Form 3160-5 (June 1990)	UNITED DEPARTMENT OI BUREAU OF LANI	F THE INTERIOR	FORM APPROVED Budget Bureau No. 1004-0135
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals			Expires: March 31 1993 5. Lease Designation and Serial No. SF-078474 6. If Indian, Allottee or Tribe Name
SUBMIT IN TRIPLICATE			7. If Unit or CA, Agreement Designation
1. Type of Well Oil Well X	Gas Well Other		
2. Name of Operator			8. Well Name and No.
Merrion Oil & Gas Corporation (14634)			Keeling Federal No. 1 9. API Well No.
3. Address and Telephone No.			30-045-05299
610 Reilly Avenue, Farmington, NM 87401-2634 (505) 327-9801 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)			10. Field and Pool, or Exploratory Area
990' fnl &	k 1750' fel (nw ne)		Dufers Pt. Gallup/DK
Section 20, T25N, R8W			11. County or Parish, State San Juan County,
<u> </u>			New Mexico
		(s) TO INDICATE NATURE OF NOTICE	, REPORT, OR OTHER DATA
TYP	E OF SUBMISSION	TYPE OF ACTION	
X	Notice of Intent	X Abandonment	Change of Plans
		Recompletion	New Construction
	Subsequent Report	Plugging Back	Non-Routine Fracturing
		Casing Repair	Water Shut-Off
	Final Abandonment Notice	Altering Casing	Conversion to Injection
		Other	Dispose Water
			(Note: Report results of multiple completion on
B. Describe Proposed of	r completed Operations (Clearly state all pe	rtinent details, and give pertinent dates, including estimated date	Completion or Recompletion Report and Log form
<i>8</i>	rotations and incustred and true vertical de	spins for an markers and zones perment to this work.)*	
Merrion Oil &	Gas proposes to plug and a	abandon the subject well according to the	e attached procedure.
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	he foregoing is true and correct		US AUGUSTA
. I hereby certify that t		.	
		Title Engineer	
Signed Connie S. D	Ç	Title Engineer	Date 5/4/00
Signed Connie S. D	inning al or State office use)	Title Engineer	Date 5/4/00

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Merrion Oil & Gas Corporation

Plug & Abandon Procedure

May 4, 2000

Well: Location: Keeling Federal No. 1

990' fnl & 1750' fel (nw ne)

Sec. 20, T25N, R8W, NMPM

San Juan County, New Mexico

Field: Elevation:

By:

Dufers Pt. Gallup/Dak

6,515' GR

6.526' KB

Connie Dinning

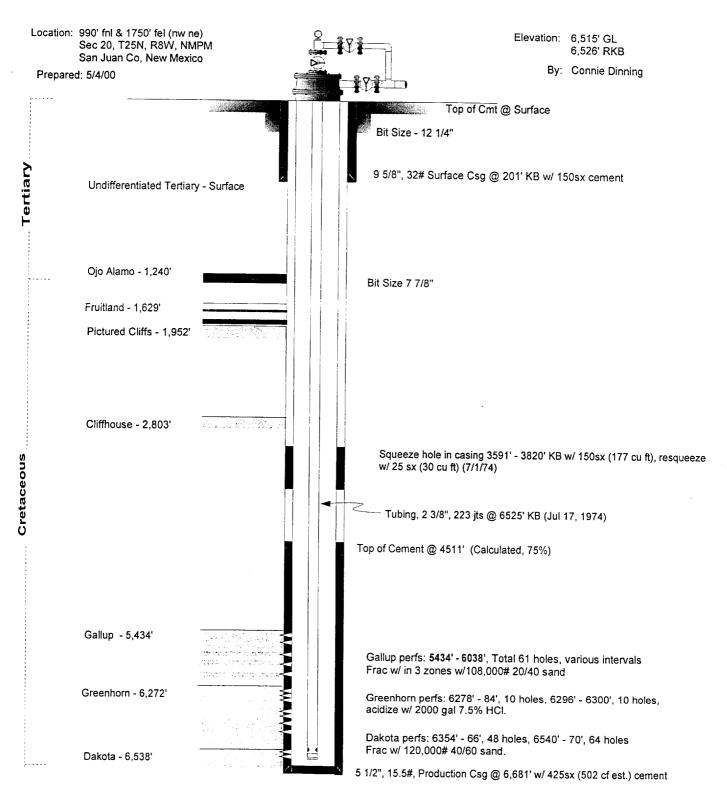
Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.33 ppg, sufficient to balance all exposed formation pressures.

- 1. Comply with all NMOCD, BLM and Merrion safety regulations.
- 2. Load casing w/ water. Tally out of hole w/ tubing and TIH w/ CICR on wireline, set @ \pm 5384'.
- 3. Plug #1 (Dakota, Greenhorn & Gallup tops and perfs, 5384' 6570'): Mix 200 sx (237 cu. ft) Class B cement, 50% excess, long plug. Sting into retainer and pump a balanced plug inside and outside pipe to cover 50' above Gallup top and perfs (also covers Dakota, Greenhorn tops and perfs). POH.
- 4. RIH w/ wireline and perforate 2 shots @ 2853' KB.
- 5. RIH w/ wireline and set CICR @ 2753' KB.
- 6. Plug #2 (Mesaverde top, 2753' 2853'): Mix 47 sx (55 cu. ft) Class B cement and pump a balanced plug inside and outside pipe to cover Mesaverde top. POH.
- 7. RIH w/ wireline and perforate 2 shots @ 1952' KB.
- 8. RIH w/ wireline and set CICR @ 1579' KB.
- 9. Plug #3 (Pictured Cliffs and Fruiltand tops 1579' 1952'): Mix 158 sx (186 cu. ft.) Class B cement and pump a balanced plug inside and outside pipe to cover Pictured Cliffs and Fruiltand tops. POH'.
- 10. RIH w/ wireline and perforate 2 shots @ 1290' KB.
- 11. Plug #4 (Ojo Alamo top 1190' 1290'): Mix 47 sx (55 cu. ft.) Class B cement and pump a balanced plug inside and outside pipe cover Ojo Alamo top. POH to ± 201 '. WOC. Tag Ojo plug.
- 12. Plug #5 (Surface 201'): Perforate 2 holes @ ±201'. Establish circulation out bradenhead valve. Mix 87sx (103 cu. ft) Class B cement and pump down 5 1/2" casing, circulate good cement out bradenhead valve. Shut in well and WOC.
- 13. ND BOP and cut off casing below surface. Install P&A marker with cement to comply with regulations. RDMOL, cut off anchors and restore location.
- 14. Restore location per BLM stipulations.

Merrion Oil & Gas Corporation Wellbore Schematic

Keeling Federal #1

Current Wellbore Configuration



TD @ 6,681'KB PBTD @ 6,595' KB

Merrion Oil & Gas Corporation Wellbore Schematic

Keeling Federal #1

Proposed Plugged Wellbore Configuration

Location: 990' fnl & 1750' fel (nw ne)

Elevation: 6,515' GL Sec 20, T25N, R8W, NMPM 6,526' RKB San Juan Co, New Mexico By: Connie Dinning Prepared: 5/4/00 Top of Cmt @ Surface Bit Size - 12 1/4" Plug No. 6: Surface Shoe (Surface - 201'), 87sx (103 cu ft) Tertiary perf 2 holes @ +/- 201' Undifferentiated Tertiary - Surface 9 5/8", 32# Surface Csg @ 201' KB w/ 150sx cement Bit Size 7 7/8" Plug No. 4: Ojo Alamo Top (1190' - 1290'), 47 sx (55 cu ft) Ojo Alamo - 1,240' perf 2 holes @ 1290' Fruitland - 1,629' Plug No. 3: Fruitland & Pictured Cliffs Tops (1579' - 1952'), 158 sx (186 cu ft), CICR @ 1579', perf 2 holes @ 1952' Pictured Cliffs - 1,952' Plug No. 2: Mesaverde Top (2753' - 2853'), 47 sx (55 cu ft), Cliffhouse - 2,803' CICR @ 2753', perf 2 holes @ 2853' Squeeze hole in casing 3591' - 3820' KB w/ 150sx (177 cu ft), resqueeze Cretaceous w/ 25 sx (30 cu ft) (7/1/74) Top of Cement @ 4511' (Calculated, 75%) Plug No. 1: Gallup, Greenhorn & Dakota Perfs & Tops (5384' - 6570'), 200 sx (237 cu ft) CICR @ +/- 5384' Gallup - 5,434' Gallup perfs: 5434' - 6038', Total 61 holes, various intervals Frac w/ in 3 zones w/108,000# 20/40 sand Greenhorn - 6,272' Greenhorn perfs: 6278' - 84', 10 holes, 6296' - 6300', 10 holes, acidize w/ 2000 gal 7.5% HCl. Dakota perfs: 6354' - 66', 48 holes, 6540' - 70', 64 holes Frac w/ 120,000# 40/60 sand. Dakota - 6,428

TD @ 6,681'KB PBTD @ 6,595' KB

5 1/2", 15.5#, Production Csg @ 6,681' w/ 425sx (502 cf est.) cement