

CITIES SERVICE OIL COMPAN.  
GOVERNMENT Z WELL NO. 1  
SEC. 23-T20S-R28E  
EDDY COUNTY, NEW MEXICO

DST No. 1: 9230-9300' (70') Wolfcamp, 5/8" BHC, no wtr cushion. Tool opened for 105 min w/good blow. Gas to surface in 10 mins, 1" ch. Max surface flowing press 34# decreasing to 24# in 105 mins. Max gas volume 561.3 MCFD in 20 mins decreasing to 417.9 MCFD in 105 mins. Rec 870' distillate 47.1 API at 60 degs and 90' brine wtr 155,000 ppm chlorides. Pit sample 147,000 ppm chlorides. Sample chamber at 9205' contained 260 cc condensate 47.1 API at 60 degs and 2 cu ft gas at 0 press. BHP's as follows:

	<u>Top Chart at 9288</u>	<u>Bottom Chart at 9294</u>
IMCP	4763#	4777#
15 min IF	196-235#	157-170#
90 min ISIP	4725#	4661#
90 min FF	235-362#	247-299#
90 min FSIP	4593#	4532#
FMCP	4750#	4777#
BHT	150 degs F	

DST No. 2: 11,040'-11,250' (210') Morrow Sd, 5/8" BHC. 1250' water blanket. Tool opened at 1109 hrs MDT 8/1/74 for 100 minute flow period. Good blow immediately with water blanket to surface in 10 min. Gas to surface in 15 min. Last 60 min flowed gas at rate of 4000 MCFD increasing to stabilized rate of 6100 MCFD, 21/64" choke, flowing DPP increased from 2100# to stabilized pressure of 2400#. Produced 2 bbls distillate and 0 water in last 60 min flow period. Recovered 300' water, 91,000 PPM chlorides w/ res. 0.12 at 77 degrees. Pit sample 175,000 PPM chlorides w/ res. .16 at 90 degrees. Sample chamber at 11,013' contained 40 cc water, 89,000 PPM chlorides w/ res. 0.19 at 79 degrees and 20.5 cu. ft gas at 2600#. BHP chart at 11,238 did not register. BHP chart at 11,244:

IMCP	5973#
10 min preflow	1700-2009#
90 min ISIP	4522#
90 min final flow	1512-3595#
90 min FSIP	4495#
FMCP	5919#
BHT	177 Degrees F

RECEIVED  
AUG 8 1974  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO