



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1214499
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: _____

1214499

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

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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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MORNING DRILLING REPORT

For: H&D Exploration, LLC

SOUTHWIND DRILLING, INC.

RIG No. 6

Well Name: **Marlene #1**
 Location: **2167' FSL & 500' FEL**
 Section: **31-20S-15W**
 County: **Barton**
 API: **15-009-26000-00-00**

Elevation: **GL 2002'**
KB 2010'
 Est. TD: **3900'**
 Conductor: **N/A**

Rig No. 6 (Pusher/Wes Platf) 620 560-7094
 Rig No. 6 (Doghouse) 620 566-7156
 Southwind Drilling Office 620 564-3800



Surface Casing: **Ran 24 joints of new 23#, 8 5/8" casing, Tally @ 1000', Set @ 1010', used 375 sacks of 70/30, 3%cc, 2% gel, cement circulated, by Quality (Ticket #083), plug down @ 11:15 am on 07.06.14.**

Plugging Info: **Plugged well with 220 sacks of 60/40 Pix, 4% gel, 1/4# Flo-seal, 1st plug @ 3774' w/ 50 sacks, 2nd plug @ 1170' w/ 50 sacks, 3rd plug @ 550' w/ 80 sacks, 4th plug @ 40' w/ 10 sacks, 30 sacks for Rat hole, cemented, by Quality (Ticket # 514), job complete @ 11:30 pm on 07.12.14.**

Rotary Total Depth: **3925'**
 Log Total Depth: **3920'** Geologist: **Jim Musgrove**

7:00 A.M. Depth: 3925'

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

Spud Date & Time:	07/05/14	07/06/14	07/07/14	07/08/14	07/09/14	07/10/14	07/11/14	07/12/14	07/13/14	Total
07/05/2014 @ 10:00 AM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	
Total Depth (7:00am)	0	1010	1567	2571	3276	3720	3822	3925	3925	3925
Daily Progress	1010	557	1004	705	444	102	101	0		
Ft. Per Hr.	62.15	89.12	50.20	33.57	21.93	27.20	22.89	#DIV/0!	#DIV/0!	42.66
Current Operation (7:00am)	Rig Up	Wiper Trip	Drilling	Drilling	Drilling	Drilling	DST #1	Drilling	Tear Down	
Formation	Surface	Surface	Sand / Shale	Sand / Shale	Sand / Shale	Sand / Shale	Arbuckle	Arbuckle		
Fuel Used	332.37	202.71	347.90	317.58	365.57	256.27	226.34	91.39		2152.74
Survey (degree & depth)		1/4" @ 1010'				1" @ 3800'	1" @ 3822'	3/4" @ 3925'		
Mud Info										
Mud Cost	\$0.00	\$0.00	\$2,969.75	\$4,986.00	\$5,519.30	\$1,353.70	\$35.90	\$0.00		\$9,864.65
Weight (# / Gal)				8.6	9.0	9.1	8.8			
Vis (Funnel)				52	60	52	48			
Water Loss (cc)				9.6	10.0	8.8	10.4			
Bit #1										
Bit Make / Type	JZ RT									
Bit Size	12 1/4									
Bit Hours	16.25									16.25
Bit #2										
Bit Make / Type	JZ	JZ	JZ	JZ	JZ	JZ	JZ			
Bit Size	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8			
Bit Hours	6.25	20.00	21.00	20.25	3.75	4.50				75.75
Bit Cumulative Hours	16.25	6.25	20.00	21.00	20.25	3.75	4.50	0.00	0.00	92.00
Weight on Bit (WOB)	15,000	15,000	30,000	35,000	35,000	38,000	38,000			
RPM	100	70	85	85	85	85	85			
Pump Pressure	500	500	650	600	700	700	700			
Drilling (Rotating) Hours	16.25	6.25	20.00	21.00	20.25	3.75	4.50	0.00	0.00	92.00
Daywork Hrs. (Operator's time)										
Rat Hole (>.75 Hrs)										0.00
Wait on Cement		12.00								12.00
Wait on Orders							0.25			0.25
Trip	1.50	0.25				6.25	10.50	3.75		22.25
Circulate	0.50				2.25	10.25	5.00	1.25		19.25
Tool						0.50	1.25			1.75
Testing						2.00	2.50			4.50
Clean Floor										0.00
Logging								3.25		3.25
LDDP / LDDC / Plug well								4.50		4.50
Run Casing / Cement		2.50								2.50
Nipple Down / Jet Collar										0.00
Set Slips / Jet Pits										0.00
Billable Hours	2.00	14.75	0.00	0.00	2.25	19.00	19.25	13.00	0.00	70.25
Non-Billable Hours (Southwind's time)										
Rig Up / Rig Down	2.50							8.50		11.00
Wait on Cement (if NC)										0.00
Drill Rat Hole (<.75 hrs)	0.50									0.50
Drill Plug		0.25								0.25
Circulate / Trip (Surface)		1.25								1.25
Rig Repair						0.75		0.50		1.25
Connections	2.75	1.00	2.75	2.00	1.50	0.25	0.25			10.50
Jet/Displace		0.25	0.75	1.00				1.00		3.00
Surveys		0.25				0.25		0.25		0.75
Rig Check			0.50							0.50
Lost Circulation (< 2 hrs)										0.00
Lay Down Kelly / RH								0.75		0.75
Non-Billable Hrs.	5.75	3.00	4.00	3.00	1.50	1.25	0.25	11.00	0.00	29.75
Footage Cost										
	\$ 14,140.00	\$ 7,798.00	\$ 14,056.00	\$ 9,870.00	\$ 6,216.00	\$ 1,428.00	\$ 1,428.00	\$ -	\$ -	\$ 54,950.00
Daywork Cost										
	\$ 700.00	\$ 5,162.50	\$ -	\$ -	\$ 787.50	\$ 6,650.00	\$ 6,737.50	\$ 4,550.00	\$ -	\$ 24,587.50
Combined Est. Cost*										
	\$ 14,840.00	\$ 12,960.50	\$ 14,056.00	\$ 9,870.00	\$ 7,003.50	\$ 8,078.00	\$ 8,179.50	\$ 4,550.00	\$ -	\$ 79,537.50
<i>*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)</i>										
DST #1 Info -					DST #2 Info -					
Footage Interval: 3745' - 3822' "Arbuckle"					Footage Interval: 3820' - 3335' "Arbuckle"					
Recovery: 730' Slight Oil Cut Watery Mud					Recovery: 1200' Gas in Pipe 350' Muddy Water					

Anhydrite @ 1003' - 1029'

Displaced @ 2761' - 2793'

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. 083

Date	7-6-14	Sec.	31	Twp.	20	Range	15	County	Barton	State	Ks	On Location		Finish	11:15 AM
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Lease	Marlene	Well No.	1	Location	Pawnee Rock, Ks - west side of
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Contractor	Southwind #6	Owner	town, w on T Rd 1/2 to 130 Ave, 1/2 N, 1/2 W
Type Job	Surface	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.	

Hole Size	12 1/4"	T.D.	1010'	Charge To	H & D Exploration
Csg.	8 3/8"	Depth	1010'	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.	32'	Shoe Joint	32'	Cement Amount Ordered	375 70/30 3% cc 2% gel
Meas Line		Displace	62 1/4 BLS		

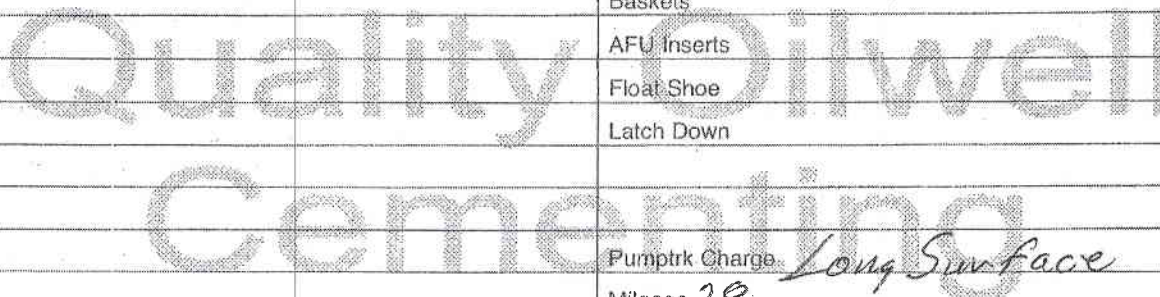
EQUIPMENT					
Pumptrk	16	No.	Cement Helper Billie	Common	262
Bulktrk	4	No.	Driver Lannie M. Tyler	Poz. Mix	113
Bulktrk	p.u.	No.	Driver Rick	Gel.	7
				Calcium	15

JOB SERVICES & REMARKS					
Remarks:	Cement did	Circulate		Hulls	
Rat Hole				Salt	
Mouse Hole				Flowseal	
Centralizers				Kol-Seal	
Baskets				Mud CLR 48	
D/V or Port Collar				CFL-117 or CD110 CAF 38	
				Sand	
				Handling	397
				Mileage	

FLOAT EQUIPMENT			
Guide Shoe			Rubber plug
Centralizer			Baffle plate
Baskets			
AFU Inserts			
Float Shoe			
Latch Down			

Pumptrk Charge	Long Surface
Mileage	28

X 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. 514

Date	7-12-14	Sec.	31	Twp.	20	Range	15	County	Barton	State	KS	On Location		Finish	9:30 PM		
Lease								Well No. #1		Owner							
Contractor								Southwind #8		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								Plug		Charge To H + D Exploration							
Hole Size								7 7/8		T.D.		3925'					
Csg.								Drill Pipe		Depth		Street					
Tbg. Size										Depth		City		State			
Tool										The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered		220 6 3/4 4% Gel					
Meas Line								Displace									
EQUIPMENT																	
Pumptrk		18		No.		Cementer		Helper		Clayton		Common		132			
Bulktrk		9		No.		Driver		Driver		Chad		Poz. Mix		88			
Bulktrk		Pu		No.		Driver		Driver		Brett		Gel.		8			
JOB SERVICES & REMARKS																	
Remarks:										Salt							
Flat Hole -								30 sx		Flowseal		55#					
Mouse Hole										Koi-Seal							
Centralizers										Mud CLR 48							
Baskets										CFL-117 or CD110 CAF 38							
D/V or Port Collar										Sand							
1st Plug @								3724		w/ 50 sx		Handling		228			
2nd Plug @								1170		w/ 50 sx		Mileage		8 1/4			
3rd Plug @								550		w/ 90 sx		FLOAT EQUIPMENT					
4th Plug @								410		w/ 10 sx		Guide Shoe					
										Centralizer							
										Baskets							
										AFU Inserts							
										Float Shoe							
										Latch Down							
										Wood Plug		1					
										Pumptrk Charge		plug					
										Mileage		28					
Signature								W. P. P.				Tax					
												Discount					
												Total Charge					