

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

CONFIDENTIAL

ORIGINAL

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: (620) 786-5514

Contractor: Name: Discovery Drilling Co., Inc.

License: 31548

Wellsite Geologist: Bob Stolzle

Designate Type of Completion:

New Well Re-Entry Workover

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: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to Enhr./SWD

Plug Back Plug Back Total Depth

Commingled Docket No. _____

Dual Completion Docket No. _____

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

3/26/02 4/1/02 4/1/02

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 009-24,734-0000

County: Barton

N/2 N/2 SW Sec. 11 Twp. 20S. R. 11W East West

2310 feet from S N (circle one) Line of Section

1320 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: Panning Well #: 4

Field Name: Chase Silica

Producing Formation: Arbuckle

Elevation: Ground: 1754 Kelly Bushing: 1762

Total Depth: 3375 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at 499.29 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 HE 1 EH 6-17-02
(Data must be collected from the Reserve Pit)

Chloride content 17,000 ppm Fluid volume 160 bbls

Dewatering method used Hauled free fluids

Location of fluid disposal if hauled offsite: _____

Operator Name: Popp Operating, Inc.

Lease Name: Panning #1 SWD License No.: 32325

Quarter S/2 Sec. 11 Twp. 20 S. R. 11 East West

County: Barton Docket No.: D-27,948

RECEIVED
MAY 21 2002
KCC WICHITA

MAY 20 2002

CONFIDENTIAL

RELEASED

JUN 18 2003

FROM CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 430 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.

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: 5-20-02

Subscribed and sworn to before me this 20th day of May

2002

Notary Public: Jane M. Steinert

Date Commission Expires: 5/20/03

KCC Office Use ONLY

Letter of Confidentiality Attached
If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

NOTARY PUBLIC - State of Kansas
JANE M. STEINERT
My Appt. Exp. 5/20/03

X

Operator Name: POPP OPERATING, II Lease Name: Panning Well #: 4

Sec. 11 Twp. 20 S. R. 11W East West County: Barton

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, lime 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

<p>Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i></p> <p>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i></p> <p>List All E. Logs Run:</p> <p>Compensated Density/Neutron Log, Dual Induction Log, Cement Bond Log</p>	<p><input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Name</td> <td style="width:30%;">Top</td> <td style="width:40%;">Datum</td> </tr> <tr> <td>Anhy</td> <td>498'</td> <td>+1264</td> </tr> <tr> <td>Howard</td> <td>2518'</td> <td>-756</td> </tr> <tr> <td>Heebner</td> <td>2878'</td> <td>-1116</td> </tr> <tr> <td>Lansing</td> <td>3024'</td> <td>-1262</td> </tr> <tr> <td>Arb</td> <td>3276'</td> <td>-1514</td> </tr> </table>	Name	Top	Datum	Anhy	498'	+1264	Howard	2518'	-756	Heebner	2878'	-1116	Lansing	3024'	-1262	Arb	3276'	-1514
Name	Top	Datum																	
Anhy	498'	+1264																	
Howard	2518'	-756																	
Heebner	2878'	-1116																	
Lansing	3024'	-1262																	
Arb	3276'	-1514																	

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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 Pipe	12 1/4	8 5/8	23	499.29	Lite&Com	425	2%Gel&3%CC
Production St.	7 7/8	5 1/2	14	3374	ASC	170	2%Gel-2%CC 6%Plaster

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	3190-94	3200-04'		
<input type="checkbox"/> Protect Casing	3093-97	common	250	2%cc & 2% gilsonite last 50 sx
<input type="checkbox"/> Plug Back TD	3072-76			
<input checked="" 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 (Amount and Kind of Material Used)		Depth
4 spf	3200-04'	3190-94'	2000 gal 15% NEFe	400# salt	
4 spf	3093-97'		750 gal 15% NEFe		
4 spf	3072-76'				
4 spf	2858-62'		natural		
2 spf	3276-78.5'		150 gal MCA		

TUBING RECORD	Size 2-7/8	Set At 3317'	Packer At A-C 2737	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or <i>etc.</i> 04-17-02	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls. 20	Gas Mcf	Water Bbls. 200	Gas-Oil Ratio 10%	Gravity 37
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Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Sumit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	

15.009.24734.0000



INVOICE NO.		Subject to Correction		FIELD ORDER 4568	
Date	4-11-02	Lease	Panning	Well #	4
Customer ID		County	Barton	State	KS
Popp Operating		Depth		Formation	K.C.
		Casing	5 1/2	Casing Depth	PB TD
		Customer Representative	Rick Popp	Treater	D. Scott
				Shoe Joint	N/A
				Job Type	Squeeze New Well
				ID	3308

CHARGE

AFE Number	PO Number	Materials Received by	X <i>Rick Popp</i>
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Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D200	250 sks	Common Cmt	✓			
C310	160 lbs	Calcium Chloride	✓			
C322	250 lbs	Gilsonite	✓			
						RELEASED
						JUN 18 2003
						RECEIVED
						MAY 21 2004
						KCC WICHITA
						FROM CONFIDENTIAL
E107	250 sks	Cmt Serv Chg				
E100	1ca	UNITS 1way MILES 55				
E104	646 tm	TONS 1way MILES 55				
R307	1ca	EA3001-3500' PUMP CHARGE				
R700	1ca	Squeeze manifold				
		Discounted Price =		3959.69		

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • Phone (620) 672-1201 • Fax (620) 672-5383

TOTAL

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MAY 21 2002

TREATMENT REPORT



KCC	Customer ID MICHITA	Date 4-11-02
	Customer Popp Oper	Lease No.
	Lease Panning	Well # 9

Field Order # 4368	Station Pratt KS	Casing 5 1/2	Depth	County Barton	State KS
Type Job Squeeze New Well			Formation K.C.	Legal Description 11-20s-11w	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 2 7/8	Shots/Ft 4		Acid	RELEASED	RATE	PRESS	ISIP
Depth 3308	Depth PBTD 3190	From 3190	To 94	Pre Pad 1st Squeeze	JUN 18 2002	Max		5 Min.
Volume	Volume 18.0	From	To	Pad	FROM CONFIDENTIAL	Min		10 Min.
Max Press 1000	Max Press	From 3093	To 97	Frac 2nd Squeeze		Avg		15 Min.
Well Connection	Annulus Vol. 31	From 3092	To 76			HHP Used		Annulus Pressure
Plug Depth	Packer Depth 3190	From	To	Flush		Gas Volume		Total Load

Customer Representative Rick Popp	Station Manager D. Austry	Treater D. Scott
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Service Units	106	23	30	72				
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Page 1 of 1	Service Log
0800						On loc w/Trk's Safety mtg
0930		1600	11	1		PKR @ 3268 psi Tbg + PBTD
0943	100		20	3		Set PKR @ 3120' Squeeze Bottom Perfs
0947		200	5	2.5		Pump 20 Bbls Down Annulus & monitor psi
0949		200	5	2.5		mix CMH2O 2% & Take Rate
0952		400	21	2.5		H2O Spacer
0959			10	5		mix Cmt @ 15.6 ppw 100 ski
1002		0		3.0		Chose In & Wash pump & line
1008		350	9	1.5		St Disp w/H2O
1014		400	18	0		9 Bbls Out Caught psi
1022		450	19	0		18 Bbls Out Shut Down
1210		650	19 3/4	1/8		19 Bbls Out Shut Down a Stage
						19 3/4 Bbls Out
						Pull PKR up to 2960'
						& Squeeze 3092-76, 3093-97 ports
1230	400		10	1		psi Annulus
1237		400	10.5	2.5		Inj Rate 10 Bbls w/2% CC
1238		300	10	2.5		Mix 50 ski Neat Cmt
1240		200	5.5	2.5		Mix 25 ski Cmt w/ 5 #/ 6:1
1241		100	10	2.5		Mix 50 ski Neat Cmt
1243		300	5.5	2.5		Mix 25 ski Cmt w/ 5 #/ 6:1

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TREATMENT REPORT



KCC WIC

Field Order # 4368	Station	Casing 5	Depth	Customer ID	Date 4-11-02
Type Job	Formation	Legal Description 17-20s-1lw	Customer Papp Oper	Lease No.	Well # 4
			Lease Panning	County Barton	State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RELEASED	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	JUN 18 2003	Max		5 Min.
Volume	Volume	From	To	Pad	FROM CONFIDENTIAL	Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager	Treater
Service Units		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					Page 2 of 2
					Continued from previous page
1250			10	4	Chase In + Wash Pump + Line
1252				2.5	St Disp w/H ₂ O
1255		500	10	1.5	10 Bbls Disp Out
1310		800	18		18 Bbls Disp Out Stage Cmt
1320		1250	18		psi Squeeze
1322					Release psi, Held
1325	400		25	2	Unset PKR + Rev Out Tbg
1333		1100			psi Squeeze, Holding
1335					Release psi, Held
					T.O.H. w/Tbg + PKR
					Job Complete
					Thank you Scotty

15.009.24734.0000
ALLIED CEMENTING CO., INC. 7590

Federal Tax I.D.# 48-0727860

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

SERVICE POINT:
Great Bend

DATE <u>3/27/02</u>	SEC. <u>11</u>	TWP. <u>20</u>	RANGE <u>11 W</u>	CALLED OUT <u>4:00 am</u>	ON LOCATION <u>5:30 am</u>	JOB START <u>7:30 am</u>	JOB FINISH <u>8:15 am</u>
LEASE <u>Panning</u>	WELL # <u># 4</u>	LOCATION <u>Ellenwood - 2 1/2 East -</u>			COUNTY <u>Barton</u>	STATE <u>K.S.</u>	
OLD OR <u>(NEW)</u> (Circle one)		<u>1/4 south - East into</u>					

CONTRACTOR Discovery #2
TYPE OF JOB Surface pipe ✓
HOLE SIZE 12 1/4 T.D. 500'
CASING SIZE 8 5/8 DEPTH 499'
TUBING SIZE _____ DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL _____ DEPTH _____
PRES. MAX 300 lbs MINIMUM - 0 -
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. approx 15' **RELEASED**
PERFS. _____
DISPLACEMENT _____

OWNER Popp Operating Inc.
CEMENT
AMOUNT ORDERED 235 sk 65/35 3% oil ✓
200 common 342 - 1/4 lb Flo Seal ✓

COMMON	<u>200</u>	@	<u>6.65</u>	<u>1330.00</u>
POZMIX	<u>235 Alw</u>	@	<u>6.30</u>	<u>1480.50</u>
GEL	<u>4</u>	@	<u>10.00</u>	<u>40.00</u>
CHLORIDE	<u>13</u>	@	<u>30.00</u>	<u>390.00</u>
Flo Seal	<u>109 #</u>	@	<u>1.40</u>	<u>152.60</u>
HANDLING	<u>456</u>	@	<u>1.10</u>	<u>501.60</u>
MILEAGE	<u>13</u>	@		<u>237.12</u>

RECEIVED
MAY 21 2002
TOTAL \$ 4131.82

KCC WICHITA SERVICE

DEPTH OF JOB	<u>499'</u>		
PUMP TRUCK CHARGE	<u>0-300'</u>		<u>520.00</u>
EXTRA FOOTAGE	<u>199'</u>	@	<u>.50</u> <u>99.50</u>
MILEAGE	<u>13</u>	@	<u>3.00</u> <u>39.00</u>
PLUG	<u>1- 8 5/8 Rubber</u>	@	<u>100.00</u> <u>100.00</u>

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>Jack</u>
# <u>120</u>	HELPER	<u>Steve</u>
BULK TRUCK	DRIVER	<u>Larry</u>
# <u>344</u>	DRIVER	<u>honnie</u>

REMARKS:
Run 12 jts of 8 5/8 csg - cement with
235 sk libe with 200 sk common see
tail - Displace with 31 BBls fresh
water - Cement Old Circ. ✓

Thanks

CHARGE TO: Popp Operating Inc
STREET P.O. Box 187
CITY Herington STATE KS ZIP 67544

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.

SIGNATURE Carl F. Goff

FLOAT EQUIPMENT

@	_____
@	_____
@	_____
@	_____
@	_____

TOTAL _____
TAX - 0 -
TOTAL CHARGE \$ 4890.32
DISCOUNT \$ 489.03 IF PAID IN 30 DAYS

PRINTED NAME Carl F. Goff

Net \$ 4401.29

03/26
06/12
12-7

ALLIED CEMENTING CO., INC.

10321

Federal Tax I.D.# 48-0727860

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

SERVICE POINT:

Russell

DATE <i>4-1-02</i>	SEC. <i>11</i>	TWP. <i>20</i>	RANGE <i>11</i>	CALLED OUT <i>11:00 AM</i>	ON LOCATION <i>2:30 PM</i>	JOB START <i>6:45 PM</i>	JOB FINISH <i>7:15 PM</i>
LEASE <i>PANNING</i>	WELL # <i>4</i>	LOCATION <i>ELLINWOOD 3E 15 1/4 EINTO</i>			COUNTY <i>BARTON</i>	STATE <i>KANSAS</i>	
OLD OR NEW (Circle one)							

CONTRACTOR *Discovery Drilling Rig # 2* OWNER *SAME*
 TYPE OF JOB *PRODUCTION STRING*
 HOLE SIZE *7 7/8* T.D. *3376*
 CASING SIZE *5 1/2 NEW #4* DEPTH *3375*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL *AFU INSERT @* DEPTH *3333*
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT *41.48*
 CEMENT LEFT IN CSG.

CEMENT AMOUNT ORDERED *170 SK. ASC*
500 GAL. WFR-2 FLUSH

COMMON	<i>170 ASC</i>	@	<i>850</i>	<i>1445.00</i>
POZMIX		@		
GEL	<i>3</i>	@	<i>10.00</i>	<i>30.00</i>
CHLORIDE		@		
WFR-2	<i>500 gals</i>	@	<i>1.00</i>	<i>500.00</i>
HANDLING	<i>182</i>	@	<i>1.10</i>	<i>200.20</i>
MILEAGE	<i>44/SK/MILE</i>			<i>176.40</i>

PERFS.
 DISPLACEMENT *8 1/2 BBL RELEASED*
 EQUIPMENT *JUN 18 2003*

PUMP TRUCK CEMENTER *Glenn*
 # *345* HELPER *Dave* FROM CONFIDENTIAL
 BULK TRUCK DRIVER *DARIN*
 BULK TRUCK DRIVER

RECEIVED TOTAL *2291.60*

MAY 21 2002

KCC WICHITA SERVICE
ROTATING HEAD

DEPTH OF JOB				
PUMP TRUCK CHARGE				<i>1130.00</i>
EXTRA FOOTAGE		@		
MILEAGE	<i>16</i>	@	<i>3.00</i>	<i>48.00</i>
PLUG	<i>5 1/2 RUBBER</i>	@		<i>50.00</i>

TOTAL *1228.00*

REMARKS:
TURBO CENT 1-2-3-4-5-7-8-12-13
RAN 80 JTS
10 SK @ mouse hole
15 SK @ bot hole
FLOAT HELD
THANKS

CHARGE TO: *POPP OPERATING INC*
 STREET _____
 CITY _____ STATE _____ ZIP _____

WEATHERHEAD
 FLOAT EQUIPMENT

1 - Guide Shoe	@		<i>150.00</i>
1 - AFU INSERT	@		<i>235.00</i>
9 - TURBO CENTRALIZER	@	<i>60.00</i>	<i>540.00</i>

TOTAL *925.00*

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 *Ricky Popp*

PRINTED NAME