Joshua R. Austin Petroleum Geologist report for RAMA Operating CO., Inc									
COMPANY: RAMA Operating Company, Inc.									
LEASE: Goss #1-17									
FIELD: Zenith-Peace Creek									
LOCATION: Se-Nw-NW-NW (335' FNL & 595' FWL)									
SEC: <u>17</u> TWSP: <u>24s</u> RGE: <u>11w</u>									
COUNTY: Stafford STATE: Kansas									
KB: <u>1843'</u> GL: <u>1834'</u>									
API # 15-185-23872-00-00									
CONTRACTOR: Sterling Drilling (rig #4)									
Spud: <u>04/28/2014</u> Comp: <u>05/04/2014</u>									
RTD: 4060' LTD: 4057'									
Mud Up: 2771' Type Mud: Chemical									
Samples Saved From: <u>2900'-RTD</u> Drilling Time Kept From: <u>2900'- RTD</u>									
Samples Examined From: 2900' - RTD									
Geological Supervision From: <u>3150' to RTD</u>									
Geologist on Well: <u>Josh Austin</u> Surface Casing: <u>8 5/8'' @ 295'</u>									
Production Casing: <u>5 1/2" @4058'</u>									
Electronic Surveys: By Pioneer Energy Services									

NOTES On the basis of the positive structural position, drill stem test and after evaluating the electiric logs, it was recommended by all parties involved in the Goss #1-17 to run 5 1/2" production casing to further test the Viola and Lansing zones.

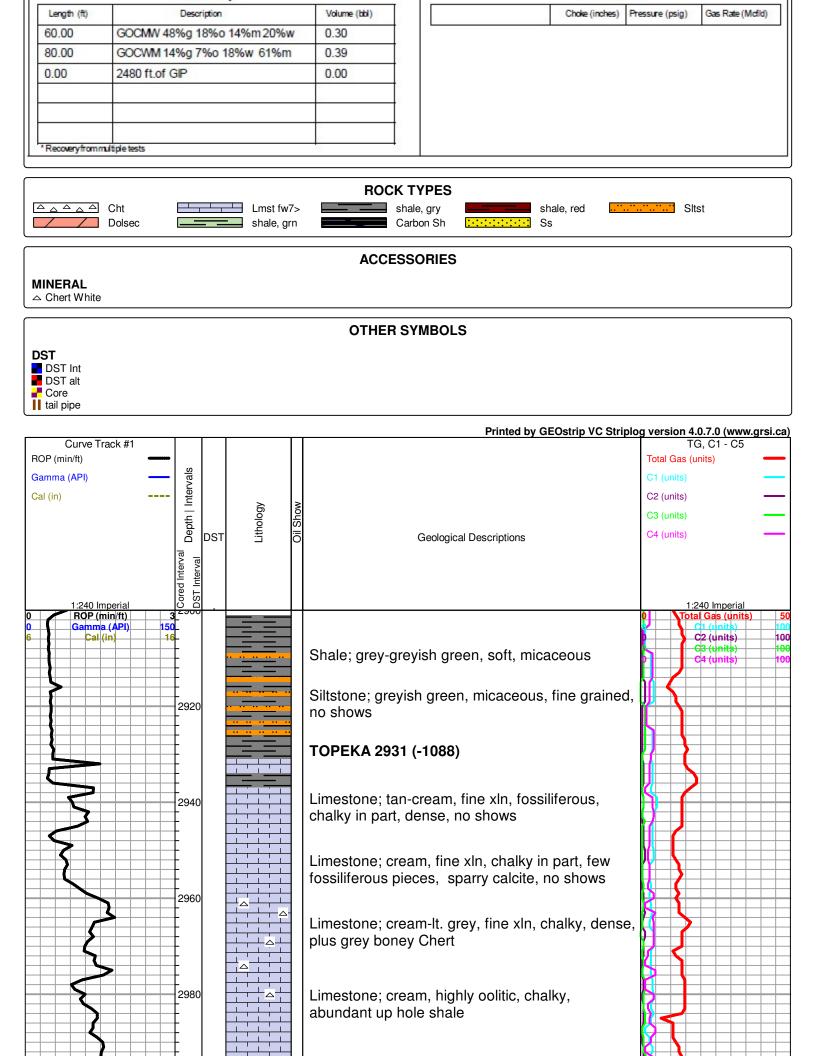
				Co., In sheet	
DRILLI	NG WELL	COMPARI	SON WELL	COMPA	RISON WELL

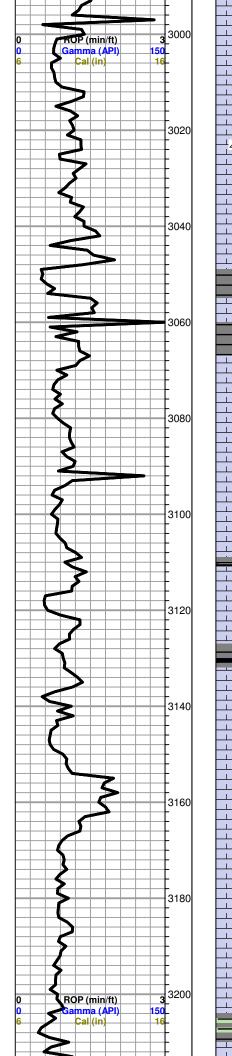
	Goss #1-17 Se-Nw-Nw-Nw					Kelly #1 C-Ne-SW			Piepmeier Sw-Sw-Nw			
	Sec.	17 Twp.	24s Rge	11w	Sec.	8 Twp. 2	4s Rge	11w	Sec.	17 Twp.	24s Rge	11w
0							Struct	ural			Struct	tural
	1843 KB		1828 KB Relationship			1841	KB	Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3241	-1398	3238	-1395	3210	-1382	-16	-13	3248	-1407	9	12
Toronto	3255	-1412	3252	-1409	3230	-1402	-10	-7	3263	-1422	10	13
Douglas	3274	-1431	3271	-1428	3248	-1420	-11	-8	3285	-1444	13	16
Brown Lime	3392	-1549	3389	-1546	3374	-1546	-3	0	3401	-1560	11	14
Lansing	3420	-1577	3418	-1575	3396	-1568	-9	-7	3431	-1590	13	15
Kinderhook	3765	-1922	3763	-1920	3738	-1910	-12	-10				
Misener Sand	3794	-1951	3790	-1947	3751	-1923	-28	-24				
Viola	3820	-1977	3816	-1973	3770	-1942	-35	-31	3840	-1999	22	26
Simpson Shale	3959	-2116	3932	-2089					3961	-2120	4	31
Simpson Sand	3959	-2116	3955	-2112								
Arbuckle	3999	-2156	3995	-2152		10.000			4024	-2183	27	31
Total Depth	4060	-2217	4057	-2214	3830	-2002			4039	-2198	-19	-16

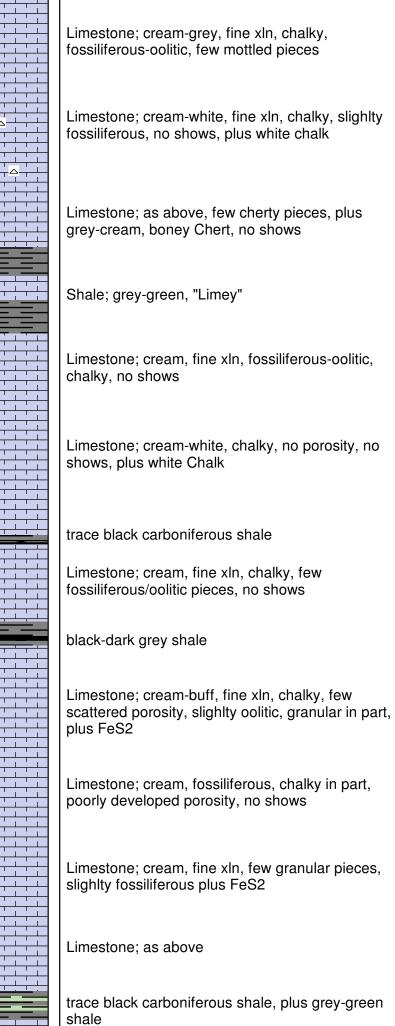
RILOBITE	DRILL STEM TES		ORT					
	Rama Operating Co.Inc.		17-	17-24s-11w Stafford Ks.				
ESTING , INC.	101 S. Main St.	Goss #1-17						
	Stafford Ks.67578			Ticket: 542	06	DST#:1		
	ATTN: Josh Austin		Test	t Start: 2014	4.05.03 @			
GENERAL INFORMATION:								
Formation: Viola								
Deviated: No Whipstock:	ft (KB)					Bottom Hole	e (Initial)	
Time Tool Opened: 08:22:33			S		ary Pevote	aux		
Time Test Ended: 13:04:18			Unit	No: 56				
Interval: 3748.00 ft (KB) To 382			Refe	erence Eleva	ations:	1843.00		
Total Depth: 3828.00 ft (KB) (TVI				1/D to	00/05	1834.00		
Hole Diameter: 7.88 inches Hole	Condition. Fail			KB IO	GR/CF:	9.00	IL	
Serial #: 8352 Outside								
Press@RunDepth: 29.92 psig @	3749.00 ft (KB)		Capacity:			8000.00	psig	
	End Date:	2014.05.03		5.5 S		2014.05.03		
Start Time: 05:30:38	End Time:	13:04:17	Time On B			@ 08:20:48		
			Time Off	Bum 20	14.05.03 (@ 10:59:03		
TEST COMMENT: IF:Weak blow . 1/2	- 2".							
ISt:No blow .								
FF:Weak blow . 2 FSI:No blow	- 5".							
10110000								
Pressare vs. The 572 Pressare	Det UU SOL Temperature			RESSURE		in Permission		
	502 Tonparker	Time (Min)	Pressure	Temp (deg E)	Annotatio	n		
		(Min.)	(psig) 1865.20	(deg F)	nitial Hydro	-static		
		2	19.63		Open To Fi			
		35	29.14		Shut-In(1)			
220		80	148.72	106.54 E	End Shut-In			
	19.	80	20.52		Open To Fl	ow (2)		
		107	29.92	107.04		(0)		
700		157	153.24		End Shut-In			
		159	1827.11	108.67 F	Final Hydro	-static		

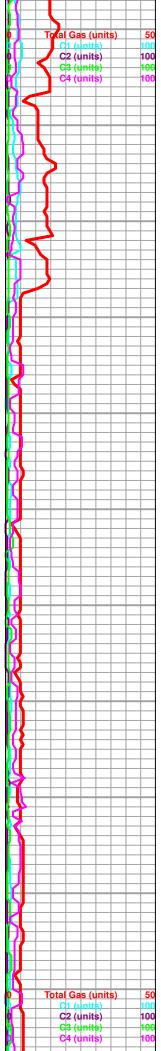
	Recovery Description	Volume (bbl)	Gas Rai		Gas Rate (Mcf
Length (ft) 35.00	Mud w /o specs	0.17	Chole (indres)	Pressure (psig)	Gas Rate (Mich
0.00	300 ft. of GIP	0.00			

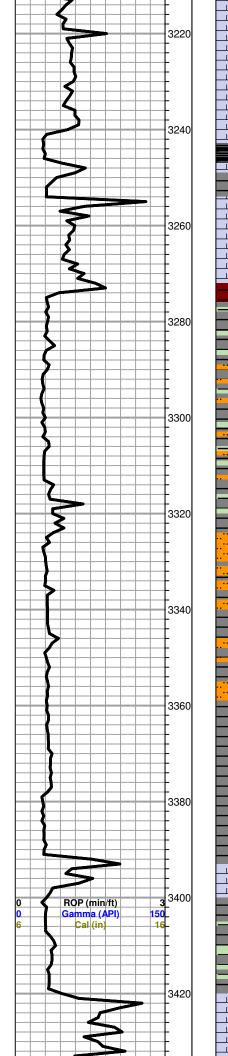
RILOBITE	DRILL STEM TES	ST REP	ORT				
	Rama Operating Co.Inc.		17-24s-11	w Stafford	Ks.		
ESTING , INC.	101 S. Main St. Stafford Ks.67578		Goss #1-17 Job Ticket: 54207 DST#:2				
NOV Y	ATTN: Josh Austin		Test Start:	2014.05.03 @	20:34:35		
GENERAL INFORMATION:							
Formation:ViolaDeviated:NoWhipstock:Time Tool Opened:22:39:50Time Test Ended:03:30:20	ft (KB)		Test Type: Tester: Unit No:	Conventiona Gary Pevote 56	al Bottom Hole (Reset) eaux		
Interval: 3828.00 ft (KB) To 38 Total Depth: 3850.00 ft (KB) (T Hole Diameter: 7.88 inches Hole			Reference	Bevations: B to GR/CF:	1843.00 ft (KB) 1834.00 ft (CF) 9.00 ft		
			K	51001401.	3.00 11		
Serial #: 8352 Outside Press@RunDepth: 60.09 psig Start Date: 2014.05.03 Start Time: 20:34:40	 3829.00 ft (KB) End Date: End Time: 	2014.05.04 03:30:19	Capacity: Last Calib.: Time On Btm: Time Off Btm:	2014.05.03 2014.05.04	-		
TEST COMMENT: IF:Strong blow. I ISt:No blow. FF:Strong blow. FSt:No blow.	3.O.B. in 50 secs. B.O.B. in 5 secs.						
Pressure vs. 7	Tome 3X2 Perpenden			JRE SUMM	622363377		
		Time (Min.) 0 2		221	o-static		
		16 61	39.89 104.5 654.15 106.3	57 Shut-In(1) 57 End Shut-I	n(1)		
		62 92		8 Open To F 7 Shut-In(2)			
70				3 End Shut-I			
300		, 140	1836.98 109.4	1 Final Hydro	o-static		
Recovery			0	as Rates			











Limestone; cream-tan, fine xln, chalky in part, dense, few scattered ixl porosity, no shows

HEEBNER 3241 (-1398)

Black Carboniferous Shale

grey-green Shale

TORONTO 3255 (-1412)

Limestone; cream-lt. grey, fine xln, chalky, few scattered pin point-ixl type porosity, no shows

DOUGLAS 3274 (-1431)

Shale; brick red-grey-green, silty in part, few micaceous pieces

Shale; grey-greyish green, silty, few micaceous pieces, plus trace Siltstone; greyish green, fine grained, poor porosity, no shows

Siltstone and Shale as above

Siltstone; grey-greyish green, very fine-fine grained, poorly developed porosity, slighlty micaceous, no shows

Siltstone and grey silty, micaceous; Shale as above

Shale; grey-dark grey, micaceous in part

as above

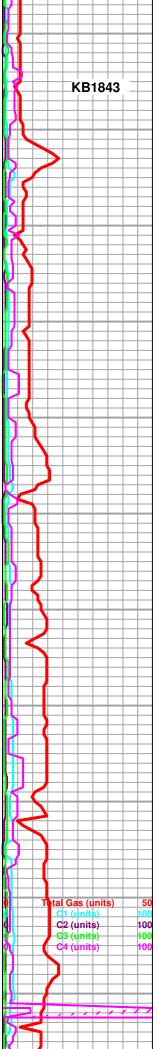
BROWN LIME 3392 (-1549)

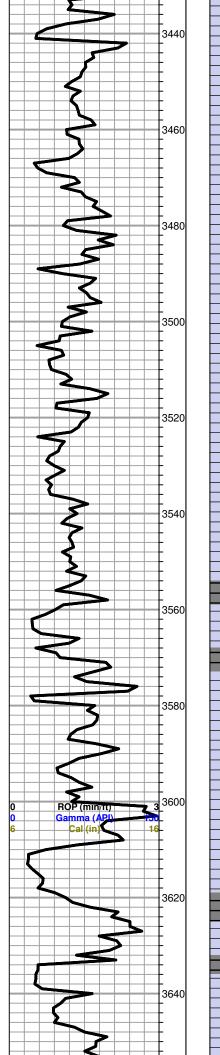
Limestone;buff-cream-tan, fine xln, dense, cherty, few fossiliferous pieces

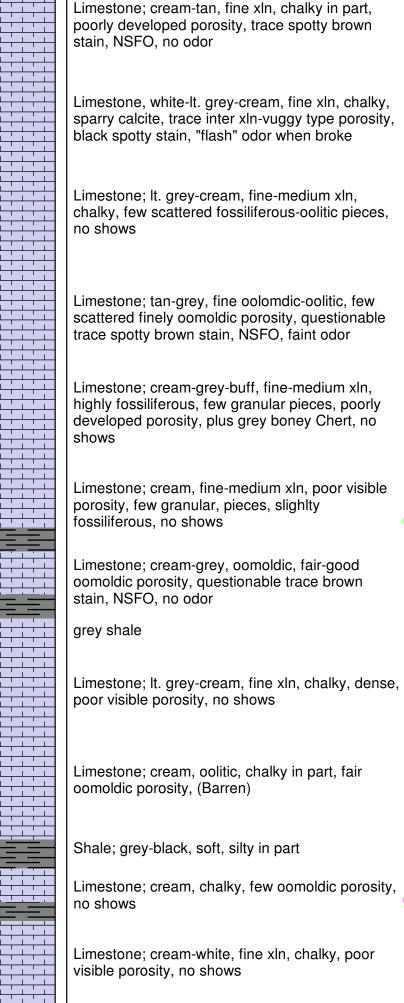
Shale; grey-green

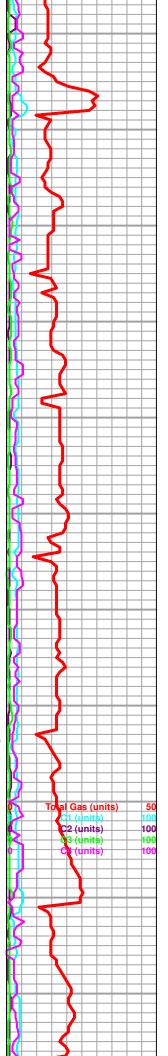
LANSING 3420 (-1577)

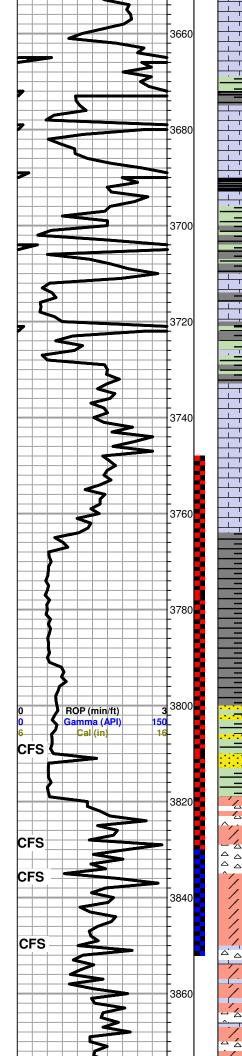
Limestone; cream, fine xln, dense, chalky in part, no shows











Limestone; as above

Shale; dark grey-greyish green

Limestone; white; chalky, poorly developed porosity, black-dark brown stain, questionable trace spotty free oil, very faint/flash odor

Shale; grey-greyish green-black carboniferous

Limestone; tan, highly oolitic, poorly developed porosity, no shows

Shale; grey-maroon-green-purple

Limestone; cream, fine xln, chalky, plus Chert; grey-cream-orange, boney

Limestone; cream, chalky, few glauconitic pieces, shaley in part

KINDERHOOK 3765 (-1922)

Shale; rusty brown-greyish green

Shale as above, variety of colors

Shale; lime green, soft, slighlty silty

MISENER SAND 3794 (-1951)

Trace Sand; grey; very fine grained, silty, poor porosity, no shows

VIOLA 3820 (-1977)

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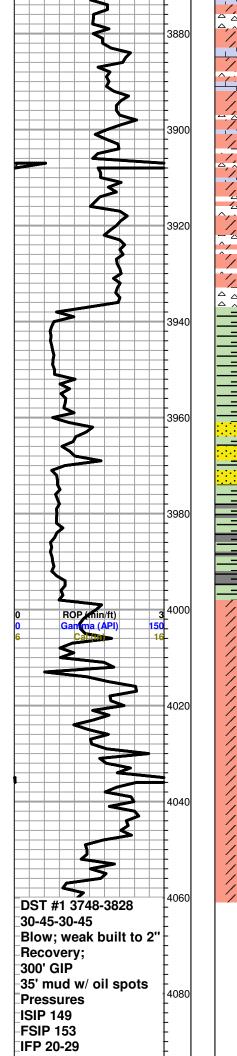
a

Dolomite; white, medium xln, fair inter xln porosity, brown stain, trace gas bubbles, spotty SFO, faint odor, plus white Chert Dolomite and Chert; white-lt. grey, no shows

Dolomite; It. grey, medium xln, fair inter xln porosity, brown stain, slighlt SFO 30%, faint-fair odor

Limestone; white-lt. grey, fine-medium xln, dolomitic, plus white boney Chert, scattered lt. grey-white dolomite, no shows





as above

1

Dolomite; buff-grey-cream, fine-medium xln, fair inter xln porosity,

Dolomite; brown-buff, fine xln, slightly sucrosic, plus white-brown boney Chert

Chert; buff-grey, boney

SIMPSON SHALE 3936 (-2093)

Shale; green, waxey, sandy in part, trace Sand; clear-grey, medium grained, shaley, no shows

Shale; grey-greyish green-blue green

SIMPSON SAND 3959 (-2116)

Sand; grey-clear, fine-medium grained, few coarse grained, biotite, FeS2, fair inter granular porosity, no shows

Shale; blue-green-grey

Shale; as above

ARBUCKLE 3999 (-2156)

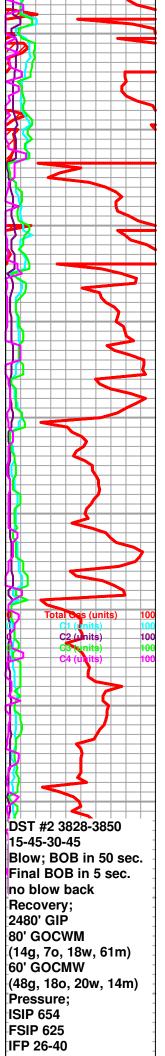
Dolomite; cream-buff, fine-medium xln, few scattered inter xln-vuggy porosity, (barren)

Dolomite; cream-buff-lt. grey, medium xln, vuggy porosity, no shows

Dolomite; as above

Dolomite; tan-cream, scattered vuggy porosity, plus oolitic boney Chert

ROTARY TOTAL DEPTH 4060 (-2217)



FFP 21-30	-			FFP 38-60
HSH 1865-1827	F			HSH 1901-1937