

L. W. WARD NO. 4 - WELL RECORD

TOTCO SURVEYS:

142 - 1/2 deg.	6780 - 1-1/2 deg.
315 - 1-1/4	6940 - 1
577 - 1	7090 - 3/4
826 - 1/2	7225 - 1-1/4
1075 - 1/4	7345 - 1-1/4
1375 - 3/4	7450 - 1-1/4
1535 - 3/4	7510 - 1-1/2
2150 - 1/2	7670 - 1-1/2
2400 - 1	7750 - 1-1/4
2789 - 3/4	7905 - 1-1/2
3700 - 1-3/4	8050 - 2-1/2
3910 - 1	8208 - 2-1/2
4012 - 3/4	8340 - 2
4261 - 3/4	8470 - 2-3/4
4420 - 1/4	8555 - 2
4715 - 3/4	8665 - 1-3/4
4910 - 3/4	8915 - 1-3/4
5075 - 1/2	9010 - 2
5215 - 1/2	9100 - 2-1/4
5417 - 1/2	9170 - 1-3/4
5670 - 1/4	9230 - 2
5860 - 1/2	9265 - 2
6030 - 3/4	9300 - 2
6245 - 1	9340 - 1-3/4
6365 - 1	9430 - 2-1/4
6620 - 1	9615 - 2

DRILL STEM TESTS:

DST #1- 9400-9620', 4 hr. test, 4" drill pipe, 5/8" bottom & 1" top chokes. Opened tool with good blow of air decreasing to weak blow in 2 hrs. and continuing weak blow for remainder of test. Recovered 6674' dry pipe, 1410' gas in drill pipe, 1065' heavy oil & gas cut mud, 15% oil. Recovered from below TC Valve- 141' gas in drill pipe & 77' heavy oil & gas cut mud. No show of water. Hydrostatic pressure in 4675#, out 4600#. Initial flow pressure 200#, final 1500#. 1/4 hr. buildup 1700#.

DST #2- 9620-9645', 3 hr. & 15 minute test, 4" drill pipe, 5/8" bottom & 1" top chokes. Opened tool with strong blow of air. Gas to surface in 4 minutes, mud in 13 minutes & oil in 15 minutes. Turned well to tank & flowed as follows:

TIME	BHLS OIL	BHLS BS	BHLS MUD	GAS VOLUME
5:30-6:30 am	48.51	.10	.34	1,230,000 cu. ft. per day
7:30	59.06	.19	0	1,230,000
8:30	53.76	.11	0	1,230,000

Closed tool & reversed out 44.13 bbls. oil with 3.4% BS & no water. Recovered from below TC Valve- 279' oil with 3% BS & no water. Hydrostatic pressure in 4690#, out 4660#. Initial flow pressure 1190#, final 2260#. 1/4 hr. buildup 3240#.

