COBALT ENERGY
OIL & NATURAL GAS

GEOLOGISTS REPORT
DRILL STEM & SAMPLE LOG

WELL NAME: Wesley 'A' #1-33 **FIELD:** Wildcat
LOCATION: 647' FNL & 647' FWL
SEC. 33 TWP. 11S RGE. 21W
COUNTY: Trego **STATE:** Kansas
API#: 15-195-22858-00-00
CONTRACTOR: Discovery Drilling Co., Inc. Rig #2
SPUD: 5/28/2014 **COMPLETED:** 6/4/2014
TOTAL DEPTH: 4100' (Driller) 4098' (Logger)
ELEVATION: 2472' GL 2477' KB
CASING: 8-5/8" @ 217' w/ 150 sks Common
DST #1: 3900'-3940' (Lansing 'A' & 'B' zones) 30-45-45-60. 1st open: Strong blow, BOB in 1 minute. 2nd open: Strong blow, BOB in 30 seconds. Recovered 180' GIP, 60' SOCM (30% oil, 70% mud). IFP: 30-50# ISIP: 1,139# FFP: 50-70# FSIP: 1,128#
DST #2: 4000'-4040' (Marmaton) 30-45-45-60. 1st open: Strong blow, BOB in 1 minute. 2nd open: Strong blow, BOB in 1 minute. Recovered 180' GIP, 60' SOCM (30% oil, 70% mud). IFP: 30-50# ISIP: 1,139# FFP: 50-70# FSIP: 1,128#
SAMPLES SAVED FROM: 3400' TO 4100'
DRILLING TIME KEPT FROM: 3400' TO 4100'
GEOLOGICAL SUPERVISION FROM: 3400' TO RTD
GEOLOGIST: Kevin T. Kessler
ELECTRONIC SURVEYS: Dual Induction, Dual Compensated Porosity, Microresistivity
DRILL STEM TESTS: 2 (Trilobite Testing)
SAMPLES: Samples Saved and Examined
CORES: None
DRILLING TIME: 1 Foot Drilling Time Recorded From 3400' to 4100'
MUD: Chemical
SURFACE: Steel
INTERMEDIATE: None
PRODUCTION: 4-1/2" @ 4098'
FORMATION TOPS: (Log Measurements)
Anhydrite 2006' (+471)
Base of Anhydrite 2048' (+429)
Heebner 3797' (-1320)
Lansing 3841' (-1364)
Stark 3993' (-1516)
BKC 4040' (-1563)
Marmaton 4056' (-1579)
Altamont 4100' (-1623)
Pawnee 4156' (-1679)
Myrick Station 4208' (-1731)
Fort Scott 4228' (-1751)
Cherokee 4252' (-1775)
Johnson 4300' (-1823)
Mississippian 4356' (-1879)
RTD 4100' (-1623)
LTD 4098' (-1621)

Electronic Surveys: Dual Induction, Dual Compensated Porosity, Microresistivity

Drilling Time Recorded From 3400' to 4100'

Samples Saved and Examined

Trilobite Testing, Inc.

Kevin T. Kessler

Geologist

Cobalt Energy, LLC

Respectfully Submitted,

Corey M. Baker
Petroleum Geologist
Cobalt Energy, LLC

REMARKS: The Wesley 'A' #1-33 was structurally high to the surrounding dry holes, but the shows were tested and drilled ahead. Logs were reviewed and it was decided to plug & abandon.

3rd Zone testing, by Phillip Gage & Rob Hower of Trilobite Testing

LEGEND

Limestone | Dolomite | Sandstone | Shale | Chert | Conglomerate | Coal | Gypsum | Anhydrite | Salt | Shale | Oolites | Fossils | Vertical Fractures | Horizontal Fractures | Stylolites | Pyrite | Glauconite | Siltstone

DRILLING TIME
1 Inch = 60 Minutes
1 Inch = 10 Minutes
1 Inch = 1 Minute

SAMPLE DESCRIPTION

DRILL SHOWS

REMARKS

All tops corrected to Log

C = Connection

Anhydrite
2006 (+471)

Base of Anhydrite
2048 (+429)

6/3/2014, 8:45am
Arrived on location
@ 4037'

Heebner
3797 (-1320)

Trilobite Testing, Inc.
Rig #2
Trip Out
@ 4100' LTD

Lansing
3841 (-1364)

DST #1: (3900'-3940' Lansing 'A' & 'B' zones) 30-45-45-60. 1st open: Strong blow, BOB in 1 minute. 2nd open: Strong blow, BOB in 30 seconds. Recovered 180' GIP, 60' SOCM (30% oil, 70% mud).
IFP: 30-50# ISIP: 1,139#
FFP: 50-70# FSIP: 1,128#

Mis-Run Check
Rig Up
@ 3400' LTD

Mis-Run Check
Rig Up
@ 3400' LTD

Pipe Strap
Drlrs: 3842.41
Board: 3841.82
Strap

DST #2: (4000'-4040' Marmaton Zone) 30-45-45-60. 1st open: 30" Blow in 30". Open 30" Blow in 30". 2nd open: Strong blow, BOB in 30".
IFP: 30-50# ISIP: 1,139#
FFP: 50-70# FSIP: 1,128#
Rec: 1' Mud w/ Oil Spots
BHT: 104°
Rec: 180' GIP
60' SOCM (30% oil, 70% mud)
BHT: 104°

Stark
3993 (-1516)

BKC
4040 (-1563)

RTD
4100 (-1623)

LTD
4098 (-1621)

Arrived on location @ 4037'

Trilobite Testing, Inc.
Rig #2
Trip Out
@ 4100' LTD

Trilobite Testing, Inc.
Rig #2
Rig Up
**@ 3400