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DATE	SIGNIFICANT PULLING AND WORKOVER HISTORY, STEERING
4/15/53	Spud date. Ran 10'-3/4" O.D. 32.75# csg to 214' to surface. Set 7" production casing at 4361' with no but had water entry. Backed off 8 joints of 7" casing into collar looking up. Drilled 6-1/8" hole to TD on (Open hole from 4431'-5111 was stimulated with 1
5/11/54	Initial State Potential Test: Flowed 1385 MCFPD at 570 psig FTP. 726 psig CG
6/31/59	Workover to install liner and fracture Mesaverde:

Cemented with 113 sbs regular cement and 112 sbs
Liner hanger would not set, so set packer at 4109
annulus on vacuum, and located casing leak at 15
Drilled out all cement. Perforated Point Lookout 4
Fraced with 50000 gallons water containing 5000000
Perforated Menefee and Cliff House at 4430-48, 4
4810' w/ 2 JSPP. Fraced with 40000 gallons water

7/24/59	State Deliverability Test: Flowed 1985 MCFPD at 493 psig FTP and 632 psig
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FORMATION TOPS		
FORMATION	MEASURED DEPTH (FEET)	SURSEA DEPTH (FEET)
OJO ALAMO	970	4965
KIRTLAND SHALE		
FRUITLAND	2145	3790
PICTURED CLIFFS	2697	3238
CHACRA	3730	2205
CLIFF HOUSE - MV	4425	1510
MENEFEE - MV	4515	1420
POINT LOOKOUT - M	4930	1005
GALLUP		
GREENHORN		
GRANEROS		
DAKOTA		
MORRISON		

DATE	SIGNIFICANT PULLING AND WORKOVER HISTORY, STIMULATION, AND SQUEEZE WORK
4/15/53	Spud date. Ran 10'-3/4" O.D. 32.75# csg to 214' and cemented w/ 175 sks to surface. Set 7" production casing at 4361' with 225 sks cement. Started drilling out with gas, but had water entry. Backed off 8 joints of 7" casing, pulled out of hole. Reran casing and screwed into collar looking up. Drilled 6'-1/8" hole to TD of 5135'. Ran 164 joints 2-3/8" tubing to 5088'. (Open hole from 4431'-5111' was stimulated with 1684 quarts of solidified nitro-glycerin.)
5/11/54	Initial State Potential Test: Flowed 1385 MCFPD at 570 psig FTP. 726 psig CP. Seven day Shut-in pressure - 975 psig.
5/31/59	Workover to install liner and fracture Mesaverde: Pulled tubing and cleaned out to TD of 5140' with 6'-1/4" bit. Ran 26 joints to 5" O.D. 15# J-55 CF&I (853') with Bush Ross hanger set at 4259'. Cemented with 113 sks regular cement and 112 sks Pozmix, all with 2% gel and 12.5# Gilsenlite. Liner hanger would not set, so set packer at 4109 and squeezed liner top with 100 sks cmt. Found annulus on vacuum, and located casing leak at 1992'. Squeezed with 100 sks cmt to 2500 psi. Drilled out all cement. Perforated Point Lookout 4914'-21, 31'-85'; 5023'-38, 53'-58, 66'-73' with 2 JSPF. Fraced with 50000 gallons water containing 50000 lbs 20/40 sand and 125 balls in 4 stages at 68 BPM. Perforated Menefee and Cliff House at 4430'-48, 4489'-4516, 4538'-43, 57'-92; 4822'-28; 4709'-25, 4784'-4810' w/ 2 JSPF. Fraced with 40000 gallons water containing 40000 lbs 20/40 sand at 64 BPM at 1600 psi. Re-ran 192 joints 2-3/8" tubing with bottom two joints slotted and orange-peeled to 5040'.

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