

160

960

175-31W

WEST MANNING PROSPECT
T 17S, R 31W
Scott County, Kansas

John J. Rupnik
730 Beacon Bldg.
Tulsa 3, Okla.

LOCATION:

Six miles north of the Keystone pool; six miles east of the Newby pool; nine miles northeast of the town of Scott City; two miles north of the abandoned one-well Durrant field.

ACREAGE:

160 acres in a 160 acre checkerboard in Sections 16, 17, 18, 19 and 20 as shown on the attached plat. Term of leases = 4 years, or more.

Other acreage was open on the play at last check.

PRODUCTION STATISTICS - on nearby fields:

KEystone POOL:

Cumulative production from 1950 to present - 284,749 bbls from 3 wells, out of Lansing-Kansas City.

Two wells on the Reuter lease has produced 148,167 bbls since December, 1950 and they are still producing 13 BOPD.

One well on the Chance lease has produced 136,582 bbls since February, 1951 and it is still producing 23 BOPD.

NEWBY POOL:

Opened in 1960. It has produced 3450 bbls from the Lansing-Kansas City thru 1960 from one well.

Note: The GRIGSTON POOL, in T 19S, R 31W, has produced 32,903 bbls out of the Mississippi and the ~~Arbuckle~~ thru 1960.

GEOLOGY:

This prospect is in an area of Lansing, Marmaton, and Mississippi production (and also some Arbuckle). Sufficient drilling has been done on the prospect to set up critical northwest, west, southwest and south dip on the flanks which, together with nearby regionally-located wells, establishes a very long anticlinal structure with a northeast-southwest axis. This structure is present on the Stone Corral Anhydrite, on the Lansing limestone, and on the Mississippi limestone. An isopachous map for the Anhydrite-Mississippi interval demonstrates marked thinning on structure. Electric log picks were used for these various tops.

Results from a seismic survey, when adjusted for velocity distribution, and when referred to the Anhydrite as a reference surface, fit the subsurface data very well. This survey was partly continuous and partly correlation type shooting. The Anhydrite and the Lansing reflections were best, and the accompanying map which incorporates the shooting is for the Lansing.

Two wells are of principal interest because of oil and gas shows:

IMPERIAL No. 1 SEE, SW NE NW Section 19, 17S-31W.

Drillstem tests in the Lansing-Kansas City (3875' deep):

3968-80, op 1 hr, rec 60' hvy O&GCM; BHP 1000#.

3986-95, op 1½ hrs, rec 490' SW, BHP 1110#.

4017-35, op 1 hr, 125' oil & OCM; BHP 0#.

4126-44, op 1 hr, rec 25' OCM, BHP 0#.

OWLL

4220-25, op 1hr, rec 30' mud, BHP 800#.

4228-70, op 45 min., rec 189' SW & 2151' Sul wtr, FP 1140#, BHP 1170#.

Drillstem tests in the Marmaton (4321' deep):

4385-4483, op 1 hr, rec 365' gas, 30' hvly OCM & 100' Sl GCM, BHP 960#.

4473-85, op 1 hr, rec 10' mud, BHP 0#.

Top of Mississippi at 4584, with TD at 4685'.

TESTING:

Perforate 4618-23; no recovery.

Perforate 4402-12, 500 GA, swb 16 BO 10 hours; 5000 GA, swb 21 BO in 10 hours.

Perforate 4176-80, 250 GA, swb 8 BWPH.

Perforate 4027-32, 500 GA, swb 30 BWPH;

Perforate 3974-77, 500 GA, swb 60 BWPH;

Squeezed all but 4402-12, but could never control the water.

Finally D & A. (Drilled in 1952).

BELL No. 1 DURRANT, c SE NW Section 30, T 17S, R 31W, drilled in 1961 (Opened the Durrant field).

Top of Kri 2787,

2744-2805, op 20 mins, rec 15' mud.

Top of Lansing 3969 & base Kansas City 4365'.

4362-4438, op 2 hrs, rec 1200' muddy SW, FP 85-620, SIP 1165-1032/30 mins.

Top of Marmaton 4377',

Top of Cherokee 4550',

4502-35, op 1 hr, rec 10' OCM, plus 1 gal free oil, FP 20-20, BHP 695-40/30 mins.

Top of Mississippi 4647',

4652-77, op 1 hr, rec 570' free oil, 90' muddy oil, 30' OCM, 310' gas, FP 95-310, BHP 1125-940/30 mins.

4677-92, op 1 hr, rec 120' muddy wtr, 300' muddy SW, FP 25-190, BHP 1233/30 mins.

TESTING:

Set 8 5/8ths at 269'; set 5 1/2 at 4724. (TD was 4725').

Perforate 40/4650-60, swb 1 1/2 BOPH, A/250 gals, swb 2 1/2 BOPH; A/250, swb 2 1/2 BOPH & 12 BWPH, oil decreased to 1.37 BOPH; sqzed (50 sax); Re-perf 4/4653-58', A/250, A/750, swb 8 1/2 BOPH, cut 28 to 30% water.

Produced less than 1000 bbls oil; now abandoned due to excessive water.