

## MAP EXPLORATION, INC.

MICHAEL ANTHONY POLLOK, PRES.

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### 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, slighty argillaceous, and dolomitic in part. Samples possessed pin-point, fracture, and some vugular porosity. Dull with a trace of bright fluorescene, 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 intercrystalline 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	4,286'	4,256'	4,259°
(Subsea)	(-2,050')	(-2,049')	(2,054°)
T/LANSING	4,452'	4,421'	4,444'
(Subsea)	(2,216')	(-2,214')	(-2,221')
T/STARK	4,746'	4,716'	4,715'
(Subsea)	(-2,510')	(-2,509')	(-2,510')
T/ALTAMONT	4,952'	4,915'	4,916'
(Subsea)	(-2,716')	(-2,708')	(-2,711')
T/CHEROKEE SH. (Subsea)	5,029'	5,000'	5,001'
	(2,793')	(-2,793')	(-2,796')
T/MISSISSIPPIAN	5,103'	5,071°	5,068'
(Subsea)	(-2,867')	(-2,864')	(-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 1.D.# 20-5975804

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092				SERVICE POINT: Medicinelogets				
20011	IILAKE, I	UEXAS /C	1092				redica	nelodges
DATE 11 02 13	SEC.	TWP. 30s	RANGE 18w	CALLED OUT 1000PM	ON LOCATION	NI JOI	START ODAM	JOB FINISH
LEASECLAR	WELL#3	1-11	LOCATION Coldwa	deats n. 4	College	J CO	UNTY	STATE 23
OLD OR NEW)(Cir		<del></del>	1/20, e/in			, , ,		
		11	1/2N, $2/N$		0		0	_
CONTRACTOR S	Duke	#7		OWNER	Kel	/ land	Resou	nu?
TYPE OF JOB Sし HOLE SIZE /フタ	intace		. 312	CEMENT				•
CASING SIZE /		DE I'D	РТН 2 <i>95'+ Ю;8</i>	CEMBRY OF	INGRED 36	n sx	classh	1+3201
TUBING SIZE	V		PTH	2%, el	(DEKLE) <u>== 0</u>	<u> </u>	Carry	
DRILL PIPE			PTH	- J-9				
TOOL		DE	PTH		. 1 -		41	
PRES. MAX 250	24.453		NIMUM —	COMMON C	lass# 3	000sx @	17.70	3310
MEAS, LINE			OE JOINT MA	POZMIX		@	2240	140 40
CEMENT LEFT IN	CSG.	<i>?⊘</i>		GEL		6)X @	2)17	790
PERFS. DISPLACEMENT	43	Del-	Fresh H20	CHLORIDE		<u>% 42 </u> @	67	_104
DISPLACEMENT				ASC		@ @		
•	EQU	IPMENT	,			@ @		
					·····	@		***************************************
			dis/ J. Henry	4		@		
	HELPER.	Justia	Bower	_		@		
# 421-290	DRIVER	Υ	5 Bowen			@		
BULK TRUCK	DRIVER	Jane	) D000-10	-		@		
	DRIVER				204.34	7.5°	2.48	804.36
		Parks, na na na mara menamban mengabah d		- HANDLING	324.34 . 14.965 150	<del>       </del> @	50	1924.61
	20.50			MILEAGE _	17 103 172	/¥ _ d\ '		
δι n.		MARKS:					TOTAL	8943.41
Pipeon Bt	tm, Ba	eck C	inc., Preesitest,					•
FULL SPACE	y MIX	3005	x class A 342 of Washy provok,	ment,	SE	RVICE		
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CHARGE TO:	Kello	nd						21225
STREET							TOTAL	2117.25
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SIGNATURE		V		<b></b>		<del>-</del>		

# ALLIED OIL & GAS SERVICES, LLC 059599 Federal Tax 1.D.# 20-5975804

REMIT TO P.O. BOX 93999	SERVICE POINT:
SOUTHLAKE, TEXAS 76092	Medicine Looge
	11-8 11-8'
DATE / 1-7-/3 SEC. TWP. RANGE C.	SECO PM ON LOCATION JOB START JOB FINISH
DATE/7-7 73 37 1305 70 W	CQUNTY STATE
LEASE Jank WELL#3/-// LOCATION /0/d	water, KS, Comanche Kansas
	Line, Iw, & N, E/15
CONTRACTOR DUKE #7	OWNER Redland Resources
	OWNER RESIDENCE
	CEMENT
	AMOUNT ORDERED
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	4.5% f1-160 + 44 Floseal
TOOL DEPTH	
PRES. MAX 2,000 MINIMUM	COMMON@
MEAS. LINE SHOE JOINT 20	POZMIX@
CEMENT LEFT IN CSG.	GEL@
PERFS.	CHLORIDE@
DISPLACEMENT &5 bbls of fresh water	ASC@
EQUIPMENT	1/ass H (Asc) 325 A @23,40 7605.00
in the second se	
DATA Franklin	Kolseac 1625 @ 18 15250
PUMPTRUCK CEMENTER art Balding	Floseal 82# @2.97 243.54
#47/265 HELPER JUSTIN BOWER	71-160 153# @18.90 2891-70
BULK TRUCK	@
#421-290 DRIVER CON RACKIECY	@
BULK TRUCK /	@
# DRIVER	HANDLING 423 31 , @ Z-48 1050-
	MILEAGE 18.23/50/2.60 2369.90
DEMANUS.	
REMARKS:	/ / TOTAL <u>15,752-6</u> 4
Kun Casing, Drop ball for	•
Shoe Circulate with Rig	SERVICE
Plug PA++Mouse W/SO SX	
Shoe, Circulate with Rig	DEPTH OF 10B 5165
Plug PA++Mouse W/SO SX	DEPTH OF 10B 5165
Plug PA++Mouse WSO SX Mix + Pump 275 5x H (ASC)	DEPTH OF JOB 5165 PUMP TRUCK CHARGE 3099. 25
Shoe Circulate with Rig Plug Pattmouse w/SO SX Mix + Pump 275 5x H (ASC) Wash Pump + Zines to Pit	DEPTH OF JOB 5165 PUMP TRUCK CHARGE 3099. 25 EXTRA FOOTAGE @
Shoe, Circulate with Rig Plug Pattmouse w/50 sx Mix + Pump 275 sx H (ASC) Wash Pump + Zines to Pit Release plug Displace with	DEPTH OF JOB 5165  PUMP TRUCK CHARGE 3099. 25  EXTRA FOOTAGE @  MILEAGE 50 @ 7-20 385. 90
Shoe, Circulate with Rig Plug Pattmouse w/50 sx Mix + Pump 275 sx H (ASC) Wash Pump + Zines to Pit Release plug Displace with	DEPTH OF IOB 5165  PUMP TRUCK CHARGE 3099. 25  EXTRA FOOTAGE @  MILEAGE 50 @ 7-20 385. 90  MANIFOLD Herenry @ 275-60
Shoe, Circulate with Rig Plug Pattmouse w/50 sx Mix + Pump 275 sx H (ASC) Wash Pump + Zines to Pit Release plug Displace with	DEPTH OF JOB 5165  PUMP TRUCK CHARGE 3099. 25  EXTRA FOOTAGE @ 7-70 385.00  MANIFOLD Herdreng; @ 275.00  LU 50 @ 4.40 220.00
Shoe Circulate with Rig Plug PA++Mouse W/SO SX Mix + Pump 275 5x 1-1 (ASC) Wash Pump + Lines to Pit Release plug Displace with 85 Bbls I Freshwater	DEPTH OF JOB 5165  PUMP TRUCK CHARGE 3099. 25  EXTRA FOOTAGE @  MILEAGE 50 @ 7-20 385. ©0  MANIFOLD Hegerens 1 @ 275. ©0
Shoe, Circulate with Rig Plug Pattmouse w/50 sx Mix + Pump 275 sx H (ASC) Wash Pump + Zines to Pit Release plug Displace with	DEPTH OF 10B 5165  PUMP TRUCK CHARGE 3099. 25  EXTRA POOTAGE @ MILEAGE 50 @ 7-20 785. ©0  MANIFOLD Hegerents) @ 275. ©0  LU 50 @ 440 220, 00
Shoe Circulate with Rig Plug Pattmouse w/so sxt Mix fung 275 sx H (Asc) Wash fung + Zines to Pit Pelease plug Displace with 85 Bbls of Freshwater CHARGE TO: Redland Resources	DEPTH OF 10B 5165  PUMP TRUCK CHARGE 3099. 25  EXTRA POOTAGE @ MILEAGE 50 @ 7-20 785. ©0  MANIFOLD Hegerents) @ 275. ©0  LU 50 @ 440 220, 00
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Shoe Circulate with Rig Plug BA+tmouse w/SO SX Mix + Pump 27.5 5x H (ASC) wash flump + Lines to Pit Release plug Displace with BS BBIS Treshwater  CHARGE TO: Redand Rescurces  STREET  CITY STATE ZIP  To: Allied Oil & Gas Services, LLC.  You are hereby requested to rent cementing equipment	DEPTH OF JOB 5165  PUMP TRUCK CHARGE 3099. 25  EXTRA FOOTAGE @ 7.70 385.60  MANIFOLD Herdrengs @ 275.60  LU SO @ 440 220.00  TOTAL 3979-25  PLUG & FLOAT EQUIPMENT
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# ALLIED OIL & GAS SERVICES, LLC 062285 Federal Tax J.D. # 20-8651475

REMIT TO P.O. BOX 93999 SERVICE POINT: SOUTHLAKE, TEXAS 76092					ne lodge	
DATE /2/19/2013 SEC.	TWP	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE WASSY WELLA		1,00,000	elwater,	11 // 1	COUNTY ,	STATE
OLD OR NEW (Circle one)			yater,	Novin To	Comanch	e Kansas
OLD OK NEW/CHCIE GIRE	<u>,                                      </u>	160 Line	kw, kw	11000	آ آ	
CONTRACTOR (100)	Ke 11/8	11 Service	OWNER	Reland	Resour	ce 5
TYPE OF JOB Squee	22-8°					
HOLE SIZE	T.I		CEMENT			
CASING SIZE 4/2 TUBING SIZE 23/8	DI	EPTH COG	AMOUNT O			
DRILL PIPE		EPTH <i>51</i> 26 EPTH		4+2%		
TOOL		PTH PTH	50 sx	A NEGT		
PRES. MAX 2000		INIMUM	COMMON	75 sx	@1790	1342.50
MEAS. LINE		IOE JOINT	POZMIX		@ 	_ 100
CEMENT LEFT IN CSG.			GEL		@	
PERFS.			CHLORIDE	/ 5K	_@ <i>640</i> 0	64.00
•	•	Foshwater	ASC		@	
EQ	UIPMEN'	r ·	,		@	***************************************
		-0-4-4			@	****
PUMP TRUCK CEMEN	/-)	l Balchin Y			_	
#360-30Z HELPEI	R Kesa	- billey				
BULK TRUCK # 364 DRIVE	14	R. Int			@	
BULK TRUCK	Lynn	ves Bower	<b></b>	·	@	
# DRIVE	3				_ @ <del></del>	150 778
	***************************************		- HANDLING		@ <i>2.48</i>	188.48
R	EMARKS:	:	MILEAGE _	354/50/0		12055-18
Defainer S	126	r00/3	********	SERV		
Load Lusin	1 /0 / 1	Wil Pate	DEPTH OF I	юв <i>Sl</i> 26	************	
34 BPW DE	X) Wes	( 55x A to	PHMPTRIK	CK CHARGE	749 78°	
at 50 NA NEW	+ WAS	h prayet Lice	EXTRA FOO	TAGE	@	
Wiff with 18	<del>r 13,60</del> 5	water,	MILEAGE	.50	@ Z.7O	385.00
Frank Asi 2000		out of Keto	MANIFOLD		@	
+ Réverse o	or all	10613	<i>L U</i>	50	<u>@ 4.40</u>	<u> 220-00</u>
12.1	1. 1.	Desources			@	
CHARGE TO:	iand k	(e)OURE)	\			24/20
STREET					TOTA	L <i>3754.78</i>
CITYS	STATE	ZIP		PLUG & FLOA	T EQUIPME	ENT
			*****		_@	
m		3	······································			
To: Allied Oil & Gas Ser						
You are hereby requested and furnish cementer and						
contractor to do work as			0			
done to satisfaction and					TOTA	L
contractor. I have read a			L			
TERMS AND CONDITI			<sub>le</sub> SALES TAX	(If Any)		
	1		TOTAL CHA	ARGES580	9.96	
PRINTED NAME	HX	or I for	DISCOUNT		IF P/	AID IN 30 DAYS
SIGNATURE	, , ,	/ N N		(NE)	46 47.9	6