

GEOLOGICAL REPORT

Larry A. Nicholson



COMPANY & WELL Cobalt Energy, LLC TM Unit "A"-1-20
LOCATION 2490' FSL & 2059' FWL NW NE SW
SEC 20 TWP 7S RGE 23W
COUNTY Graham STATE Ks

API # 15-065-23980
LEASE TM Unit "A"
LOCATION NW NE SW
SURVEY 2490' FSL & 2059' FWL
SECTION 20 TWP 7S RGE 23W
CITY GRAHAM STATE KANSAS

CONTRACTOR Murfin Rig # 24
SPUD 10-25-13 3:45 pm COMP
RTD 3936' LTD 3938'
MUD UP AT 3080' MUD TYPE Chemical, MudCo

ELEVATIONS
K.B. 2364
D.F. 2359
All measurements from K.B. 2364

CASING RECORD
Conductor of 8-5/8" w/l 261 ft
Production of 8-5/8" w/l 175 ft

WELL SITE GEOLOGIST LARRY A. NICHOLSON

ELECTRICAL SURVEYS Pioneer, Den, Neu, Dual, Micro, Sonic

FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG	SUBSEA DATUM	REFERENCE WELL
STONE CORAL	2074	+290	2074	+290	A
TOPEKA	3422	-1058	3422	-1058	"
HEEGER	3625	-1261	3625	-1261	
LANSING	3667	-1303	3667	-1303	
C	3697	-1333	3697	-1333	
D	3714	-1350	3714	-1350	
E	3729	-1365	3729	-1365	
G	3752	-1388	3752	-1388	
Muncie Ck	3778	-1414	3778	-1414	
BKC	3867	-1503	3867	-1503	
RTD	3936	-1572	3936	-1572	
LTD	3938	-1576	3938	-1574	

FORMATION RECORD
Conductor of 8-5/8" w/l 261 ft
Surface 8-5/8" w/l 175 ft

Production of 8-5/8" w/l 175 ft

All measurements from K.B. 2364

REFERENCE WELLS:

A: _____
B: _____

REMARKS & RECOMMENDATIONS:

Based on dst results, lower structural position and absent of sample shows the well was P&A.

</