

Thomas J. Funk
Petroleum Geologist

Geologists Report
Drilling Time and Sample Log

OPERATOR	Murfin Drilling Co., Inc	ELEVATION	3022'	KB	
LEASE	Munk Unit	WELL NO	#1-29		
FIELD	Wildcat	API	15-109-21197		
LOCATION	1400' FSL & 100' FEL	DF	GL 3011'		
SEC.	29	TWP.	12S	RGE.	32W
COUNTY	Logan	STATE	Kansas		
CONTRACTOR	Murfin Drilling Co. Rig #22	CASING RECORD	Measurements Are All From KB		
COMM 7/11/13	COMP 7/18/13	SURFACE	8 5/8" at 225'KB w/170x		
RTD 4/25'	LOG TD 4/25'	PRODUCTION	None		
SAMPLES SAVED FROM 3650'	TO 4/25'				
DRILLING TIME KEPT FROM 3650'	TO 4/25'				
SAMPLES EXAMINED FROM 3650'	TO 4/25'				
GEOLOGICAL SUPERVISION FROM 3810'	TO 4/25'				
MUD UP 3200'	TYPE MUD Chemical				
FORMATION	LOG	SAMPLE	STRUCT		
Anyndite	TOP DATUM	TOP DATUM	COMP		
B/Anyndite	2529 (+493)	2531 (+481)	FBI		
Topoka	2532 (+470)	2531 (+471)	+10		
Heabene Sh	3/73 (-751)	3/74 (-752)	-1		
Lansing	3978 (-956)	3979 (-957)	-9		
Murde Creek	4022 (-1000)	4017 (-995)	-21		
Stark Sh	4166 (-1144)	4169 (-1147)	-5		
Marmaton	4248 (-1226)	4250 (-1228)	-6		
Pawnee	4348 (-1326)	4349 (-1327)	-4		
Cherokee Sh	4446 (-1424)	4444 (-1422)	-4		
Cherokee Sh	4528 (-1506)	4529 (-1507)	-4		
Johnson Zone	4571 (-1549)	4571 (-1549)	-1		
Mississippi	4631 (-1609)	4627 (-1605)	-12		

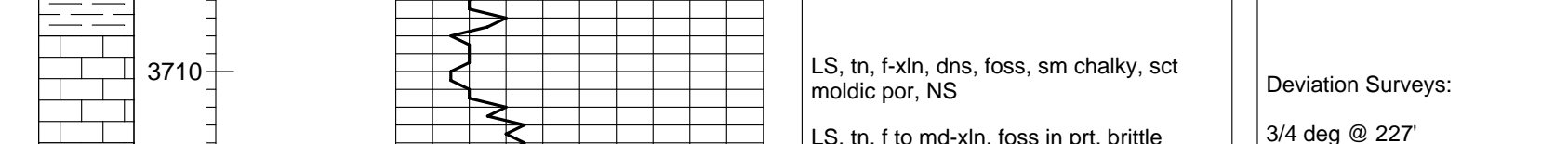
Daily Progress	NO. Size	Make	Type	Depth Out	Feet	Hours
7/11/13	Spud	1 1/2	HTC	GT-C1	227	227
7/12/13	2535'	2	7/78' HTC	DP506F	3650	3423
7/13/13	2535'	3	7/78' HTC	GXR20c	4725	1075
7/14/13	4150'					63
7/15/13	4465'					
7/16/13	4490'					
7/17/13	4590'					
7/18/13	4725' TD					

REMARKS WELL FOR STRUCTURAL COMPARISON: Murfin Drilling Co. #1-28 Schaez Unit

Remarks And Recommendations:
Based upon log analysis, DST recovery, and sample examination, it was decided to plug and abandon the #1-29 Munk Unit.

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Petroleum Geologist

LEGEND



Lithology

DRILLING TIME IN MINUTES PER FOOT

Sample Descriptions

Remarks

Depth 3650

3660

3670

3680

3690

3700

3710

3720

3730

3740

3750

3760

3770

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3800

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3970

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3990

4000

4010

4020

4030

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4060

4070

4080

4090

4100

4110

4120

4130

4140

4150

4160

4170

4180

4190

4200

4210

4220

4230

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4256

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