

JAMES C. MUSGROVE

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Mai Oil Operations
Stoskopf #1
N/2-SW-NW-NW (810' FNL & 330' FEL)
Section 9-17s-13w
Barton County, Kansas

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5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)
Commenced: June 25, 2014
Completed: June 27, 2014
Elevation: 1921' K.B., 1919' D.F., 1913' G.L.
Casing program: Surface; 8 5/8" @ 324'
Production, 5 1/2" @ 3437'
Sample: Samples saved and examined 2900' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2900 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were one (1) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Nabors; Dual Induction, Compensated Density/Neutron Log and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	853	+1068
Base Anhydrite	882	+1039
Heebner	3056	-1135
Toronto	3075	-1154
Douglas	3088	-1167
Brown Line	3137	-1216
Lansing	3150	-1229
Base Kansas City	3360	-1439
Arbuckle	3379	-1458
Rotary Total Depth	3440	-1519
Log Total Depth	3445	-1524

All tops and zones corrected to Electric Log Measurement.

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

TOPEKA SECTION

3000-3023' Limestone, cream to tan, finely crystalline, poorly developed porosity, no shows.

TORONTO SECTION

3066-3076' Limestone, cream to tan, finely crystalline, chalky; poor visible porosity, no shows.

LANSING SECTION

3150-3160' Limestone, cream to tan, finely crystalline, fossiliferous, poor scattered porosity, no shows.

3176-3186' Limestone, cream to tan, finely crystalline, chalky few oolitic, poor scattered porosity, trace black stain, show of free oil and faint odor.

3196-3206' Limestone, cream to tan, finely crystalline, fossiliferous, poor scattered porosity, no shows.

3210-3214' Limestone, cream, white, finely crystalline, chalky, few fossiliferous, poor scattered porosity, no shows.

3220-3236' Limestone, cream to white, gray, finely crystalline, few oolitic, poorly developed porosity, no shows.

3280-3290' Limestone, white/cream, finely crystalline, fossiliferous, poor visible porosity, no shows.

3298-3308' Limestone, as above.

3317-3330' Limestone, tan, cream finely crystalline, few fossiliferous, poor visible porosity, no shows.

3340-3354' Limestone, cream, tan, finely crystalline, fossiliferous, poor porosity; trace black stain; trace of free oil and no odor in fresh sample.

3367-3374' Limestone, tan, brown, finely crystalline, chalky/few cherty; poor visible porosity, trace of brown stain, show of free oil and faint odor in fresh samples.

ARBUCKLE SECITON

3379-3385' Dolomite, white, fine and medium crystalline, fair vuggy type porosity, brown stain, show of free oil and strong odor in fresh samples.

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Drill Stem Test #1 **3353-3385**

Times: 30-30-45-45

Blow: Strong

Recovery: 50' gas in pipe
1197' clean oil
189' muddy oil
(30% mud; 70% oil)

Pressures:

ISIP	1006	psi
FSIP	1027	psi
IFP	78-300	psi
FFP	326-530	psi
HSH	1621-1538	psi

- 3385-3400' Dolomite, white, gray, finely crystalline poor to fair inter-crystalline porosity, light brown stain, show of free oil.
- 3400-3420' Dolomite, white to gray, finely crystalline, poor scattered porosity, brown stain, show of free oil and faint odor.
- 3420-3345' Dolomite, white, finely crystalline, poor scattered porosity, no shows.

Rotary Total Depth 3340
Log Total Depth 3345

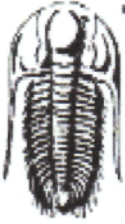
Recommendations:

5 1/2" production casing was set and cemented on the Mai Oil Operations, Stoskopf #1.

Respectfully submitted;



Wyatt Urban
Petroleum Geologist



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd Ste 800
 Dallas TX 75225-5520
 ATTN: Wyatt Urban

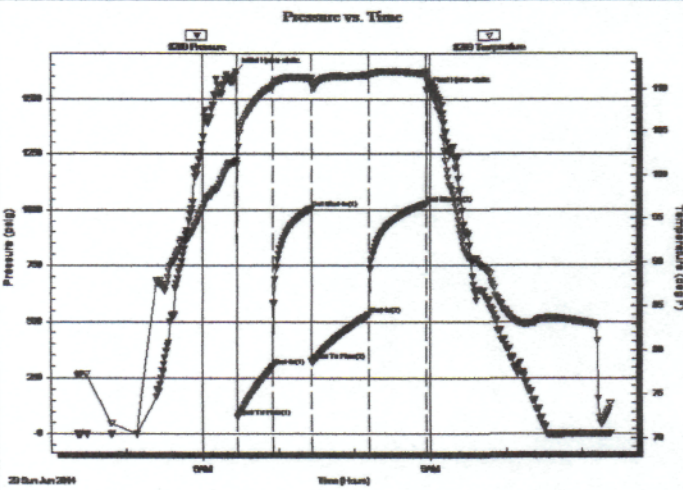
9-17s-13w Barton,KS
Stoskopf #1
 Job Ticket: 59263 **DST#: 1**
 Test Start: 2014.06.29 @ 04:21:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:27:15
 Time Test Ended: 11:26:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76
 Interval: **3353.00 ft (KB) To 3385.00 ft (KB) (TVD)**
 Total Depth: 3385.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8289 Outside
 Press@RunDepth: 530.10 psig @ 3357.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.29 End Date: 2014.06.29 Last Calib.: 2014.06.29
 Start Time: 04:21:02 End Time: 11:22:15 Time On Btrm: 2014.06.29 @ 06:26:45
 Time Off Btrm: 2014.06.29 @ 08:57:30

TEST COMMENT: 30-IFP- BOB in 2 min.
 30-ISIP- Surface Blow to 1" in 10 min. Died in 18 min.
 45-FFP- BOB in 2 min. 10 sec.
 45-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.34	101.61	Initial Hydro-static
1	77.73	101.28	Open To Flow (1)
30	300.27	110.23	Shut-In(1)
60	1006.42	111.08	End Shut-In(1)
60	325.72	110.70	Open To Flow (2)
105	530.10	111.52	Shut-In(2)
151	1027.05	111.65	End Shut-In(2)
151	1538.21	111.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MCO 30% m 70% o	2.65
1197.00	CO 100%	16.79
0.00	50 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 503

Date	6-25-14	Sec.	9	Twp.	17	Range	13	County	Barton	State	KS	On Location		Finish	1:00 AM				
Location								Susank 3 1/2 S E 10											
Lease	S:05kopf			Well No.	#1			Owner											
Contractor	Southwind #3			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.							
Type Job	Surface			Charge To								Main Oil							
Hole Size	12 1/4			T.D.	514'			Street											
Csg.	8 5/8			Depth	514'			City								State			
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.											
Tool				Depth				Cement Amount Ordered								250 6 1/4 3 1/2 cc 2 1/2 gal			
Cement Left in Csg.	30'			Shoe Joint	30'			Meas Line								Displace 30 3/4 bbl			
EQUIPMENT																			
Pumptrk	20 No.			Cementer	David			Common											
				Helper				Poz. Mix											
Bulktrk	1 No.			Driver	Lannie M Taylor			Gel.											
				Driver				Calcium											
Bulktrk	Pu No.			Driver	Brett														
				Driver															
JOB SERVICES & REMARKS																			
Remarks:				Hulls															
Rat Hole				Salt															
Mouse Hole				Flowseal															
Centralizers				Kol-Seal															
Baskets				Mud CLR 48															
D/V or Port Collar				CFL-117 or CD110 CAF 38															
				Sand															
				Handling															
				Mileage															
				8 5/8 FLOAT EQUIPMENT															
				Guide Shoe															
				Centralizer															
				Baskets															
				AFU Inserts															
				Float Shoe															
				Latch Down															
				Rubber Plug!															
				Pumptrk Charge															
				Mileage															
				Tax															
				Discount															
				Total Charge															
X Signature	Jay Miller																		

QUALITY OILWELL CEMENTING, INC.

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Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 150

Date	6-30-14	Sec.	9	Twp.	17	Range	13	County	BARTON	State	KANSAS	On Location	Finish
Location													6:00 AM
SUSANK KS. 3 1/2 S. 1/4 E INTO													

Lease	STOSKOPF	Well No.	#1	Owner	To Quality Oilwell Cementing, Inc.
Contractor	SOUTH WIND DRILLING, Rig #3 "Jay"	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	PRODUCTION STRAING				
Hole Size	7 7/8	T.D.	3440'	Charge To	MAE OIL OPERATIONS INC.
Csg.	5 1/2 NEW 14#	Depth	3437'	Street	
Tbg. Size	8 5/8 SURFACE	Depth	514'	City	State
Tool	LATCH DOWN PLUG @ 3416'	Depth	3416'	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	21.02	Shoe Joint	21.02	Cement Amount Ordered	160 SX 40 10% SALT
Meas Line		Displace	83.35	2.9 Gal 1/4" FLO. SEAL	PA SX.

EQUIPMENT

Pumptrk	18	No.	Cementer	Glenn G.	Common
			Helper		
Bulktrk	14	No.	Driver	CODY B.	Poz. Mix
			Driver	CLAYTON B.	Gel.
Bulktrk		No.	Driver	TYLER O.	Calcium
			Driver		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48 1,000 Gal
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage

FLOAT EQUIPMENT

RAN BA NEW JOINTS OF 14# STCSG SET @ 3437', RECOVERED CIRCULATION DROP "AFU" BALL, CIRCULATE HR. PUMP MUD FLUSH & CEMENT W/ 130 SX TO 10% SALT 28gal 1/4" FLO. SEAL CLEAR-LINE, RELEASE LATCH DOWN PLUG @ Displace 83 1/2 BBL H ₂ O, AND Plug @ 1500 FT.	Guide Shoe Centralizer TURBO X 8 Baskets AFU Inserts Float Shoe X 1 Latch Down X 1
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Release Pressure & "AFU-Plug" Held!	Pumptrk Charge Mileage
THANKS [Signature]	
X Signature	Tax Discount Total Charge