

STATE "AA" #1

Summary of Operations

11-28-60 Commenced Drlg. Operations (Spud Date).
 11-29-60 Set 452' of 13 3/8" Surface Csg.
 11-30-60 Tested 13 3/8" Csg.
 12-4-60 Worth Well ran Caliper Log @ 3745'.
 12-5-60 Welex ran Gamma Ray,
 12-6-60 Set 3845' of 8 5/8" Intermediate Csg.
 12-7-60 Tested 8 5/8" Csg.
 12-28-60 Attempted DST 8488'-8539'.
 12-29-60 DST #1 Abo Formation 8488'-8544'.
 1-7-61 DST #2 Upper Penn 9199'-9251'.
 1-9-61 DST #3 Penn 9367'-9376'.
 1-11-61 DST #4 Penn 9494'-9520'.
 1-18-61 DST #5 Penn 10015'-10045'.
 1-19-61 DST #6 Penn 10045'-10067'.
 1-22-61 DST #7 Penn 10204'-10221'.
 1-24-61 DST #8 Penn 10236'-10308'.
 2-5-61 DST #9 Penn 10952'-10973'.
 2-26-61 DST #10 Devonian 11910'-11919'.
 2-27-61 Welex ran Guard Log to 11967'. Attempted to run Sonic Log, stopped @ 5700'.
 2-28-61 Welex ran Gamma Ray, Acoustic Logs to 11967'.
 3-1-61 Ran Century Seismic Co. Geophone Sounding Surveys to 11950'.
 3-2-61 Well plugged & abandoned.

Drill Stem Tests

12-29-60 DST #1, Abo Formation, 8488'-8544', Tool open 1 hr, 5/8" X 1" choke, no WC. Very weak blow air for 2 mins & died. Rec 35' slight gas cut mud. BHSIP 100#, SFP 0#, BHFP 0-0#, 30 min final SIBHP 0#. HH 4180-4180, BHT 182°.

1-7-61 DST #2, Upper Penn Formation, 9199'-9251', Tool open 1 1/2 hr, 5/8" X 1" choke, no WC, opened w/good blow air, gas to surface in 20 mins, TSTM, died in 1 1/2 hrs. Rec 220' of gas cut mud + 7164' of gas cut & slightly oil cut SW. SFP 0#, 30 min Int SIBHP 3372#, BHFP 3135-3372#, 30 min SIBHP 3372#, HH 4715 in & 4630 out. BHT 158°.

1-9-61 DST #3, Penn Formation, 9367'-9376', Tool open 1 hr, 5/8" X 1" choke, no WC, tool opened w/fair blow of air & continued thru out test. Rec 50' very slightly gas cut Drlg mud + 5' heavy mud cut oil. SFP 0#, BHFP 56-70#, 30 min SIBHP 388#, HH 4812 in & 4731 out. BHT 166°, 30 min Int. BHP 2953#.

1-11-61 DST #4, Penn Formation, 9494'-9520', tool open 1 1/2 hrs, 5/8" X 1" choke, no WC, tool opened w/fair blow air & continued thru out test. Rec 680' of heavy oil & gas cut mud, 120' of heavy gas cut oil + 30' salt water. SFP 0#, BHFP 300#, 30 min SIBHP 2325#, HH 4950-4825#, BHT 208°, Int SI BHP 1 hr 2325#.

1-18-61 DST #5, Penn Formation, 10015'-10045', tool open 2 hrs, 5/8" X 1" choke, no WC, opened w/strong blow of air, gradually decreased to weak blow of air at end of test. Rec. 50' highly gas cut drlg mud, 9000' slightly oil cut & highly gas cut salt water, 1017' gas in DP (SW - 73000 PPM Chl). SFP 0#, BHFP 995-4275#, 60 min SIBHP 3640#, HH 5150-5060, BHT 204°, 30 Min Int SIBHP 3725#.

1-19-61 DST #6, Penn Formation, 10045'-10067', tool open 1 hr, 5/8" X 1" choke, no WC, opened w/weak blow for 2 mins & died, remained dead thru out test. Rec 40' drlg mud, NS, SFP 0#, BHFP 23#, 30 SIBHP no recording, HH 5023 in & out. BHT 143°. 30 Min Int BHSIP 1054#.

- 1-27-61 DST #7, Penn Formation, 10204'-10221', tool open 1 hr, 5/8" X 1" choke, no WC, opened w/weak blow air & died in 45 mins. Rec 130' drlg mud w/no shows, SFP 0#, BHFP 0#, 30 min SIBHP 3140#, HH 5200#, BHT 130°, 30 min Int BHSIP 3600#.
- 1-24-61 DST #8, Penn Formation, 10236'-10308', tool open 2 hrs, 5/8" X 1" choke, no WC, tool opened w/fair blow air & increased to strong blow air & continued thru out test. Rec 270' SW cut mud, 1230' of SW, SFP 0#, BHFP 220-700#, 60 min SIBHP 3100, HH 5100-5100, BHT 206°, 30 min Int SIBHP 3600#.
- 2-5-61 DST #9, Penn Formation, 10952'-10973', tool open 1 1/2 hrs, 5/8" X 1" choke, 1700' WC, opened w/weak blow air, increased to fair blow in 20 mins, strong blow in 40 mins. Gas to surface in 1 hr 20 mins, TSTM, Rec 1700' WC + 60' mud cut WC, SFP 0#, BHFP 740-700, 45 mins SIBHP 3460, HH 5580 in & out. BHT 210°, 30 mins SIBHP 3340#.
- 2-26-61 DST #10, Devonian Formation, 11910'-11919', tool open 1 1/2 hrs, 5/8" X 1" choke, 2000' WC, opened w/fair blow air & continued thru out test. Rec 2000' WC + 2000' salty sulphur wtr, SFP 0#, BHFP 960-1920#, 60 min SIBHP 4460, HH 6040-6040, BHT 258°, 30 min Int SIBHP 4460#.

Totco Deviation Surveys

<u>Depth</u>	<u>Degree Off Vertical</u>	<u>Depth</u>	<u>Degree Off Vertical</u>
260	1/2	8954	1/2
457	1/2	9120	1/2
688	1/2	9370	1/2
1250	1/2	9520	1/2
1750	1/2	9585	1/2
2250	1/2	9685	1/2
2809	1/2	9895	1/2
3505	1	9990	3/4
4300	1/2	10040	1/2
5410	1/2	10160	1/2
5790	1	10465	1/2
6053	1/2	10555	1/2
6290	1/2	10665	1/2
6572	1/2	10760	1/2
6952	1/2	10895	3/4
7260	1/2	10965	1/2
7676	1/2	11070	3/4
8046	1/2	11250	3/4
8206	1/2	11370	1/2
8300	1/2	11500	1
8383	3/4	11594	1/2
8600	1/2	11695	3/4
8690	1/2	11850	3/4
8855	1/2		

Cores

None

Acidizing