RECOMPLETION PROCEDURE 5/5/83 PJ

CARLSON B-1 #2
AFE #

Problem: Well was TA in 1974. The B.L.M. has ordered to test the integrity of the wellbore. Condition of the wellbore and downhole equipment is unknown.

Objective: (1) Determine mechanical condition of wellbore and downhole equipment.

(2) Production test North Justis Glorieta formation. Abandon zone if noncommercial.

(3) Attempt recompletion in the Langlie Mattix Pool and/or the Jalmat Pool.

(4) P & A if well is noncommercial.

Well Data: See attached Well Data Sheet.

D. F. elev.	3129'
D. F. to G. L.	9.5'
Surface Casing.	8 5/8" OD 32# & 24# @ 980' w/ 500 sx. cmt.
Production Casing.	5 1/2" 14# J-55 @ 3407' w/300 sx. cmt. TOC 2085'
Liner.	4" OD 11.6# & 10.46# N-80 from 3193' to 5098' w/ 85 sx. cmt. Est. drift 3,351"
TD	5100'
TBG.	3-15-65 - 2" 4.7# @ 5000'
Down Hole Equip.	Unknown.

Procedure:

(1) Deliver 174 jts. 2 3/8" OD 5.95# N-80 Atlas Bradford DSS-HT Tbg. to location. Recommended make up torque, 1700 ft - lb. which corresponds to about 640 psi for B. J. Tbg. Tongs.

(2) Double valve csg. and tbg. and check pressure.

(3) Record SI fluid level.

(4) Vent tbg. to fenced pit through a portable tester. Record oil, water, gas, tbg. pressure, csg. pressure and oriface size. Record final fluid level.

(5) If well appears productive in present North Justis Glorieta Pool, set test tank as needed and test for one to seven days. If water is produced, have the water analized for formation source and scaling tendancies. Use Martin Water Labs.

(6) Place frac tank w/ 300 bbls. 2% KCL water.

(7) MI and RU pulling unit.

(8) Rig up BOP w/ blind rams and 2 3/8" tbg. rams and stripper.

(9) Strap OOH w/ tbg. and down hole equipment.

(10) RIH w/ 3 1/8" bit, bit sub, 3 1/8" csg. scraper and 2 3/8" OD Atlas Bradford tbg.

(11) Tag PBTD. CIBP shown at 5015' D.F. If junk in hole is above 4900', clean out well and send recovered scale for analysis. Do not spend more than 3 days on fishing and clean out efforts.

(12) RIH w/ 4" pkr. to 3400' and pressure test casing to 800 psi. If minor casing leaks are found above 2300', attempt a csg. repair by cmt. squeeze.

If major casing repairs are needed and well has not shown promise of commercial production, shut in well pending P & A.

If minor casing leaks are found below 2300', ignore them and continue procedure.

(13) Swab test well.

(14) Place well on flowing test if well appears productive.

(15) Take water sample for analysis if sample not taken earlier or if well conditions are changed.

(16) POOH w/ tbg. and BHA.

(17) If Glorieta shows promise of commercial production we will stimulate as needed and place well on long term test.

(18) If Glorieta proves non commercial set a CIBP @ ~~4700~~ 4775'. Place two sacks cmt. on CIBP.

(19) RIH w/ tbg. to 4000' and reverse circulate tbg. and wellbore clean w/ 2% KCL water.

(20) Pull up to 3340' and spot 250 gal. double iron inhibited 15% NE FE HCL w/ silt suspender & surfactant (Est. spot from 3340' to 3017').

(21) Ru wireline unit and perforate 43 les at 1 SPF, top and bottom, with a 3 1/8" OD hollow steel carrier loaded with J.R.C. SSB II charges. Shoot the following intervals from top to bottom and with 120° phasing.

3240-50	11 holes
3258-66	9 holes
3272-76	5 holes
3308-18	11 holes
3332-38	7 holes

(22) RIH w/ RBP, Pkr., SN, and 2 3/8" tbg. and straddle acidize each interval with 250 gal. 15% NE FE HCL. Treat from bottom interval up. If a zone communicates with another zone, raise packer and treat both zones together.

(23) Set RBP below Queen zone and swab well down and test Queen zone.

(24) If Queens formation proves commercial, set a 4" retrievable bridge plug at 3194'± with two sacks sand on top.

(25) If Queens formation proves noncommercial, set a 5 1/2" CIBP at 3190'±. Place two sacks cement on CIBP.

(26) Swab wellbore dry.

(27) Install 0-10 psi and 0-1000 psi pressure gauges on casing. Install blow line to pit. Rig up oriface gas tester.

(28) MI and RU perforating truck with a standby 5 1/2" drillable retainer and select fire guns.

(29) RU 30' 2000 psi lubricator.

(30) RIH with 4" OD hollow steel select fire guns loaded with JRC SSB II charges to fire up to 46 holes over a 663' gross interval in empty 5 1/2" casing. Gross interval is from 2990' in 7 Rivers to 2327' at very top of Yates.

(31) Perforate two shots at 2990', 2965', 2940' and 2929'. Eight holes total. Shut in well for thirty minutes. Record pressure at 1 min., 2 min., 5 min., 10 min., 15 min., 20 min., 25 min., and 30 min. Open well to pit through oriface tester. Place well on long term test if gas rate is above 200 MCFPD.

(32) Tag and record fluid level. Perforate two shots at 2888', 2813', 2735', 2701', 2667' and 2640'. Twelve holes total. Shut well in for thirty minutes. Record pressure at 1 min., 2 min., 5 min., 10 min., 15 min., 20 min., 25 min., and 30 min. Open well to pit through oriface tester. Place well on long term test if gas rate is above 200 MCFPD.

(33) Tag and record fluid level. Perforate two shots at 2528', 2494', 2483', 2458' and 2445'. Ten holes total. Shut in well for thirty minutes. Record pressure at 1, 2, 5, 10, 15, 20, 25 and 30 min. Open well to pit through oriface tester. Place well on long term test if gas rate is above 200 MCFPD.

(34) Tag and record fluid level. Perforate two shots at 2421', 2415', 2406', 2397', 2387' and 2379'. Twelve holes total. Shut in well for thirty minutes. Record pressure at 1, 2, 5, 10, 15, 20, 25 and 30 min. Open well to pit through oriface tester. Place well on long term test if gas rate is above 200 MCFPD.

(35) Tag and record fluid level. Perforate two shots at 2348' and 2327'. Four holes total. Shut in well for thirty min. Record pressure at 1, 2, 5, 10, 15, 20, 25 and 30 min. Open well to pit through oriface tester. Place well on long term test if gas rate above 100 MCFPD.

(36) If Yates-7 Rivers or Yates-7 Rivers and Queen shows promise of commercial production, shut in well pending stimulation of zones of interest, construction of a battery, and/or connection to gas line.

(37) If well shows no promise of commercial production, P & A well. Per steps 38 through 42.

(38) Set a 5 1/2" cmt. retainer at 2300'. Squeeze with eighty sacks Class C neat cmt. at 14.8 ppg. and 1.32 cubic feet per sack or to 1500 psi. Spot two sacks cmt. above retainer.

(39) Place a twenty sack Class C neat cmt. plug from 1800' to approx. 1610'.

(40) Place a twenty sack Class C neat cmt. plug from 1075' to approx. 890'. need cmt. in annulus 1075' – 890'

(41) Place a three sack cmt. plug from 20' to surface.

(42) Cut off wellhead below ground level and place plugged well marker.