

Weatherford

Surface Logging Systems

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Logging Personnel:

JAMESON WEST

ANTHONY WOMACK

Unit No.: 83

Rig: SILVER OAK # 11

Filename: cimarex-pennypincher-1.mlw

WELL: PENNY PINCHER FED. COM #1

FIELD:

COUNTY: EDDY

STATE: NEW MEXICO

LOCATION: 660' FNL & 990' FWL, SEC. 21, T19S, R31E,

NMPM SURVEY

Spud Date: 3/21/10

Started: 4/2/10 At: 4195

Ended: At:

Api No.:

G.L.: 3480

K.B.: 3497

Geologist: MIKE MESTAS

Abbreviations:

NB...New Bit
CO...Circ Out
NR...No Returns
TG...Trip Gas
WOB...Wt on Bit
RPM...Rev/Min
SG...Survey Gas
DST...Drill Stem Test
DS...Directional Survey
CG...Connection Gas
LAT...Logged After Trip
PP...Pump Pressure
SPM...Strokes/Min
DTG...Down Time Gas

Mud Data

WT...Weight
PH...Acidity
CHL...Chlorides
V...Viscosity
F...Filtrate
SC...Solids Content

Lithology Symbols:

Anhydrite
Siltstone
Dolomite
Coal
Carb Shale
Salt
Chert
Conglomerate
Shale
Granite Wash
Pyrite
Fossils
Oolites
Cement
Fractures

Gas Chromatograph Analysis:

HW
C1
C2
C3
IC4
NC4

Accessories

Glaucinite
Pyrite
Fossils
Oolites
Cement
Fractures

Drilling Rate

MWFT

Vis
Por
Tr
Lithology

%
Oil
Flu
Tr
p f g f g

Descriptions/Remarks

Total Gas/Chromatograph

BACK-HOE CLEANING TANKS ON GAS LINES

SS: CLR, OFFWHT, WHT, LTEN,
BRN, LTEN, FSTO, BFF,
FRM-MOD FRM, FRI, BRTEL,
CRMBLY, SBAND-SBANG,
ANG, VF-FN GRN, CALC
CMNT, SM CLN, ANG, SM V-
ARG, SCTRD GRN-BLU
FLU, INSTANT FLASH MLKY
BLU FAIR CUT, MOD-FAST
STRMING MLKY BLU FAIR
CUT, LGHT BRN RES RING

LS: WHT, OFFWHT, CRM, LTGY,
LTEN, BFF, MCR-VFXLN, SFT
FRM, CHLKY, PRED CLN, SM
IMBD SAND, SLT ARG IP,
BRIGHT SCTRD BLU FLU,
FAST MLKY BLU INSTANT
STRMING BLOOMING CUT,
LGHT YLLW-BRN RES RING

SHL: DRKEN, BRN, DRKGY, GY,
MOTT, MOD FRM-FRM, BRTEL
CRMBLY, ERTHY, GRTTY, RGH
SANDY, CALC CMNT, SILTY
CARB, SBELCKY, BLCKY

SS: OFFWHT, WHT, CLR, LTGY,
LTEN, BRN, LTEN, MOD FRM
FRM, BRTEL, CRMBLY, FRI,
VF-FN GRN, CALC CMNT,
SM CLN, SM ANG, SM V-ARG
SBAND-RND, SBANG, BRIGHT
BLU SCTRD FLU, FAST
STRMING MLKY BLU CUT,
LGHT YLLW-BRN RES RING

LS: WHT, OFFWHT, CRM, BFF,
MLKY, MCR-VFXLN, SFT-
FRM, CHLKY, IMBD SAND,
SLT ARG IP, PRED CLN

SHL: DRKEN, BRN, LGHT BRN,
LTGY-GY, MOD FRM-FRM,
BRTEL, CRMBLY, CARB, CALC
CMNT, ERTHY, GRTTY, RGH,
SILTY, SM IMBD SAND,
SBELCKY, BLCKY

SS: OFFWHT, WHT, CLR, BFF,
FSTO, LTGY, LTEN, MOD
FRM-FRM, BRTEL, CRMBLY,
FRI, PRED CLN, CALC CMNT
VF-FN GRN, SBAND-RND,
SBANG, SM LSE, PRED
CNLSDTD, BRIGHT BLU SCTT
FLU, FAST STRMING MLKY
BLU FAIR GOOD CUT, LGHT
YLLW-GOLD BRN RES
RING

SS: DRKEN, BRN, DRKGY, CLR,
TN, MOD FRM-FRM, BRTEL,
CRMBLY, FRI, SBAND-RND

4/10/10

WOB 27
RPM 53
PP 1434
SPM 108

DS = .6"
@ 8840'

MW 9.01
VIS 29
PH 10

OCC Case No. 14418
CIMAREX ENERGY
Exhibit # 18