

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:

<input type="checkbox"/> New Well	<input type="checkbox"/> Re-Entry	<input type="checkbox"/> Workover	
<input type="checkbox"/> Oil	<input type="checkbox"/> WSW	<input type="checkbox"/> SWD	<input type="checkbox"/> SIW
<input type="checkbox"/> Gas	<input type="checkbox"/> D&A	<input type="checkbox"/> ENHR	<input type="checkbox"/> SIGW
<input type="checkbox"/> OG		<input type="checkbox"/> GSW	<input type="checkbox"/> Temp. Abd.
<input type="checkbox"/> CM (Coal Bed Methane)			
<input type="checkbox"/> Cathodic <input type="checkbox"/> Other (Core, Expl., etc.): _____			

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

<input type="checkbox"/> Deepening	<input type="checkbox"/> Re-perf.	<input type="checkbox"/> Conv. to ENHR	<input type="checkbox"/> Conv. to SWD
<input type="checkbox"/> Conv. to GSW			
<input type="checkbox"/> Plug Back: _____		Plug Back Total Depth: _____	
<input type="checkbox"/> Cummiled		Permit #: _____	
<input type="checkbox"/> Dual Completion		Permit #: _____	
<input type="checkbox"/> SWD		Permit #: _____	
<input type="checkbox"/> ENHR		Permit #: _____	
<input type="checkbox"/> GSW		Permit #: _____	

Spud Date or
Recompletion Date Date Reached TD Completion Date or
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: _____



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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<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			
Electric Log Submitted Electronically (If no, Submit Copy)	<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: ____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives

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
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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) _____			
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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 (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: _____ _____
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**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
Shawnee, KS 66203-0912

PO Box 763
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.

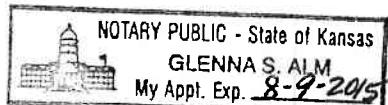
Thomas H. Alm

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



My Appt. Exp. 8-9-2015

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
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Location Ellinwood, Ks - 1E, w/ into

Lease	Knop	Well No.	A-2	Owner			
Contractor	Discovery	#2		To Quality Oilwell Cementing, Inc.			
Type Job	Surface			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	2 1/4"	T.D.	262'	Charge To	Hupfer operating		
Csg.	8 5/8"	Depth	262'	Street			
Tbg. Size		Depth		City			
Tool		Depth		State			
Cement Left in Csg.	26'	Shoe Joint	20'	The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace	15 1/4 BLS	Cement Amount Ordered 175 s/s Common 38 BBL			

EQUIPMENT

Pumptrk	15	No.	Cementer	NICK
			Helper	
Bulktrk	14	No.	Driver	Clayton
		No.	Driver	RICK
Bulktrk	P.U.	No.	Driver	
			Driver	

JOB SERVICES & REMARKS

Remarks	Cement did Circulate
Rat Hole	
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge Surface
Mileage 14

Tax

Discount

Total Charge

X Signature

Paul White

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. 6825

Date 5-30-13	Sec. 32	Twp. 19	Range 11	County Barton	State Ks	On Location	Finish 3:00 PM
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Lease Knop Well No. A-2 Location Ellinwood, Ks - 1E,

Contractor Discovery #2 Owner To Quality Oilwell Cementing, Inc.

Type Job Plug 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 7 7/8" T.D. 3376' Charge To Hub for operating

Csg. Depth Street

Tbg. Size 4 1/2" D.P. Depth 3360' City State

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

Cement Left in Csg. Shoe Joint Cement Amount Ordered 205 SX 60/40 4 1/2 gal 1 1/2 flo seal

Meas Line Displace 1/20/mud

EQUIPMENT

Pumptrk 16 No. Cementer Common 123
Helper Lorrie W.

Bulktrk 1 No. Driver Poz. Mix 82
Driver Bill Hu

Bulktrk P.U. No. Driver Gel. 7
Driver Rick

JOB SERVICES & REMARKS

Remarks: Hulls

Rat Hole Flowseal 50#

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

3340' - 50 SX Handling 212

387' - 25 SX Mileage

320' - 75 SX

40' - 10 SX w/ plug

Rathole - 30 SX

Mousehole 15 SX

205 SX 60/40 4 1/2 gal 1 1/2

Flow-seal

Cement did Circulate

Pumptrk Charge 14 plug

Mileage 14 plug

Tax

Discount

Total Charge

Signature J. L. Wink

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' 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.