

SOUTHERN PRODUCTION COMPANY, INC.

SUMMARY OF DRILL STEM TESTS

#1 STATE "A"

ECHOLS FIELD, LEA COUNTY, NEW MEXICO

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DST #1

Two Johnston packers, 7" O.D. X 30" Long, testing in 7-5/8" open hole, 4-1/2" I.F., 16.60# drill pipe, botoom packer at 11615', total depth, 11651, testing 36', set 20,000# on packer. 5/8" bottom choke and 1" top choke. 2600' water cushion, tool open 11:03 P.M., 1/31/52, w/good blow, strong steady blow throughout test, tool open 1 hour, shut in at 12:05 A.M., 2/1/52, for 15 minutes bottom hole static build-up. No surface pressure recorded. Hit fluid after pulling 3780' of drill pipe.

RECOVERY:

Water cushion	2600'
Gas cut mud	5125'
Oil & Gas cut rat-hole mud	110'
Total fluid recovered	7835'

Oil is green in color, w/foul odor.

BOTTOM HOLE PRESSURE BOMB DATA:

Initial hydrostatic pressure	5875 psi
Initial and minimum bottom hole flowing pressure (flowed for 20 minutes)	2325 psi
Bottom hole flowing pressure (flowed for total of 1 hour)	2875 psi
Final and maximum bottom hole flowing pressure	3300 psi
Shut in 15 minutes:	
Bottom hole shut in pressure	4625 psi
Final hydrostatic pressure	5875 psi

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DST #2

Two Johnston 7" O.D. X 30" Long, packer, on 4-1/2" I.F. 16.60# drill pipe, testing in 7-5/8" open hole, bottom of packer 11646', T.D. 11676', testing 30', set 25,000# on packer, 5/8" bottom choke, 1" top choke. 2550' water cushion. Tool opened at 7:52 A.M., 2/3/52, w/good blow, steady slightly increasing blow throughout test, no surface pressure reading on a 300# gauge. Tool open 1 hour, shut in at 8:52 A.M. for 15-minute bottom hole static build-up. Hit fluid after pulling 5370' of drill pipe.

RECOVERY:

Water cushion	2550'
Gas cut oil	3456'
Gas & Oil cut drilling mud	300'
Total fluid recovered	6306'

BOTTOM HOLE PRESSURE BOMB DATA:

Initial hydrostatic pressure	6000 psi
Initial and minimum bottom hole flowing pressure (flowed for 30 minutes)	1375 psi
Bottom hole flowing pressure (flowed for a total of 1 hour)	1975 psi
Final & maximum bottom hole flowing pressure	2550 psi
Shut in 15 minutes:	
Bottom hole shut in pressure	4600 psi
Final hydrostatic pressure	6000 psi