

DAILY DRILLING REPORT

Bridges State #165

BRIDGES STATE #165, 660' FNL & 860' FWL Sec 13, T-17-S, R-34-E, Lea Co, NM. OBJECTIVE: Drill and complete as Abo single producer. Middle Penn to be completed as injector along with Abo in 1972 under separate AFE. AFE 1118 - Mobil Intr 100% - Est Cost \$218,000.

4/14/71 Contract awarded to Tri-Service Drlg Co, WOR.

BRIDGES STATE #165

4/15 WOR.

BRIDGES STATE #165

4/16 MIT.

BRIDGES STATE #165

4/17 RUT 85%.

4/19 (2) 482 drlg red bed, 12 $\frac{1}{4}$ " hole, NND. Br Wtr.
Tri-Serv Drlg Co spud in @ 2:30 p.m. 4/17/71, drld 17 $\frac{1}{2}$ " hole to 360, ran 11 jts 360' 13-3/8 48# H-40 ST&C csg cemented on bottom @ 360 by BJ Serv w/ 400x Class H cement w/ 2% CaCl, PD @ 10:00 a.m. 4/18/71, cement circ, WOC 18 hrs, tested csg & BOP w/ 1000#/ok.

BRIDGES STATE #165

4/20 (3) 2250 drlg anhy & salt, 12 $\frac{1}{4}$ " hole, $\frac{1}{2}$ @ 2149. Br Wtr.

BRIDGES STATE #165

4/21 (4) 3065 drlg anhy, 12 $\frac{1}{4}$ " hole, 1 $^{\circ}$ @ 2879. Br Wtr & Oil.

BRIDGES STATE #165

4/22 (5) 3305 drlg anhy & lm, 12 $\frac{1}{4}$ " hole, $\frac{1}{2}$ @ 3190. Br Wtr & Oil.

BRIDGES STATE #165

4/23 (6) 3585 drlg anhy, 12 $\frac{1}{4}$ " hole, $\frac{1}{2}$ @ 3500. Br Wtr & Oil.

BRIDGES STATE #165

4/24 (7) 3830 drlg anhy & lm, 12 $\frac{1}{4}$ " hole, NND. Br Wtr & Oil.

4/26 (9) 4285 drlg lm, 12 $\frac{1}{4}$ " hole, 1 $^{\circ}$ @ 4154. Br Wtr & Oil.

BRIDGES STATE #165

4/27 (10) 4452 drlg lm, 12 $\frac{1}{4}$ " hole, $\frac{1}{2}$ @ 4435, Br Wtr, 6% oil.

BRIDGES STATE #165

4/28 (11) 4600 drlg lm, 12 $\frac{1}{4}$ " hole, NND. Br Wtr & Oil.

BRIDGES STATE #165

4/29 (12) 4710 drlg lm, 12 $\frac{1}{4}$ " hole, Br Wtr & Oil.
3/4 @ 4680.

BRIDGES STATE #165

4/30 (13) 4877 drlg lm 12 $\frac{1}{4}$ " hole, NND.

Br. Wtr & Oil.

BRIDGES STATE #165
 5/1 (14) 5000 ND lm, 12 $\frac{1}{4}$ " hole, 3/4 @ 4900. Br Wtr & Oil.
 Finish hole @ 6:00 a.m., now circ, prep to run 9-5/8 csg.

5/3 (16) 5305 drlg lm, 8-3/4" hole, 0° @ 5211. Fr Wtr.
 Circ @ 5000/1 $\frac{1}{2}$ hrs, POH & LD 18 DC's, then ran 154 jts
 9-5/8 40# & 36# N-80 & J-55 ST&C csg, then BJ Serv cemented
 @ 5000 w/ 2700x Class C 6% gel, $\frac{1}{4}$ # Flocele/x in 1st 300x
 + 200x Class C Neat cement, PD 7:00 p.m. CDT 5/1/71, cement
 circ, NU, WOC a total of 18 hrs, tested 9-5/8 csg & BOP
 2000#/ok.

BRIDGES STATE #165
 5/4 (17) 5883 drlg lm, 8-3/4" hole, $\frac{1}{2}$ @ 5522. Fr Wtr.

BRIDGES STATE #165
 5/5 (18) 6155 drlg lm, 8-3/4" hole, 1 $\frac{1}{4}$ @ 5868. Fr Wtr.

BRIDGES STATE #165
 5/6 (19) 6530 drlg lm, 8-3/4" hole, 1 $\frac{1}{2}$ @ 6473. Fr Wtr.

BRIDGES STATE #165
 5/7 (20) 6830 drlg lm, 8-3/4" hole, 1° @ 6782. Fr Wtr.

BRIDGES STATE #165
 5/8 (21) 7168 drlg lm 8-3/4" hole, 1 $\frac{1}{4}$ ° 7092. Fr. Wtr.

5/10 (23) 7650 drlg lm 8-3/4" hole, 1 $\frac{1}{4}$ ° 7434. Fr. Wtr.

BRIDGES STATE #165
 5/11 (24) 7855 drlg lm & sh, 8-3/4" hole, Fr. Wtr.
 1 $\frac{1}{4}$ ° 7732.

BRIDGES STATE #165
 5/12 (25) 7988 drlg lm & ch, 8-3/4" hole, Fr. Wtr.
 1 $\frac{1}{2}$ ° 7852.

BRIDGES STATE #165
 5/13 (26) 8177 drlg lm, 8-3/4" hole, Fr. Wtr.
 1-3/4° 8007.

BRIDGES STATE #165
 5/14 (27) 8379 drlg lm & sh, 8-3/4" hole, NND. 8.5-35-NC.
 Started mudding up @ 8250.

BRIDGES STATE #165
 5/15 (28) 8473 drlg lm & sh 8-3/4" hole, 8.5-35-20.0.
 1-3/4° 8462.

5/17 (30) 8749 drlg lm 8-3/4" hole, NND. 8.6-34-17.0.

BRIDGES STATE #165
 5/18 (31) 8838 drlg dolo & ch 8-3/4" hole, 8.6-34-10.
 2 $\frac{1}{4}$ @ 8729.

BRIDGES STATE #165
 5/19 (32) 8926 drlg lm & dolo, 8-3/4" hole, 1-3/4° 8910. 8.7-34-18.7 3% Oil.

BRIDGES STATE #165
 5/20 (33) 9053 drlg lm & sh 8-3/4" hole, NND. 8.6-34-18.8 4% Oil.

BRIDGES STATE #165
 5/21 (34) 9190 drlg lm & sh 8-3/4" hole, NND. 8.7-34-18.6 5% Oil.

BRIDGES STATE #165
 5/22 (35) 9290 drlg lm, 8-3/4" hole. 8.6-34-19.0, 5% oil.
 2 1/4 @ 9230.

5/24 (37) 9640 drlg lm & sh, 8-3/4" hole. 8.7-34-19.0, 5% oil.
 2 1/2 @ 9541.

BRIDGES STATE #165
 5/25 (38) 9852 drlg lm & sh, 8-3/4" hole, NND.
 8.7-34-19.0, 5% oil.

BRIDGES STATE #165
 5/26 (39) 9970 drlg lm & sh, 8-3/4" hole. 8.7-34-17.8, 5% oil.
 1 1/2 @ 9884.

BRIDGES STATE #165
 5/27 (40) 10,118 drlg lm & sh, 8-3/4" hole, NND.
 8.8-35-18.0, 5% oil.

BRIDGES STATE #165
 5/28 (41) 10,265 drlg lm & sh, 8-3/4" hole, NND.
 8.9-34-19.0, 4% oil.

BRIDGES STATE #165
 5/29 (42) 10,386 drlg lm & sh, 8-3/4" hole, NND.
 8.9-35-17.0, 4% oil.

5/31 (44) 10,600 TD lm & sh, 8-3/4" hole. 9.1-37-9.8, 3% oil.
 1-3/4 @ 10,347, circ past 1/2 hr to run logs.

6/1 10,600 TD lm & sh, 8-3/4" hole. 9.1-37-9.8, 3% oil.
 1 1/2 @ 10,595, circ 2 hrs @ 10,600, POH, Schl ran SNP-dual
 IES & Lateralog to 10,595/11-3/4 hrs, ran bit to bottom,
 circ 2 hrs, now POH to run 7" liner.

BRIDGES STATE #165
 6/2 10,600 TD, WOC on 7" liner, finish POH, ran 155 jts 6300'
 7" OD 23.0# S-95 & N-80 liner cemented @ 10,599 w/ top of
 BWS hydraulic liner hanger @ 4299, Howco cemented w/ 1200x
 T1LW + 200x Class H Neat containing .04% HR-4, PD @ 7:45
 p.m. 6/1/71, rev out approx 390x of cement off top of liner,
 P & LD DP, RD & Rel Tri-Service Drlg Co rig @ 5:30 a.m.
 6/2/71, WOC.

BRIDGES STATE #165, 10,600 TD.
 6/3 MOT - prep to MI unit to compl.

BRIDGES STATE #165, 10,600 TD.
 6/4 MIRU X-Pert Well Serv DD unit, inst'l BOP, ran 6-1/8 bit
 & 7" csg scraper on 2-3/8 tbg to 4400, displ mud w/ wtr,
 ran bit to 8000, SD for nite.

- BRIDGES STATE #165, 10,600 TD
- 6/5 Finish running 6-1/8" bit to 10,542, circ hole clean, test csg 3000#, displ wtr w/ lease oil, pull bit to 10,430, Western Co spotted 500 gals 15% NE acid, POH w/ tbg & bit, Western Co attempted to run GR-Collar corr log, stopped at top of 7" liner @ 4299, would not go in liner, SD for nite.
- 6/6 Ran 2-7/8" bull plug on 2 jts 2-3/8" tbg & SL to 6000', POH, Western Co ran GR-Collar corr log from 8300-10,523 then perf 7" liner in the Middle Penn @ 10,393, 394, 395, 396, 397, 398, 399, 10,400, 405, 406, 407, 408, 409, 410, 414, 415, 416, 418, 419, 420, 423, 424, 425, 426 & 10,427 w/ 1 JSPF total of 25 holes, ran Johnston pkr on 2-3/8" tbg to 9894, Western Co displ acid into form, BDTP 4900#, TTP 5050#, AIR 0.2 BPM, ISIP 5050#, 15 min 3900#, bled off press, reset pkr @ 10,350, then sw 22 BLO 1 1/2 hrs, 4000' FIH, SD for nite.
-20 BLO + 12 BAW.
- 6/7 Sw 20 BLO + 14 BNO + 2 BAW/ 7 hrs, sw dry 1 hr, Western Co acidized perfs w/ 5000 gals 15% NE acid using 25 RCNB sealers, TTP 4600#-6400#, AIR 3.3 BPM, ISIP 5000#, 10 min 2200#, job compl @ 4:00 p.m. 6-6-71, sw & F 43 BLO + 217 BNO + 100 BAW/ 14 hrs on 48-24/64 ck, TP 0-300#, L hr F 17 bbls, S/O clean, prep to perf Abo zone.
- BRIDGES STATE #165, 10,600 TD
- 6/8 Pumped 50 bbls oil down tbg, TP 500# to sl vacuum, unseat pkr, POH w/ tbg & pkr, Western Co perf 7" liner in the Abo @ 8493, 98, 99, 8504, 05, 06, 07, 25, 33, 34, 35, 36, 37, 41, 42, 43, 44, 45, 50, 51, 52 & 8553 w/ 1 JSPF, total of 22 holes, then Western Co set Baker Model D pkr w/ knock out plug in place in 7" liner @ 10,360, ran Johnston ret BP & pkr on 2-3/8" tbg, set BP @ 10,308, pulled end of tbg to 8551, SD for nite.
- BRIDGES STATE #165, 10,600 TD
- 6/9 Western Co worked Abo perfs 8493-8553 w/ 500 gals 15% NE acid, then set pkr @ 8382, displ acid into form, BDTP 4750#, TTP 4650, AIR 3.0 BPM, ISIP 3600#, 11 min on vac, then sw 36 BLO + 35 BNO/ 6 hrs, 3000' FIH, sl sh of gas, Western Co reacidized w/ 10,000 gals 15% NE acid using 22 RCNB sealers, TTP 5400-6400#, AIR 5.7 BPM, ISIP 3800#, 10 min SIP 2100#, job compl 6:45 p.m. 6-8-71, sw & F 36 BLO + 97 BNO + 29 BAW/ 10 hrs, 6500' FIH, L hr sw 14 bbls, S/O clean oil, cont to test.
-223 BAW.
- BRIDGES STATE #165, 10,600 TD
- 6/10 From Abo perfs sw 109 BNO + 50 BAW/ 12 hrs, 3500' FIH, fr sh of gas, L hr sw 12 bbls, S/O 15% AW, cont to swab.
-173 BAW.
- BRIDGES STATE #165, 10,600 TD
- 6/11 Sw & F 296 BNO + 57 BAW/ 23 hrs on 48/64" ck, TP 0-50#, L hr F 15 bbls, S/O 2% AW, prep to run completion equip.
-116 BAW.

- 6/12 BRIDGES STATE #165, 10,600 TD
F 30 BNC in 2 hrs on 48/64" ck, TP 50#, pumped 36 BLO down tbg, unseat pkr, ran tbg & pkr to 10,355, ret BP, POH w/ tbg, pkr & BP, removed BOP, now installing bottom part of dual tree.
- 6/14 Install bottom part OCT dual tree, ran Middle Penn tbg 2-3/8" N-80 orange peeled to 10,395, T perfs 10,362-365, Baker latch in seal assembly 10,360, Baker parallel tbg anchor 10,326, SN @ 10,321, pushed knock out plug out of pkr, latched in pkr w/ 13,000# ten, tested tbg w/ 4000# while running, now running Abo tbg, 2-3/8" Buttress, 68 jts in hole.
- 6/15 BRIDGES STATE #165, 10,600 TD
Finish running Abo tbg to 10,326, latched into anchor w/ 16,000# tension, SN @ 8708, total of 257 jts 2-3/8" Buttress tbg from 1882-10,326 & 61 jts 2-7/8" Buttress tbg 0-1882, tested tbg while running to 4000#, remove BOP, instl dual OCT tree, SD for nite.
- 6/16 BRIDGES STATE #165, 10,600 TD
Test dual tree w/ 3000# ok, remove back press, plug from Penn tbg then F 44 BLO + 31 BNO/ 2 1/2 hrs, 48/64" ck, TP 150# SI, ran pump on 192 3/4", 86 7/8" & 69 1" rods to SN @ 8708 in Abo tbg, spaced out, rig down, rel unit @ 10:00 p.m. 6-15-71, rel well to prod.
From Abo zone: -670 BLO + 116 BAW.
From Penn zone: -30 BAW.
- 6/17 BRIDGES STATE #165, 10,600 TD
Middle Penn: SI, setting pumping unit on Abo, 1200# TP. -30 BAW.
Abo Zone: Setting pumping unit -670 BLO + 116 BAW.
- 6/18 BRIDGES STATE #165, 10,600 TD
Abo Zone: respaced pump. -670 BLO + 116 BAW.
Middle Penn Zone: F 200 BNO + 6 BAW/ 7 hrs, 14/64" ck, TP 750. -24 BAW.
- 6/21 BRIDGES STATE #165, 10,600 TD.
Abo: P 670 BLO + 270 BNO + 64 BAW/3 days. - 52 BAW.
- 6/19 Middle Penn: F 223 BNO + 6 BAW/18 hrs, 15/64 ck, TP 700. - 18 BAW.
- 6/20 Middle Penn: F 203 BNO + 3 BAW/15 hrs, 17/64 ck, TP 600, GOR 1662/1. - 13 BAW.
- 6/21 Middle Penn: F 331 BNO + 2 BAW/24 hrs, 19/64 ck, TP 500, GOR 1861/1. - 11 BAW.
- 6/22 BRIDGES STATE #165, 10,600 TD.
Abo: P & F 435 BNO + 10 BAW/24 hrs. - 42 BAW.
Middle Penn: NM OCC POT: F 364 BNO + 1 BAW/24 hrs, 20/64 ck, 2" tbg, TP 400, GOR 1680/1, Grav 42.8 @ 60, Allow 364 BOPD nonprorated, Top 374, Cap 364. Compl 6/6/71
- POTENTIAL

6/23
POTENTIAL BRIDGES STATE #165, 10,600 TD.
Abo: NM CCC POT: P 358 ENO + 6 BAW/24 hrs, 11 - 1½ x
120" SPM, Grav 36.2 @ 60, GOR 1890/1, Allow 358 NP,
Top 382, Cap 358. Compl 6/8/71.
Taking pkr leakage test.

Middle Penn: Taking pkr leakage test.

6/24 BRIDGES STATE #165, 10,600 TD.
Abo: Taking pkr leakage test.
Middle Penn: Taking pkr leakage test.

6/25 BRIDGES STATE #165, 10,600 TD.
Abo: Taking pkr leakage test.
Middle Penn: Taking pkr leakage test.

6/28/71 BRIDGES STATE #165, 10,600 TD.
Abo: Completed pkr leakage test/ok.
Middle Penn: Completed pkr leakage test/ok.
FINAL REPORT on Abo & Middle Penn Zones.