

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Pioneer Production Corp.

3. ADDRESS OF OPERATOR
P O Box 208, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1600' FNL - 1040' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input checked="" type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other)	<input type="checkbox"/>		<input type="checkbox"/>

5. LEASE
NM 010063

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Lucerne C

9. WELL NO.
1E

10. FIELD OR WILDCAT NAME
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 21 T28N R11W

12. COUNTY OR PARISH | 13. STATE
San Juan | NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5780' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attached report for perfs, 1-1-81 & 1-8-81; frac 1-4-81 & 1-10-81; tbg. 1-14-81.



Subsurface Safety Valve: Manu. and Type _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED: Thomas A. Dugan TITLE: Agent DATE: 1-20-81

(This space for Federal or State office use)

APPROVED BY _____ TITLE: NMOCC DATE _____
CONDITIONS OF APPROVAL, IF ANY:

R1.1

- 12-29-80 S.D.
- 12-30-80 Pressure test to 4000 psi. OK. Circulate hole w/ 2% KCL. Pull out of hole w/ tbg. and bit. Rig up GO. Ran GR-CBL-CCL. from 6422 to 5300'. Indicated cement top 5560'. Start back in hole w/ tbg and bit. PBD 6423 corrected to open hole log.
- 12-31-80 Finished going in hole w/ tbg and bit to 6438' O.H.log.

Finished T.I.H. w/ tbg and bit. Cleaned out 15' to 6438' corrected to open hole log measurements. Circulated hole clean. Laid down power sub. Pressure tested w/ rig pump to 1200 psi. OK. Start T.O.H. w/ tbg. S.D.O.N.
- ✓ 1-1-81 Finished coming out of hole w/ tbg. Rig up GO. Perforate Lower Dakota @ 7436-33-26-22-16-12-08. Total of 7 holes. Go in hole w/ Baker retrieve metric packer set at 6335' RKB. Rig up swab tools - start swabbing hole down. S.D.O.N.
- 1-2-81 S.D. for New Year's Day.
- 1-3-81 Swabbing - sand line parted on third run. Start out of hole w/ tbg. Power tongs broke down - wait 2 hours on repairs. P.O.O.H. - redress packer. Go in hole w/ tbg. & packer; set packer at 6335' RKB. Found sand line parted approx. 60' above rope socket.
- ✓ 1-4-81 Swabbing well down to 5000'. Tbg. hard to swab. Rig up Western Co. Pressure up back side w/ 1500 psi. Attempt to breakdown Dakota perms 6408-36. Pump 40 bbl at 4900 psi - 4.8 bbl/min. Pump 10 bbl 15% HCl flush to perms w/ wtr. Shut in 15 min. Attempt breakdown - 4900 psi at 5 bbl/min surge fluid several times - attempt breakdown 5200 psi at 5.8 bbl/min. Pump 1000 gals 15% HCl w/ 15#/1000 gal XR-2 + 1 gal/1000 gal aquaflo + 1 gal/1000 gal Inhibitor + ½ gal/1000 gal FR-20 + 1 gal/1000 gal Claymaster. Flush to formation w/ 2% KCL w/ 2.5#/ gal Ammonium Nitrate. 5200 psi @ 5.9 bbl/min. Shut well in 30 min. Opened to pit; flowed back 2 hrs. Making 1 bbl every 5 min. Left open to pit.
- 1-5-81 Well flowing back by very slight heads. Gas is flammable (will burn between heads).
- 1-6-81 Swabbing - has show of gas in front of fluid. Swabbing from bottom. Using 1 swab per run. Swabbed back approx. 50 bbls of wtr. Checked two samples during the day. Showed mostly treating fluid.

1-7-81 Well flowing $\frac{1}{2}$ " stream of water. Small amount of gas. Started swabbing. Swabbed back 100 bbls wtr. Tbg. hard to swab. Getting 1 run per 1 swab cup. (Swabbed 8 hrs.) At end of day swabbing 3-4 bbls per run.

✓ 1-8-81 Well flowing back $\frac{1}{2}$ " stream of water. No show of gas. Made 3 swab runs. Swabbed back 17 bbls wtr. Unseat packer. Pull tubing out of hole and lay down. Rig up G0 - perforate Dakota 6192, 6213, 6215, 6271, 6277, 6279, 6281, 6283, 6285, 6287, 6293, 6321, 6322, 6351, 6355, 6357. Rig up Western Co. Acidize perms w/ 2000 gal 15% HCL w/ 15#/1000 gal XR-2 + 1 gal/1000 aqua flow + 1 gal/1000 Inhibitor + $\frac{1}{2}$ gal/1000 FR-20 + 1 gal/1000 Claymaster. Dropped 30 ball sealers. Initial breakdown 1800 psi. Balled off w/ 4000 psi. Ran junk basket. Didn't recover any ball sealers. S.D.O.N. Prep to frac.

1-9-81 Shut Down - waiting on CO₂ for frac.

✓ 1-10-81 Rig up Western Co. Fraced Dakota perms 6192 - 6357 as follows:

13,902 gal Mini Max III-40 + 600 SCF/bbl CO₂ - pad
2,100 gal Mini Max III-40 @ $\frac{1}{2}$ "# 20-40 + 600 SCF/bbl CO₂
4,200 gal Mini Max III-40 @ 1"# 20-40 + 600 SCF/bbl CO₂
5,796 gal Mini Max III-40 @ $1\frac{1}{2}$ "# 20-40 + 600 SCF/bbl CO₂
9,000 gal Mini Max III-40 @ $2\frac{1}{2}$ "# 20-40 + 600 SCF/bbl CO₂
9,000 gal Mini Max III-40 @ $3\frac{1}{2}$ "# 20-40 + 600 SCF/bbl CO₂
8,000 gal Mini Max III-40 @ $4\frac{1}{2}$ "# 20-40 + 600 SCF/bbl CO₂
13,000 gal Mini Max III-40 @ $5\frac{1}{2}$ "# 20-40 + 600 SCF/bbl CO₂
3,836 gal Mini Max III-40 @ $5\frac{1}{2}$ "# 10-20 + 600 SCF/bbl CO₂

Frac job screened out before pumping all 10-20 sand. Came back on line - pressured to 4000 psi. Shut down.

Max Press - 4000; Ave press 2900 @ 28 bbl/min.

Totals: 1386 gal Diesel
21,100# 10-20 sand
176,500# 20-40 sand
230# ammonium Nitrate
49 gal. Claymaster-3
16,100X KCL
56# B-5 breaker
58.25 tons CO₂
9 gal. FR-20
49 gal X-cide
97 gal. Aqua flow
69,804 gal. Mini Max III-40

Leave well shut in 5 hrs. Opened well up - unloaded small amount of gel fluid and sand. Left open over night.

- 1-11-81 Well Dead. Pick up 1½" tbg. Tag sand at 5335 RKB.
Reverse circulate out sand to 5595'. S.D.O.N.
- 1-12-81 S.D. - Sunday
- 1-13-81 Reverse circulating out sand to 6180'. Ran out of water.
S.D.O.N.
- 1-14-81 Reverse circulate out sand to PBD 6390'. Land tbg. w/
188 jts 1½" OD 2.3# V-55 IJ tbg. T.E. 6107.73 set at 6115'.
RKB. N.D. BOP. N.U. Tree. Shut well in. Rig down
Bedford pulling unit. Release rig at 3:30 p.m.
- 1-15-81 Tbg. - 0 Csg. 50 psi
- 1-17-81 Rig up Western Co. Nitrogen Service. Pump down csg. -
well wouldn't unload. Pump down tbg. Unloaded water.
Left well open over night.

Used 60,000 SCF of nitrogen at 2500 psi.
- 1-18-81 Well flowing by heads through csg. estimated 500 MCFGPD w/ water
and condensate. Shut well in.
- 1-19-81 Tbg. pressure 920 psi Csg. pressure 880 psi.
Opened to atmosphere through tbg. Left open overnight.