereby requested to rent cementing equipment and furnish				
Surface			cement and helper to assist owner or contractor to do work as listed.				
Hole Size		T.D.	Charge To				
12 1/4		515'	H + D Exploration				
Csg.		Depth	Street				
8 5/8		515'					
Tbg. Size		Depth	City				
			State				
Tool		Depth	The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg.		Shoe Joint	Cement Amount Ordered				
25'		25'	250 com 3% or 2% bel				
Meas Line		Displace					
		31 bbl					
EQUIPMENT			Common				
Pumptrk	No.	Cementer	250				
5		Helper					
		Matt					
Bulktrk	No.	Driver	Poz. Mix				
3		Chad					
Bulktrk	No.	Driver	Gel.				
Pu		Brett	5				
			Calcium				
			9				
JOB SERVICES & REMARKS			Hulls				
Remarks:			Salt				
Rat Hole			Flowseal				
Mouse Hole			Kol-Seal				
Centralizers			Mud CLR 48				
Baskets			CFL-117 or CD110 CAF 38				
D/V or Port Collar			Sand				
			Handling				
			264				
			Mileage				
			8 5/8				
Cement			FLOAT EQUIPMENT				
Circulated!!			Guide Shoe				
			Centralizer				
			Baskets				
			AFU Inserts				
			Float Shoe				
			Latch Down				
			Rubber Plug - 1				
			Pumptrk Charge				
			Long Surface				
			Mileage				
			/ 8				
Signature			Tax				
			Discount				
			Total Charge				

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. 061

Date	5-8-14	Sec.	25	Twp.	15	Range	12	County	Russell	State	Ks	On Location		Finish	8:45 AM
Lease	Strandinger														
Contractor	Southwind		Well No. #2		Owner 1/4 N, w/into										
Type Job	Production														
Hole Size	7 7/8"		T.D.	3320'		Charge To H+D Exploration									
Csg.	New 5 1/2" 15.504		Depth	3312'		Street									
Tbg. Size			Depth			City State									
Tool	Port Collar		Depth	766'		The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	18.03'		Shoe Joint	18.03'		Cement Amount Ordered 180 Common 10% Salt									
Meas Line			Displace	78 1/4 BLS		5% Gilsomite - 500 gal mud Clear 48									
EQUIPMENT													Common 180		
Pumptrk	16	No.	Cementer	Billy		Poz. Mix									
Bulktrk	3	No.	Driver	Chad		Gel.									
Bulktrk	p.u.	No.	Driver	Rick		Calcium									
JOB SERVICES & REMARKS													Hulls		
Remarks:	Salt 16														
Rat Hole	Flowseal														
Mouse Hole	Kol-Seal 900#														
Centralizers	1, 3, 5, 7, 9, 11, 13, 62														
Baskets	2, 60, 61														
D/V or Port Collar	61" Collar 766'														
pipe on bottom, break circulation													Handling 205		
pump 500 gal mud Clear 48													Mileage		
plug Rathole w/ 30sx Hook to 5 1/2" casing & mix cement, shut down @ Walsh pump & lines. Release plug & displaced with 78 1/4 BLS of water. Released @ hole.													FLOAT EQUIPMENT		
- lift pressure 900 #													Guide Shoe		
Land plug to 1500 #													Centralizer 8 fusco's		
													Baskets 3		
													AFU Inserts		
													Float Shoe		
													Latch Down 1		
													1 Port Collar		
													1 Packer shoe		
													Pumptrk Charge prod string		
													Mileage 18		
Signature <i>G. Roberts</i>													Tax		
													Discount		
													Total Charge		