

Jeff Christian

PETROLEUM GEOLOGIST

Wichita, Kansas

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR: **COLBALT ENERGY LLC**
 LEASE: **FISHER A # 1-35**
 LOCATION: **660 FSL & 660' FEL**

SEC: **35** TWP: **5 S** RING: **37 W**

COUNTY: **CHEYENNE** STATE: **KANSAS**

FIELD: **WILD CAT**

API: **15-023-21396**

CONTRACTOR: **MURFIN DRILLING CO.** RIG NO: **8**
 DRILLING STARTED: **05/15/2014** COMPLETED: **05/25/2014**
 MUD DISC AGED: **3362'** MUD TYPE: **CHEMICAL**
 DRILLING TIME: **4000'** TO **RTD**
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 SAMPLES EXAMINED FROM: **4000'** TO **RTD**
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 GEOLOGICAL SUPERVISION FROM: **4000'** TO **RTD**

MEASUREMENTS FROM I.B.
 CASING RECORD
 CONDUCTOR NONE
 Surface: **8.5' @ 388'**
 W/ 2.95 SX @ **4888'**
 Production: **1 1/2" @ 4888'**

ELEVATIONS
 KB: **3432'**
 GL: **3427'**

FORMATION LOG SAMPLE DATION

FORMATION NAME	LOG	DATE	TOP	SAMPLE	DATION
ANHYDRITE	3104'	(-328)	3103'	(-329)	
TOPEKA	4075'	(-643)	4072'	(-644)	
HEEBNER	4236'	(-804)	4238'	(-805)	
LANSING	4296'	(-864)	4299'	(-865)	
STARBUCK	4494'	(-1062)	4492'	(-1060)	
PAWNEE	4673'	(-1241)	4674'	(-1242)	
CHEROKEE	4728'	(-1296)	4728'	(-1296)	
MISSISSIPPIAN	4970'	(-1538)	4976'	(-1544)	
RTD	5032'	(-1600)	5030'	(-1598)	

DATE	7:00 AM DEPTH	REMARKS
5/15/14	MIRT	SPUD 4:30 pm
5/16/14	388'	WOC dev. 1 deg.
5/17/14	416'	Ran Cement Bond Log. Spotted 50 sx Cement @ Base of Surface Pipe
5/18/14	1120'	DRLG
5/19/14	2983'	DRLG
5/20/14	4078'	DRLG dev. 1 deg. @ 4000'
5/21/14	4288'	TIH after DST # 1
5/22/14	4438'	DRLG
5/23/14	4590'	DRLG
5/24/14	4749'	DRLG
5/25/14	4860'	DRLG. RTD 5030' @ 1:30 pm dev. 2 1/4 deg. Finish Logging @ 10:00 pm

Remarks

5 1/2" production casing set to further test the Cherokee formation.

Electric log measurements correlate about even to 1' low compared to rotary measurements.

Samples deposited at the Kansas Geological Survey.

Respectfully Submitted,

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