

MORNING DRILLING REPORT

SOUTHWIND DRILLING, INC.

H&D Exploration, LLC

RIG No. 1

Well Name: DeWald #1  
 Location: 2090' FSL & 1090' FWL  
 Section: 25-15S-15W  
 County: Russell  
 API: 15-167-24031-00-00

Elevation: GL 1912'  
 KB 1922'  
 Est. TD: 3400'

Rig No. 1 (Pusher Larry Beavers) 620 617-3478  
 Rig No. 1 (Doghouse) 820 794-2075  
 Southwind Drilling Office 620 564-3800



Surface Casing: Ran 22 joints of new 2 3/8", 8 5/8" casing, Tally @ 924.81', Set @ 936.81', used 350 sacks of 60/40, 3% cc, 2% gel, cement circulated, by Quality (Ticket #940), plug down @ 12:45 pm on 05.12.15.

Production Info: Ran 81 joints of new 5 1/2" casing, Tally @ 3442', Set @ 3452', used 150 sacks of Common, 10% salt, 5% Gilsonite, cemented, by Quality (Ticket #1417), job complete @ 2:00 pm on 05.18.15.

Rotary Total Depth: 3460'  
 Log Total Depth: 3458' Geologist: Jim Musgrove

7:00 A.M. Depth: 3460'		7:00 A.M. Current Operation: TEAR DOWN								Total
Spud Date & Time:	05/11/15	05/12/15	05/13/15	05/14/15	05/15/15	05/16/15	05/17/15	05/18/15	05/19/15	
05/11/2015 @ 5:00 PM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	
Total Depth (7:00am)	0	851	1577	2530	3200	3255	3390	3460	3460	3460
Daily Progress	851	726	953	670	55	135	70	0		3460
Ft. Per Hr.	87.28	82.97	48.25	33.92	16.92	18.62	28.00	#DNV/0!	#DNV/0!	48.73
Current Operation (7:00am)	Rig Up	Drilling	Drilling	Drilling	CFS	TOWT	CFS	CTCH	Tear Down	
Formation	Surface	Clay / Redbed	Clay / Redbed	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale			
Fuel Used:(39.6 Gal/ Inch)	316.80	396.00	475.20	316.80	316.80	198.00	158.40	118.80		2296.80
Survey (degree & depth)		3/4' @ 943'					3/4' @ 3406'			

Mud Cost	\$0.00	\$0.00	\$0.00	\$6,192.45	\$0.00	\$0.00	\$694.80	\$600.50		\$7,487.75
Weight (# / Gal)	10.3		8.7	9.1	9.2	9.2	9.3			
Vis (Funnel)	38		60	53	52	54	50			
Water Loss (cc)				7.2	9.2	7.6	10.2			

Bit #1		Bit #2		Bit #3		Bit #4		Bit #5		Total
Bit Make / Type	HTC J11	HTC J11								
Bit Size	12 1/4	12 1/4								
Bit Hours	9.75	1.00								10.75
Bit Make / Type		JZ HA20-Q	JZ HA20-Q	JZ HA20-Q						
Bit Size		7 7/8	7 7/8	7 7/8						
Bit Hours		7.75	19.75	19.75						47.25
Bit Make / Type					Reed J-22	Reed J-22	Reed J-22			
Bit Size					7 7/8	7 7/8	7 7/8			
Bit Hours					3.25	7.25	2.50			13.00
Bit Cumulative Hours	9.75	8.75	19.75	19.75	3.25	7.25	2.50	0.00	0.00	71.00
Weight on Bit (WOB)	20,000	25,000	32,000	32,000	32,000	32,000	32,000			
RPM	120	100	80	80	80	80	80			
Pump Pressure	800	700	700	800	800	750	750			
Drilling (Rotating) Hours	9.75	8.75	19.75	19.75	3.25	7.25	2.50	0.00	0.00	71.00

Daywork Hrs. (Operator's time)											
Rat Hole (>.75 Hrs)											0.00
Wait on Cement											0.00
Trip					10.00	7.00	7.25				24.25
Circulate				2.00	2.75	4.50	5.00				14.25
Tool					1.50	1.50	1.00				4.00
Testing					5.50	2.50	2.50				10.50
Clean Floor after DST					0.50						0.50
Wait on Orders							0.75				0.75
Logging							4.50				4.50
LDDP / LDDC								2.00			2.00
Run Casing / Circ / Cement		2.75						3.25			6.00
Set Stps								0.50			0.50
Nipple Down/Jet Cellar								1.00			1.00
Billable Hours	0.00	2.75	0.00	2.00	20.25	15.50	21.00	6.75	0.00		68.25

Non-Billable Hours (Southwind's time)											
Rig Up	9.50							8.00			17.50
Wait on Cement (NB)		8.00									8.00
Drill Mouse Hole											0.00
Drill Rat Hole (<.75 hrs)	0.50										0.50
Drill Plug		0.75									0.75
Circulate / Trip (Surface)		0.75									0.75
Rig Repair	0.25					0.25	0.25				0.75
Connections	3.50	1.75	2.00	1.50	0.25	0.50					9.50
Jet/Displace	0.25	0.75	1.50					0.50			3.00
Surveys		0.25						0.25			0.50
Rig Check	0.25	0.25	0.75	0.75	0.25	0.50					2.75
Lost Circulation (< 2 hrs)											0.00
Lay Down Kelly / MH & RH								0.75			0.75
Trip Time for repair											0.00
Trip Time for cracked collar											0.00
Non-Billable Hrs.	14.25	12.50	4.25	2.25	0.50	1.25	0.50	9.25	0.00		44.75

Footage Cost	\$ 10,212.00	\$ 8,712.00	\$ 11,436.00	\$ 8,040.00	\$ 660.00	\$ 1,620.00	\$ 840.00	\$ -	\$ -	\$ 41,520.00
Daywork Cost	\$ -	\$ 825.00	\$ -	\$ 600.00	\$ 6,075.00	\$ 4,650.00	\$ 6,300.00	\$ 2,025.00	\$ -	\$ 20,475.00
Combined Est. Cost*	\$ 10,212.00	\$ 9,537.00	\$ 11,436.00	\$ 8,640.00	\$ 6,735.00	\$ 6,270.00	\$ 7,140.00	\$ 2,025.00	\$ -	\$ 61,995.00

\*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: 3160' - 3200' Recovery: 88' Gas In Pipe 1' Clean Oil 67' Oil Cut Muddy Water 315' Gassy Oil Spotted Oil Cut Mud	<b>DST #2 Info -</b>	Footage Interval: 3208' - 3255' Recovery: 7' Mud Lansing "D-F"
<b>DST #3 Info -</b>	Footage Interval: 3278' - 3375' "Lower Lansing" Recovery: 100' Gas In Pipe 146' Heavy Oil Cut Mud	<b>DST #4 Info -</b>	Footage Interval: 3370' - 3406' Recovery: 12' Oil Cut Mud

Anhydrite @ 932' - 971'

Displaced @ 2365' - 2388'

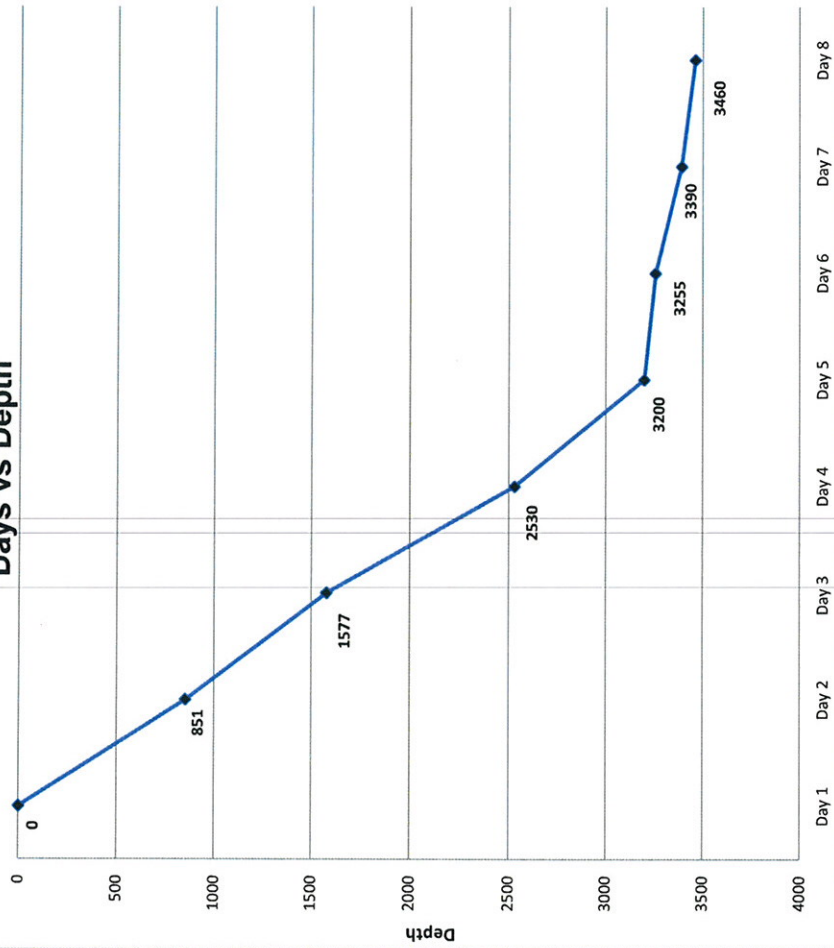


# Job Summary Graphical Report

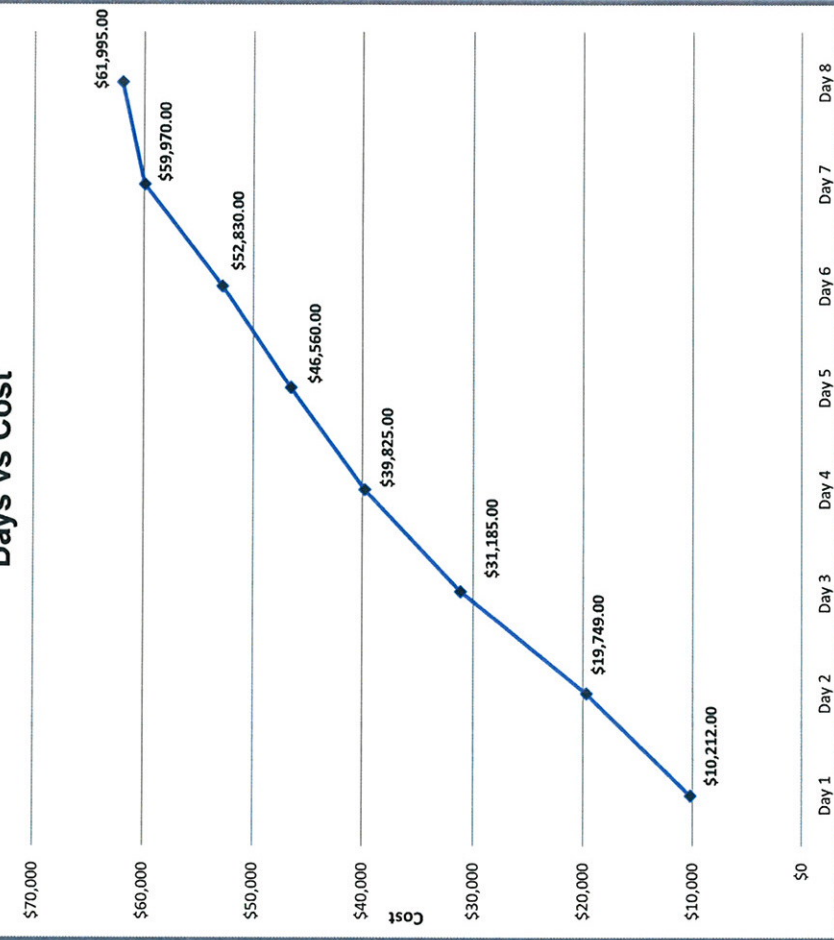
Southwind Rig No. 1

DeWald #1

### Days vs Depth



### Days vs Cost



# 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. 1417

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11/11	25	15	11	Russell	KS		2:00PM

Location: Milberger w to 150 Rd 1/2 N. E 2

Lease DeWald Well No. 1 Owner

Contractor Southwind 21 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 long string Charge To HD Exp.

Hole Size 7 7/8 T.D. 3460 Street

Csg. 5 1/2 Depth 3452 City State

Tbg. Size Depth 3452 City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint 18 Cement Amount Ordered 150 x 200# 10% salt, 5% gilsonite

Meas Line Displace 91/466

**EQUIPMENT** Common

Pumptrk <u>17</u>	No.	Cementer		Poz. Mix
		Helper		

Bulktrk <u>9</u>	No.	Driver		Gel.
		Driver		

Bulktrk <u>14</u>	No.	Driver		Calcium
		Driver		

**JOB SERVICES & REMARKS** Hulls

Remarks: Salt

Rat Hole 30 Flowseal

Mouse Hole 15 Kol-Seal

Centralizers 1,3,5,7,9,11,13,15 Mud CLR 48 500gal

Baskets 4 CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

Handling

Mileage

**FLOAT EQUIPMENT**

Guide Shoe

Centralizer 8 turbos

Baskets 1

AFU Inserts

Float Shoe 1

Latch Down

Pumptrk Charge

Mileage

Tax

Discount

Total Charge

X Signature E. Acholtz