

# CHARLES SCHMALTZ

CONSULTING GEOLOGIST  
WICHITA, KANSAS

## GEOLOGIC REPORT LOG

COMPANY: **MURFIN DRILLING Co.**

WELL: **DSA 'DWWO' #1-3**

FIELD: **MIKE'S METEOR**

LOCATION: **1550' FSL 990' FWL**

SEC: **3** TWP: **23S** REF: **12W**

COUNTY: **STAFFORD**

STATE: **KANSAS**

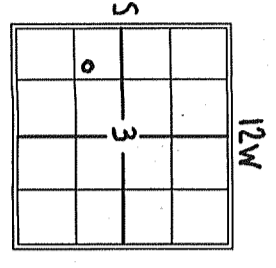
API #: **15-185-21133-00-01**

MUD COMPANY: **MUDCO/SERVICE MUD, INC.**

CONTRACTOR: **MURFIN DRILLING CO. RIG # 21**

COMMENCED: **22 AUG 2014** COMPLETED: **25 AUG 2014**

CASING RECORD:  
SURFACE: **8 1/8" @ 2911'** PRODUCTION: **5 1/2" @ 3897'**  
TOTAL DEPTH DRIS: **3900'**  
TOTAL DEPTH LOG: **NA**



PRODUCTION:  
ELEVATION: **1846**  
NO. OF: **1835**  
DRILLING MEASURED FROM: **KR**

SAMPLES SAVED FROM: **10' - 3180'** TO **RTD**  
DRILLING TIME KEPT FROM: **1' - 3180'** TO **RTD**  
SAMPLES EXAMINED FROM: **3180'** TO **RTD**  
GEOLOGICAL SUPERVISION FROM: **SPUD** TO TOTAL DEPTH  
DRILL STEEL TESTS: **NONE**  
ELECTRICAL SURVEYS: **PIONEER ENERGY SER.**  
**3 ATTEMPTS TO RUN LOG.**  
**STOP @ 3135', 3740', 3723'**

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
ANHYDRITE - TOP				
ANHYDRITE - BASE				
TDPEKA				
OREAD				
HEEBNER				
TDRONTO				
DOUGLAS				
LANSING				
STARK				
BKC				
VIOLA				
SIMPSON				
ARBuckle				
TOTAL DEPTH	3900			

### DRILL STEM TESTS

No.	Interval	FP/Time	SP/Time	FP/Time	SP/Time	HT-FH	RECOVERY

BIT RECORD				MUD RECORD				PIPE STRAPS & DEV. SURVEYS									
NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS	DATE	DEPTH	AGENCY	HT	VS	ML	HP	PH	OS	LCL	CHL
1	7 1/8	HTC	GX20C	3900	120	3 1/2											

DATE	DEPTH	MUD TYPE	SPOT MUD	PIPE SIZE	BRSS
8-22	MIRT				
8-23	2018'	2	8-23 2690	REAM	9.1 31 NC 15 9.5 13/14 1# 82000
8-24	3900'	3	8-24 3900	CTCH	9.6 48 44.8 28 8.0 37/48 1/2# 45000
8-25	3900'		SPOTTED 80 BBS PRE-MIX ON BOTTOM PRIOR TO LOGGING		

### LEGEND

