

COMPLETION SCHEDULE

WELL: Loco Hills Welch #1

DATE: September 20, 1984

LOCATION: 480' FNL & 500' FWL, Sec. 9, T-18S, R-29E, Eddy County, NM

FIELD: Empire Morrow

ELEVATION: 3516' GL
17' KB

TD: 11,200' PBTD: 10,950'

<u>CASING RECORD:</u>	<u>SIZE</u>	<u>WT. & GRADE</u>	<u>DEPTH</u>	<u>CEMENT</u>	<u>CEMENT TOP</u>
	12 3/4"	NA	402'	475 sxs	Surface
	8 5/8"	NA	2910'	1300 sxs	Surface
	5 1/2"	17# L-80, LT&C (H ₂ S Pipe)	11199'	725 sxs	TOC @ 7600' By Temp Survey (Bennett)

FORMATION TOPS: Bone Spring 6006'
Wolfcamp 8024'
Penn 9134'

PRESENT PERFORATIONS: 10,876'-82' (13 holes)

PRESENT PRODUCTION: SI WOCO

RECOMMENDED PROCEDURE: Plug back & test Wolfcamp & Bone Spring

- 1) MI & RU PU.
- 2) ND tree, NU BOP.
- 3) POH w/2-7/8" tbg & 5-1/2" Baker Lok-Set @ 10,796'.
- 4) GIH w/5-1/2" CIBP & set @ 10,800' w/35' cement on top.
- 5) Pump 100' plug from 10,358'-10,458' (top of Atoka).
- 6) Pump 100' plug from 9061'-9161' (top of Penn), POH.
- 7) GIH & perf 2 JSPF from 8056'-63' (15 holes) & 8076'-81' (11 holes). POH.
- 8) GIH w/5-1/2" Model "R" pkr, SN & 2-7/8" tbg & spot 100 gals 15% HCL over perfs. Pull pkr to 8000' ± & set reverse acid into tbg & close bypass & break down perfs. Acidize w/2000 gals 15% HCL w/phosphates & cationic surfactants & 40-1.1 Density RCN Ballsealers.
- 9) Swab to test. If commercial, set up tbg string for production. If non-commercial, POH & proceed to step 10.
- 10) POH w/tbg, SN & pkr. GIH w/5-1/2" CIBP set @ 8000' w/35' cement on top. POH, circ hole w/1% KCL.
- 11) GIH & perforate 4 holes @ 7450' (150' above indicated top of cement @ 7600'). POH.
- 12) GIH w/5-1/2" Model R pkr, & 2-7/8" tbg & set @ 7000'. Break circ to ensure no cement bridges from original cementing of 5-1/2" csg.
- 13) If circ is possible, POH w/tbg & pkr & GIH w/cement retainer & set @ 7400'.
- 14) GIH w/tbg & stinger & sting into retainer.
- 15) Pump 1000 gals Mud Flush & 1000 gals 1% Inhibited HCL followed by 1000 gals Mud Flush. Then pump 500 sxs Class "C" w/2% CaCl₂, 18% salt & .5% CFR-2 @ 16.5#/gal. (Note: Top zone to cover is @ 6200'.) Have Cement Company run pilot test for set time & compressive strength @ 18 hours.
- 16) WOC 18 hrs & then run CBL from 7400' to TOC. POH.
- 17) GIH & perf 1 JSPF @ 6913', 46', 71', 92', 7027', 34', 76', 7241', 48', 80', and 94' (11 holes). POH.
- 18) GIH w/5-1/2" Model "R", SN & 2-7/8" tbg & spot 500 gals inhibited 7-1/2% HCL w/.5% HF, w/phosphates & anionic surfactants.