



MAP EXPLORATION, INC.

MICHAEL ANTHONY POLLOK, PRES.

P.O. Box 106 ■ PURCELL, OKLAHOMA 73080
OFFICE 405/527-6038 ■ HOME 405/527-5200 ■ MOBILE 405/823-4493 ■ FAX 405/527-7629
■ E-MAIL: mapexpl@aol.com

GEOLOGICAL REPORT CLARK 31-11 SW/4 SEC. 31-T30S-R18W KIOWA COUNTY, KANSAS

Summary

The above noted well was drilled to a depth of 5,276 feet on November 7, 2013. A one-man logging unit was on location from 3,560 feet, with one-man logging beginning at 4,100 feet. 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, 3 feet of potential hydrocarbon shows were encountered in the Altamont and 19 feet in the Mississippian. The decision was made to set production casing and complete the well in the Mississippian.

Altamont

The Altamont was encountered at 4,952 (-2,716) feet. The samples were described as limestone that was off-white, white, cream, buff, and brown with a trace of gray. Textures were noted as crystalline, fine, sucrosic, and medium while being hard and brittle. They contained fossils while being earthy, slightly argillaceous, and dolomitic in part. Samples possessed pin-point, fracture, and some vugular porosity. Dull with a trace of bright fluorescense, some brown oil staining, a slow streaming cut, and no odor was noted. The top 3 feet of the zone had a cross-plotted porosity of 16.5% with cross over in the micro-log. The gas chromatograph recorded a kick of 170 units which was 31 units higher than the shale above.

Mississippian

The top of the Mississippian was encountered at 5,103 (-2,867) feet. The samples were described as a limestone that was white and off-white with textures noted as sucrosic to medium while being hard, firm, and brittle. They were dolomitic, contained glauconitic specks, and displayed pin-point and inter-crystalline porosity. Bright fluorescence, brown oil staining, good streaming cuts, and strong oil odors were noted. The upper zone of 8 feet averaged 8% porosity while the lower zone of 11 feet averaged 7%. A 74 unit gas kick was recorded which was almost double the background gas. The 2 zones had good cross-over in the micro-log.

ELECTRIC LOG TOPS

	REDLAND RES. CLARK 31-11 SW/4	REDLAND RES. WENDELL 31-6 NW/4 31-T30S-R18W	D.R. LAUCK OIL CO. SMITH E. # 1 SE/4 31-T30S-R18W
BS. HEEBNER (Subsea)	4,286' (-2,050')	4,256' (-2,049')	4,259' (2,054')
T/LANSING (Subsea)	4,452' (2,216')	4,421' (-2,214')	4,444' (-2,221')
T/STARK (Subsea)	4,746' (-2,510')	4,716' (-2,509')	4,715' (-2,510')
T/ALTAMONT (Subsea)	4,952' (-2,716')	4,915' (-2,708')	4,916' (-2,711')
T/CHEROKEE SH. (Subsea)	5,029' (2,793')	5,000' (-2,793')	5,001' (-2,796')
T/MISSISSIPPIAN (Subsea)	5,103' (-2,867')	5,071' (-2,864')	5,068' (-2,863')

Conclusion

The Clark 31-11 was drilled for the potential hydrocarbon production in the Mississippian, which should be commercially productive. After all the data was collected and analyzed, the decision was made to set casing and attempt completion in the Mississippian. Before the well is abandoned, completion should be attempted in the Altamont, which should also be commercially productive.

Respectfully Submitted



Bill Busch
Petroleum Geologist
11/8/2013

ALLIED OIL & GAS SERVICES, LLC 059837

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge KS

DATE 11 02 13	SEC. 31	TWP. 30s	RANGE 18w	CALLED OUT 1000PM	ON LOCATION 12:00miL	JOB START 4:00Am	JOB FINISH 4:55Am
LEASE Clark		WELL # 31-11		LOCATION Coldwater KS, n. to Coline, Iw		COUNTY Kiowa	STATE KS
OLD OR NEW (Circle one) NEW			1/2 N, E/4 into				

CONTRACTOR **Duke #7** OWNER **Redland Resources**
TYPE OF JOB **Surface**

HOLE SIZE 17 1/4	T.D. 312	CEMENT
CASING SIZE 13 3/4	DEPTH 295' + 17' 8 1/2"	AMOUNT ORDERED 300sx class A + 3% cut
TUBING SIZE	DEPTH	2% gel
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX 250# / sx	MINIMUM —	COMMON class A 300sx @ 17.90 5370.00
MEAS. LINE	SHOE JOINT N/A	POZMIX @
CEMENT LEFT IN CSG. 20'		GEL @ 6sx @ 23.40 140.40
PERFS.		CHLORIDE @ 11sx @ 64.00 704.00
DISPLACEMENT 43 Bbls Fresh H₂O		ASC @

EQUIPMENT		
PUMP TRUCK	CEMENTER D. Felia / J. Heard	
# 471-265	HELPER Justin Bower	
BULK TRUCK		
# 421-290	DRIVER James Bowen	
BULK TRUCK		
#	DRIVER	
		HANDLING 324.34 ft³ @ 2.48 804.36
		MILEAGE 14.805 x 50 @ 2.60 1924.65
		TOTAL 8943.41

REMARKS:

Pipe on Btm, Brent Circ., Presitest, Pump spacer, mix 300sx class A 342 cement, Start Disp. w/ Fresh H₂O, Wash up truck, See Steady increase in Pst, Slow Rate, Stop Pump at 43 Bbls total Disp., Shut In, Cement DL Circ.

TAX ☺

SERVICE

DEPTH OF JOB	312'	
PUMP TRUCK CHARGE		1512.25
EXTRA FOOTAGE	@	
MILEAGE	50 @ 7.70	385.00
MANIFOLD	N/A @ N/A	
Light Vehicle	50 @ 4.40	220.00
	@	

TOTAL **2117.25**

CHARGE TO: **Redland**
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

WONR	@	
	@	
	@	
	@	
	@	

TOTAL _____

To: Allied Oil & Gas Services, 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 _____
SIGNATURE *[Signature]*

SALES TAX (If Any) _____
TOTAL CHARGES **11060.66**
DISCOUNT _____ IF PAID IN 30 DAYS
Net 8848.52

ALLIED OIL & GAS SERVICES, LLC 059599

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Medicine Lodge
11-8 11-8

DATE <u>11-7-13</u>	SEC. <u>31</u>	TWP. <u>30s</u>	RANGE <u>15w</u>	CALLED OUT <u>8:00 pm</u>	ON LOCATION <u>9:15 pm</u>	JOB START <u>2:00 pm</u>	JOB FINISH <u>3:00 pm</u>
LEASE <u>Clark</u>	WELL # <u>31-11</u>	LOCATION <u>Coldwater, KS.</u>			COUNTY <u>Comanche</u>	STATE <u>Kansas</u>	
OLD OR NEW (Circle one)			<u>North to Co line, 1w, 1/2 N, E/S</u>				

CONTRACTOR Duke #7
TYPE OF JOB Production
HOLE SIZE 7 1/8" T.D. 5726
CASING SIZE 4 1/2" DEPTH 5725
TUBING SIZE _____ DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL _____ DEPTH _____
PRES. MAX 2,000 MINIMUM _____
MEAS. LINE _____ SHOE JOINT 20
CEMENT LEFT IN CSG. _____
PERFS. _____
DISPLACEMENT 85 bbls of Freshwater

OWNER Redland Resources
CEMENT AMOUNT ORDERED
325 5x Class H ASC + 5 # Kolseal
+ .5% FI-160 + 1/4" Floseal

EQUIPMENT
PUMP TRUCK CEMENTER Darin Franklin
471-265 HELPER Carl Balding
BULK TRUCK DRIVER Justin Bower
421-290 DRIVER Carl Rackley
BULK TRUCK DRIVER _____

COMMON _____	@ _____	_____
POZMIX _____	@ _____	_____
GEL _____	@ _____	_____
CHLORIDE _____	@ _____	_____
ASC _____	@ _____	_____
<u>Class H (ASC) 325 cu</u>	@ <u>23.40</u>	<u>7605.00</u>
<u>Kolseal 1625 #</u>	@ <u>.98</u>	<u>1592.50</u>
<u>Floseal 82 #</u>	@ <u>2.97</u>	<u>243.54</u>
<u>FI-160 153 #</u>	@ <u>18.90</u>	<u>2891.70</u>
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING <u>423.31</u>	@ <u>2.48</u>	<u>1050.00</u>
MILEAGE <u>18.23/50/2.60</u>	@ _____	<u>2369.90</u>
TOTAL		<u>15,752.64</u>

REMARKS:

Run casing, Drop ball for shoe, circulate with Rig Plug Bitmouse w/ 50 5x Mix + Pump 275 5x H (ASC) Wash pump + lines to Pit Release plug Displace with 85 Bbls Freshwater

CHARGE TO: Redland Resources
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>5165</u>	_____	_____
PUMP TRUCK CHARGE <u>3099.25</u>	_____	_____
EXTRA FOOTAGE _____	@ _____	_____
MILEAGE <u>50</u>	@ <u>7.70</u>	<u>385.00</u>
MANIFOLD <u>Hessrens,</u>	@ _____	<u>275.00</u>
<u>LU 50</u>	@ <u>4.40</u>	<u>220.00</u>
_____	@ _____	_____
TOTAL		<u>3979.25</u>

PLUG & FLOAT EQUIPMENT

<u>1 AFV float shoe</u>	@ _____	<u>196.25</u>
<u>1 latch down plug</u>	@ _____	<u>400.00</u>
<u>6-turbolizers</u>	@ <u>46.50</u>	<u>279.00</u>
_____	@ _____	_____
_____	@ _____	_____
TOTAL		<u>875.25</u>

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PRINTED NAME _____
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES 20,607.14
DISCOUNT 16,660.76 IF PAID IN 30 DAYS

ALLIED OIL & GAS SERVICES, LLC 062285

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Medicine Lodge

DATE <u>12/19/2013</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>WATSON</u>	WELL #	LOCATION <u>Coldwater, North to</u>			COUNTY <u>Comanche</u>	STATE <u>Kansas</u>	
OLD OR NEW (Circle one)	<u>Co line 2w, 2N, E6</u>						

CONTRACTOR Clayco Well Service OWNER Redland Resources

TYPE OF JOB squeeze

HOLE SIZE _____ T.D. _____ CEMENT _____

CASING SIZE 4 1/2 DEPTH _____ AMOUNT ORDERED _____

TUBING SIZE 2 3/8 DEPTH 5126 25 sk A + 2 1/2 cc

DRILL PIPE _____ DEPTH _____ 50 sk A neat

TOOL _____ DEPTH _____

PRES. MAX 2000 MINIMUM _____ COMMON 75 sk @ 17.90 1342.50

MEAS. LINE _____ SHOE JOINT _____ POZMIX _____ @ _____

CEMENT LEFT IN CSG. _____ GEL _____ @ _____

PERFS. _____ CHLORIDE 1 sk @ 64.00 64.00

DISPLACEMENT 18 Bbls Freshwater ASC _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Carl Baldwin

#360-502 HELPER Ron Gilbey

BULK TRUCK _____

#364 DRIVER James Bower

BULK TRUCK _____

_____ DRIVER _____

HANDLING 76 @ 2.48 188.48

MILEAGE 354/50/2.60 460.20

TOTAL 2055.18

REMARKS:

Retainer 5126'
load annulas @ 1100
load tubing + establish rate
3 1/2 BPM 1000 mix 25 sk A + 2 1/2 cc
@ 50 sk A neat wash pump + lines
Run with 18 Bbls water
Final psi 2000 slim out of Retainer
+ Reverse out of 2 Bbls

SERVICE

DEPTH OF JOB 5126

PUMP TRUCK CHARGE 3149.78

EXTRA FOOTAGE _____ @ _____

MILEAGE 50 @ 7.70 385.00

MANIFOLD _____ @ _____

H.V 50 @ 4.40 220.00

TOTAL 3754.78

CHARGE TO: Redland Resources

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To: Allied Oil & Gas Services, LLC.

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SALES TAX (If Any) _____

TOTAL CHARGES 5809.96

PRINTED NAME _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Alan Watson

(NEA) 4647.96