API #15-023-21548

Saman Sharifate
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

FORMATION TOPS

Formation	Sample Tops	Log Tops	Datum
Anhydrite	3283	3283	+1165
Base	3289	3289	+1159
Topeka	4094	4093	-645
Deer Creek	4128	4126	-678
Oread	4320	4316	-868
LaCompton	4775	4771	-1323
Lansing	4860	4856	-1408
Kansas City	5097	5093	-1645
Marmaton	5222	5218	-1770
Altamont	5270	5266	-1818
Pawnee	5337	5333	-1885
Cherokee	5384	5380	-1932
Atoka	5511	5507	-2059
Morrow	5557	5553	-2105
Mississippi	5699	5695	-2247
RTD	5700	5696	-2248
LTD		5700	-2252

GEOLOGICAL SUPERVISION FROM: 4000'
GEOLOGICAL SUPERVISION TO: RTD
DRILLING TIME EVERY FROM/ TO: 3000' / RTD
SAMPLES EVERY FROM/ TO: 3000' / RTD
SAMPLES SAVED FROM/ TO: 3000' / RTD
SAMPLES SENT TO: None

MUD UP: 3000' **TYPE MUD:** Chemical

CASING

	Surface	Production
Hole Size	12 1/4"	7 7/8"
Casing Size	8 5/8"	4 1/2"
Casing Set At	1000'	5700'
Cement	400 sx	150 sx

ELECTRICAL LOGS RUN BY: Pioneer Energy Services
DST (NO.): 4
CORES (NO.): None

OPERATORS
Co.: Pioneer Natural Resources USA, Inc.
Co. Rep.: Jeff Cox
Co. Geologist: Saman Sharifate

CONTRACTORS
DRILLING: Pioneer Drilling Rig #4
TOOLPUSHER: Jeff Cox
MUD CO.: Mud Logging Unit
CASING: Pioneer Drilling Rig #4
CEMENT: Allied Cementing Co.
DST: Trilobite Testing
OTHER:

WELL DATA
LEASE: Morgan Mud @ 3990'
WELL #: 1-H
LOCATION: Section 21, T.3S., R.40W.
FIELD: Wildcat
COUNTY: Cheyenne
STATE: Kansas

ELEVATIONS
GL: 3990'
KB: 3997'
DF:

SPUD DATE/TIME: 10/19/21 @ 12:00 PM
ROTARY TOTAL DEPTH: 10/27/21 @ 7:00 AM
LOGGING TOTAL DEPTH: 10/27/21 @ 7:00 AM
CASING: 8 5/8" @ 1000' cemented to surface with 400 sx; 4 1/2" @ 5700' cemented with 150 sx
STATUS: Drilling ahead

REMARKS Due to poor shows of oil in several potential pay zones and negative DST results, it is recommended and agreed upon by all parties that this well be plugged and abandoned.

Prepared/Fully Submitted,

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*Data has been adjusted to electric logs

Curve Track 1
IMP (BHP)

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Pennies (PP)
Fisher (Vshale)

Depth

Lithology

Geological Descriptions

Engineering Data

Anhydrite 3283 (+141)

Base 3289 (+115)

DAILY PENETRATION
@ 7:00 AM
03/17/21 - Spudded at 10:30 AM
03/18/21 - Drilling at 740'
03/19/21 - Drilling at 2687'
03/20/21 - Drilling at 3687'
03/21/21 - Drilling at 4347'
03/22/21 - Drilling at 4747'
03/23/21 - Drilling at 5147'
03/24/21 - Drilling at 5417'
03/25/21 - Drilling at 5727'

Topeka 4094 (-680)

Deer Creek 4128 (-715)

LaCompton 4775 (-777)

Oread 4320 (-916)

Lansing 4860 (-980)

Kansas City 5097 (-1217)

Stark 4526 (-1125)

Lenapah 4600 (-1156)

Marmaton 4823 (-1219)

Ft Scott 4717 (-1313)

Excello 4766 (-1362)

Drowsy Hill 4778 (-1374)

Oakley 4799 (-1395)

Cobb 4866 (-1462)

Altamont 5270 (-1818)

Pawnee 5337 (-1885)

Cherokee 5384 (-1932)

Atoka 5511 (-2059)

Morrow 5557 (-2105)

Mississippi 5699 (-1698)

RTD 5200 (-1796)

Pipe Rams @ 2000: 3.46" Drum to Board
Blind Rams: 4"

Morgan Mud @ 3990'
Wt: 8.9
Vis: 52
WL: 8.4
Chl: 600
LCM: 3#

DST #1
(LKC A)
4307-4357'

30-60-Pulled load
IF: Blow built to ½"
IS: No return
Rec: 5' MW (100%MW)

IFP: 19 - 17
FFP: 20 - 19
ISIP: 1013
FSIP: 1013
HP: 2099
BHT: 128°

DST #2
(LKC B-D)
4360-4430'

30-60-Pulled load
IF: Blow built to ¼"
IS: No return
Rec: 5' W (100%W)

IFP: 21 - 22
FFP: 23 - 23
ISIP: 927
FSIP: N/A
HP: 2098
BHT: 128°

DST #3
(LKC I-J)
4600-4657'

30-60-Pulled load
IF: Blow built to ¼"
IS: No return
Rec: 5' W (100%W)

IFP: 23 - 23
FFP: 23 - 23
ISIP: 1227
FSIP: N/A
HP: 2098
BHT: 132°

DST #4
(LKC H-K)
4436'-4672'

30-60-30-60
IF: Blow built to ½"
IS: Blow built to ½"
Rec: 5' W (100%W)

Tandem Survey @ 4441' 17

IFP: 24 - 25
FFP: 25 - 25
ISIP: 1252
FSIP: 1252
HP: 2098
FHP: 2098
BHT: 130°

Morgan Mud @ 4670'
Wt: 9.2
Vis: 54
WL: 8.4
Chl: 600
LCM: 3#

Morgan Mud @ 4767'
Wt: 9.2
Vis: 54
WL: 8.4
Chl: 600
LCM: 3#

Morgan Mud @ 5152'
Wt: 9.2
Vis: 52
WL: 8.4
Chl: 600
LCM: 3#

Tandem Survey @ 5200' 17