

TGT PETROLEUM CORPORATION

COMPLETION REPORT

CURTIS #1 (washdown)
C SW SW Sec. 15-27S-17W
Kiowa County, Ks.

1982

May 6 Move in and rig up. Start swabbing down.

May 7 Run cement bond log and correlation log. Perforate 4953'-57', 4 shots per foot SSB (Simpson Sand). Let set $\frac{1}{2}$ hr. Recovered 3 bbl. water. Shut down for weekend.

May 8 Shut down.

May 9 Shut down.

May 10 1900' fill up - all salt water. Set bridge plug at 4838'. Bridge plug set 100' too high. Drill out bridge plug. Set new bridge plug at 4938'. Perforate 4914'-20', 4 shots per foot SSB (Simpson Dolomite). Let set $\frac{1}{2}$ hr. No fluid. Perforate 4920'-24', 4 shots per foot. Let set 45 min. Rec. 75 gal. of muddy water. Half hour tests as follows:

1st $\frac{1}{2}$ hr. 30 gal. water
2nd $\frac{1}{2}$ hr. 30 gal. water
3rd $\frac{1}{2}$ hr. 30 gal. water

Shut down for night.

May 11 Set bridge plug at 4730'. Perforate 4687'-92', 4 shots per foot (Kinderhook Sand). Let set $\frac{1}{2}$ hr.

1st $\frac{1}{2}$ hr. 5 gal. fluid
2nd $\frac{1}{2}$ hr. 2 gal. fluid
3rd $\frac{1}{2}$ hr. Nothing

May 12 Run swab. No fluid recovered - 250' gas. Acidize/w/250 gal. 15% reg. acid. Increase pressure to 2000#. Let set 15 min. Dropped to 1500#. Start increasing pressure to 1900#, broke to 1000# at $\frac{1}{4}$ bbl. per min. Displace 2 bbl. into formation at $\frac{1}{4}$ bbl. per min. Increased rate to 2 bbl. per min. Pressure increased to 1050#, then broke to 1000# for remainder of treatment. 1 bbl. overflush. Total load 122 bbl. ISIP 850#, 5 min. 500#, 10 min. 450#. Shut in - bleed pressure off and start swabbing back. Rec. 116 bbl. on swab down. Let set $\frac{1}{2}$ hr. Run swab. No fluid recovered - 600' of gas. Test as follows:

$\frac{1}{2}$ hr. - 2 gal. fluid - 600' gas
 $\frac{1}{2}$ hr. - no fluid - 600' gas
 $\frac{1}{2}$ hr. - no fluid - 600' gas
1 hr. - no fluid - 900' gas
1 hr. - no fluid - 900' gas
1 hr. - no fluid - 900' gas

1982

May 13 Had gas venting from the pipe. Swab well down. Rec. 1 bbl. fluid/w/trace of oil. Swab test as follows:

1st hr. - no fluid - 900' gas
2nd hr. - no fluid - 900' gas
3rd hr. - no fluid - 900' gas
4th hr. - no fluid - 900' gas
5th hr. - no fluid - 900' gas

May 14 Ran swab. Rec. 12' gassy fluid/w/show of oil. Gas venting out top. Ran tubing with Monolar Packer with BT tube below the packer to take 72 hr. shut in pressure. Packer set at 4650'.

May 15 Shut down.

May 16 Shut down.

May 17 72 hr. shut in pressure - 752#, 36 hr. shut in pressure - 437#. Swab well down. Rec. 30 gal. fluid/w/trace of oil. Set bridge plug at 4390'. Perforate 4352'-56', 4 shots per foot. Let set $\frac{1}{2}$ hr. Found 400' of fluid in hole. Pull swab. Go back to bottom, found 500' fluid in hole. Shut down for night.

May 18 Go in hole with swab. Found fluid 1300' down from top. Set bridge plug at 4346'. Perforate 4324'-26', 4 shots per foot. Swab hole down. No fluid recovery. Swab 4 additional hours. No fluid recovery.

May 19 Swab hole down. Rec. 70 gal. water. Acidize/w/250 gal. 15% MCA. Formation broke at 1200#, leveling out at 1050#. Increased rate to 2 bbl. per min. Broke to 650# and stayed there for remainder of treatment. ISIP 600#, 5 min. 400#, 10 min. 275#. Total load 113#. Swab well down. Rec. 107 bbl. fluid. Swab test as follows:

1st $\frac{1}{2}$ hr. 1 $\frac{1}{2}$ bbl. water
2nd $\frac{1}{2}$ hr. 1 $\frac{1}{2}$ bbl. water
3rd $\frac{1}{2}$ hr. 50 gal. water
4th $\frac{1}{2}$ hr. 50 gal. water

Perforate 4270'-72', 4 shots per foot. Swab well down. Swab test as follows:

1st $\frac{1}{2}$ hr. 65 gal. water
2nd $\frac{1}{2}$ hr. 85 gal. water

MAY 31 2001

Rig up perforator. Perforate 4204'-08', 4 shots per ft. Swab well down. Let set $\frac{1}{2}$ hr. Go in hole with swab. Had 550' of water. Let set $\frac{1}{2}$ hr. Had 700' of water. Set bridge plug at 4170'. Perforate 4134'-40', 4 shots per foot. Run swab. Rec. 20 gal. water. Let set $\frac{1}{2}$ hr. Run swab. Rec. 22 gal. of water. GTS in 40 min.

CONSERVATION DIVISION

1982

May 19
(cont.)

Gauge as follows:

<u>Plate Size</u>	<u>Minutes</u>	<u>MCF</u>
$\frac{1}{4}$ "	5	20.7
	10	29.9
	15	35.9
	20	42.4
	25	47.9
	30	51.8
$\frac{3}{8}$ "	75	119.0

Shut down for night.

May 20

8:00 AM. Had 202 MCF. Switch to $\frac{3}{4}$ plate, had 303 MCF. Run swab.
Rec. 9.16 bbl. salt water. That is 15 hr. accumulation.
Swab test as follows:

1st hr. - 55 gal. water
2nd hr. - 20 gal. water
3rd hr. - 20 gal. water

60 min. open flow test thru $\frac{1}{2}$ " plate.

10 min. - 231 MCF
20 min. - 290 "
30 min. - 311 "
40 min. - 323 "
50 min. - 328.5
60 min. - 331 "

Shut in pressure as follows:

15 min.	-	130
30 "		210
45 "		290
60 "		370
1 hr 15 "		450
1 hr 30 "		525
1 hr 45 "		600
2 hr		675
2 hr 15 "		745
2 hr 30 "		800
2 hr 45 "		850
3 hr		900
3 hr 15 "		950
3 hr 30 "		995
3 hr 45 "		1030
4 hr		1065
4 hr 15 "		1090
4 hr 30 "		1110
4 hr 45 "		1130
5 hr		1145

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May 20 Take sample of gas to be analyzed. BTU's 827. Shut well in.
(cont.)

May 21 18 hr. shut in pressure 1260#. Swab well down. Rec. 7 bbl. water
(.16 BWPH). Flow well thru 3/4" plate beginning at 10:00 AM.

10 min.	279	MCFPD
20 min.	347	"
30 min.	347	"
40 min.	370	"
50 min.	384	"
60 min.	398	"
70 min.	411	"
80 min.	424	"
90 min.	424	"
100 min.	424	"
110 min.	424	"
120 min.	424	"
120-300 min.	424	"
300-600 min.	424	"
600-1320 min.	424	"

May 22 Flowing at 424 MCFPD 8:00 AM. Well flowed at the rate of 424 MCFPD
from 8:00 AM to 2:00 PM. Shut in well for pressure build up.

May 23 18 hr. pressure build up was 975#.

May 24 44½ hr. shut in pressure 975#.

May 25 Casing pressure 975#.

May 26 Casing pressure 975#.

May 27 Casing pressure 975#.

May 28 Casing pressure 975#.

May 29 Casing pressure 975#.

May 30 Casing pressure 975#.

May 31 Casing pressure 975#.

June 1 Release pressure on well. Go in hole with swab. Swab well down. Rec. 20
bbl. salt water (fluid level 850'). Flow well thru 3/4" plate as follows:

15 min.	461	MCF	90 min.	480	MCF
30 min.	480	"	105 min.	480	"
45 min.	487	"	120 min.	480	"
60 min.	480	"			
75 min.	480	"			

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June 1 (cont.)	Swab well down. Rec. 1 bbl. salt water. Shut well in take 18 hr. shut in pressure.
June 2	18 hr. shut in pressure - 1320#.
June 3	42 hr. shut in pressure - 1320#.
June 4	60 hr. shut in pressure - 1320#.

We are beginning negotiations to find a market for this gas. You will be kept advised as to the progress.

End of report.