



KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1153108

Form ACO-1

June 2009

**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
- ☐ Conv. to GSW
- ☐ Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- ☐ Commingled      Permit #: \_\_\_\_\_
- ☐ Dual Completion      Permit #: \_\_\_\_\_
- ☐ SWD      Permit #: \_\_\_\_\_
- ☐ ENHR      Permit #: \_\_\_\_\_
- ☐ GSW      Permit #: \_\_\_\_\_

Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date           Recompletion Date

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

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

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

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

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

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

Total 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**

☐ Letter of Confidentiality Received

Date: \_\_\_\_\_

☐ Confidential Release Date: \_\_\_\_\_

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1153108

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

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☐ No  
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No

Electric Log Run ☐ Yes ☐ No

Electric Log Submitted Electronically ☐ Yes ☐ No  
(If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample  
Name Top Datum

CASING RECORD ☐ New ☐ 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
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------



**Discovery  
Drilling**

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

### DRILLER'S LOG

Operator: Hupfer Operating, Inc. Lic# 30380 Contractor: Discovery Drilling Co., Inc. LIC#31548  
P.O. Box 3912 PO Box 763  
Shawnee, KS 66203-0912 Hays, KS 67601

Lease: Knop "A" # 2

Location: 1560 FSL & 2065 FEL

NW/SW/SE

Section 32/ 19S/ 11W

Barton County, KS

Loggers Total Depth: 3366' @ 3366' RTD

API#15- 009-25,828-00-00

Rotary Total Depth: 3376'

Elevation: 1779 GL / 1787 KB

Commenced: 5/23/2013

Completed: 5/30/2013

Casing: 8 5/8" @ 262"W/175sks

Status: D & A

### DEPTHS & FORMATIONS

(All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>522'</u>
Dakota Sand	<u>170'</u>	Shale & Lime	<u>1351'</u>
Shale	<u>211'</u>	Shale	<u>1718'</u>
Cedar Hill Sand	<u>296'</u>	Shale & Lime	<u>2212'</u>
Red Bed Shale	<u>405'</u>	Lime & Shale	<u>2934'</u>
Anhydrite	<u>503'</u>	RTD	<u>3376'</u>
Base Anhydrite	<u>522'</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.

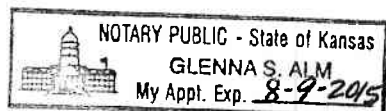
Thomas H. Alm

Subscribed and sworn to before me on 6-3-2013

My Commission expires: 8-9-2015

(Place stamp or seal below)

Glenna S. Alm  
 Notary Public



# 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. 6821

Date	5-24-13	Sec.	32	Twp.	19	Range	11	County	Barton	State	Ks	On Location		Finish	4:15 AM
------	---------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Location Ellinwood, Ks - 1E, w/into

Lease	<u>Knop</u>	Well No.	<u>A-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</u>	#2			
Type Job	<u>Surface</u>				
Hole Size	<u>12 1/4"</u>	T.D.	<u>262'</u>	Charge To	<u>Hupfer operating</u>
Csg.	<u>8 5/8"</u>	Depth	<u>262'</u>	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.	<u>20'</u>	Shoe Joint	<u>20'</u>	Cement Amount Ordered	<u>175 sx Common 3% CC</u>		
Meas Line		Displace	<u>15 1/4 BLS</u>	<u>2% Gel</u>			

## EQUIPMENT

Pumptrk	<u>15</u>	No.		Cementer	<u>Nick</u>
Bulktrk	<u>14</u>	No.		Helper	
Bulktrk	<u>p.u.</u>	No.		Driver	<u>Clayton</u>
		No.		Driver	<u>Rick</u>

## JOB SERVICES & REMARKS

Remarks Cement did Circulate

Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers		Flowseal	
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	<u>184</u>
		Mileage	

## FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge Surface  
Mileage 14

X Signature Tom Will

Tax	
Discount	
Total Charge	

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 6825

one 785-483-2025

ell 785-324-1041

Date **5-30-13** Sec. **32** Twp. **19** Range **11** County **Barton** State **Ks** On Location **Ellinwood, Ks - 1E,** Finish **3:00 PM**

Lease **Knop** Well No. **A-2** Owner **To Quality Oilwell Cementing, Inc.**  
 Contractor **Discovery #2** You are hereby requested to rent cementing equipment and furnish  
 Type Job **Plug** cementer and helper to assist owner or contractor to do work as listed.  
 Hole Size **7 7/8"** T.D. **3376'** Charge **Hapter operating**  
 Csg. Depth **3360'** Street  
 Tbg. Size **4 1/2" D.P.** Depth **3360'** City State  
 Tool Depth  
 Cement Left in Csg. Shoe Joint The above was done to satisfaction and supervision of owner agent or contractor.  
 Meas Line Displace **H2O/mud** Cement Amount Ordered **205 sx 60/40 4% gel 1/4" Flo-seal**

## EQUIPMENT

Pumptrk **16** No. **Cementer Londaire w.**  
 Bulktrk **1** No. **Driver Billu**  
 Bulktrk **p.u.** No. **Driver Rick**

Common **123**  
 Poz. Mix **82**  
 Gel. **7**  
 Calcium

## JOB SERVICES & REMARKS

Remarks:  
 Rat Hole  
 Mouse Hole  
 Centralizers  
 Baskets  
 D/V or Port Collar

Hulls  
 Salt  
 Flowseal **50A**  
 Kol-Seal  
 Mud CLR 48  
 CFL-117 or CD110 CAF 38  
 Sand

**3340'**  
**387' - 25 SX**  
**320' - 75 SX**  
**40' - 10 SX w/ plug**  
**Rathole - 30 SX**  
**Mousehole 15 SX**

Handling **212**  
 Mileage

## FLOAT EQUIPMENT

Guide Shoe  
 Centralizer  
 Baskets  
 AFU Inserts  
 Float Shoe  
 Latch Down

**1-Dry hole plug**

**Cement did Circulate.**

Pumptrk Charge **plug**  
 Mileage **14**

Signature **Lee Wick**

Tax  
 Discount  
 Total Charge

HUPFER OPERATING, INC

KNOP #A-2

SE/4 SEC 32-19-11W

Barton Co., KS

DST #1: Lansing - A&B Zones: 3057' to 3100'. Misrun.

DST #2: Lansing - A&B Zones: 3057' to 3100'. 30-30-30-30. Good blow. Recovered 1448 GIP, 15' oil spotted and 61' <sup>MAF</sup> SOCGM. ISIP 396, FSIP 366, IFP 50-59, FFP 68-65.

DST #3: Arbuckle - 3318' to 3366'. Weak blow. 30-30-30-30. Recovered 10' very light oil spotted mud. ISIP 206, FSIP 212, IFP 53-57, FFP 58-59.