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Mai Oil Operations Mighell-Weeks Trust Unit #1 NW-NW-SW-NE (1500' FNL & 2685' FWL) Section 18-15s-13w Russell County, Kansas

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5 1/2" Production Casing Set

Contractor:	Southwind Drilling Co. (rig #3)
Commenced:	September 10, 2014
Completed:	September 16, 2014
Elevation:	1860' K.B., 1858' D.F., 1852' G.L.
Casing program:	Surface; 8 5/8" @ 514' Production, 5 ½ @ 3374'
Sample:	Samples saved and examined 2300' to the Rotary Total Depth.
Drilling time:	One (1) foot drilling time recorded and kept 2300 ft. to the Rotary Total Depth.
Measurements:	All depths measured from the Kelly Bushing.
Drill Stem Tests:	There were six (6) Drill Stem Tests ran by Diamond Testing Co.
Electric Log:	By Nabors Completion and Production Services Co., Dual Induction, Compensated Density/Neutron Log and Micro Log

Formation	Log Depth	Sub-Sea Datum
Anhydrite	861	+999
Base Anhydrite	883	+977
Grand Haven	2405	-545
1 st Tarkio Sand	2414	-554
Dover	2427	-567
2 nd Tarkio Sand	2431	-571
Tarkio Lime	2474	-614
3 rd Tarkio Sand	2501	-641
Elmont	2537	-677
Howard	2672	-812
Topeka	2739	-879
Heebner	2802	-942
Toronto	2999	-1139
Lansing	3049	-1189
Base Kansas City	3281	-1421
Arbuckle	3300	-1440
Rotary Total Depth	3375	-1515
Log Total Depth	3371	-1511

All tops and zones corrected to Electric Log Measurement.

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SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

1st TARKIO SAND

2414-2421' Sand; gray, fine grained; sub-rounded, well sorted, brown stain, show of free oil and faint odor in fresh samples.

2ND TARKIO SAND

2431-2448' Sand; gray, fine and medium grained, sub-rounded, friable, micaeous, brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #1 2408-2477

Blow: Good

Recovery: 30' oil cut mud (15% oil; 85% mud) 90' oil and gassy cut mud (50% gas; 30% oil; 20% mud)

Pressures:	ISIP	523	psi
	FSIP	559	psi
	IFP	33-44	psi
	FFP	53-65	psi
	HSH	1123-1095	psi

WILLARD SAND

(3RD TARKIO)

2501-2516' Sand, gray, fine and medium grained; fair inter-granular porosity, shaley; friable; spotty stain, trace of free oil and no odor in fresh samples.

TOPEKA SECTION

2739-2902' No shows of oil and/gas was noted in the drilling of the Topeka Section (see attached sample log and geologist report).

TORONTO SECTION

2999-3012' Limestone, tan, buff, chalky, few fossiliferous, poor visible porosity, light brown stain, trace of free oil and no odor in fresh samples

LANSING SECTION

- 3049-3056' Limestone, white, tan, finely crystalline, chalky, poor porosity, no shows.
- 3068-3074' Limestone, cream, finely crystalline, chalky, poor visible porosity, no shows.

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3081-3092'	Limestone, tan, oomoldic, good oomoldic and vuggy type porosity, light brown stain, show of free oil and fair odor in fresh samples.			
	Drill Stem	Test #2	3054-3100	
	Times:	30-30-45-45		

Blow: Weak

10' oil cut mud **Recovery:** (5% oil, 95% mud)

Pressures:	ISIP	113	psi
	FSIP	82	psi
	IFP	32-29	psi
	FFP	34-28	psi
	HSH	1508-1481	psi

3103-3112' Limestone, cream, white, finely crystalline, chalky, poor visible porosity, light brown stain, no free oil and no odor in fresh samples.

3123-3129' Limestone, cream, tan, brown, finely crystalline, fossiliferous, poor visible porosity, no free oil and no odor in fresh samples.

3141-3159' Limestone, tan, oomoldic, good oomoldic and vuggy type porosity, brown stain, show of free oil and strong odor in fresh samples.

3062-3147 Drill Stem Test #3

- Times: 30-30-45-45
- Blow: Weak
- 45' very slightly oil cut mud **Recovery:** (2% oil, 95% mud)

Pressures:			psi
	FSIP	275	psi
	IFP	33-38	psi
	FFP	41-48	psi
	HSH	1543-1484	psi

3181-3186' Limestone, tan, oomoldic, chalky, scattered oomoldic porosity, no shows.

3195-3205' Limestone, cream, tan, fine and medium crystalline, poor inter-crystalline and vuggy type porosity, light brown and golden brown stain, show of free oil and faint odor.

- 3214-3224' Limestone, tan, gray, finely crystalline, poor visible porosity, (dense0, no shows.
- 3228-3236' Limestone, tan, gray, sub-oomoldic, chalky, dense, no shows.

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3260-3265'

Limestone, tan, finely crystalline, few fossiliferous, dense.

Drill Stem T	<u>est #4</u>			3186-3260
Times:	30-30	-30-30		
Blow:	Weak			
Recovery:	10' m	ud		
Pressures:		53 43 23-23 24-24 1572-1565	psi psi psi psi psi	

3270-3282' Limestone, cream, tan, finely crystalline, oolitic, poorly developed porosity, light brown stain, show of free oil and fain odor in fresh samples.

ARBUCKLE SECTION

3300-3308' Dolomite, tan, white, finely crystalline, sucrosic, poor to fair intercrystalline type porosity, brown stain, show of free oil and faint odor in fresh samples.

Drill Stem T	est #5			3266-3308
Times:	30-45-45	5-60		
Blow:	Weak			
Recovery:		nd gas cut m ; 15%oil; 80%		
Pressures:	isip Fsip IFP FFP Hsh	1059 1040 26-31 33-41 1607-1598	psi psi psi psi psi	

3308-3315' Dolomite, white, medium crystalline, fair inter-crystalline porosity, fair stain and saturation, show of free oil and good odor in fresh samples.

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Drill Stem T	est #6			3266-3315	
Times:	30-30	-30-30			
Blow:	Strong				
Recovery:	(10% (315' o (80% (315' o (20% (630' o (65% (441' o (40 ga 156' H	gas; 10% oil il and gas cu gas; 15% oil gas; 15% oil gas; 15% oil il and gas cu gas; 20% oil il and gas cu s; 20% oil; 2 leavy oil and	ut water	nud) lud) vater	
Pressures:		1101 1102	psi psi		
	IFP	123-559	psi		
		568-825	psi		
	HSH	1606-1592	psi		

- 3315-3330' Dolomite, tan, finely crystalline, poor to fair inter-crystalline porosity, light brown stain, show of free oil and faint odor in fresh samples.
- 3330-3340' Dolomite as above.
- 3350-3360' Dolomite, white, gray, finely crystalline, poor to fair porosity, no shows.
- 3360-3365' Dolomite as above.
- 3365-3371' Dolomite, white, gray, finely crystalline, poor inter-crystalline porosity, no shows.
- Rotary Total Depth3375Log Total Depth3371

Recommendations:

5 ½" production casing set and cemented on the Mai Oil Operations Inc., Mighell-Weeks Trust Unit #1.

Respectfully yours,

Myatt Meban

Wyatt Urban Petroleum Geologist