1-31-3W

GEOLOGICAL REPORT

NO. 1 HARE "A"

Location:	NW NW SW Sec. 1-31S-3W, Sumner County, Kansas
Operator:	Jones-Gebert Oil Co.
Total Depth:	3365'
Elevation:	G.R. 1291'; D.F. 1294'; R.K.B. 1295'
Commenced:	Spud March 28, 1960
Completed:	April 13, 1960
Contractor:	Twin Drilling, Inc.
Casing:	8 5/8" @ 201' w 160 sax; 4½" @ 3364' w 100 sax
Logs:	Welex Radioactivity Guard Log Casing Collar Perforating Log
Shows:	Oil staining and free oil from 3308-14'
Perforations:	4 jets per ft. 3309-12' (12 holes)
DST:	No. 1, 3304-15', rec. 30' heavily oil cut mud & 240' free oil in one hr., BHP 775-660, FP 50-100
Tops:	Kansas City 3170' (-1875); Pay Zone 3308' (-2013)
State Potential:	May 10, 1960, 51 bbl. oil, + 15% wtr., 24 hrs.
Summary:	The lease on which this well was drilled is an 80 acre tract (N/2 SW/4 of Sec. 1-31S-3W) which was a farmout from The Pure Oil Co. It is located in the Northwest Moyer Pool, which is productive from the Kansas City lime formation at a depth of approximately 3310'. The pay section in the No. 1 Hare "A" was six feet in thickness and consisted of limestone with intergranular and oolicastic porosity; it had good oil staining and shows of free oil.

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Completion was made by perforating from 3309' to 3312' with 4 jets per foot and treating with 3500 gallons of acid. Productivity of this well is not as great as Shawver-Armour's wells offsetting to the west, which is probably due in part to lower bottom hole pressure.

We recommend that this well be observed for a minimum of ninety days before additional locations are considered.

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DAILY DRILLING LOG

March 29	Spud March 28, Drld. 201'; set 8 5/8" csg. @ 201' w 160 sax; W.O.C.
March 30	Drlg. 570'
March 31	Drlg. 1135'
April 1	Drlg. 1859'
April 2	Drlg. 2525'
April 3	Drlg. 3040'
April 4	Drld. to 3315'; pay zone 3308-14'; top KC 3170'(-1875)
April 5	Drld. to 3315'; ran DST #1 3304-15'; rec. 30'HOCM, 240 free oil 1 hr.; BHP 775-650; FP 50-100; Drld. to 3365' TD; Rn'g 4 1/2" csg.
April 6	Set 4 1/2" J-55 csg. @ 3364' w 100 sax Pozmix cmt. P.B. 3333'; W.O.C.
April 7	W.O.C.
April 8	Moving in completion unit, rig up.
April 9	Welex ran Gamma Ray - collar log; perf. 4 jets/ft. 3309-12' (12 holes); bail 1 gal. muddy oil per hr.; treat with 500 gal. mud acid; after swabbing load water, swab 7.5 bbls. oil 1st hr., 2.5 bbls. oil next 1/2 hr.
April 10	Had 860' oil fillup in 12 hrs., swab 1.67 bbl. oil per hr. for 3 hrs.; treat with 1000 gal. gel acid; swab 26 bbl. oil in 3 hrs.
April 11	Had 600' oil fillup in 12 hrs., decreasing to 2 bbl. oil per hr.; gel acid may not have broken (little acid gas or acid water return).
April 12	Had 400' oil and water fillup in 12 hrs.; treat with 2000 gal. 7 1/2% acid, 30 gal. 7-11 (detergent), and 15 gal. J-110 emulsion breaker; 110 bbl. load + acid; swab 119 bbl. in 9 1/2 hrs.; 50% oil, 50% acid & load water. After load return, swab 3 1/2 BOPH.
April 13	400' fillup, swab 9 BO in 20 min.; rn'g tb'g & rods; tb'g anchor at 3328'; 22' tb'g anchor, 2" perf. nipple, 1' seating nipple; 4' gas anchor on pump; seating nipple @ 3303'; pumping from 3307', (5'7" oil in tank, 112 bbls.); tb'g is 2" reg., rods 5/8"; well head is installed; pump is 1 1/2" Obannon insert type with 6' barrel.
April 19	Build road & tank base.
April 20	Set Parkersburg 57 Jack, 34" stroke, 12/min., 1½" insert pump, start pumping 5:00 P.M.
April 21	Pumping in gunbarrel.
April 22	1'8" in tank.
April 23	3'8" in tank 40 bbl. Completed April 13, 1960.