

SEP 17 2009

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1 October 2008 Form Must Be Typed

RECEIVED KANSAS CORPORATION COMMISSION

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: JASON ALM Purchaser: NCRA

Designate Type of Completion: [X] New Well [ ] Re-Entry [ ] Workover [X] Oil [ ] SWD [ ] SLOW [ ] Gas [ ] ENHR [ ] SIGW [ ] CM (Coal Bed Methane) [ ] Temp. Abd. [ ] 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. Conv. to SWD Plug Back: Plug Back Total Depth Commingled Docket No.: Dual Completion Docket No.: Other (SWD or Enhr.?) Docket No.: 8/12/09 8/16/09 8/26/09 Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

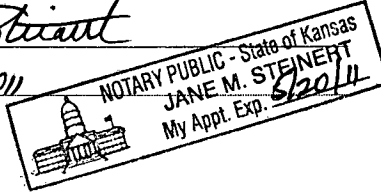
API No. 15 - 167-23,588-00-00 Spot Description: 150' SOUTH of NW SE SW Sec. 29 Twp. 15 S. R. 13 [ ] East [X] West 840 Feet from [ ] North [X] South Line of Section 1650 Feet from [ ] East [X] West Line of Section Footages Calculated from Nearest Outside Section Corner: [ ] NE [ ] NW [ ] SE [X] SW County: RUSSELL Lease Name: SELLENS HEIRS Well #: 3 Field Name: TRAPP Producing Formation: ARBUCKLE Elevation: Ground: 1893' Kelly Bushing: 1901' Total Depth: 3390' Plug Back Total Depth: 3343' Amount of Surface Pipe Set and Cemented at: 879 Feet Multiple Stage Cementing Collar Used? [ ] Yes [X] No If yes, show depth set: Feet If Alternate II completion, cement circulated from: feet depth to: w/ sx cmt.

Drilling Fluid Management Plan AH I NCR 10-8-09 (Data must be collected from the Reserve Pit) Chloride content: 16,000 ppm Fluid volume: 720 bbls Dewatering method used: HAUL FREE FLUIDS Location of fluid disposal if hauled offsite: Operator Name: POPP OPERATING, INC Lease Name: BOOMHOWER "A" License No.: 32325 Quarter NW Sec. 32 Twp. 15 S. R. 13 [ ] East [X] West County: RUSSELL Docket No.: D-28,918

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.

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: 9/14/09 Subscribed and sworn to before me this 14th day of September 2009 Notary Public: Jane M. Steiner Date Commission Expires: 5/20/2011



KCC Office Use ONLY Letter of Confidentiality Received [X] If Denied, Yes [ ] Date: Wireline Log Received [X] Geologist Report Received [X] UIC Distribution [ ]

Side Two

257-5000

Operator Name: **POPP OPERATING, INC.**

Lease Name: **SELLENS HEIRS**

Well #: **3**

Sec. **29** Twp. **15** S. R. **13**  East  West

County: **RUSSELL**

**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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" 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	868'	+1033'
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Tariko	2555'	-654'
List All E. Logs Run:		TOPEKA	2766'	-865'
<b>COMPENSATED DENSITY/NEUTRON, DUAL INDUCTION, MICRO &amp; CEMENT BOND LOGS</b>		HEEBNER	2996'	-1095'
		DOUGLAS	3028'	-1127'
		L-KC	3066'	-1165'
		Arbuckle	3326'	-1425'

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 PIPE	12-1/4"	8-5/8"	24#	879'	COMMON	310 SX	2%GEL/3%CC
PRODUCTION CSG	7-7/8"	5-1/2"	14#	3386'	ECONOBOND	150 SX	

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	3326-27'	150 GAL 7-1/2% MCA	

TUBING RECORD:	Size: 2-7/8"	Set At: 3338'	Packer At: A/C @ 3276'	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 8/28/09	Producing Method: <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. 15	Gas Mcf -----	Water Bbls. 340	Gas-Oil Ratio 5% Gravity 39

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 checked="" type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 3326-27'
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# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

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

No. 3265

Date	8-13-09	Sec.	29	Twp.	15	Range	13	County	Russell	State	Ks	On Location		Finish	2:30 PM
Lease	SELLERS HEIR			Well No.	#3			Location	Milbergee Rd 3 1/2 E N into						
Contractor	Discoverer Dely #2			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.										
Type Job	SURFACE			Hole Size	12 1/4		T.D.	890		Charge To	POPP OPERATIONS				
Csg.	8 5/8 24"		Depth	880		Tbg. Size	Depth		Street						
Drill Pipe	Depth		City		State										
Tool	Depth		The above was done to satisfaction and supervision of owner agent or contractor.												
Cement Left in Csg.	Shoe Joint		40.30		CEMENT										
Press Max.	Minimum		Amount Ordered		310x Common 2% GEL 3% CL										
Meas Line	Displace		53.8 Bbls total		Common 310										
Perf.	EQUIPMENT			Poz. Mix											
Pumptrk	5	No.	Cementer	JOE		Gel. 6									
Bulktrk	11	No.	Helper	JOE		Calcium 11									
Bulktrk	PV	No.	Driver	BETAN		Mills									
Bulktrk	PV	No.	Driver	TOOD		Salt									
JOB SERVICES & REMARKS													CONSERVATION DIVISION WICHITA, KS		
Pumptrk Charge	SURFACE			Flowseal											
Mileage	15			SEP 17 2009											
Footage	Total			RECEIVED KANSAS CORPORATION COMMISSION											
Remarks:	Run 22 1/2's 24" 8 5/8 csg set @ 890			Handling 327											
	Baffle plate 1ft = 40.30			Mileage 108 PER 5x PER MILE											
	Pump 310x Common			Pump Truck Charge											
	2% GEL 3% CL			FLOAT EQUIPMENT											
	15% GAL 1.36 ft <sup>3</sup>			Guide Shoe											
	SHUT DOWN Release Rubber Plug			Centralizer											
	DRIP 53.8 Bbls total			Baskets											
	Plug down			AFU Inserts											
	Close Valve on Csg 300"			1 8 5/8 Baffle Plate											
	Good Calc. thru JO3			1 8 5/8 Rubber Plug											
	CALC OUT TO POT			Rotating Head											
	PLEASE CALL BETAN			Squeez Mainfold											
Thanks	TOOD JOE & BETAN			Tax											
Signature	[Signature]			Discount											
				Total Charge											

Customer <b>Popp Operating Inc</b>	Lease No.	Date <b>8-17-09</b>
Lease <b>Sellen Heirs</b>	Well # <b>#3</b>	
Field Order # <b>1718 0526A</b>	Station <b>Pratt Ks</b>	Casing, " <b>5 1/2</b>
		Depth <b>3387'</b>
Type Job <b>5 1/2 Long String</b>	Formation <b>cnw</b>	County <b>Russell</b>
		State <b>Ks</b>
		Legal Description <b>29-15-13</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size "	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<b>5 1/2</b>								
Depth <b>3387</b>	Depth	From	To	Pre Pad <b>20 BBL Clay max</b>	Max <b>N<sup>2</sup>O</b>			5 Min.
Volume <b>81.6 BBL</b>	Volume	From	To	Pad <b>12 BBL mud flush</b>	Min <b>sh</b>			10 Min.
Max Press <b>1000 #</b>	Max Press	From	To	Frac <b>150 SKS Econo</b>	Avg <b>Bond mix @ 13.8 gal 1.53 yield</b>			15 Min.
Well Connection <b>P.C.</b>	Annulus Vol.	From	To	<b>4% gel, 2% CC, 3% F.R.</b>	HHP Used <b>3% FIA-322, 5# cal set</b>			Annulus Pressure <b>5 1/2 Gil somite</b>
Plug Depth <b>3347</b>	Packer Depth	From	To	Flush <b>Clay max flush</b>	Gas Volume <b>50 SKS 60/40 Por</b>			Total Load <b>RH + MH</b>

Customer Representative <b>Rick Popp</b>	Station Manager <b>DAVE SCOT</b>	Treater <b>Allen F Werth</b>
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Service Units	<b>28443</b>	<b>19889</b>	<b>19842</b>	<b>19832</b>	<b>2010</b>				
Driver Names	<b>Worth</b>	<b>Chad</b>	<b>Roush</b>	<b>Steve</b>	<b>Lachance</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>1230</b>					<b>Discovery #2</b>
					<b>on loc. set up. Plan Job. Discuss Safety.</b>
					<b>Rig Laying down Drill Pipe</b>
<b>1512</b>					<b>start 5 1/2" csj 14" S.T 39.82</b>
					<b>w/ Float Shoe + Latch down Baffle</b>
					<b>cent. 1-2-5-7-8</b>
<b>1630</b>					<b>Tag Bottom @ 3390 - Cir + Rotate @ 3387</b>
	<b>100 #</b>		<b>20</b>	<b>5</b>	<b>start Pump 20 BBLs Clay max H<sup>2</sup>O</b>
	<b>100 #</b>		<b>12</b>	<b>5</b>	<b>start Pump 12 BBLs mud flush</b>
	<b>100 #</b>		<b>3</b>	<b>5</b>	<b>Pump 3 BBLs N<sup>2</sup>O spacer "Rotate"</b>
	<b>150</b>			<b>6</b>	<b>mix + Pump 150 SKS Econo Blend</b>
	<b>250 #</b>		<b>41</b>		<b>Fin. mix cmt. wash out Pump Line</b>
					<b>Release Latch down Plug.</b>
<b>1732</b>	<b>0 #</b>			<b>6 1/2</b>	<b>start O.sp. "Rotate" casing cap 81.6 BBL.</b>
	<b>200 #</b>			<b>5</b>	<b>caught Lift PSI w/ 59 BBLs out</b>
<b>1800 #</b>	<b>1000 #</b>		<b>81.6</b>	<b>4</b>	<b>Plug down - Release PSI. "OK"</b>
			<b>7</b>		<b>Plug Rat Hole w/ 30 SKS 60/40 Por</b>
			<b>4</b>		<b>Plug Mouse Hole w/ 20 SKS 60/40 Por</b>
					<b>wash up Equip + Rack up.</b>
<b>1900</b>					<b>Job complete.</b>
					<b>+ thanks Allen</b>
					<b>Chad</b>
					<b>Steve.</b>

# **Geological Report**

**Sellens Heirs #3**  
**840' FSL & 1650' FWL**  
**Sec. 29 T15S R13W**  
**Russell County, Kansas**



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CONSERVATION DIVISION  
WICHITA, KS

**ALMA, INC.**



August 18, 2009

Dr. James Moore  
ALMA, INC.  
18151 Dearborn  
Stilwell, Kansas 66085

Re: Sellens Heirs Prospect  
Well #3  
840' FSL & 1650' FWL  
Sec. 29 T15S R13W  
Russell Co., Kansas

Dear Dr. Moore,

The following is a summary report on the referenced well. Please refer to my geological report strip log for this well to find detailed information of sample descriptions.

### General Data

Drilling Contractor:	Discovery Drilling Co., Inc. Rig #2
Spud Date:	August 12, 2009
Completion Date:	August 17, 2009
Elevation:	1893' Ground Level 1901' Kelly Bushing
Casing:	878' 8 5/8" surface casing w/ 320 sks com. 3389' 5 1/2" production Casing w/ 150 sks ASC
Samples:	10' wet and dry, 2600' to RTD
Drilling Time:	2450' to RTD
Electric Logs:	Superior Well Services "Mitch Rupp" CNL/CDL, DIL, MEL
Drillstem Tests:	None
Problems:	None
Remarks:	None

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## Formation Tops

ALMA, INC. Sellens Heirs #3 Sec. 29 T15S R13W 840' FSL & 1650' FWL		
Formation:	Log Tops	Sample Tops
Stone Corral Anhydrite	868', +1033	868', +1033
Base Stone Corral	902', +999	902', +999
Stotler	2488', -587	2489', -588
Tarkio	2555', -654	2558', -654
Howard	2694', -793	2696', -795
Topeka	2766', -865	2767', -866
Plattsmouth	2912', -1011	2914', -1013
Heebner	2996', -1095	2998', -1097
Toronto	3014', -1113	3015', -1114
Douglas	3028', -1127	3030', -1129
Lansing-Kansas City	3066', -1165	3066', -1165
Arbuckle	3326', -1425	3326', -1425

## Structural Comparison

Formation:	ALMA, INC. Sellens Heirs #3 Sec. 29 T15S R13W 840' FSL & 1650' FWL	ALMA, INC. Sellens Heirs #2 Sec. 29 T15S R13W 330' FSL & 2160' FWL	ALMA, INC. Sellens Heirs #1 Sec. 29 T15S R13W 480' FSL & 330' FWL
Stone Corral	868', +1033	869', +1031 (+2)	828', +1037 (-4)
Base Stone Corral	902', +999	900', +1000 (-1)	858', +997 (+2)
Stotler	2488', -587	2490', -590 (+3)	2454', -595 (+8)
Tarkio	2555', -654	2558', -658 (+4)	2517', -658 (+4)
Howard	2694', -793	2694', -794 (+1)	2657', -798 (+5)
Topeka	2766', -865	2766', -866 (+1)	2729', -870 (+5)
Plattsmouth	2912', -1011	2914', -1014 (+3)	2878', -1019 (+8)
Heebner	2996', -1095	2998', -1098 (+3)	2961', -1102 (+7)
Toronto	3014', -1113	3014', -1114 (+1)	2978', -1019 (+6)
Douglas	3028', -1127	3028', -1128 (+1)	2997', -1138 (+9)
Lansing-Kansas City	3066', -1165	3068', -1168 (+3)	3034', -1175 (+10)
Arbuckle	3326', -1425	3326', -1426 (+1)	3286', -1427 (+2)

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## Significant oil show descriptions

### Plattsmouth:

Ls– Fine crystalline with poor to fair vuggy porosity, light to fair oil stain with light saturation in porosity, slight show of free oil, light odor.

### Lansing-Kansas City C-zone:

Ls – Fine crystalline, fossil oolite packstone with fair to good oomoldic porosity, light scattered oil stain in porosity, no show of free oil, light odor.

### Lansing-Kansas City G-zone:

Ls - Fine crystalline, fossil oolite packstone with good oomoldic porosity, light scattered oil stain in porosity, no show of free oil, light odor.

### Lansing-Kansas City H-zone:

Ls - Fine crystalline, fossil oolites with fair to good oomoldic porosity, light scattered oil stain in porosity, no show of free oil, light odor.

### Arbuckle:

Dolo - Fine to medium sucrosic crystalline with poor to fair to inter-crystalline porosity, light to fair golden brown oil stain with light scattered saturation in porosity, show of free oil when broken, strong odor, fair to good yellow cut fluorescents.

## Conclusions and Recommendations

The location for the Sellens Heirs #3 was found via subsea datum mapping and proximity to historic production. The new well ran structurally high on all producing datums. The Arbuckle Formation was encountered at a structural datum of -1425 which is 13 feet higher than the offset well. Commercial oil shows were encountered throughout the new well. After all gathered data had been thoroughly examined the decision was made to run 5½ inch production casing to further evaluate the Sellens Heirs #3 well.

## Recommended Perforations

**Arbuckle:** ( 3326' – 3327' )

Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.

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