T. 9 R. 15W Sec. 34

WARD F #1

6/28/68 Drilling well released
Staked 660' from south line 660' from east line Sec. 34-9S-15W, Osborne County, Kansas. Gr. Elev. Approx. 42' higher than Veail's Finnesy #1.

6/29/68 Made road crossing and fence gate from Co. road

6/30/68 Leveled location and dug pits Peel Bros. Drilling Contractor

7/1/68 Pits complete - waiting on rotary

7/2/68 Location - Moved in some rotary equipment

7/3/68 W.O.R. Approx. G.L. Elev. 1262'

7/4/68 Waiting on rotary

7/5/68 Waiting on rotary

7/6/68 Waiting on rotary

7/7/68 Rotary to move in today

7/8/68 M.I.R.U.T. Started tour 7 A.M. 7/8
Digging rat hole

7/9/68 Finished digging rate hole. Spudded 12¼" hole at 9:30 A.M 7/8
Drilled to 253 Ran 11 Jts. 8 5/8" OD 32# used casing and set at 253'
Cemented with 200 sacks Reg. cement plus 2% calcium chloride.
Pumped plug down to 233' 6 P.M. 7/8 Cement circulated W.O.C. at 7 A.M

7/10/68 Started drilling 7 7/8" hole 6:15 A.M. 7/9 Drilling at 1915' shale Anhydrite 1197-1233

7/11/68 Drilling at 2364 shale Making trip Quick on location

7/12/68 Drilling @ 2708' Lime & Shale - making trip Mud 36 Visc. Wt. 9.9# No W.L.

7/13/68 Drilled to 2959 Topeka Mud Wt. 10.2 W.L. 15.2 CC Vis. 35
Laughlin & Simmons Elev. 1961 GL RKB = 1969'
Top of Topeka 2894 (-925) 10' low to Veail well
DST #1 2924-2959 Test Topeka by Howco
Open 1 hr; closed 1 hr; open 1 hr; closed 1 hr.
Air to surface immediately - strong blow thru test.
Rec. 1200' muddy salt water

ISIP	1257#
IFP	500#
FFP	537#
FSIP	1257# H.H. 1825#

7/14/68 Drilled to 3118 Topeka Mud Vis. 40 Wt. 10# W.L. 8 CC
DST #2 3101 to 3118 (17') Test Topeka by Howco
Open 1/2 hr; closed 1/2 hr; open 1/2 hr.; closed 1/2 hr.
Weak blow thru test
Recovered 90' muddy salt water

ISIP	1137#
IFP	14#
FFP	64#
FSIP	1110# H.H. 1619' Resumed drilling

7/15/68 Drilled to 3239 LKC Mud No report
Preparing to take DST #3 3195-3239 LKC (44')
Top Heebner 3131 (-1162)
Toronto 3155 (-1186)
LKC 3184 (-1215) 12' lower than Veail #1
2' lower than Ward E #1

7/16/68 Drilled to 3291 Lime Mud Visc. 38 Wt. 9.6# W.L. 9.6 CC
DST #3 3195-3239 (44') LKC by Howco
Open 1/2 hr; closed 1/2 hr./ opened 1/2 hr; closed 1/2 hr.
Weak to strong blow throughout test
Recovered 90' oil specked mud
240 very heavy oil and gas cut mud W/some free oil

ISIP	1037#	
IFP	37	
FFP	157	
FSIP	1017	H.H. 1684#

DST #4 3240-91 (51') LKC by Howco
Open 1/2 hr; closed 1/2 hr; open 1/2 hr; closed 1/2 hr.
Very weak blow throughout test
Recovered 65' oil specked muddy water

ISIP	1036#	
IFP	32	
FFP	66	
FSIP	989	H.H. 1703#

Going back in hole to drill ahead

7/17/68 Drilling @ 3405 Lime Mud Vis 47 Wt. 9.7# W.L. 7.6 CC
DST #5 3311-56 (45') Test LKC by Howco
Open 1/2 hr; closed 1/2 hr; open 1/2 hr; closed 1/2 hr.
Very weak blow 1st 30 min. No blow 2nd 30 min.
Rec. 30' rotary mud W/few specks of oil

ISIP	269#	
IFP	37	
FFP	41	
FSIP	255	H.H. 1759#

7/18/68 Drilled to 3490 FRTD Mud Vis. 41 Wt. 9.7# W.L. 8 CC
Base of LKC 3470 (-1501)
DST #6 3373-3420 (47') Test LKC by Howco
Open 1/2 hr; closed 1/2 hr; open 1/2 hr; closed 1/2 hr.
Very weak blow 1st 30 min. No blow 2nd 30 min.
Recovered 15 rotary mud NSO

ISIP	667#/30 min.
IFP	37#
FFP	37#
FSIP	625/30 min. H.H. 1805#

Preparing to log well at 7 A.M.

7/19/68 RTD 3490' Ran Schlumberger Formation Density Log and Dual Induction Lateral Log Ran drill pipe and conditioned hole for 1 hr.
Laid down drill pipe Ran 109 Jts. 3508.95 5½ OD 14# J-55 casing A grade
Set casing at 3489' D.V. tool at 1212'
Cemented bottom stage W/150 sacks salt sat.
Pozmix S.D. 4 hrs. Opened D.V. tool at 1212 and cemented W/400 sacks Howco light cement - cement circulated good
Plug down 2:15 A.M. 7/19/68 Shot Joint 30.71' W.O.C. 7 A.M.

7/20/68 W.O.C. Will move out rotary today

7/21/68 Moved out rotary tools

7/22/68 W.O.C. moving in cable tools (Hayes tools) today

7/23/68 MIRUCT (Hays Drilling Co.) Bailed hole to DV Tool
Ready to drill Repairing cable tool unit (U-Joint)

7/24/68 Finished drilling D.V. tool at 1212' and C.O. to 3455' PBTD
R.U. Lane Wells - Ran GRN and Cement Bond Log
Top of cement 2956'
Bailing hole at 2000'

7/25/68 RTD 3490; PBTD 3455 Bailed hole 2000' to 3451'
Tested casing - casing tested dry Rigged up Welex and perforated
10 Shots 3228-33
1st 1/2 hr. Bailed 1/2 gal. water W/Rainbow shoe oil
2nd 1/2 hr. Bailed 1/2 gal. water W/good show oil
6 Shots 3215-18
1st 1/2 hr. bailed 1/2 gal. water W/show oil
2nd 1/2 hr. bailed 1 gal. water W/good show oil
3rd 1/2 hr. bailed 1 gal. oil W/trace water
S.D. to move out cable tools - move in pulling unit
Set unit; run tubing and acidize

7/26/68 F.U. 14 hours (O.N.) 32' fluid All oil W/Tr. water
Moved out tools - setting pumping unit Run tubing and treat

7/27/68 Connecting test tanks and setting unit
7/28/68 To acidize well 7/29
7/29/68 To acidize today

7/30/68 Ran 2" tubing W/2 x 8' wkg. bbl. open end To 3238'
Loaded hole W/water Spotted acid on bottom
Raised tubing to 3177' Acidized zones 3215-18 and 3228-33
With 2000 gal. 15% CRA acid W/15 ball sealers
Max. Tbg. press. 800#
Min. " " 600#
Injection Rate 3.4 bbl/min.
Treating time 18 min.
ISIP was 100#
Checked 4 hrs. later still 100#
Left tubing and casing S.I. overnight
Total load and flush 150 bbls.
Will run rods and put on test today

7/31/68 Ran rods W/1 3/4V and put well on test 21 SPM 42"S 1 3/4 V

8/1/68 130-140-24 Tank test 10 bbl. treating fluid to recover. 21 SPM 42"S 13/4V Pounding slowed down to 16 SPM 42"S 1 3/4 V

8/2/68 122-3-24 hrs. Short 7 bbl. water 16 SPM 35"S 1 3/4V
Built tank grade- will get 12 x 16 GB from
Lewis B 2 - 12 x 12 tanks from whse. Sold oil tp Perm.

8/3/68 103-3-24 T.T. Pounding 4 bbl. water short 16 SPM 27S 1 3/4V

8/4/68 93-3-24 T.T. Pounding Short 1 bbl. water

8/5/68 85-2-24 hrs. TT 1 bbl. new water To schedule state potential

8/6/68 79-1-24 T.T. State potential test Scheduled 11 A.M. 8/7/68

8/7/68 69-1-24 T.T. To start State Potential today at 11 A.M.

8/8/68 73-2-24 P.O.T.T. On State test Come off at 11:30 A.M.

8/9/68 68-2-24 State Potential COMPLETE Round Mound Pool Osborne County
Allowable 60 bbls/day.