

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

167-23,169-0000

API NO. 15- _____

County Russell

NW NE NW Sec. 36 Twp. 13s Rge. 15w X V

400 Feet from S/N (circle one) Line of Section

1675 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Patterson "A" Well # 2

Field Name Gorham

Producing Formation LKC & Arbuckle

Elevation: Ground 1883 KB 1891

Total Depth 3400 PBDT _____

Amount of Surface Pipe Set and Cemented at 928.70 Feet

Multiple Stage Cementing Collar Used? Yes X No _____

Yes, show depth set _____ Feet

Alternate II completion, cement circulated from _____

Foot depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Alt 1 KJR 7/06/07
(Data must be collected from the Reserve Pit)

Chloride content 18,000 ppm Fluid volume 480 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W _____

County _____ Docket No. _____

Operator: License # 32325

Name: POPP OPERATING, INC.

Address P.O. Box 187

City/State/Zip Hoisington, KS 67544

Purchaser: _____

Operator Contact Person: Rick Popp

Phone (316) 653-2737

Contractor: Name: Discovery Drilling Co., Inc.

License: 31548

Wellsite Geologist: Bob Stolzle

Designate Type of Completion

X New Well _____ Re-Entry _____ Workover _____

X Oil _____ SWD _____ SLOW _____ Temp Abd.

Gas _____ ENHR _____ SIGW _____

Dry _____ Other (Core, WSW, Expl., Cathodic, etc) _____

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening _____ Re-perf. _____ Conv. to Inj/SWD _____

Plug Back _____ PBDT _____

Commingled _____ Docket No. _____

Dual Completion _____ Docket No. _____

Other (SWD or Inj?) _____ Docket No. _____

5/31/00 6/5/00 6/6/00

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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.

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.

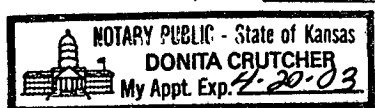
Signature Rick Popp
Title President Date 09-25-00

Subscribed and sworn to before me this 25 day of Sept. 19 2000

Notary Public Donita Crutcher

Date Commission Expires 4-20-03

K.C.C. OFFICE USE ONLY
F _____ Letter of Confidentiality Attached
C _____ Wireline Log Received
C _____ Geologist Report Received
Distribution
_____ KCC _____ SWD/Rep _____ NGPA
_____ KGS _____ Plug _____ Other
(Specify)



Operator Name POPP OPERATING INC.

Lease Name Patterson "A"

Well # 2

Sec. 36 Twp. 13S Rge. 15W

East
 West

County Russell

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

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
(Submit Copy.)

List All E.Logs Run: Dual Induction,
Compensation Neutron Density

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Anhydrite	928'	+963
Topeka	2766'	-875
Heebner	2993'	-1102
Lansing Gp	3046'	-1155
Arb	3307'	-1416

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
Surface Pipe	12 $\frac{1}{4}$	8 5/8	23	928,70	60/40Poz	375	2%Gel&3%CC
Production St.	7-7/8	5-1/2	14	3396	ASC	135	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	3070-72	common	250	---
<input type="checkbox"/> Protect Casing	3088-90	@		
<input type="checkbox"/> Plug Back TD	3145-47			
<input checked="" type="checkbox"/> Plug Off Zone	3145-47			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used) Depth	
4 spf	3070-72	Squeeze	250 15% DSFe	
4 spf	3088-90	Squeeze	Natural	
4 spf	3145-47	Squeeze	250 gal 15% MCA/ 1000 15% DSFe	
4 spf	3313-16		Natural	
4 spf	3340-45	set CIBP @3333'	Natural	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-7/8"	3270'	none	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
07-23-00	<input type="checkbox"/> Flowing <input checked="" 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
	18		1800	1%	38

Disposition of Gas:

Vented Sold Used on Lease
(If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval _____

ALLIED CEMENTING CO., INC. 4880 ORIGINAL

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell

DATE <u>10/16/00</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>8:50 AM</u>	JOB START	JOB FINISH <u>12:50 PM</u>
LEASE <u>Patterson</u>	WELL # <u>2-A</u>		LOCATION <u>Balta Rd. 1/4 N. 3/4 W. S1410</u>		COUNTY <u>RS</u>	STATE <u>KS.</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Leiter Well Service
 TYPE OF JOB Squeeze K.C. Perfs
 HOLE SIZE _____ T.D. _____
 CASING SIZE 5 1/2" DEPTH _____
 TUBING SIZE 2 1/2" DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. 3070 - 3147 (Kansas City)
 DISPLACEMENT _____

OWNER _____
 CEMENT
 AMOUNT ORDERED 250 Com
2 Sand
 COMMON 250 @ 6.35 1587.50
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
Sand 2 @ 5.60 11.20
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING @ 1.05 262.50
 MILEAGE 44/50 / mile 100.00
 TOTAL 2011.20
1961.20

EQUIPMENT

PUMP TRUCK CEMENTER Paul
 # 153 HELPER Ron
 BULK TRUCK
 # 1100 DRIVER Lon
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

B.P. @ 3212 Press to 1500# Held.
Spot 2 sand. Pulled to 2673. Mixed
250sx D-spaced URBH. Washed around
top. Staged and squeezed to pop psi.
Pulled 2 joints. Shut in.
Perfs: 3070-72, 3088-90, 3145-47

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 580.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 5 @ 3.00 15.00
 PLUG _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL 595.00

CHARGE TO: Popp Operating
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Lucky Popp

PRINTED NAME

ALLIED CEMENTING CO., INC. 3575

ORIGINAL

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>6/1/00</u>	SEC.	TWP.	RANGE	..	CALLED OUT	ON LOCATION <u>2:30p.m.</u>	JOB START	JOB FINISH <u>4:05p.m.</u>
LEASE <u>Patterson A</u>	WELL # <u>2</u>	LOCATION <u>Balta Rd. 1/2 W 1/2 E.</u>			COUNTY <u>RS</u>	STATE <u>KS.</u>		
OLD OR <u>NEW</u> (Circle one)								

CONTRACTOR Discovery Drilling #2

TYPE OF JOB Surface Pipe

HOLE SIZE 12 1/4" T.D. 930'

CASING SIZE 8 5/8" DEPTH 928'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 5843bl.

EQUIPMENT

PUMP TRUCK CEMENTER Paul

345 HELPER Mark

BULK TRUCK

1100 DRIVER Dave

BULK TRUCK

279 DRIVER Colen

OWNER _____

CEMENT

AMOUNT ORDERED 375 ⁶⁴⁰ 370 CC
2 1/2 gel

COMMON	<u>225</u>	@	<u>6.55</u>	<u>1428.75</u>
POZMIX	<u>150</u>	@	<u>3.25</u>	<u>487.50</u>
GEL	<u>7</u>	@	<u>9.50</u>	<u>66.50</u>
CHLORIDE	<u>11</u>	@	<u>28.00</u>	<u>308.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING		@	<u>1.05</u>	<u>393.75</u>
MILEAGE	<u>44/SK</u>	/mile		<u>100.00</u>
TOTAL				<u>2784.00</u>

REMARKS:

SERVICE

Cement Circulated!

Thank You!

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 580.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 6 @ 3.00 18.00

PLUG 8 5/8" Solid Rubber @ _____ 90.00

_____ @ _____

_____ @ _____

TOTAL 688.00

CHARGE TO: Popp Operating

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Lucy Popp

PRINTED NAME _____

ALLIED CEMENTING CO., INC.

Federal Tax

4878
ORIGINAL

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell

DATE <u>6/6/00</u>	SEC.	TWP.	RANGE	..	CALLED OUT	ON LOCATION <u>7:00 A.M.</u>	JOB START	JOB FINISH <u>9:30 A.M.</u>
LEASE <u>Peterson A</u>	WELL # <u>2</u>	LOCATION <u>Balta Rd. 1/4 N. 3/4 W S1W10</u>			COUNTY <u>RS</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)								

CONTRACTOR <u>Discovery Drly. #1</u>	OWNER
TYPE OF JOB <u>Production String</u>	CEMENT
HOLE SIZE <u>7 7/8"</u>	AMOUNT ORDERED <u>135 ASC 570 Gilsonite</u>
CASING SIZE <u>5 1/2"</u>	<u>270 Gel</u>
TUBING SIZE	<u>500 Gal WFR2</u>
DRILL PIPE	
TOOL	
PRES. MAX	
MEAS. LINE	
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>82 1/4 Bbl.</u>	
EQUIPMENT	
PUMP TRUCK # <u>177</u>	CEMENTER <u>Paul</u>
BULK TRUCK # <u>279</u>	HELPER <u>Ron</u>
BULK TRUCK #	DRIVER <u>Bill</u>
	DRIVER

COMMON	@		
POZMIX	@		
GEL <u>2</u>	@	<u>9.00</u>	<u>19.00</u>
CHLORIDE	@		
<u>WFR-2 500 gals</u>	@	<u>1.00</u>	<u>500.00</u>
<u>ASC 135</u>	@	<u>8.20</u>	<u>1107.00</u>
<u>Gilsonite 635#</u>	@	<u>41.4</u>	<u>260.55</u>
	@		
	@		
HANDLING	@	<u>105</u>	<u>141.75</u>
MILEAGE <u>4 1/2 sk / mile</u>			<u>100.00</u>
			TOTAL <u>2128.10</u>

REMARKS:

SERVICE

Centralizers on, Shoe joint, 12, 516, 78
155x Rathole
105x Mousehole
Float Held
Thank You!

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1000.00</u>
EXTRA FOOTAGE	@		
MILEAGE <u>5</u>	@	<u>3.00</u>	<u>15.00</u>
PLUG <u>1</u>	@		<u>50.00</u>
	@		
	@		
			TOTAL <u>1145.00</u>

CHARGE TO: Popp Operating Inc
STREET _____
CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

<u>5 1/2"</u>			
<u>Guide Shoe 1</u>	@		<u>150.00</u>
<u>DFU Insert 1</u>	@		<u>235.00</u>
<u>Turbo Cent. 7</u>	@	<u>60.00</u>	<u>420.00</u>
	@		
	@		
			TOTAL <u>805.00</u>

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
TOTAL CHARGE _____
DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Luby Popp

PRINTED NAME