

WELL NO. 4 LEASE Gallegos Canyon UnitOPERATOR Benson & Montin

WELL DRILLING AND COMPLETION HISTORY

DATE	REMARKS
9-28-51	<p>9:00 PM After open 29 hours measured 58" water through 2" (900 MCF) Commenced loading hole through siphon line.</p> <p>10:30 AM Commenced running shot after killing well, pulling tubing, and cleaning out to bottom. Shooter checked casing shoe at 1546' and found total depth at 1616$\frac{1}{2}$'. Loaded hole with 140 qts liquid nitroglycerine from 1559$\frac{1}{2}$-1616$\frac{1}{2}$. Cave catcher and bomb 1557-1559$\frac{1}{2}$. Tamped with 4' gravel 1553-57 and 11' calseal below casing shoe and 54' calseal in casing.</p>
9-29-51	<p>8:00 AM Drilling calseal.</p> <p>9:00 AM Unloaded hole after drilling plug.</p>
9-30-51	<p>2:30 AM After open 5 hours: Measured 16$\frac{1}{2}$" through 2" (2550 MCF) and light spray of water.</p> <p>6:30 AM After open 9 hours, measured 16$\frac{1}{2}$" through 2" (2550 MCF) and light spray of water.</p> <p>12:00 N After open 14$\frac{1}{2}$ hours, measured 29" mercury through 2" (2350 MCF), water decreasing.</p> <p>2:30 PM After open 17 hours, measured 27" mercury through 2" (2250 MCF), water decreasing. Cleaned out to bottom.</p> <p>5:30 PM After open 20 hours, measured 25" mercury through 2" (2170 MCF) water decreasing.</p> <p>9:00 PM After open 23$\frac{1}{2}$ hours, measured 21" mercury through 2" (1980 MCF), making heavy spray of mud.</p>
10-1-51	<p>10:30 AM After open 37$\frac{1}{2}$ hours, measured 22" mercury through 2" (2040 MCF) very little water or mud. Some mud from between 5$\frac{1}{2}$" and 10-3/4" flowed out during night through open casinghead valve (Farmington). Shut Bradenhead valves. Broke down cable tools and rigged up to run siphon line.</p>
10-2-51	<p>12:30 PM Ran siphon line. Shut in for one hour, 12:30 to 1:30, and opened up through one 2" plug valve</p> <p>9:00 PM After open 72 hours, measured 18" mercury through 2" (1840 MCF), 35# casing pressure, no water. Shut in at 9:00 PM.</p>
10-3-51	<p>12:00 N Shut in casing pressure 400# s.g. Bradenhead pressure 25#.</p>
10-4-51	<p>12:00 N Shut in casing pressure 425# s.g. Bradenhead pressure 25#.</p> <p>12:30 PM Open up.</p> <p>7:00 PM Measured 28" through 2" (3000 MCF)</p>

California Canyon Unit
Benson & Montin

WELL LOGGING AND RECORDING

REMARKS

DATE

9:00 PM After open 29 hours measured 58" water through 2" (900 MCF)
Commenced loading hole through siphon line.

9-28-51

10:30 AM Commenced running shot after killing well, pulling tubing
and cleaning out to bottom.

Shooter checked casing shoe at 1516' and found total
depth at 1512'. Loaded hole with 110 lbs liquid
nitroglycerine from 1523'-1516'. Cave catcher and bomb
1527-1529'. Tamped with gravel 1523-27 and 11'
casing below casing shoe and 5' casing in casing.

9-29-51

9:00 AM Drilling casing.
9:00 AM Unloaded hole after drilling plug.

9-30-51

9:30 AM After open 2 hours: Measured 18 1/2" through 2" (2250 MCF)
and light spray of water.

9:30 AM After open 2 hours, measured 18 1/2" through 2" (2450 MCF)
and light spray of water.

12:00 N After open 1 1/2 hours, measured 19" mercury through 2"
(2350 MCF), water decreasing.

2:30 PM After open 17 hours, measured 20" mercury through 2"
(2350 MCF), water decreasing.
Cleaned out to bottom.

5:30 PM After open 20 hours, measured 21" mercury through 2"
(2170 MCF) water decreasing.

9:00 PM After open 23 hours, measured 21" mercury through 2"
(1980 MCF), making heavy spray of mud.

10-1-51

10:30 AM After open 3 1/2 hours, measured 22" mercury through 2"
(2040 MCF) very little water or mud.
Some mud from between 2 1/2" and 10-3 1/2" flowed out during
night through open casinghead valve (Lynchburg). Shut
bradenhead valves.
Broke down cable tools and pulled up to run siphon line.

10-2-51

12:30 PM Ran siphon line. Shut in for one hour, 12:30 to 1:30,
and opened up through one 2" plug valve
After open 72 hours, measured 18" mercury through 2"
(1810 MCF), 354 casing pressure, no water.
Shut in at 9:00 PM.

10-3-51

12:00 N Shut in casing pressure 100# a.g.
Bradenhead pressure 25#.

10-4-51

12:00 N Shut in casing pressure 125# a.g.
Bradenhead pressure 25#.

7:00 PM Measured 28" through 2" (3000 MCF)
Open up.