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Merrion Oil & Gas
Workover Procedure
 October 18, 1996

Well:	Eagle Mesa Unit #1	Field:	Eagle Mesa Entrada
Location:	460' fsl & 330' fwl (sw sw) Sec. 12, T19N, R4W, NMPM Sandoval County, New Mexico	Elevation:	6,698' GL 6,711' KB
		By:	Connie Dinning

Procedure:
Prior to Move In

1. Check to assure there is no pressure on casing.
2. Check wellsite for anchors.
3. Haul in 170 jts. of 3 1/2" tubing for injection string.
4. Dig small pit, 10' X 10'.
5. Install wellhead.

Pressure Test Casing & Squeeze if Necessary

1. MIRU workover rig. RIH w/ RBP and RCP on 3 1/2" tubing. Set RBP in 7" casing, just above liner hanger @ 4,809' KB.
2. RU Cementers Inc. to pressure test. Pressure test casing to 500 psi. If pressure does not hold, move uphole, looking for leaks. Note pressure and rate for squeeze design.
3. Cement squeeze casing leaks, volumes and additives to be determined after testing. WOC 24 hrs.
4. RIH w/ bit and casing scraper on workstring to drill out squeeze(s).

Prepare Tubing for Injection

1. RU Petro Wireline and set tubing plug in 2 3/8" hydril temporary liner @ 4,900' MD. Pressure test tubing plug to 500 psi.
2. RIH w/ tubing circulation charges into 2 3/8" hydril temporary liner. Perforate 4,870' - 4,890' MD, 2 spf, to penetrate tubing only.

Run Injection String

1. RIH w/ Baker Lokset packer, 7" X 3 1/2" w/ on/off tool on 3 1/2" injection string.
2. Set packer @ 4, 709' KB.
3. Pressure test casing to 500 psi.
4. Perform injectivity test at 4 BPM, 5 BPM, 6 BPM and 7 BPM. Allow pressure to stabilize for each step, record surface pressure with strip chart recorder.
5. Unset packer, circulate packer fluid.
6. Reset packer, perform mechanical integrity test (record pressure on chart for 30 minutes, witnessed by NMOCD)

Complete Surface Modifications

1. Tie in EMU #1 to injection pump.
2. Install motor valve and actuator to allow injection into EMU #1 only at overpressure condition for EMU #6.

7 POOL NO. AND NAME Property No. and Name Well No. & U-I-S-T-R API No.	INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER								
	8 C O D B	9 Volume	10 Pressure	11 C O D B	12 Barrels Of Oil/Conden sate Produced	13 Barrels Of Water Produced	14 MCF Gas Produced	15 Days Prod uced	16 C O D B	17 Point Of Dispo- sition	18 Gas BTU or Oil Gravity	19 Oil On Hand at beginning of month	20 Volume Bbls/Mcf	21 Trans- porter OGRID	22 C O D B	23 Oil on hand at end of month
002 -15-29N-09W 30-045-28136	P				2	0	4195	31	O	2220210 2811160 2220230 2225930	1139 1141	141 134	3997 3818 363	007057 007057		143 134
009722 FEDERAL 29-4-32 001 -32-29N-04W 30-039-24553	S				0	0	0	0	O							
002 -32-29N-04W 30-039-24552	S				0	0	0	0	O	2225710 2258100		98 126				98 126
009723 FEDERAL 29-9-14 001 -14-29N-09W 30-045-27792	P				0	0	2667	22								
002 -14-29N-09W 30-045-28263	P				0	0	2402	27	O G G G	2220310 2220330 2220730	1173 1164	176	2527 2230 312	007057 007057		176
009724 FEDERAL 29-10-1 002 -01-29N-10W 30-045-28743	P				9	0	3594	29	O G G	2224010 2224030	48.8 1131	191	159 3409 185	009018 007057		41