COBALT ENERGY
OIL & NATURAL GAS

GEOLOGIST'S REPORT
SAMPLE LOG

COMPANY ... COBALT ENERGY, LLC
LEASE ... *Marilyn Unit #1-6*
LOCATION ... *224' FNL & 1051' FWL*
SEC. *6* TWSP. *9S* RGE. *21W*
COUNTY *Graham* STATE *KS*
SPUD *06/23/21* COMP. *07/01/21*
RTD *3825'* LTD *3828'*
MUD UP *3000'* TYPE MUD *Chemical*

CASING
Surface *8 5/8" @ 220'*
Production *Converts to SWD*

Electrical Surveys
Dual Induction, Neutron-Density

ALLIED WELL SERVICES

ELEVATIONS
KB *2178'*
DF
GL *2173'*
Measurements Are All From KB

TOPS

Anhydrite	*1678 (+500)*
Base of Anhydrite	*1711 (+467)*
Heebner	*3356 (-1178)*
Lansing	*3400 (-1222)*
Stark	*3573 (-1395)*
BKC	*3601 (-1423)*
Marmaton	*3636 (-1458)*
Arbuckle	*3747 (-1569)*
RTD	*3825 (-1647)*
LTD	*3828 (-1650)*

SAMPLES
Lansing/KC *3400' to RTD*
Arbuckle *3700' to RTD*

SAMPLES EXAMINED FROM *3200'* TO *RTD*
SAMPLES SAWED FROM *3200'* TO *RTD*
DRILLING TIME KEPT FROM *3200'* TO *RTD*

GEOLOGICAL SUPERVISION FROM *3400'* TO *RTD*
GEOLOGIST IN WELL *George A. Baker* **ELEVATION** *3825' to RTD*

Section 6

Eastern Wireline LLC.

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RTD *3825'* LTD *3828'*
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Dual Induction, Neutron-Density

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DRILLING TIME KEPT FROM *3200'* TO *RTD*

GEOLOGICAL SUPERVISION FROM *3400'* TO *RTD*
GEOLOGIST IN WELL *George A. Baker* **ELEVATION** *3825' to RTD*

Section 6

Eastern Wireline LLC.

REMARKS. The Marilyn Unit #1-6 did not run as expected at the Arbuckle. Shows were encountered in the Lansing 'C' and the Arbuckle, but were tested with negative results. The Marilyn Unit #1-6 will be converted to a saltwater disposal well for our Elizabeth lease in section 36-8S-22W.

Respectfully Submitted,

Corey Baker
Vice President - Exploration
Cobalt Energy, LLC

API #15-065-24196-00-00

LEGEND

Anhydrite | Sandstone | Limestone | Shale | Carb Sh | Cherty LS | Chert | Dolomite

LITHOLOGY | DEPTH | DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Increases ←) 5' 10' | OIL SHOWS | SAMPLE DESCRIPTION | REMARKS

C = connection

1650
1700
1750

Anhydrite
1678 (+500)

Base of Anhydrite
1711 (+467)

Skip drilling time from 1750-3200', start sample descriptions @ 3200'

3200
3250
3300
3350

Heebner
3356 (-1178)

Lansing
3400 (-1222)

3400
3450
3500
3550
3600
3650
3700
3750
3800
3850

Stark
3573 (-1395)

BKC
3601 (-1423)

Marmaton
3636 (-1458)

Arbuckle
3747 (-1569)

RTD *3825 (-1647)* *LTD* *3828 (-1650)*

6/26/21 - MIRT, RURT
Prep to Spud

6/25/21 - Spud @ 9:00a.m., set 8-5/8" @ 220'

6/26/21 - 7:00 AM
Drlg @ 1002'

6/27/21 - 7:00 AM
Drlg @ 2169'

6/28/21 - 7:00 AM
Drlg @ 3002'

6/29/21 - 7:00 AM
TM for DST #1 @ 3450'

6/30/21 - 7:00 AM
STRP CFS

7/01/21 - 7:00 AM
RTD 3825' TOOH for Logs

7/02/21 - 7:00 AM
Cement casing for SWD

Call Point 3000'
7:00 AM 6/28/21

Geologist on location 3253'
1:15 PM 6/28/21

Mud Co Check
Vis: 60+
Wt: 9.1-9.3
LCM: 2#

Pipe Strap
Board: 3458.94'
Strap: 3456.40'
Short 9.43'

Rig Check
Vis: 58
Weight: 9.0
LCM: 2#

Chart for DST #1 (Lansing 'C')

Rig Check
Vis: 56
Weight: 9.0
LCM: 2#

Rig Check
Vis: 52
Weight: 9.1
LCM: 2#

Rig Check
Vis: 54
Weight: 9.1
LCM: 2#

Rig Check
Vis: 56
Weight: 9.1
LCM: 2#

DST #2 (3716-60') Arbuckle
Open 30" Shut-in 45" Open 30" Shut-in 60"
1st Open: Surface blow, built to 1.5"
2nd: No rate-to-blow.
Rec: 5' Mud (2% oil)
FFP: No return blow.

Rec: 30' Watery Mud (5% wtr, 95% mud)

IFP: 48-43#
FFP: 51-46#
ISIP: 967-782#

CFS @ 3750'

Chart for DST #2 (Arbuckle)

LITHOLOGY | DEPTH | DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Increases ←) 5' 10' | OIL SHOWS | SAMPLE DESCRIPTION | REMARKS

Company COBALT ENERGY, LLC Elevation 2178' KB
Lease Marilyn Unit #1-6
Location 224' FNL & 1051' FWL SEC 6 TWP 9S RGE 21W
County Graham State Kansas