

# Jeff Christian

Wichita, Kansas  
PETROLEUM GEOLOGIST

GEOLOGISTS' REPORT	
DRILLING TIME AND SAMPLE LOG	
OPERATOR	MURFIN DRILLING COMPANY
LEASE	MEYER # 1-8
LOCATION	2310' FSL & 1200' FWL
SEC.	8
TWSP	10 S
RNG	14 W
COUNTY	OSBORNE
STATE	KANSAS
FIELD	KINGS
API	15-141-20466
CONTRACTOR	COMPANY TOOLS
DRILLING STARTED	07/29/2014
COMPLETED	08/03/2014
MUD DISPLACED	2558'
DRILLING TIME KEPT FROM	2720'
SAMPLES SAVED FROM	2720'
GEOLOGICAL SUPERVISION FROM	2780'
ELEVATIONS	KB 1920' GL 1915'
MEASUREMENTS FROM KB	
CASING RECORD	
Surface	8 5/8" @ 220'
Production	15 1/2" 5X
Conductor	NONE
ELECTRICAL SURVEYS:	
DTI	None
RTD	None
DL	None
ML	None
BHCS	None

DATE	7:00 AM DEPTH	REMARKS
7/29/14	305'	SPUD 3:45 pm SPUD dev. 3/4 deg. @ 220'
7/31/14	2000'	DRLG
8/1/14	2880'	CFS
8/2/14	2880'	TIH after DST # 2
8/3/14	3145'	DRLG
8/4/14	3300'	DRLG
8/5/14	3719'	TOI for Log. RTD 3719' @ 3:15 am. Dev. 1 deg. Hit Bridge @ 3190' Recondition hole. Finish Logging @

**Remarks**  
The Meyer # 1-8 was declared dry and abandoned. All sample shows of oil were drill stem tested and condemned.  
Ground level elevation raised 1' while making location, per tool pusher.  
Electric log measurements correlate about 3' to 4' high compared to rotary measurements.  
Samples deposited at the Kansas Geological Survey.  
Respectfully Submitted,  
*Jeff Christian*  
Jeff Christian

LITH.	DRILL TIME (MIN/FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
ANHYDRITE	1138'	1150'		ANHYDRITE 1141' (+779) E Log 1138' (+782)
TOPKA	2832'	2835'		Base ANHYDRITE 1170' (+750) E Log 1167' (+753)
HEEBNER	3079'	2700'		
LANSING	3120'	2750'		
BKC	3398'	2800'		TOEPAK 2832' (-915) E Log 2832' (-915)
CHEROKEE	3508'	2850'		Morgan Mud Check: 2880'; 8/1/14 Wt. 8.6, Vis. 79, WL 5.2, Chl. 1,600, LCM. 2
VIOLA	3539'	2900'		DST # 1 2880' to 2880' 30°-60°-30°-60° IF: tool slid 6' to bottom. Mud dropped 5'-6' Bled off surge blow. Then surface blow. Died/14" FF: tool slid 1'. Then: blow built to 1/4" RECOVERY: 100' Mud w/ oil spots IFP: 55-65# ISIP: 1450# FPP: 80-79# FSIP: 1069# IHP: 1831# FHP: 1388# BHT: 97 deg. F NOTE: plugging during both flow periods IHP & ISIP inaccurate
SIMPSON	3636'	2950'		DST # 2 2880' to 2880' 30°-60°-30°-90° IF: blow Built to 1.5" FF: blow Built to 1.25" RECOVERY: 60' SOCM (10%0.90%) IFP: 29-41# ISIP: 1023# FPP: 29-41# FSIP: 998# IHP: 1430# FHP: 1343# BHT: 98 deg. F Morgan Mud Check: 2914'; 8/2/14 Wt. 8.7, Vis. 84, WL 5.2, Chl. 2,800, LCM. 2
ABBUCKLE	3716'	3000'		
TOTAL DEPTH	3716'	3054'		
		3119'		
		31750'		

