

MORNING DRILLING REPORT
H&D Exploration, LLC

SOUTHWIND DRILLING, INC.
RIG No. 1

Well Name: R&R #1
Location: 1283' FSL & 2385' FEL
Section: 30-15S-14W
County: Russell
API: 15-167-24026-00-00

Elevation: GL 1903'
KB 1913
Est. TD: 3400'

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

Surface Casing: Ran 22 joints of new 23#, 8 5/8" casing, Tally @ 933', Set @ 946.69', used 350 sacks of 80/20, 3% cc, 2% gel, cement circulated, by Quality (Ticket #1372), plug down @ 7:15 am on 01.06.15.

Production Info: Ran 81 joints of used 15.5#, 5 1/2" casing, Tally @ 3420', Set @ 3430', used 135 sacks of Common, 10% salt, 5% Gileonite, cemented, by Quality (Ticket #750), job complete @ 8:00 pm on 01.12.15.

Rotary Total Depth: 3440'
Log Total Depth: 3440'

Geologist: Jim Musgrove



7:00 A.M. Depth: 3440' **7:00 A.M. Current Operation: TEAR DOWN**

Spud Date & Time: 01/05/2015 @ 12:30 PM	01/05/15 Day 1	01/06/15 Day 2	01/07/15 Day 3	01/08/15 Day 4	01/09/15 Day 5	01/10/15 Day 6	01/11/15 Day 7	01/12/15 Day 8	Total
Total Depth (7:00am)	0	936	1440	2230	2935	3195	3337	3440	3440
Daily Progress	936	502	790	705	260	142	21.68	#DIV/0!	43.68
Ft. Per Hr.	113.70	52.84	42.70	33.98	24.19	22.72	CTCH	Logging	
Current Operation (7:00am)	Rig Up	Run Casing	Drilling	Drilling	Drilling	TWB	LKC	Arbuckle	
Formation	Surface	Redbed / Anhy.	Redbed / Shale	Lime / Shale	Lime / Shale	LKC	LKC	LKC	2890.80
Fuel Used:(39.6 Gal/ Inch)	356.40	277.20	594.00	435.60	396.00	514.80			
Survey (degree & depth)	1" @ 938'				2" @ 3195'		1 3/4" @ 3440'		

Mud Cost	\$775.50	\$58.09	\$4,390.09	\$424.00	\$305.46	\$33.38	\$0.00		\$5,986.52
Weight (# / Gal)			9.3	9.0	9.3	9.4	9.5		
Vis (Funnel)			29	54	55	52	55		
Water Loss (cc)			7.8	8.0	8.0	7.6	8.0		
BIT #1									
Bit Make / Type	Smith F655 H4								
Bit Size	12 1/4								
Bit Hours	8.25								
BIT #2									
Bit Make / Type	JZHA20								
Bit Size	7 7/8								
Bit Hours	78.75								
Bit Cumulative Hours	8.25								
Weight on Bit (WOB)	25,000								
RPM	120								
Pump Pressure	650								
Drilling (Rotating) Hours	8.25								

Daywork Hrs. (Operator's time)										
Rat Hole (>.75 Hrs)										0.00
Wait on Cement	12.00									12.00
Trip	1.25									17.25
Circulate	0.50									3.50
Tool										7.00
Testing										0.00
Clean Floor after DST										0.50
Wait on Tester										4.75
Logging										2.25
LDDP / LDDC										7.00
Run Casing / Circ / Cement	3.25									0.50
Set Slips										0.00
Nipple Down/Jet Collar										77.25
Billable Hours	5.00									12.25

Non-Billable Hours (Southwind's time)										
Rig Up	5.00									7.50
Drill Mouse Hole										0.50
Drill Rat Hole (<.75 hrs)	0.50									1.00
Drill Plug	1.00									1.00
Circulate / Trip (Surface)	1.00									0.50
Rig Repair										9.00
Connections	3.25									3.00
Jet/Displace	0.75									0.75
Surveys	0.25									1.00
Rig Check										0.00
Lost Circulation (< 2 hrs)										1.00
Lay Down Kelly / MH & RH										0.00
Trip Time for repair										2.75
Trip Time for cracked collar	10.75									28.00
Non-Billable Hrs.	2.25									2.50

Footage Cost	\$ 11,725.00	\$ 6,275.00	\$ 9,875.00	\$ 8,812.50	\$ 3,250.00	\$ 1,775.00	\$ 1,287.50	\$ -	\$ 43,000.00
Daywork Cost	\$ 1,750.00	\$ 4,287.50	\$ -	\$ -	\$ 4,112.50	\$ 5,950.00	\$ 6,562.50	\$ 4,375.00	\$ 27,037.50
Combined Est. Cost*	\$ 13,475.00	\$ 10,562.50	\$ 9,875.00	\$ 8,812.50	\$ 7,362.50	\$ 7,725.00	\$ 7,850.00	\$ 4,375.00	\$ 70,037.50

*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: 3140' - 3195' Recovery: 5' Mud	DST #2 Info - Footage Interval: 3284' - 3337' Recovery: 1638' Gas In Pipe 252' Heavy Oil Cut Gassy Mud
DST #3 Info - Footage Interval: 3336' - 3397' Recovery: 5' Mud	DST #4 Info - Footage Interval: Recovery:

Anhydrite @ 927' - 960'

Displaced @ 2310' - 2335'

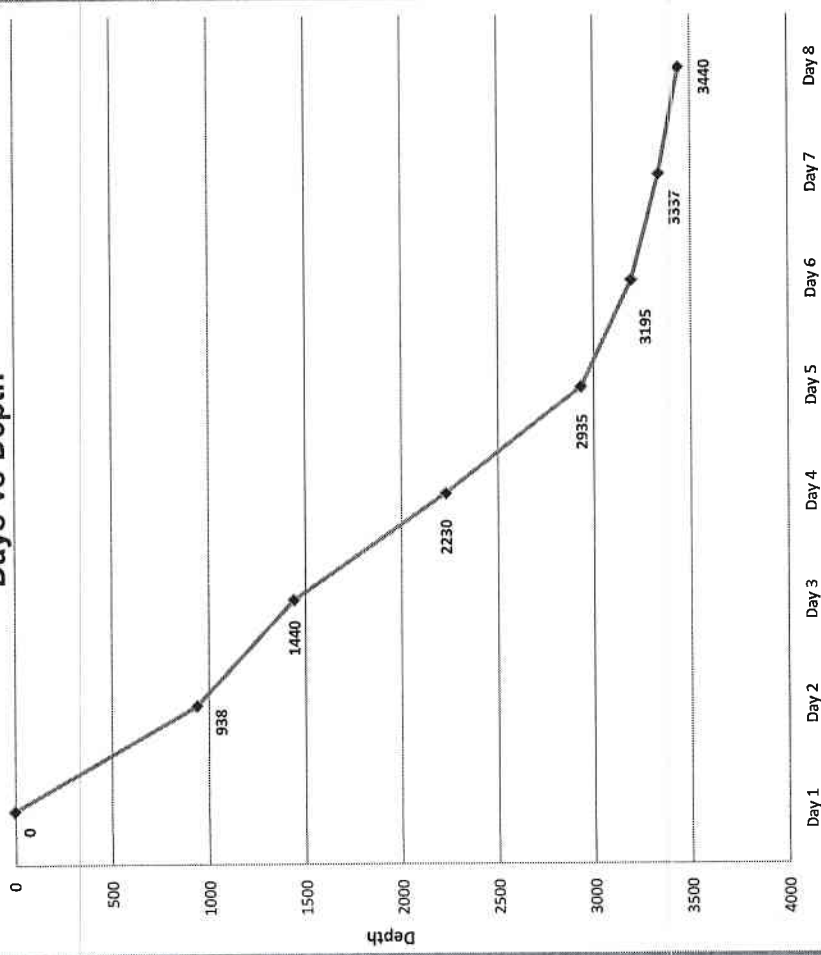
Job Summary Graphical Report

Southwind Rig No. 1

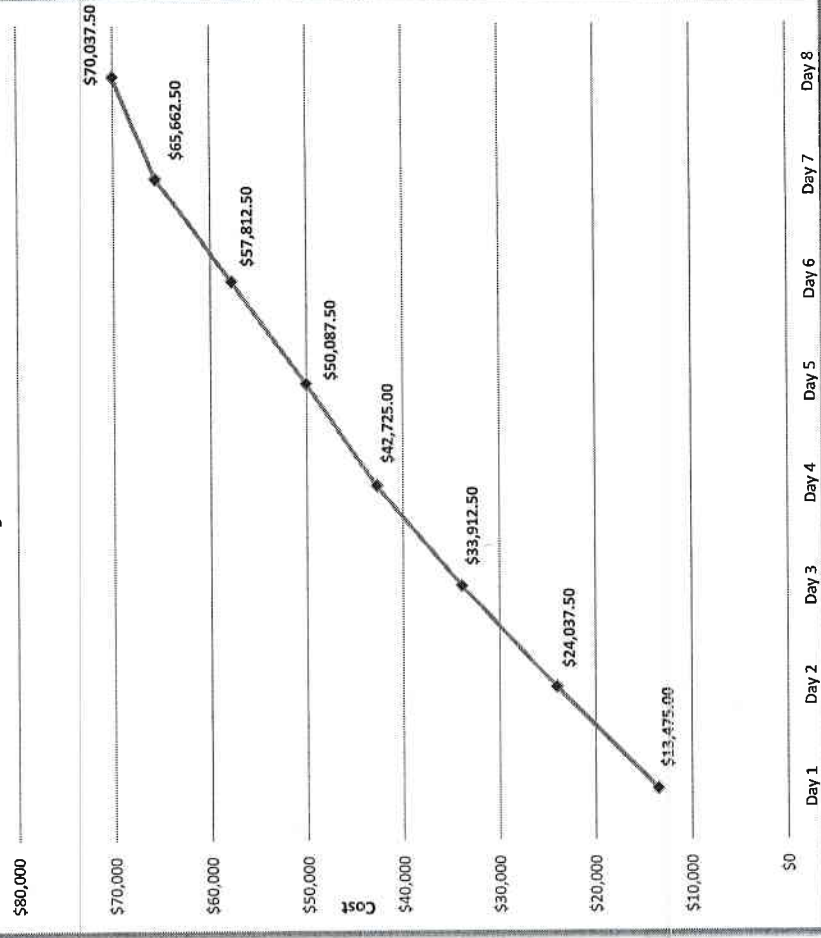
R&R #1



Days vs Depth



Days vs Cost



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Production Info:



Rotary Total Depth: _____
 Log Total Depth: _____
 Geologist: Jim Musgrove

7:00 A.M. Depth: 938' 7:00 A.M. Current Operation: RUN SURFACE CASING

Spud Date & Time:	01/05/15	01/06/15	01/07/15	01/08/15	01/09/15	01/10/15	11/11/15	Total
01/05/2015 @ 12:30 PM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
Total Depth (7:00am)	0	938						938
Daily Progress	938							938
Ft. Per Hr.	113.70	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	113.70
Current Operation (7:00am)	Rig Up	Run Casing						
Formation	Surface	Redbed / Anhy.						
Fuel Used:(39.6 Gal/ Inch)	356.40							356.40
Survey (degree & depth)	1° @ 938'							
Mud Cost	\$0.00							\$0.00
Weight (# / Gal)								
Vis (Funnel)								
Water Loss (cc)								
Bit #1								
Bit Make / Type	Smith F655 H4							
Bit Size	12 1/4							
Bit Hours	8.25							8.25
Bit #2								
Bit Make / Type								
Bit Size								
Bit Hours								0.00
Bit Cumulative Hours	8.25	0.00	0.00	0.00	0.00	0.00	0.00	8.25
Weight on Bit (WOB)	25,000							
RPM	120							
Pump Pressure	650							
Drilling (Rotating) Hours	8.25	0.00	0.00	0.00	0.00	0.00	0.00	8.25
Daywork Hrs. (Operator's time)								
Rat Hole (>.75 Hrs)								0.00
Wait on Cement								0.00
Bit Trip								0.00
Trip	1.25							1.25
Circulate	0.50							0.50
Tool								0.00
Testing								0.00
Clean Floor after DST								0.00
Wait on Tank Truck / Reverse Fluid								0.00
Logging								0.00
LDDP / LDDC / Plug well								0.00
Run Casing / Circ / Cement	3.25							3.25
Set Slips								0.00
Nipple Down/Jet Cellar								0.00
Billable Hours	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
Non-Billable Hours (Southwind's time)								
Rig Up	5.00							5.00
Drill Mouse Hole								0.00
Drill Rat Hole (<.75 hrs)	0.50							0.50
Drill Plug								0.00
Circulate / Trip (Surface)	1.00							1.00
Rig Repair								0.00
Wait on Parts								0.00
Connections	3.25							3.25
Jet/Displace	0.75							0.75
Surveys	0.25							0.25
Rig Check								0.00
Lost Circulation (< 2 hrs)								0.00
Lay Down Kelly / MH & RH								0.00
Plugging Issues								0.00
Change Bit								0.00
Trip Time for repair								0.00
Trip Time for Hole in Pipe								0.00
Non-Billable Hrs.	10.75	0.00	0.00	0.00	0.00	0.00	0.00	10.75
Footage Cost	\$ 11,725.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,725.00
Daywork Cost	\$ 1,750.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,750.00
Combined Est. Cost*	\$ 13,475.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,475.00

*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:
 Recovery:

DST #2 Info -

Footage Interval:
 Recovery:

Anhydrite @

Displaced @

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 2070

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

Date 1-6-14	Sec. 30	Twp. 15	Range 17	County Russell	State KS	On Location	Finish 7:15 AM
				Location M Huggel 12w N 2e			

Lease RWR	Well No. 1	Owner
Contractor Southwood		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 Surface		Charge To HD EXP
Hole Size 12 1/4	T.D. 938	
Csg. 8 1/2	Depth 945	Street
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 38	Cement Amount Ordered 250 @ 945 @ 2 1/2 gal
Meas Line	Displace 57 1/2 bbl	

EQUIPMENT

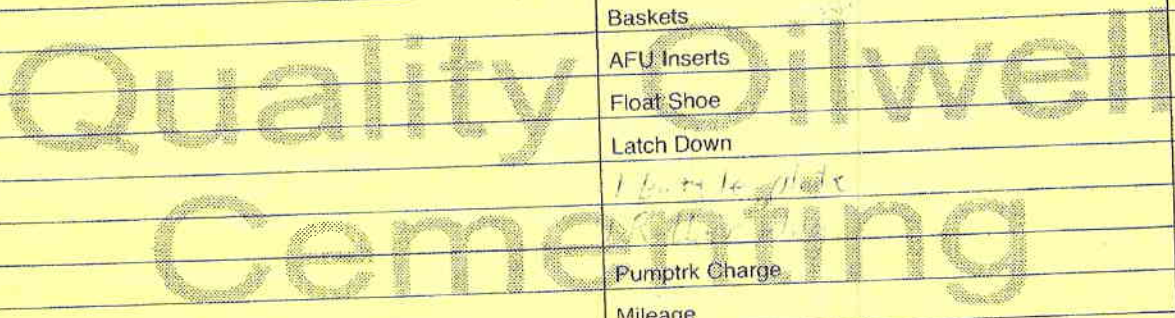
Pumptrk 17	No.	Cementor	Common
		Helper Lemigo	Poz. Mix
Bulktrk 19	No.	Driver Lemigo	Gel.
		Driver Lemigo	Calcium
Bulktrk 19	No.	Driver Lemigo	Hulls
		Driver Lemigo	Salt

JOB SERVICES & REMARKS

Remarks: Cement did circulate	
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
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	1 1/2 in. plate
	Pumptrk Charge
	Mileage



Tax
Discount
Total Charge

X Signature [Signature]

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. 1372

Date 1-6-14	Sec. 20	Twp. 15	Range 14	County Russell	State KS	On Location	Finish 7:15 AM
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Lease R & R		Well No. 1	Owner
Contractor Southwood		1	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 Surface			Charge To HD Exp
Hole Size 12 1/4	T.D. 938		
Csg. 8 1/2	Depth 945		Street
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 38		Cement Amount Ordered 250 2 1/2 2 1/2 2 1/2 2 1/2
Meas Line	Displace 57 1/2 LLI		

EQUIPMENT

Pumptrk 17	No.	Cementor	
		Helper Lemig W.	
Bulktrk 19	No.	Driver	
		Driver Louie M.	
Bulktrk 14	No.	Driver	
		Driver	

JOB SERVICES & REMARKS

Remarks: Cement + 1/2 circulate
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar

Common

Poz. Mix

Gel.

Calcium

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

1 lb. + 1 lb. plate

1 lb. + 1 lb. plate

Pumptrk Charge

Mileage

Tax
Discount
Total Charge

X Signature *[Signature]*

