

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
October 2008

Form Must Be Typed

ORIGINAL

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32204

Name: REDLAND RESOURCES, INC.

Address 1: 6001 NW 23RD STREET

Address 2: \_\_\_\_\_

City: OKLA CITY State: OK Zip: 73127 + \_\_\_\_\_

Contact Person: ALAN THROWER

Phone: ( 405 ) 789-7104

CONTRACTOR: License # 5929

Name: DUKE DRILLING

Wellsite Geologist: MIKE POLLOK

Purchaser: ONEOK/HIGH SIERRA CRUDE

Designate Type of Completion:

New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_

Oil \_\_\_\_\_ SWD \_\_\_\_\_ SIOW \_\_\_\_\_

\_\_\_\_\_ 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.: \_\_\_\_\_

04/06/09 04/15/09 06/22/09

Spud Date or \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or \_\_\_\_\_  
Recompletion Date \_\_\_\_\_ Recompletion Date

API No. 15 - 033-21552-00-00

Spot Description: \_\_\_\_\_

\_\_\_\_\_ NE NW Sec. 24 Twp. 33 S. R. 17  East  West

335 Feet from  North /  South Line of Section

2144 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

County: COMANCHE

Lease Name: ANNA Well #: 24-3

Field Name: SHIMER

Producing Formation: MISSISSIPPIAN

Elevation: Ground: 1866' Kelly Bushing: 1879'

Total Depth: 5250' Plug Back Total Depth: 5212'

Amount of Surface Pipe Set and Cemented at: 265 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 AH I NR 8-12-09  
(Data must be collected from the Reserve Pit)

Chloride content: 5000 ppm Fluid volume: 740 bbls

Dewatering method used: TRUCKING TO DISPOSAL

Location of fluid disposal if hauled offsite:

Operator Name: OIL PRODUCERS

Lease Name: RICH C-9 SWD License No.: 8061

Quarter SE Sec. 22 Twp. 32S S. R. 19  East  West

County: COMANCHE Docket No.: 28,178

**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: Alan Thrower

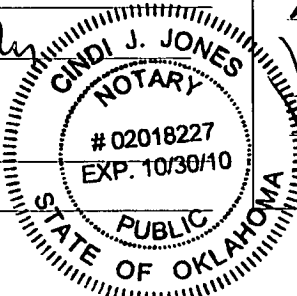
Title: PRESIDENT Date: 07/29/09

Subscribed and sworn to before me this 29<sup>th</sup> day of July

20 09

Notary Public: [Signature]

Date Commission Expires: \_\_\_\_\_



**KCC Office Use ONLY**

Letter of Confidentiality Received

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

Operator Name: REDLAND RESOURCES, INC. Lease Name: ANNA Well #: 24-3  
 Sec. 24 Twp. 33 S. R. 17  East  West County: COMANCHE

**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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run: <b>NEUTRON DENSITY, DUAL INDUCTION,                  MICROLOG</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>CHASE</td> <td>2364</td> <td>-485</td> </tr> <tr> <td>TOP PENN</td> <td>3253</td> <td>-1374</td> </tr> <tr> <td>BS HEEBNER</td> <td>4172</td> <td>-2293</td> </tr> <tr> <td>STARK SH</td> <td>4732</td> <td>-2853</td> </tr> <tr> <td>CHEROKEE SH</td> <td>4979</td> <td>-3100</td> </tr> <tr> <td>MISS UNCONFORM</td> <td>5041</td> <td>-3162</td> </tr> <tr> <td>BS WARSAW</td> <td>5106</td> <td>-3227</td> </tr> </table>	Name	Top	Datum	CHASE	2364	-485	TOP PENN	3253	-1374	BS HEEBNER	4172	-2293	STARK SH	4732	-2853	CHEROKEE SH	4979	-3100	MISS UNCONFORM	5041	-3162	BS WARSAW	5106	-3227
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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
CONDUCTOR	30"	20"	98#	50'	GROUT	5 YDS	
SURFACE	17.50"	13.375"	48#	265'	COMMON	200	3% cc/2% gel
Production	7.875"	4.5"	10.50#	5233'	CLASS H - ASC	200	5#KOLSEAL, 25# FLOSEAL, 5% F-180

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
2 SPF	5043-5070'	ACID - 2000 GAL 15% NEFE	SAME

TUBING RECORD:	Size: <u>2.375"</u>	Set At: <u>5139</u>	Packer At: <u>N/A</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>07/23/09</u>		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 Bbbs. <u>50</u>	Gas Mcf <u>50</u>	Water Bbbs. <u>15</u>	Gas-Oil Ratio <u>1000:1</u> Gravity <u>32</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>5043-5070'</u>
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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. 2350

Date	4-7-09	Sec.	24	Twp.	33	Range	17	Called Out		On Location		Job Start	8:30 AM	
Lease	Anna	Well No.	24-3		Location			Med Lodge K, 160	Comanche County		KS State			
Contractor	Duke Dels #7				Owner				W to MM 193 4S 1E to Rd 22 23/4S					
Type Job					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.					
Hole Size	17 1/2	T.D.	270		Charge To				Redland Resources INC					
Csg.	13 3/8 48"	Depth	265.28		Street									
Tbg. Size		Depth			City				State					
Drill Pipe		Depth			City				State					
Tool		Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	30	Shoe Joint			RECEIVED									
Press Max.		Minimum			JUL 31 2009									
Meas Line		Displace	36		KCC WICHITA				CEMENT					
Perf.														
EQUIPMENT				Amount Ordered				200 sx Common						
Pumptrk	5	No.	Cementer	Joe	Consisting of				2% GEL 3% CC					
Bulktrk	10	No.	Driver	Bobby	Common				200 @ 10.00		2,000.00			
Bulktrk	P	No.	Driver	TOOO	Poz. Mix									
JOB SERVICES & REMARKS				Gel.				4 @ 17.00		68.00				
Pumptrk Charge	13 3/8	400.00		Chloride				7 @ 42.00		294.00				
Mileage	41 @ 6.00	246.00		Hulls										
Footage					Salt									
Total				Flowseal										
Remarks:														
Run 6 1/2" 13 3/8 48" csg set @ 265.28														
											Sales Tax			
MIX Pump 200sx Common				Handling				211 @		369.25				
2% GEL 3% CC				Mileage				.03 PER SX PER MILE		450.00				
15" GAL 1.36ft <sup>3</sup>				PUMP TRUCK CHARGE				Sub Total		646.00				
								Total						
DISP 36 135s total				Floating Equipment & Plugs										
SHUT IN 150"				Squeeze Manifold										
GOOD GEL thru JOB				Rotating Head										
GEL CUT TO PET 50 SX														
THANKS														
TOOO														
JOE & Bobby														
Signature <i>David Anderson</i>														
											Tax		100.17	
											Discount		(752.00)	
											Total Charge		3175.42	

# ALLIED CEMENTING CO., LLC. 043208

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

SERVICE POINT:  
*Medicine Lodge*

DATE 4-15-09	SEC 24	TWP 33s	RANGE 17w	CALLED OUT 9:00 p.m.	ON LOCATION 11:30 p.m.	JOB START 7:00 A.M.	JOB FINISH 8:30 A.M.
LEASE <i>Anna</i>	WELL # 24-3		LOCATION <i>Medicine Lodge #, 31w, 4S, 1E,</i>		COUNTY <i>Comanch</i>	STATE <i>Ka.</i>	
OLD OR NEW (Circle one)			<i>2 1/2 S, 1 SW into.</i>				

CONTRACTOR *Duke?*  
 TYPE OF JOB *Production*  
 HOLE SIZE *7 1/8* T.D. *5250'*  
 CASING SIZE *4 1/2* DEPTH *5233'*  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX *1800* MINIMUM *RECEIVED*  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. *JUL 31 2009*  
 PERFS.  
 DISPLACEMENT *83 BBs 2% KSC WICHITA*  
 EQUIPMENT

PUMP TRUCK CEMENTER *Mark C.*  
 #352 HELPER *David F.*  
 BULK TRUCK  
 #421-251 DRIVER *Scott P.*  
 BULK TRUCK  
 # DRIVER

**REMARKS:**

*ppe on bottom, break Cisc. plug Ratt mouse  
 w/ 1 1/2" x 40' 4" mix 500x scum. mix 175x  
 H ASC. stop wash pump line. release plug.  
 Dip w/ 2% kcl @ 6 bpm. Seal lift @ 49  
 BBs. slow rate. Bump plug 1000 over @ 23  
 40' 4" release. float hold*

CHARGE TO: *Redland Resources*  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME x *DAVID HICKMAN*

SIGNATURE x *David Hickman*

OWNER *Redland Resources*  
 CEMENT  
 AMOUNT ORDERED *225 sx H ASC + 5 # Kol Seal  
 1.5% F1-160 + 1/4 # flo-seal  
 25 sx Lea: 40' 4" Clapro. 8 gals*  
 COMMON *H ASC 225 sx @ 21.10 4747.50*  
 POZMIX *6 sx @ 8.00 48.00*  
 GEL @  
 CHLORIDE *A 9 sx @ 15.45 139.05*  
 ASC @  
*F1-160 105 # @ 13.30 1396.50*  
*Kolseal 1125 # @ .89 1006.25*  
*Flo-seal 56 # @ 2.50 140.00*  
*Clapro 8 gals @ 31.25 250.00*  
 @  
 @  
 @  
 @  
 HANDLING *240 @ 2.40 576.00*  
 MILEAGE *240/.10/20 480.00*  
 TOTAL *8778.30*

**SERVICE**

DEPTH OF JOB *5233'*  
 PUMP TRUCK CHARGE *1400.00*  
 EXTRA FOOTAGE @  
 MILEAGE *20 @ 7.00 140.00*  
 MANIFOLD @  
*stand rental @ n/c*  
 @  
 TOTAL *1540.00*

**PLUG & FLOAT EQUIPMENT**

*1-AFU float shoe @ 198.45*  
*1-Latch Down Assm. @ 139.05*  
*1-Basket @ 141.75*  
*1-turbolizers @ 36.45 218.70*  
 @  
 TOTAL *697.95*

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES ~~\_\_\_\_\_~~  
 DISCOUNT ~~\_\_\_\_\_~~ IF PAID IN 30 DAYS

## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "ALLIED" shall mean Allied Cementing Co., LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

### —SERVICE CONDITIONS AND LIABILITIES:

1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

### WARRANTIES:

1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

#### 2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



# MAP EXPLORATION, INC.

MICHAEL ANTHONY POLLOK, PRES.

P.O. BOX 106 ■ PURCELL, OKLAHOMA 73030  
OFFICE 405/527-6038 ■ HOME 405/527-5200 ■ MOBILE 405/823-4493 ■ FAX 405/527-7692  
■ E-MAIL: mapexpl@aol.com

## GEOLOGICAL REPORT ANNA 24-3 NE NE NW SECTION 24 – T33S – R17W COMANCHE COUNTY, KANSAS

RECEIVED  
JUL 31 2009  
KCC WICHITA

### SUMMARY

The above captioned well was drilled to a total depth of 5,250 feet on April 15, 2009. A one-man logging unit was on location from approximately 3,800 feet to TD. The well was under the geological supervision of the undersigned from 4,100 feet to TD. At TD, Weatherford electric logs were run that consisted of Dual Induction, Compensated Neutron-Density and Micro-log. From the data collected while drilling and analyzing, potential hydrocarbon shows were encountered in the Marmaton-aged Pawnee Limestone and the Mississippian "caprock", as well as the upper porosity zone of the Warsaw Dolomite. The decision was made to set production casing and complete the well in the Mississippian "caprock" and the Warsaw Dolomite upper porosity zone. However, the Pawnee interval should be perforated before plugging the well.

### PAWNEE LIMESTONE

The Pawnee Limestone was cut at 4,949 (-3,070) feet. Samples were described as off white, cream, tan, light brown to brown, very fine microcrystalline, moderately hard, dense, brittle limestone with fair to good pin-point and inter-crystalline porosity. Some dull yellow fluorescence and a trace of dead oil stain were observed, along with a slight odor. There was a 10 foot drilling break and a 47 unit gas kick. The electric logs indicated a six foot productive zone with an average cross-plotting porosity of 12-13%.

### MISSISSIPPIAN "CAPROCK"

The top of the Mississippian "caprock" was encountered at 5,041 (-3,162) feet. The samples were described as off-white, cream to tan, very fine microcrystalline, hard, dense, brittle, slightly argillaceous, dolomitic limestone with a trace of light brown to cream fresh chert. Pin-point porosity could be seen along with some dull yellow fluorescence, a streaming cut, and very weak odor. The gas chromatograph showed a slight gas kick of 36 units. The electric logs indicated an eight foot porosity zone with an average cross plotting porosity of 6%.

## WARSAW DOLOMITE

The Warsaw Dolomite was encountered at 5,052 (-3,173) feet. A nine foot drilling break occurred going from 5 minutes a foot to 1 minute a foot. The gas chromatograph registered kicks of 141 and 72 units, respectively. Samples were described as off white, light grey, buff, and tan, slightly glauconitic, very fine to fine inter-crystalline, very sucrosic, limey dolomite, along with a trace of cherty dolomite. Very good pin-point porosity could be seen. An abundant dull and bright yellow fluorescence, excellent streaming cut, and strong odor were also observed. Electric logs indicated a sixteen foot productive interval with average porosity of 11% and as high as 32%.

### ELECTRIC LOG TOPS

	REDLAND ANNA 24-3 NE NE NW 24-T33S-R17W	CONTINENTAL OIL SHIMMER A GAS UNIT C NE NE 24-T33S-R17W	REDLAND RODNEY 13-5 C SW NW 13-T33S- R17W
CHASE (Subsea)	2364 (-485)	2333 (-491)	2387 (-493)
TOP PENN (Subsea)	3253 (-1374)	3220 (-1378)	3275 (-1381)
BS. HEEBNER (Subsea)	4172 (-2293)	4150 (-2308)	4176 (-2278)
STARK SH. (Subsea)	4732 (-2853)	4700 (-2858)	4750 (-2856)
CHEROKEE SH. (Subsea)	4979 (-3100)	4950 (-3108)	4986 (-3092)
MISS. UNCON. (Subsea)	5041 (-3162)	5012 (-3170)	5046 (-3152)
BS. WARSAW (Subsea)	5106 (-3227)	5090 (-3248)	5102 (-3208)

## CONCLUSION

The Anna 24-3 was drilled as a second developmental well of the Warsaw Dolomite. After all data was analyzed it was determined that the Mississippian "caprock" and the Warsaw Dolomite were commercially productive. A decision was made to run pipe and attempt completion in both intervals. However, logs indicated that the Pawnee Limestone could also be productive and should be perforated before plugging of the well.

Respectfully submitted,



David Hickman  
Well Site Geologist  
4/17/09



Beth Brock  
Petroleum Geotech  
4/17/09