



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1238819  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1238819

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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**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	TWB	LKC	LKC	Arbuckle	
Formation	Surface	Redbed / Anhy.	Redbed / Shale	Lime / Shale	Lime / Shale				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																																																																																																																																
<table border="1"> <thead> <tr> <th colspan="10">BIT #1</th> </tr> <tr> <th>Bit Make / Type</th> <td colspan="9">Smith F655 H4</td> </tr> <tr> <th>Bit Size</th> <td colspan="9">12 1/4</td> </tr> <tr> <th>Bit Hours</th> <td colspan="9">8.25</td> </tr> <tr> <th colspan="10">BIT #2</th> </tr> <tr> <th>Bit Make / Type</th> <td colspan="9">JZHA20</td> </tr> <tr> <th>Bit Size</th> <td colspan="9">7 7/8</td> </tr> <tr> <th>Bit Hours</th> <td>9.50</td> <td>18.50</td> <td>20.75</td> <td>10.75</td> <td>6.25</td> <td>4.75</td> <td>0.00</td> <td>78.75</td> </tr> <tr> <th>Bit Cumulative Hours</th> <td>8.25</td> <td>9.50</td> <td>18.50</td> <td>28.75</td> <td>10.75</td> <td>6.25</td> <td>4.75</td> <td>0.00</td> <td>78.75</td> </tr> <tr> <th>Weight on Bit (WOB)</th> <td>25,000</td> <td>20,000</td> <td>28,000</td> <td>32,000</td> <td>32,000</td> <td>32,000</td> <td>32,000</td> <td></td> </tr> <tr> <th>RPM</th> <td>120</td> <td>100</td> <td>80</td> <td>80</td> <td>80</td> <td>80</td> <td>80</td> <td></td> </tr> <tr> <th>Pump Pressure</th> <td>650</td> <td>650</td> <td>800</td> <td>700</td> <td>750</td> <td>800</td> <td>750</td> <td></td> </tr> <tr> <th>Drilling (Rotating) Hours</th> <td>8.25</td> <td>9.50</td> <td>18.50</td> <td>20.75</td> <td>10.75</td> <td>6.25</td> <td>4.75</td> <td>0.00</td> <td>78.75</td> </tr> </thead></table>										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	9.50	18.50	20.75	10.75	6.25	4.75	0.00	78.75	Bit Cumulative Hours	8.25	9.50	18.50	28.75	10.75	6.25	4.75	0.00	78.75	Weight on Bit (WOB)	25,000	20,000	28,000	32,000	32,000	32,000	32,000		RPM	120	100	80	80	80	80	80		Pump Pressure	650	650	800	700	750	800	750		Drilling (Rotating) Hours	8.25	9.50	18.50	20.75	10.75	6.25	4.75	0.00	78.75
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Daywork Hrs. (Operator's time)									
Rat Hole (>.75 Hrs)									12.00
Wait on Cement		12.00							12.00
Trip	1.25				6.00	7.00	6.75	1.50	22.50
Circulate	0.50				2.00	6.25	7.50	1.00	17.25
Tool					1.25	1.25	1.00		3.50
Testing					2.50	2.50	2.00		7.00
Clean Floor after DST							0.50		0.50
Wait on Tester							1.00	3.75	4.75
Logging								2.25	2.25
LDDP / LDDC								3.50	7.00
Run Casing / Circ / Cement	3.25	0.25						0.50	0.50
Set Slips									0.00
Nipple Down/Jet Collar									77.25
Billable Hours	5.00	12.25	0.00	0.00	11.75	17.00	18.75	12.50	77.25

Non-Billable Hours (Southwind's time)									
Rig Up	5.00								2.50
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			0.25	0.25					9.00
Connections	3.25	1.00	1.50	1.50	1.00	0.50	0.25		3.00
Jet/Displace	0.75	0.25	0.75	1.25			0.25		0.75
Surveys	0.25				0.25	0.25			1.00
Rig Check			0.25	0.25	0.25	0.25			0.00
Lost Circulation (< 2 hrs)								1.00	1.00
Lay Down Kelly / MH & RH									0.00
Trip Time for repair			2.75						2.75
Trip Time for cracked collar			5.50	3.25	1.50	0.75	0.50	3.50	28.00
Non-Billable Hrs.	10.75	2.25	5.50	3.25	1.50	0.75	0.50	3.50	28.00

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	LKC "A-C"	DST #2 Info - Footage Interval: 3284' - 3337' Recovery: 1638' Gas In Pipe 252' Heavy Oil Cut Gassy Mud	LKC "H-I"
DST #3 Info - Footage Interval: 3336' - 3397' Recovery: 5' Mud		DST #4 Info - Footage Interval: Recovery:	

Anhydrite @ 927' - 960'

Displaced @ 2310' - 2335'

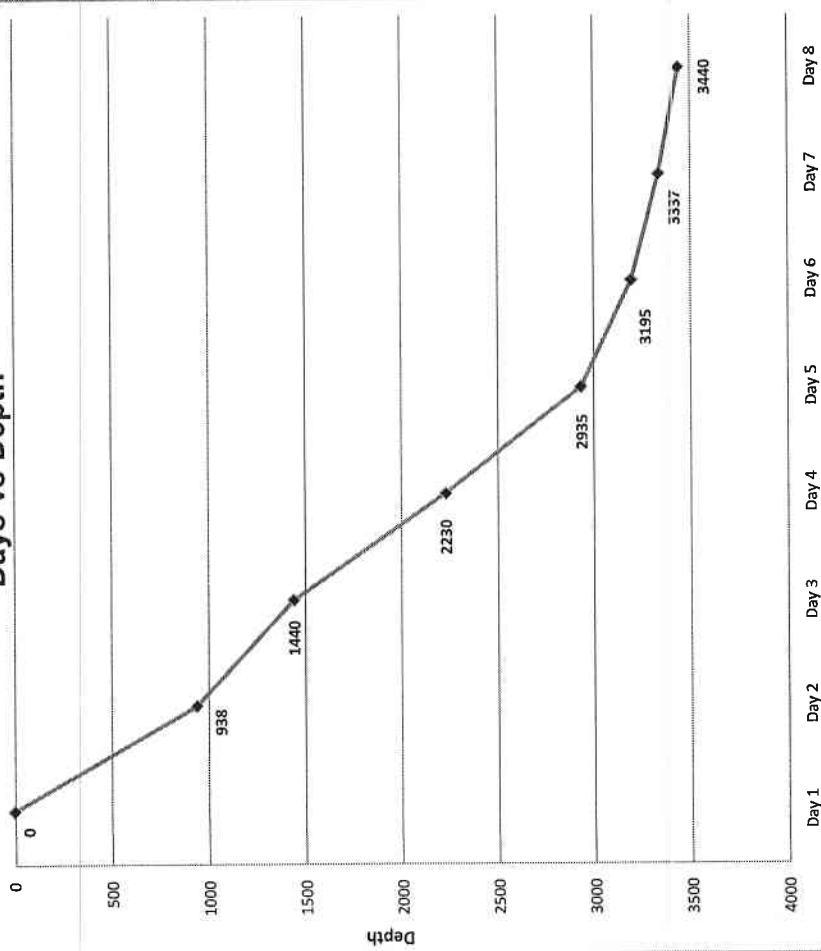
# Job Summary Graphical Report

Southwind Rig No. 1

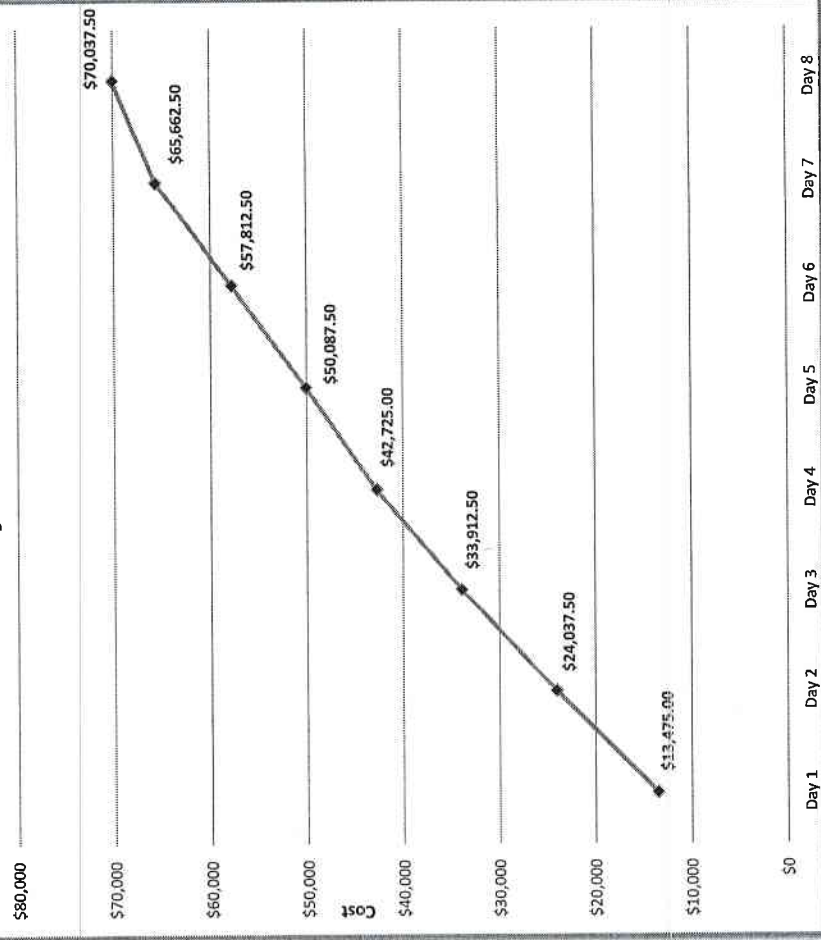
R&R #1



### Days vs Depth



### Days vs Cost



MORNING DRILLING REPORT

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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)								
<b>Bit #1</b>								
Bit Make / Type	Smith F655 H4							
Bit Size	12 1/4							
Bit Hours	8.25							8.25
<b>Bit #2</b>								
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
<b>Daywork Hrs. (Operator's time)</b>								
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
<b>Non-Billable Hours (Southwind's time)</b>								
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 12e			

Lease RWR	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 @ 945 @ 2 1/2 gal
Meas Line	Displace 57 1/2 bbl	

**EQUIPMENT**

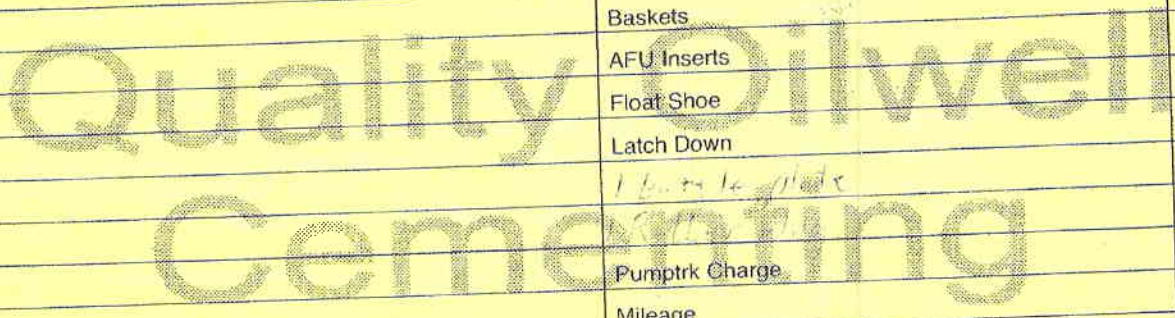
Pumptrk 17	No.	Cementer	Common
		Helper Lemigo	Poz. Mix
Bulktrk 19	No.	Driver Lemigo	Gel.
		Driver Lemigo	Calcium
Bulktrk 19	No.	Driver Lemigo	Hulls
		Driver Lemigo	Salt

**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 bbl to 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 Southwind		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 P4	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]*

