API #15-103-21015

Saman Sharifzie
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

WELL NAME	Ashby #1-13-23-21S
LEASE	Ashby
COUNTY	Douglas
STATE	Kansas
FIELD	Wildcat
LOCATION	330' FSL & 2310' FEL
SEC-TWP-RGE	Sec. 13 - T21S - R23E
ELEVATION	GL: 1000' KB: 1010'
SPUD	05/08/14
COMP.	05/19/14
TOTAL DEPTH	Driller: 3300' Logger: 3298'
MUD UP	2300'
DRILLING TIME KEPT FROM	2300' TO 3300'
GEOLOGICAL SUPERVISION FROM	3100' TO 3300'
MUD TYPE	Chemical Gel Mud
MUD CO.	Mud Co.
MUD ENGINEER	Jason Hoffman
CONTRACTOR	Southwind Drilling, Inc.
RIG #	Rig #1
TOOLPUSHER	Jason Alcala, Dylan Ramsey
DRILLER	Various Driller's
CASING	Surface: 8 5/8" @ 21' Production: 5 1/2" @ 3297'
ELECTRICAL SURVEY	Trans Pacific Oil Corp. DUAL COMPENSATED POROSITY DUAL INDUCTION MICRO

HOLE DEVIATIONS
1/4 DEG. @ 3297'

MUD PROPERTIES
Gel - 7/13/
Chem. - 3/6/0
Dens. - 9.0
Visc. - 45
Filtrate - 8.0
Chlorides - 2500
pH - 9.0

REMARKS: Due to her shows of oil in multiple potential pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,

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*Tops have been adjusted to electric logs

Formations | Sample Tops | Log Tops | Depth | Lithology | Geological Descriptions | Engineering Data

Curve Track 1
ROP (min/ft)

Curve Track 2
ROP (min/ft)
Gamma (API)
Gamma (API)

Depth | Lithology | Geological Descriptions | Engineering Data

Ashybrite 3100 (+152)

Ashybrite Base 3219 (+48)

Nesu 3672 (-506)

Red Eagle 3730 (-448)

Foraker 3784 (-482)

Stotler 3934 (-647)

Topeka 3986 (-771)

Oread 4111 (-824)

Lansing 4217 (-938)

BKC 4488 (-1199)

Stark 4438 (-1151)

RTD 4580 (-1292)

DST #1
(Oread)
4092'-4140'

30-60-60-60
IF: BOB in 1 min
FF: BOB in 10 sec
ISI: 1 bbl in 30 min
FSI: 1 bbl in 30 min
Rec: 20' GIP, 50' Total Fluids,
100% Mud (0%O, 0%G, 100%M)
BH: 2300 CFGM, 10%O, 1%GM
IFP(S): 17# SOWOB 20TUB
FFP(S): 17# SOWOB 20TUB
ISIP(S): 357#, 1010#

IFP: 20 - 20
FFP: 20 - 20
ISIP: 1010
FSIP: 1010
IHP: 2042
FHP: 2042
IBHT: 122F
FBHT: 122F
Chemist: 24.0 API

Morgan Mud @ 4140'
Wt: 9.2
Vis: 50
WL: 8.0
Chl: 5000
LCM: 12#

Gradient: Survey @ 4140' 17

DST #2
(LeCompton)
4250'-4300'

30-60-60-60
IF: BOB in 30 secs
FF: BOB in 10 secs
ISI: 1 bbl in 30 min
FSI: 1 bbl in 30 min
Rec: 250' GIP, 500' Total Fluids,
100% Mud (0%O, 0%G, 100%M)
BH: 2300 CFGM, 10%O, 1%GM
IFP(S): 17# SOWOB 20TUB
FFP(S): 17# SOWOB 20TUB
ISIP(S): 357#, 1010#

IFP: 20 - 110
FFP: 20 - 120
ISIP: 1010
FSIP: 984
IHP: 2042
FHP: 2032
IBHT: 125F
FBHT: 124F
Chemist: 24.0 API

Morgan Mud @ 4300'
Wt: 9.2
Vis: 52
WL: 8.0
Chl: 5000
LCM: 12#

Gradient: Survey @ 4300' 17

DST #3
(LKC-J)
4432'-4490'

30-60-30-60
IF: Blow built to 1"
FF: Blow built to 1"
ISI: No blow
FSI: No blow
Rec: 30' GIP, 20' Total Fluids,
100% Mud (0%O, 0%G, 100%M)
BH: 1300
IFP: 20 - 30
FFP: 20 - 30
ISIP: 1030
FSIP: 1030
IHP: 2208
FHP: 2208
IBHT: 126F
FBHT: 126F

Morgan Mud @ 4437'
Wt: 9.1
Vis: 48
WL: 8.0
Chl: 5000
LCM: 8#

Gradient: Survey @ 4490' 17

Morgan Mud @ 4580'
Wt: 9.2
Vis: 52
WL: 8.0
Chl: 5000
LCM: 8#

Gradient: Survey @ 4580' 17

Plan Plug @ 2080' 2.5" Stem to Board
Gradient: Survey 17

DAILY PENETRATION
@ 7:00 AM
05/08/14 - Spudded at 2:00 PM
05/09/14 - Drilling at 285'
05/10/14 - Drilling at 1000'
05/11/14 - Drilling at 2700'
05/12/14 - Testing at 4140'
05/13/14 - Drilling at 4300'
05/14/14 - Drilling at 4437'
05/15/14 - Drilling at 4554'

Morgan Mud @ 3750'
Wt: 9.0
Vis: 45
WL: 8.0
Chl: 500
LCM: 15#

Morgan Mud @ 3297'
Wt: 9.0
Vis: 45
WL: 8.0
Chl: 500
LCM: 15#