TYLER H. SANDERS
GEOLOGIC REPORT

Operator: Abercrombie Energy LLC
Well Name: Moore 'A' #1-9
Location: 1150' FSL; 1590' FWL
Section: 9 Township: 20S Range: 24W
County: Scott State: Kansas
Elev: 3088 KB

SUMMARY COMMENTS

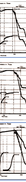
Due to the positive results of drill stem tests no 2 and no 3, it was recommended and decided that casing be run to further test the well.

Evaluation Zone Nov. Drilling of the well was difficult due to the extreme cold weather conditions which caused mechanical problems with the rig and equipment. Drilling was also hindered by the extreme cold weather and the fact that the well was located approximately 20 miles from the nearest paved pavement and the nearest gas pipeline.

DRILL STEM TESTS

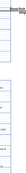
DST no.1, 4170-4212 (Atoka Zone 1) (Atoka)
1st open: Strong blow of air in 1min. to 15 min. 2nd open: Strong blow of air in 1min. for 15 min. flow bubble 1 min. after shut in
Recovery: 0 ft of fluid
Gas 0 ft
Oil 40ubbls 35% (surfur color) (38% oil 15% mud)
Mud 2ubbls 5% oil 95% mud
Chlorides 2000 ppm
IFP: 17/19 FFP: 17/21
ISIP: 1127 FSIP: 1127
IHP: 2080 FHP: 2080
BHT: 115 deg. F

DST no.2, 4224-4255 (Kansas City 7 zone)
1st open: Strong blow of air in 1min. no bottom hole pressure 2nd open: Strong blow of air in 1min. no bottom hole pressure
Recovery: 180 ft of fluid
Gas 0 ft
Oil 0 ft
Mud 180 ft 100% oil
RECOVERY: 230 ft total fluid
GAS: 0 ft
OIL: 0 ft
MUD: 180 ft 100% oil
SALT WATER: 0 ft
IFP: 1/2 FFP: 1/2
ISIP: 1127 FSIP: 1127
IHP: 2080 FHP: 2080
BHT: 115 deg. F

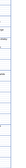


DST no.3, 4314-4365 (Atoka Zone 2) & L zones)
1st open: Strong blow of air in 1min. no bottom hole pressure 2nd open: Strong blow of air in 1min. no bottom hole pressure
Recovery: 0 ft of fluid
TIMES: 15-30-45-60
Recovery: 2310 Total fluid
(All Mud) 0% 20% oil 80% water
Gas 0 ft
Oil 0ubbls 20% (35.0 deg. API)
Mud 2310ubbls 80% water
IFP: 1/2 FFP: 1/2
ISIP: 1127 FSIP: 1127
IHP: 2080 FHP: 2080
BHT: 115 deg. F

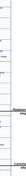
DST no.4, 4374-4405 (Atoka Zone 3 & L zones)
1st open: Strong blow of air in 1min. no bottom hole pressure 2nd open: Strong blow of air in 1min. no bottom hole pressure
TIMES: 15-30-45-60
Recovery: 2310 Total fluid
(All Mud) 0% 20% oil 80% water
Gas 0 ft
Oil 0ubbls 20% (35.0 deg. API)
Mud 2310ubbls 80% water
IFP: 1/2 FFP: 1/2
ISIP: 1127 FSIP: 1127
IHP: 2080 FHP: 2080
BHT: 115 deg. F



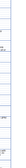
DST no.5, 4457-4501 (Marmaton 'C' zn)
1st open: Strong off bottom 1 min.
2nd open: Strong off bottom 1 min.
Recovery: 1 foot of oil - 1 barrel contained of bucket & rinse.
TIMES: 30-45-60-90
Recovery: 1 ft of oil
Gas 0 ft
Oil 1ft 100% oil (35.0 deg. API)
IFP: 0/0 FFP: 0/0
ISIP: 0 FSIP: 0
IHP: 2194 FHP: 2194
BHT: 115 deg. F



DST no.6, 4488-4515 (Pleasanton and Marmaton 'A' zn)
1st open: Strong off bottom 1 min. no bottom hole pressure
2nd open: Strong off bottom 30 sec. no bottom hole pressure
TIMES: 30-45-60-90
Recovery: 2430 ft total fluid
(All Mud) 0% 100% water
1st open gas in 45 min. at 1/4 inch
2nd open gas in 30 min. at 1/4 inch
IFP: 1/2 FFP: 1/2
ISIP: 1127 FSIP: 1127
IHP: 2194 FHP: 2194
BHT: 115 deg. F



DST no.7, 4528-4570 (Pleasanton and Marmaton 'K' zn)
1st open: Strong off bottom 1 min. no bottom hole pressure
2nd open: Strong off bottom 30 sec. no bottom hole pressure
TIMES: 30-45-60-90
Recovery: 2430 ft total fluid
(All Mud) 0% 100% water
1st open gas in 45 min. at 1/4 inch
2nd open gas in 30 min. at 1/4 inch
IFP: 1/2 FFP: 1/2
ISIP: 1127 FSIP: 1127
IHP: 2194 FHP: 2194
BHT: 115 deg. F



DST no.8, 4585-4630 (Marmaton 'D' zn)
1st open: Weak blow built to 7
2nd open: Weak blow built to 7
Recovery: 10 ft of drilling mud
TIMES: 30-45-60-90
Recovery: 10 ft of drilling mud
Gas 0 ft
Oil 0 ft
Mud 10 ft 100%
IFP: 17/17 FFP: 17/17
ISIP: 1127 FSIP: 1127
IHP: 2194 FHP: 2194
BHT: 115 deg. F

DST no.9, 4641-4704 (Marmaton - Johnson zn)
1st open: Weak blow built to 7
2nd open: Weak blow built to 7
TIMES: 30-45-60-90
RECOVERY: 40 VSOCM 2% oil 98% mud
Gas 0 ft
Oil 0ubbls 2%
IFP: 17/24 FFP: 24/31
ISIP: 1127 FSIP: 1127
IHP: 2194 FHP: 2194
BHT: 115 deg. F

DST no.10, 4695-4723 (Lower Pennsylvanian Lm)
1st open: Weak blow built to 7
2nd open: Weak blow built to 7 - 1/4 in. in bottom bucket
Recovery: 1 ft of oil and 1 ft of drilling mud in bottom bucket and 30 feet of oil in tool, no second phase
Gas 0 ft
Oil 1ft 100% oil (35.0 deg. API)
Mud 0 ft
RECOVERY: 30 Gs scaled mud 100% mud
IFP: 17/24 FFP: 24/31
ISIP: 1127 FSIP: 1127
IHP: 2194 FHP: 2194
BHT: 115 deg. F

LEGEND