

ORIGINAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

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 # 32325  
Name: POPP OPERATING, INC  
Address 1: PO BOX 187  
Address 2:  
City: HOISINGTON State: KS Zip: 67544 + 0187  
Contact Person: RICKEY POPP  
Phone: ( 620 ) 786-5514  
CONTRACTOR: License # 31548  
Name: DISCOVERY DRILLING CO., INC  
Wellsite Geologist: JOSH AUSTIN  
Purchaser: NCRA

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 #:

8/27/2010 9/4/2010 9/15/2010  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 185-23,614-00-00  
Spot Description: NE/4  
S/2, S/2, S/2, NE Sec. 15 Twp. 23 S. R. 13  East  West  
2,520 Feet from  North /  South Line of Section  
1,320 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: STAFFORD  
Lease Name: WARD Well #: 4  
Field Name: HAPPY VALLEY  
Producing Formation: ARBUCKLE  
Elevation: Ground: 1880' Kelly Bushing: 1888'  
Total Depth: 3930' Plug Back Total Depth: 3875'  
Amount of Surface Pipe Set and Cemented at: 313.77' 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: 18,000 ppm Fluid volume: 400 bbls  
Dewatering method used: HAUL FREE FLUIDS  
Location of fluid disposal if hauled offsite:  
Operator Name: POPP OPERATING, INC  
Lease Name: WARD License #: 32325  
Quarter NE Sec. 15 Twp. 23 S. R. 13  East  West  
County: STAFFORD Permit #: D-28,756

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Rickey Popp  
Title: PRESIDENT Date: 11/09/2010

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: DLG Date: 11/10/10

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Operator Name: POPP OPERATING, INC Lease Name: WARD Well #: 4  
 Sec. 15 Twp. 23 S. R. 13  East  West County: STAFFORD

**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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	ANHYDRITE	769'	+1119
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	TOPEKA	2975'	-1087
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	TORONTO	3293'	-1405
List All E. Logs Run:		LANSING	3427'	-1539
<b>DAUL INDUCTION, NEUTRON/DENSITY, MICRO, CBL LOGS</b>		VIOLA	3724'	-1836
		SIMPSON SHALE	3764'	-1876
		ARBUCKLE	3811'	-1923

CASING RECORD <input checked="" 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
SURFACE CSG	12-1/4"	8-5/8"	24#	313'	COMMON	300	2%GEL/3%GEL
PRODUCTION CSG	7-7/8"	5-1/2"	14#	3920	ECONOBOND	200	

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				

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
4	3811-12' & 3812-13'	150 GAL 7-1/2% MCA & 150 GAL 7-1/2% MCA	

TUBING RECORD:		Size: <u>2-7/8"</u>	Set At: <u>3868'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>10/20/10</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>14</u>	Gas Mcf	Water Bbls. <u>175</u>	Gas-Oil Ratio	Gravity <u>35</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>3811-13'</u>
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Customer Popp Operating Inc	Lease No.	Date 9-4-10
Lease WARD	Well # 4	
Field Order # 02273A	Station Pratt	Casing 5 1/2"
Type Job 5 1/2" L.S.	Formation CRMW	Depth
	RTD 3930	County Stafford
		State KS.
		Legal Description 15-23-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size"	Tubing Size	Shots/Ft				RATE	PRESS	ISIP
5 1/2"			20 BBL	Acid	2 1/2% KCL			5 Min.
Depth 3920	Depth	From	To	12 BBL	mud Flush	Max		
Volume 94.6 BBLs	Volume	From	To	200 SKS	EconoBond	Min	13.8 #	10 Min.
Max Press 1500 #	Max Press	From	To	50 SKS	60/40 Poz	Avg		15 Min.
Well Connection P.P.	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 3878	Packer Depth	From	To	Flush	Disp 2 1/2% KCL	Gas Volume		Total Load

Customer Representative Rick Popp	Station Manager Scotty	Treater Allen F. Worth
Service Units 28443 33708 20920		
Driver Names A. Worth Joe melson Brad mitchell		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:45 AM 9-3-10					Discovery #2 on loc. discuss safety, Setup Phasor Rig Break down Kelly, Rig up To Run 5 1/2" csg. 14" Shoe Joint 42.07 w/ Float Shoe L.D. Baffle in collar. cent. 2-3-4-5-6-7-8-9 10-11-12-13-16-18-21 Tag Bottom @ 3930; Pipe @ 3920' hook up + circ. + Rotate Pipe
12:45 AM 9-4-10					
1:45	200 #		20	5	Pump 20 BBL 2 1/2% KCL
			12	5	Pump 12 BBL mud Flush
					Pump 3 BBL H2O
				5 1/2	mix Pump 200 SKS EconoBond @ 13.8 #/gal
2:05			54.5		Finish mix - wash out Pump + Line 6 Drop L.D. Plug + Start Disp. 4 1/2 Caught Lift PST 60 BBLs out
2:30	1500 # OH		94.6	3	Plug down Release PST - OH
					RECEIVED Plug RHT + MTH w/ 50 SKS 60/40 Poz wash up Equip + Rack up.
3:30					NOV 10 2010 Job complete. KCC WICHITA Thanks Allen, Joe, BRID.

Customer Popp Operating, Incorporated	Lease No. Ward	Date 8-27-10
Lease Ward	Well # 4	
Field Order # 2248	Station Pratt, Kansas	Casing 8 5/8 24lb.
Type Job C.N.W. - Surface	Depth 312 Feet	County Stafford
	Formation	State Kansas
		Legal Description 15-235-13W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 8 5/8 24lb.	Tubing Size 6 1/2"	Shots/Ft	300	sacks	60/40 Poz	RATE	PRESS	ISIP
Depth 312 Feet	Depth	From	To	28	Gal. 38 Calcium Chloride	25	Lb./ft.	Cell
Volume 19.8 Bbl.	Volume	From	To			Min		10 Min.
Max Press 300 P.S.I.	Max Press	From	To			Avg		15 Min.
Well Connection Plug Connector	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 300 Feet	Packer Depth	From	To	Flush	19 Bbl. Fresh Water	Gas Volume		Total Load

Customer Representative Rick Popp	Station Manager David Scott	Treater Clarence R. Messick
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Service Units	19,866	19,903	19,905	19,959	21,010	19,959	21,010			
Driver Names	Messick	Mattal	Coleman	Wright	Mitchell					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:30					Trucks on location and hold safety meeting.
5:25					Discovery Drilling start to run 7 Joints new 24 Lb./Ft. 8 5/8" casing.
6:15					Casing in well. Circulate for 5 minutes.
6:25				5	Start Fresh Water Pre-Flush.
			10	5	Start mixing 300 sacks 60/40 Poz cement.
	0		76		stop pumping. Shut in well. Release Wooden Plug. Start fresh water displacement.
					Open well.
6:45	100			5	Start Fresh water displacement.
6:50	300		19		Plugdown. Shut in well.
					Circulated cement to the bottom of the cellar.
					Wash up pump truck.
					Job Complete.
					Thank You.
					Clarence, Mite, Eric, Terry

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