



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1200727
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: _____

1200727

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

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. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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. 012

Date	4-5-14	Sec.	25	Twp.	17	Range	25	County	Ness	State	KS	On Location		Finish	1:00 AM
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Location Amo 2 6 1/2 E 1/2 S

Lease	<u>Porter K SWD</u>	Well No.	<u>2</u>	Owner	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.	
Contractor	<u>Discovery #1</u>			Charge To	<u>J.O. Farmer</u>	
Type Job	<u>Wash Down</u>			Street		
Hole Size	<u>7 7/8</u>	T.D.	<u>1802</u>	City	State	
Csg.	<u>5 1/2 14#</u>	Depth	<u>1784</u>	The above was done to satisfaction and supervision of owner agent or contractor.		
Tbg. Size		Depth		Cement Amount Ordered <u>275 Q MDC 1/4 #10</u>		
Tool		Depth		Meas Line Displace <u>43# BCL</u> <u>500 gal mud CLR</u>		
Cement Left in Csg.	<u>19.55</u>	Shoe Joint	<u>19.55</u>	Common <u>275 Q MDC</u>		

EQUIPMENT

Pumptrk	<u>18</u> No.	Cementer	<u>Caig</u>	Common	<u>275 Q MDC</u>
		Helper		Poz. Mix	
Bulktrk	No.	Driver	<u>Chad</u>	Gel.	
		Driver		Calcium	
Bulktrk	<u>13</u> No.	Driver	<u>Chad</u>	Hulls	
		Driver		Salt	

JOB SERVICES & REMARKS

Remarks:		Flowseal	<u>70#</u>
Rat Hole	<u>309L</u>	Kol-Seal	
Mouse Hole	<u>155K</u>	Mud CLR 48	<u>500 gal</u>
Centralizers		CFL-117 or CD110 CAF 38	
Baskets		Sand	
D/V or Port Collar		Handling	<u>275</u>
	<u>1784</u>	Mileage	

FLOAT EQUIPMENT

	<u>5/2 set @ 1784 Est. Circulation</u>	Guide Shoe	
	<u>Pump string mud clean 10B spacer</u>	Centralizer	<u>2</u>
	<u>Cement Rathole mousehole cement</u>	Baskets	<u>2</u>
	<u>5/2 Clear lines + Displace Plug</u>	AFU Inserts	
	<u>Plug landed @ 1200'</u>	Float Shoe	<u>1</u>
	<u>Cement Circulated!</u>	Latch Down	<u>1</u>

WITNESSED BY
Chad Mayfield

		Pumptrk Charge	<u>prod string</u>
		Mileage	<u>21</u>
		Tax	
		Discount	
		Total Charge	

X Signature Chad Mayfield

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. 159

Date	4-14-14	Sec.	Twp.	Range	County	State	On Location	Finish
					Ness	KS		12:30 PM

Lease ~~XXXXXX~~ **Potter** Location **Arnold 65**

Well No. **K-2 SWD** Owner

Contractor **J + M** 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 **1 in** **550'** Charge To **John O Farmer**

Hole Size **8 5/8** T.D. Street

Csg. **5 1/2** Depth City State

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

Tool Depth Cement Amount Ordered **200 60/40 4% bel 1/4 flow**

Cement Left in Csg. Shoe Joint **Used 150 60/40 4% bel 1/4 flow**

Meas Line Displace Common **90**

EQUIPMENT Poz. Mix **60**

Pumptrk **5** No. Cementer Helper **David** Gel. **5**

Bulktrk **9** No. Driver **Clayton** Calcium

Bulktrk **PU** No. Driver **Brett** Hulls

JOB SERVICES & REMARKS Salt

Remarks: Flowseal **50#**

Rat Hole Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

Handling **200** Mileage

Mixed 150 sk 60/40 down 1 in between 5 1/2 + 8 5/8 Cement circulated!! **FLOAT EQUIPMENT**

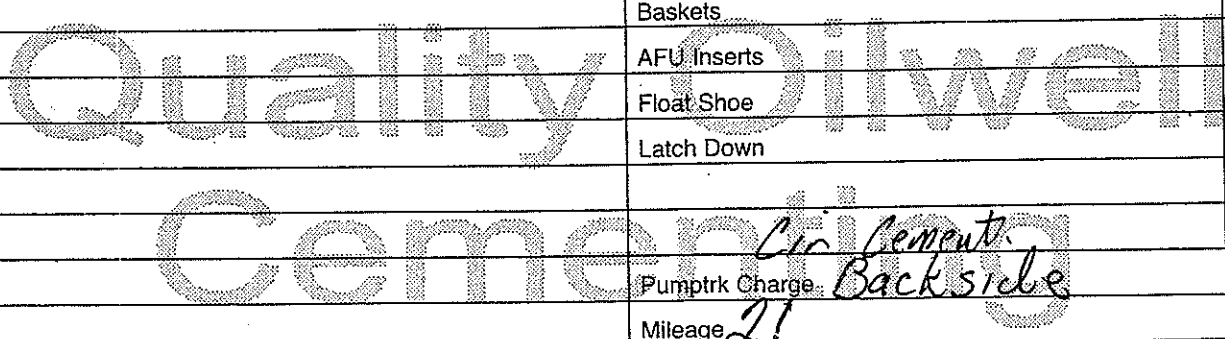
Guide Shoe Centralizer

Baskets AFU Inserts

Float Shoe Latch Down

Pumptrk Charge **Cin Cement Back side** Mileage **21**

Signature **Waldner** Tax Discount Total Charge





Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548
370 West Wichita Avenue PO Box 763
Russell, KS 67665 Hays, KS 67601

Lease: Potter "K" # 2(OWWO) Location: 1980 FNL - 330 FWL
W/2-SW-NW
Section 25/ 17S/ 25W
Ness County, KS

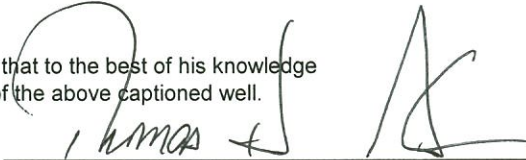
Loggers Total Depth: No Log API#15- 135-00511-00-01
Rotary Total Depth: 1802' Elevation: 2484 GL - 2492 KB
Commenced: 4/4/2014 Completed: 4/5/2014
Casing: 8 5/8" @ 220' (In 1964') Status: SWD
5 1/2" @ 1784.08'W/225sks

DEPTHS & FORMATIONS (All from KB)

1st Plug	<u>0' to 35'</u>	_____
2nd Plug	<u>230' to 600'</u>	_____
RTD	<u>1802'</u>	_____
	_____	_____
	_____	_____
	_____	_____

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

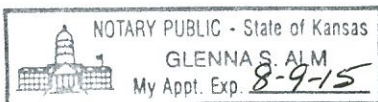

Thomas H. Alm

Subscribed and sworn to before me on 4-15-14

My Commission expires: 8-9-15

(Place stamp or seal below)


Notary Public



Potter K # 2 SWD

Completion report

4-9-14 Rig up Gemini Wireline LLC, portable mast, run Gamma Log and Cement Bond Log. Found TD at 1760', top of cement at 660'. Visit with Richard Lacey, KCC rep, cement needs to be to surface.

4-11-14 Double D Roustabout, dug cellar back out. J O F Inc, roustabouts boarded cellar to surface. Rig up J & M well Service double drum unit. J & M delivered 25 jts 1" tubing from Black Diamond Oil Co. Remove slips from braden head. Shut down.

4-14-14 Run 1" tubing down surface-casing annulus to a depth of 553'. Hookup Quality Oilwell cementing, mix and pump 150 sxs 60/40 Pozmix with 4% gel, cement did circulate. Let set 30 minutes, cement did not drop. Pull 1" tubing, drop slips in braden head. Shut down. Take 1" tubing back. Did not have a KCC Rep on location.

4-15-15 Rig up Gemini Wireline, perforate Cedar Hills from 1455-65', 1432-42' and 1394-24' (1 SPF) with strip charges. Swab on well from 10:15 AM - 5:30 PM, recovering lots of sand. Shut down. Fluid 250' from surface.

4-16-14 Swab on well from 8:15 AM - 3:00 PM, very little sand. Hookup Walker Tank truck, take injection rate of 3 bpm. Shut down. Load 44 jts 2 7/8" Ceramic lined tubing from J O F Inc yard.

4-17-14 Run tubing and packer in well:

15.12' 2 7/8" fiberglass tubing tailpipe
3.46' 2 7/8" x 5 1/2" Arrow SL Shear packer (Ceramic lined)
1357.18' 43 jts 2 7/8" 8rd EUE tubing (Ceramic Lined)
5.00' Kelly bushing

1364.38' Packer depth

1380.76' Tailpipe depth

Hookup Walker Tank Service pump truck up to annulus, pump 30 bbls treated fresh water down annulus, set packer, fill annulus with water, pressure to 300#, took a while to get to hold. MIT well with Mike Maier, KCC Rep present. Release rig. Packer is set with 18,000# tension. Sets to the right, with auto release.



Val Dreher Production foreman