

Ernie Busch

From:

Ernie Busch

To:

Subject:

Date:

Ben Stone MERRION OIL & GAS (SWD) Monday, December 04, 1995 11:23AM

Priority:

High

FEDERAL 11C #1 P-11-19N-04W

RECOMMENDATION: REQUIRE THE P&A OF THE EMU#4 AND REQUIRE PLASTIC LINED TUBING

Line of here as

\wedge									
/66Z90-S†0-0E		ELET					ες/το/το	JEC27N11W26C	961
30-042-57057		<u> </u>	761	725	705	085	88/11/20	3EDKS JNT TMS CB	96T
30-042-22102				021	001		78/51/10	3EDK57N11W26B	\$6T
30-042-22102		₽9	270	ΟΔΤ	69		S8/ST/S0	3EDK5\NTIMSeB	£61
30-042-22102		EOT	087	6 † T	127		\$8/8T/\$0	3EDK57N11W26B	767
30-042-22102	Æ2798	20	008	125	25		04/24/83	3EDK57N11W26B	161
30-042-52105	£738	991	802	881	204		05/24/82	3EDK57N11W26B	061
₹8790-9							02/25/87	4PC27N11W26B	681
30-042-06284		567	891	₽LT	861		58/50/40	4PC27N11W26B	881
30-042-06284		124	SST	SIT	204		04/52/81	4PC27N11W26B	781
\$8790-S\$0-0E		184	691	971	727		6L/LT/LO	4PC27N11W26B	981
30-042-06284		311	₽ 91	₱9T	248		LL/LT/\$0	4PC27N11W26B	381
\$0-042-0628¢		161	69 T	134	ZLZ		SL/TO/80	4PC27N11W26B	181
\$0-042-06284		184	218	152	456		01/12/73	4PC27N11W26B	183
\$8 790-5 \$0 - 0\$		216	514	ÞΦΙ	18€		ZL/9T/LO	4PC27N11W26B	182
\$8 790-5 70 - 08		208	506	134	LLE		TL/LT/90	4PC27N11W26B	181
30-042-06284		192	514	TST	333		01/11/10	4PC27N11W26B	180
\$0-0 42- 0628¢		Z02	220	128	400		69/LT/60	4PC27N11W26B	6 L T
30-042-06284		163	524	180	262		89/11/80	4PC27N11W26B	871
30-042-06284		358	506	200	328		49/60/20	4PC27N11W26B	LLT
30-042-06284		9T <i>†</i>	203	161	987		99/\$1/80	4PC27N11W26B	941
30-042-06284		97 <i>£</i>	206	188	7 69	757	99/51/90	4PC27N11W26B	SLT
30-042-06284		LIS	500	772	79 <i>L</i>		04/05/64	4PC27N11W26B	₽LT
30-042-06284		999	514	S6T	† 69		64/18/63	4PC27N11W26B	ELT
30-042-06284		TSOT	133	181	T64		79/11/90	4PC27N11W26B	772
30-045-06284		LLTT	138	99T	1056	947	T9/80/#0	4PC27N11W26B	TLT
30-042-06284		1133	7 t t	58 T	916		09/91/90	4PC27N11W26B	OLT
30-045-06284		SħL	6 † I	L9 T	689		04/53/59	4PC27N11W26B	69T
30-042-06284		618	727	8 <i>L</i> T	732	304	85/51/70	4PC27N11W26B	891
30-045-06284		988	49T	163	803	332	LS/ST/SO	4bC5/NJIM56B	19 T
30-045-06284	1188	LISI	LLT	220	1281	322	95/60/ <i>L</i> 0	4PC27N11W26B	991
30-045-06218		OOT	611	212	L 9		88/61/40	TIDKSJNIIMSEW	S9T
30-042-06218						275	78/T/E0	11DK5\N11M52W	† 9T
30-045-06218		91	545	871	18	06₺	04/24/83	JIDKS/NJIMS 2W	£9T
30-045-06218		25	221	LÐT	19	TOS	6L/6T/L0	TIDKS JNIIMS PW	195
30-045-06218	4484	9ET	308	191	₽ 9⊺		04/05/11	IIDKS	191
30-045-06218		89	303	128	85		SL/TO/80	JIDKS JNJ JMS EW	091
30-042-09518		53	315	OST	٤9		02/11/15	TIDKSJNIIMS 2W	6 S T
30-042-06218		85	320	6 † T	<i>L</i> 6		17/80/20	IIDKSJNIIMS2W	8ST
81790-970-08		08	322	123	96		69/91/90	JIDKSJNJIMS EW	LST
3720 270 27		83	TSE	† 6₹	۷6		89/91/80	JIDKS	991
31790-940-06		£8	795	200	86		49/9T/ 1 0	TIDKSJNTIMS 2W	SST
30-042-06218		121	698	200	142		99/11/90	TIDKS 	79T
30-042-06218 30-042-06218		71T	991	217	207		03\23\65	TIDKS	EST
	7888	246	223	237	56₹		12/01/64	TIDKSJNTIMS ZW	725
30-042-06218 30-042-06218		061	069	218	231		79/70/90	TIDKS JULIMS 2W	tst
81290-970-08	0011	324	193	145	424		£9/TT/£0	TIDKSJNIIMSZW	120
31290-970-08	98 <i>LL</i>	798	267	341	424		£9/11/60	TIDKSJNIIMSEW	671
30-045-06260		£ 7	098	218	09		LL/2T/SO	PDKZ JNTIMS 2E	148
30-045-06260		127	188 286	214	STT		91/67/12	PDKS JULIUS SE	L\$T
30-045-06260		00T	385	760	EII		02/30/15	PDKZ JNTIMSPE	971
30-045-06260		69 7 9T	308 416	89£	£ <i>L</i>		02\13\40 02\53\69	PDKZ JNJIMZ PE	SPI
30-042-06260		73 L	80£ 5 † †	453 461	118			PDKZ/NTIMZPE	7 † T
30-042-06260		58 67T	ILE	667	80 80		89/10/10	PDK27N11M25F	£\$T
30-042-06260		202	185	820	811 21		49/02/20 99/40/40	PDKS/NTIMSPE	742
30-042-06260		66T	402	202	69 I		99/00/00 99/00/00	PDKS/NTIMSPE	T#T
30-045-06260		335	85£	06 1	321		\$9/23/10 \$9/ET/EO	PDKS/NTIMSPE	140
30-045-06260		496 496	6T9	673	166		69/20/80	PDKS/NJIMSPE	139
30-045-06260	7422	096	229	689	976		29/20/80	PDKS/MIIMSPE	138
30-042-0634	COVL	102	312	212	011		88/61/10	PDKS/NIIMSPE	137
30-042-06354		501	016	- L C	ULL	0 <i>61</i>	78/71/E0	13DK57N11M24L	136
30-042-06354		16	198	₽ST	801		\$8/81/80	13DKS\NJIMS¢D	132
30-042-06354		6ħ	213	TLT	23		04/24/83	13DKS\NJIMS&F 13DKS\NJIMS&F	134
30-042-06354	2788	96	SIE	6 † T	113		11/01/85	J3DKSJNJIMSVI J3DKSJNJIMS¢F	132
30-042-06354	0999			J	L		18/10/11	J3DKSJNJIMSVI J3DKSJNJIMSVI	161
						~5.4	10, 10, 30	TACESTINGCAGE	

OIL CONSERVATION DIVISION PO BOX 2088 SANTA FE, NM 87504-2088

FORM C-108 Revised 7-1-81

1985 :SANTA FB, NM 87504-2088
RECEIVED
BLM MAIL ROOM

OIIL GOOD DOOR AUTHORIZATION TO INTECT H 1: 43

I.	PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal Storage Application qualifies for administrative approval? XX Yes No
II.	OPERATOR: Merrion Oil & Gas
	ADDRESS: P.O. Box 840, Farmington, NM 87499
	CONTACT PARTY: Connie Dinning PHONE: (505)327-9801
m.	WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary. Attachments
IV.	Is this an expansion of an existing project: Yes XX No If yes, give the Division order number authorizing the project
v.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. Attachment
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. Attachments
VII.	Attach data on the proposed operation, including: Attachments
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/1 or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. Attachments
IX.	Describe the proposed stimulation program, if any. Attachment
X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.) On File
XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. No Fresh Water
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water. Attachment
хш.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Connie Dinning TITLE: Engineer
	SIGNATURE: DATE: 10/26/95
k	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal.

	Fe	ederal 1	IC #1, C	Federal 11C #1, Convert to Water Injection	njection
Ą					
7	Well Name:	: Federal 11C #1	1C#1	Location: 330' fsl & 330'	330' fsl & 330' fel, Sec 11, T19N, R4W
7	Casing:				
	Size	Depth Set Hole Size	Hole Size	Cement Record	
	10 3/4"	203	15"	15" 250 sx	
	7"	5465	ω	3/4" 825 sx, 2 stages	
				1st Stg cemented to DV tool (Driller's notes)	ool (Driller's notes)
				2nd Stg lost circulation, TOC @ 3070' from CBI	OC @ 3070' from CBL
3)	Tubing:	4 1/2", 10.5	4 1/2", 10.5# (casing material)	aterial)	
		Set @ dep	th to be det	Set @ depth to be determined when packer assembly is made up	embly is made up
		No Internal Lining	Lining		
4	Packer:	Mountain 5	states Mode	Mountain States Model Arrowset IX, Retrievable Casing Packer	Casing Packer
		Set @ 5460'	0,		
В.					
1	Name of F	Name of Pool/Formation:	tion:	Eagle Mesa Entrada	
2)	Injection Interval:	Interval:	5469' - 5569',	9', Open Hole	
3	Original P	Original Purpose of Well:	Well:	Oil Producer	
4	No other	intervals ar	e perforate	No other intervals are perforated in this wellbore. No li	No intervals were perforated during
		the P&A work	ork		
2)	There are	no other p	roducing 2	ones in the area. The D	There are no other producing zones in the area. The Dakota, Gallup and Mesa Verde
		are presen	t as illustra	ed on the wellbore diagra	are present as illustrated on the wellbore diagram, but they are not productive.

MEXICO OIL CONSERVATION COMMIS. WELL LOCATION AND ACREAGE DEDICATION PLAT

Superve tex 1-12 Lifts tive 1-1-1

FILON EXPLORATION COMPANY-ROUM FEDERAL 116 SANDOVAL 1 4 1 Le norte i Albertoi 6683.0 Entrada <u>Un-named</u> 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and rovalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes." type of consolidation _ If answer is "no." list the owners and tract descriptions which have actually been consolidated. (Use reverse side of No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. rea Manager Company Minerals Management Inc Sec. Date Surveyed 1463 500

Federal 11C-1

Proposed Wellbore Configuration

RECEIVED BLM MAIL ROOM

95 OCT 30 PM 1: 43

Entrada, open hole completion, 5,476 - approximately 5,569 (Depending upon

thickness of Entrada Formation)

Elevation February GUOTON, NM Location: 330' fsl & 330'fel (se se) Sec 11, T19N, RAW NMPM Sandoval County, New Mexico By: Connie Dinning Prepared: 10/19/95 Top of Cmt @ Surface Bit Size - 15" 10 3/4" Surface Csg @ 203' KB w/ 250sx Mesa Verde - 750' Bit Size 8 3/4" Top of Cement @ 3070', Cement Bond Log Gallup - 3,222 2nd Stage DV tool @ 3,512 w/ 525sx 65/35 poz mix w/ 2# Tuff Plug/sk & 50 sx class "B", lost circ pumping plug 4 1/2", 10.5# Casing, Set @ 5,460' (set as injection string) Dakota - 4,477 Tubing/Packer assembly is as follows: 1. 4 1/2"x 3 1/3" swage 2. Mountain States Model "F" seating nipple 3. Mountain States type T-2, on-off tool 4. Mountain States Model "Arrowset IX" retrievable casing packer 15' Anhydrite 7" 23# Range 3 Production Csg @ 5,465' w/ 175sx class "B" w/ 4% gel & 10' Limestone : 2# tuff plug/sk, 75 sx "B" w/ 5% salf, circulated Entrada - 5,469 TD @ 5,484 KB PBTD - Cleaned out to 5470', then circ bottoms up (Todilto Sandstone.

Eolian Dune Sand)

Approximately 250' Thick

Projected TD will be 5,569 KB'

Federal 11C-1

Current Wellbore Configuration

RECEIVED BLM MAIL ROOM

95 OCT 30 PM 1: 43

Elevation: 6,64779- FARMINGTON, NM Location: 330' fsl & 330' fel (se se) Sec 11, T19N, R4W NMPM Sandoval County, New Mexico By: Connie Dinning Prepared: 10/19/95 Top of Cmt @ Surface Plug #6: 20 sx Surface Csg Bit Size - 15" **Annulus** 10 3/4" Surface Csg @ 203' KB w/ 250sx Plug #5: 250' - Surface w/ 47 sx mud Plug #4: 700' - 520' w/ 33 sx Mesa Verde - 750 Bit Size 8 3/4" mud Top of Cement @ 3070', Cement Bond Log Plug #3: 3,275' - 3,095' w/ 33 sx Gallup - 3,222 2nd Stage DV tool @ 3,512 w/ 525sx 65/35 poz mix w/ 2# Tuff Plug/sk & 50 sx class "B", lost circ pumping plug Top of Cement @ DV tool, (Field notes indicated circulated to DV tool) mud Plug #2: 4,530' - 4,350' w/ 33 sx Dakota - 4,477 mud Plug #1: 5,484' - 5,217' w/ 60 sx 7" 23# Range 3 Production Csg @ 5,465' w/ 175sx class "B" w/ 4% gel &

2# tuff plug/sk, 75 sx "B" w/ 5% salf, circulated

Entrada, open hole completion, 5,476' - 5,484'

No Stimulation

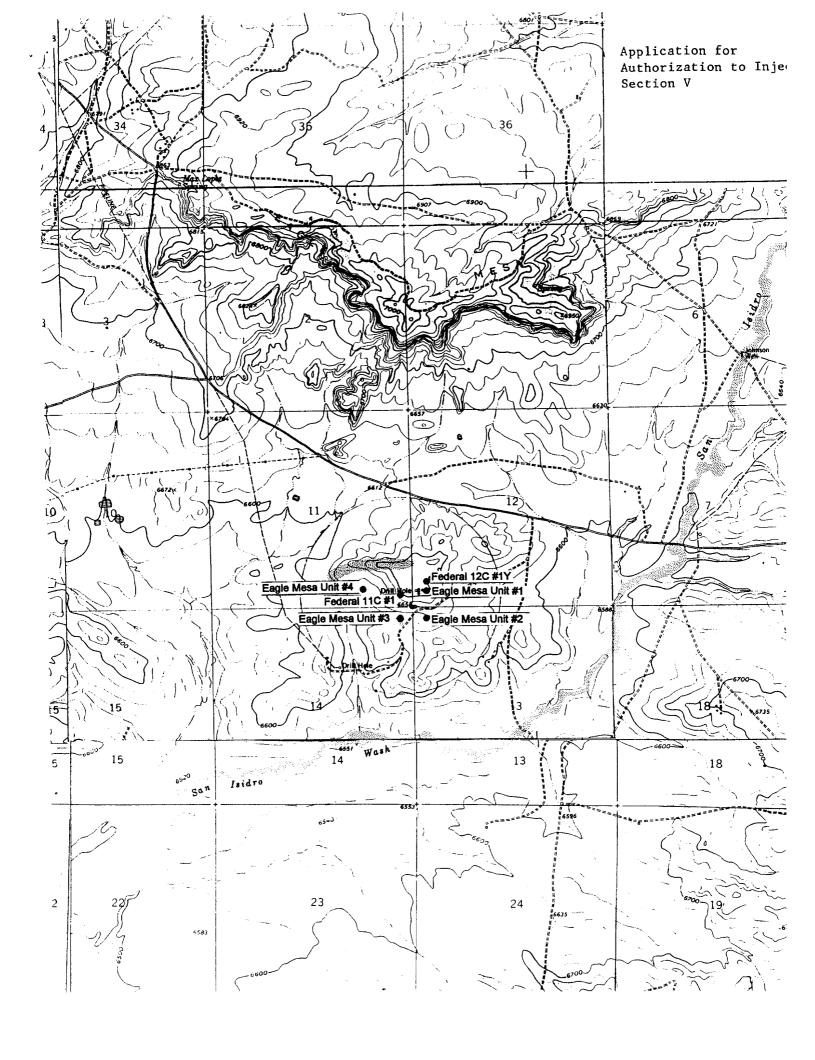
TD @ 5,484'KB PBTD - Cleaned out to 5470', then circ bottoms up

Entrada - 5,469'

		Federal 11C #1, Convert to Water Injection	C #1, CC	onvert to	Water	Injection		
		Wel	Is Withi	Wells Within Area of Review	of Revie	M		
			^	Well Data				
Well Name	Туре		Construction	uc			Spud Date	P
		Casing Size/Grade Wt., Ib/ft	1	Depth Set Hole Size	Hole Size	Cement Record		
Facle Mesa Unit #1	iö	10 3/4", J-55	40.5	207	15"	15" Surface, 250 sx	9-30-94	6078'
Eagle Mesa Entrada		7",J-55		2		8 3/4" Stage 1 - 3850', 242 sx		= DVT
Horizontal Wellbore						Stage 2 - 3240', 450 sx		5491
						Sqz: 1675'-1878', 40 sx		
						2106' - 2294' w/60 sx		
Location	Surface:	460' fsl & 330' fwl,		Sec 12				
	Top Prod:	i: 228.4' fsl & 239' fwl	N	T19N				
	TD: 196.	TD: 196.4' fnl & 42,8'fwl		R4W	Sandoval (Sandoval County, NM		
Completion	Open Ho	Open Hole, No Stimulation						
Wall Name	Tvne		Construction	uo			Spud Date	TD
	246.	Casing Size/Grade Wt., Ib/ft	Wt., Ib/ft	Depth Set Hole Size	Hole Size	Cement Record		
							0.00	19039
Eagle Mesa Unit #2	ō	10 3/4", J-55	40.5			15" Surrace, ZUU SX	CR-17-C	0000
Eagle Mesa Entrada		7",J-55				8 3/4" Total 705 sx, 2 stages		= OV =
Horizontal Wellbore		5 1/2",J-55	15.5#	5570		8 3/4" Cemented on 1st Stg		5435
Location	Surface:	430' fnl & 330' fwl,		Sec 13				
	Top Prod:	I: 765' fnl & 271' fwl		T19N				
	TD: 1656	6' fni & 90' fel, Sec 14	4	R4W	Sandoval (Sandoval County, NM		
	:							
Completion	Open Hol	le, No Stimulation						
			-					

APPLICATION FOR AUTHORIZATION TO INJECT, SECTION VI

Eagle Mesa Unit #3 Oil Eagle Mesa Entrada Location 33 Completion Pe Well Name Ty Eagle Mesa Unit #4 Wi	Oil Oil Sao' fni & Type	10 3/4" 10 3/4" 7" 7" 7" 5 1/2" 330' fel, Sec 14, T16 5442' - 5460', No 3 526/Grade Casing Size/Grade 1		Sando Depth	1 1 1 5	Size Cement Record 15" Surface, 200 sx 8 3/4" 2 stages 8 3/4" 578 sx, 365 sx y, NM	10-21-75	5882'
 	ao' fni & erforate	10 3/4" 7" 5 1/2" 330' fel, Sec 14, T19 1 5442' - 5460', No S		5347' 5347' 5590' Sandoval C.		Surface, 200 sx 2 stages 578 sx, 365 sx	10-21-75	5862'
	30' fnl & Sype	10 3/4" 5 1/2" 330' fel, Sec 14, T19 1 5442' - 5460', No 6 Casing Size/Grade		5590° 5590° Sandoval C		2 stages 2 stages 578 sx, 365 sx	10-27-79	7996
	30' fnl & erforate	5 1/2" 5 1/2" 330' fel, Sec 14, T16 1 5442' - 5460', No 6 Casing Size/Grade		Sandoval C		2 stages 578 sx, 365 sx		
▎▗▕▗▕▗▕▗▕▗▐ ▀ ▎ ▔	30' fnl & erforate	5 1/2" 330' fel, Sec 14, T16 1 5442' - 5460', No 8 Casing Size/Grade		Sandoval C		578 sx, 365 sx		_
	30' fnl & erforate	330' fel, Sec 14, T18 15442' - 5460', No 8 Casing Size/Grade		Sandoval C				
	30' fnl & erforate	330' fel, Sec 14, T18 1 5442' - 5460', No 8 Casing Size/Grade		Sandoval C				
	erforate	1 542' - 5460', No 8		on Depth Set				
	erforate	1 5442' - 5460', No (on Depth Set	 			
	ype	Casing Size/Grade		Depth Set				
	уре	Casing Size/Grade	Ͻ;;;ʹϹͳ	Depth Set				
	John John	Casing Size/Grade V		Depth Set	 		Spud Date	Ð
 	lotor		Τ			Cement Record		
 	lotor			2000				
	מומו	8 2/8"	23#	.677	12 1/4" 150 sx	150 sx	9-19-75	3700'
	Injection	5 1/2"	15.5#	3685'	7 7/8"	2 stages: 126 sx, 450 sx	¥	
				-				
Location 40	460' fsl &	800' fel, Sec 11, T19N,	₹4W	Sandoval County,	ounty, NM			
Completion	Perforated	1 3048' - 3177',	3206' - 3270', 3	3350' - 3428',	3470'	- 3596', No Stimulation		
Well Name	Type		Construction	nc			Spud Date	2
		Casing Size/Grade Wt., Ib/ff		Depth Set Hole Size	Hole Size	Cement Record		
Federal 12C #1Y O	Oil (dry)	.8/9 6		187		180 sx	10-26-95	5605
		07 - 0 - 3 1000	-		All Market			
Location 6	685' tsi &	330' fWl, Sec 12,	18N, K4W	Sandoval County, INIV	OUIII, ININ			
Completion	lo Produ	No Production Casing Set, Well Plugged after drilling	II Plugged	after drillin	9			
	ement F	Cement Plugs in the following intervals: 5605' - 5450', 50 sx	intervals:	5605' - 545	0', 50 sx	Surface Plug, 10 sx		
				4590' - 4410', 50 sx	0', 50 sx			
				3340' - 3190', 50 sx	0', 50 sx			
				2350' - 2190', 50 sx	0', 50 sx			
				200' - 150', 30 sx	30 sx			



Application for Authorization to Inject, Section V

The map on the preceding page indicates a drill hole on the border of the 1/2 mile radius area of review. There is no record of any wellbore at this location in the Dwight's data nor in the NMOCD files in the Aztec office. Field inspection of the site yielded no further information. There was nothing to indicate that a well of any sort existed at this location.

Merrion Oil & Gas Corporation Wellbore Schematic for Offset to Proposed Water Injection Well

Federal 12C-1Y (Operator: Jordan Oil & Gas Co.) BLM MAIL ROUM

Current Wellbore Configuration According to NMOCD Records

95 OCT 30 PM 1:43

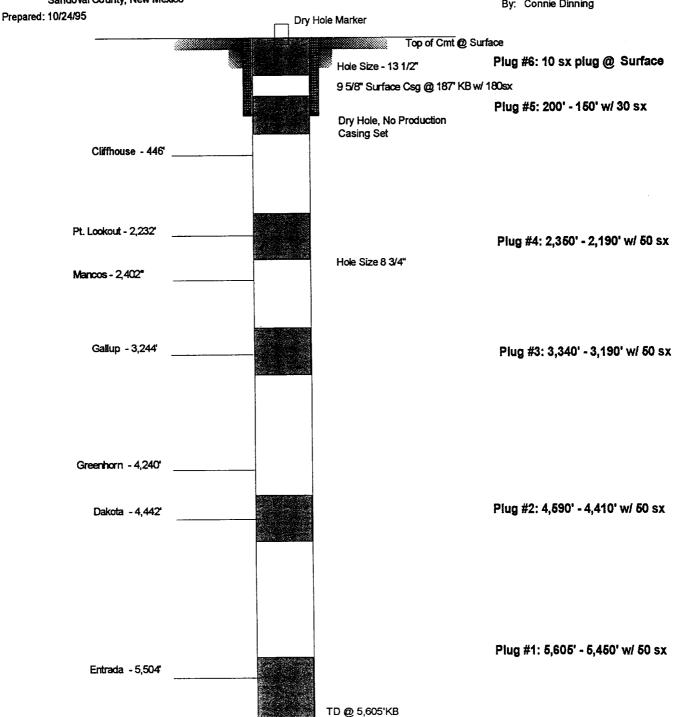
Location: 685"fsl & 330'fwl

Sec 12, T19N, R4W NMPM

Sandoval County, New Mexico

Elevation: 6.693' GLON, NM

By: Connie Dinning



	Feder	al 11C #	1, Conv	ert to W	ater Inj	ection		
/II. Oper	ational Data	l I						
1)	Ave Rate:	2-3 BPM		Daily Rate	:	4000 BPD		
2)	Open Sys	tem			· · · · · · · · · · · · · · · · · · ·			
3)	Ave. Press	sure:	700 psi	Max Press	ure:	1200 psi		
4)	Reinjected	d produced	water froi	m same for	mation			
5)	Water Ana	alysis Attac	nea					
/III. Geo	logical Data							
	Injection	Zone:	Todilto Sa	ndstone (Ed	lian Dune	Sand)		
	Thickness	S:	approx. =	250'				
	Тор:		5469'					
	Overlaying	this format	tion is a 10	layer of lim	estone and	i a 15' layer	of anhydrit	e.
Assortin	g to engineer	ring and go	logical ray	iou there a	re no know	n formations	in the are	a of review
above of	r below the E	intrada which	h contain v	vater with <	10,000 ppr	n TDS.	I III the the	10.101.01
X. Stime	ulation Prog	ram						ļ
				itially. How				
	pressures	are not sati	sfactory, a	fracture pro	gram may l	be proposed	l <u>.</u>	<u> </u>
X. Loggi	ing and Test	t Data				 		
		T						
	All logs ar	e on file wit	h the OCD	office in Azt	ec			1
XI. Fresi	n Water Ana	lysis						
	There are	no known f	resh water	zones in the	area of re	view.		
XII. Egi	neering and	Geology R	leview to F	rotect Fres	h Water			-
						h		
				ulic connectones in the				
				and there are				
				herefore the				
		ns are pres						

PUBLIC NOTICE
Merrion Oil & Gas
P.O. Box 840
Farmington, Nal 87401
Atm.:Connie Omning
Merrion Oil & Gas
Farmington, Nal 87401
Atm.:Connie Omning
Merrion Oil & Gas
Freedousty slagged and
abandoned, wellbore for a years
rise of the state produced water
from the Eagle Mean Entrada field.
Injection Well Location: 330 fel & 330
fel, Sec. 11, T19N, R4W, Sandoval
County, NM.
Injection Formation: Entrada
Depth of injection Zone: \$486
Medimum Presidue: 1, 200 pel
Medimum Presidue: 1, 200 pel
Medimum Ratic: 12, 200, berrels per
day
Interested parties must file objections
or requests for hearing with the Oil
Conservation Division, R,O. Box
2085 Santa Fe, New Medico 87504
2085 Santa Fe, New Medico 87504
2085 Within 16 days of this notice.
Journal: October 24, 1995

STATE OF NEW MEXICO

County of Bernalillo

SS

Bill Tafoya being duly sworn declares and says that he is Classified Advertising manager of The Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for ________ times, the first publication being of the _______ day of ________, 1995, and the subsequent consecutive publications on _______, 1995

STATE OF NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION PO BOX 2088 SANTA FE, NM 87504-2088



APPLICATION FOR AUTHORIZATION TO INJECT OUR COM. DIV.

	DISTICULAR DE LA CONTRACTOR DE LA CONTRA
I.	PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal Storage Application qualifies for administrative approval? XX Yes No
II.	OPERATOR: Merrion 0il & Gas
	ADDRESS: P.O. Box 840, Farmington, NM 87499
	CONTACT PARTY:Connie_Dinning PHONE: (505)327-98
ш.	WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary. Attachments
v.	Is this an expansion of an existing project: Yes XX No If yes, give the Division order number authorizing the project
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. Attachment
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. Attachments
II.	Attach data on the proposed operation, including: Attachments
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
ш.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/1 or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. Attachments
X.	Describe the proposed stimulation program, if any. Attachment
X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.) On File
XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. No Fresh Water
II.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water. Attachment
Ш.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
īV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Connie Dinning TITLE: Engineer
	NAME: Connie Dinning TITLE: Engineer SIGNATURE: DATE: 10/26/95
	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal.

A. 1) Well Name: 2) Casing: Size D 10 3/4" 7" 3) Tubing: 4 N N	II Name: sing: Size De 10 3/4" 7" oing: 4	Federal 11C #1 Depth Set Hole S 5465 8 4 1/2", 10.5# (casi Set @ depth to be No Internal Lining	Federal 11C #1 Locatic	Size Cement Record 15" 250 sx 204 825 sx, 2 stages 1st Stg cemente 2nd Stg lost circl ssing material) be determined when pa	d to I	0' fel, Sec	330' fel, Sec 11, T19N, R4W	R4W
	ame: 13:	### Pederal 1 203' 5465' 5465' 172", 10.5 et @ dept 0 Internal	1C #1 Hole Size 15" 8 3/4" in the be determing	Cement Re 250 sx, 2 st 1st Stg cerr 2nd Stg los 2nd st	cord cord tages nented to DV t circulation,	O. Tei, Sec	20.	74 VV
Pac Tr	14 1/2	9pth Set 203° 5465° 5465° et @ dept 0 Internal	Hole Size 15" 8 3/4" http://doi.org/10/10/10/10/10/10/10/10/10/10/10/10/10/	Cement Re- 250 sx 250 sx, 2 st 1st Stg cerr 2nd Stg los naterial)	cord lages nented to DV t circulation,			
Pac Tul	***	203' 5465' 5465' 172", 10.5 et @ dept	Hole Size 15" 8 3/4" % (casing mush to be detection	Cement Re 250 sx 2 st 825 sx, 2 st 1st Stg cerr 2nd Stg los naterial)	rages rented to DV t circulation,			
Pag Tul	# 1	203' 5465' 1/2", 10.5 et @ dept	15" 8 3/4" % (casing rr th to be dete	250 sx 825 sx, 2 st 1st Stg cerr 2nd Stg lost naterial)	lages nented to DV t circulation,			
	1.2	5465' 1/2", 10.5 et @ dept o Internal	8 3/4" % (casing r. Lining	825 sx, 2 st 1st Stg cem 2nd Stg losi naterial)	tages nented to DV t circulation,			
		1/2", 10.5 et @ dept	# (casing muth to be detection)	2nd Stg cem 2nd Stg lost naterial)	t circulation,			
		1/2", 10.5 et @ dept o Internal	# (casing rr th to be dete Lining	2nd Stg lost naterial) ermined wh	t circulation,	tool (Drill	er's notes)	
		1/2", 10.5 et @ dept o Internal	# (casing multiple to be determine)	naterial) ermined who	en packer as	TOC @ 3	070' from C	BL
		et @ dept o Internal	th to be dete	ermined who	en packer as			
	Ž	o Internal	Lining			sembly is	made up	
					The second secon			
		•						
		ountain S	states Mode	Arrowset I.	Mountain States Model Arrowset IX, Retrievable Casing Packer	le Casing	Packer	
	σ̈	Set @ 5460'	ō					
<u>—</u>			The state of the s					
1) Name	of Poc	Name of Pool/Formation:		Eagle Mesa Entrada	a Entrada			
2) Injecti	Injection Interval:		5469' - 5569',	9', Open Hole	ole			
3) Origin	al Pur	Original Purpose of Well:	Well:	Oil Producer	Je			
4) No oth	er inte	ervals are	No other intervals are perforated in this wellbore.	d in this we		intervals	No intervals were perforated during	ated durin
	#	the P&A work	ork		and the second s			
5) There	are no	other pr	roducing z	ones in the	There are no other producing zones in the area. The Dakota, Gallup and Mesa Verde	Dakota, G	allup and M	esa Verd
	ač	e present	t as illustrate	ed on the w	are present as illustrated on the wellbore diagram, but they are not productive	am, but th	ney are not g	productive

All distances must be from the outer boundaries of the Section FILON EXPLORATION COMPANY FEDERAL 19 NORTH 11 4 WEST SANDOVAL 6633.0 Entrada <u>Un-named</u> 1. Outline the acreage dedicated to the subject well by colored pencil or hachuse marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes." type of consolidation If answer is "no!" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Fisition <u>Area</u> Manager Minerals Management Inc August Sec. I ite Surveyed

1463

1320

Federal 11C-1

Proposed Wellbore Configuration

Elevation: 6,644' GL Location: 330' fsl & 330'fel (se se) Sec 11, T19N, R4W NMPM Sandoval County, New Mexico By: Connie Dinning Prepared: 10/19/95 Top of Cmt @ Surface Bit Size - 15" 10 3/4" Surface Csg @ 203' KB w/ 250sx Mesa Verde - 750° Bit Size 8 3/4" Top of Cement @ 3070', Cement Bond Log Gallup - 3,222 2nd Stage DV tool @ 3,512 w/ 525sx 65/35 poz mix w/ 2# Tuff Plug/sk & 50 sx class "B", lost circ pumping plug - 4 1/2", 10.5# Casing, Set @ 5,460' (set as injection string) Dakota - 4,477 Tubing/Packer assembly is as follows: 1. 4 1/2"x 3 1/3" swage 2. Mountain States Model "F" seating nipple 3. Mountain States type T-2, on-off tool 4. Mountain States Model "Arrowset iX" retrievable casing packer 15' Anhydrite 7" 23# Range 3 Production Csg @ 5,465" w/ 175sx class "B" w/ 4% gel & 10' Limestone 2# tuff plug/sk, 75 sx "B" w/ 5% salf, circulated Entrada - 5,469 TD @ 5,484'KB PBTD - Cleaned out to 5470', then circ bottoms up (Todilto Sandstone, Eolian Dune Sand) Entrada, open hole completion, 5,476 - approximately 5,569 (Depending upon Approximately 250' Thick thickness of Entrada Formation) Projected TD will be 5,569' KB'

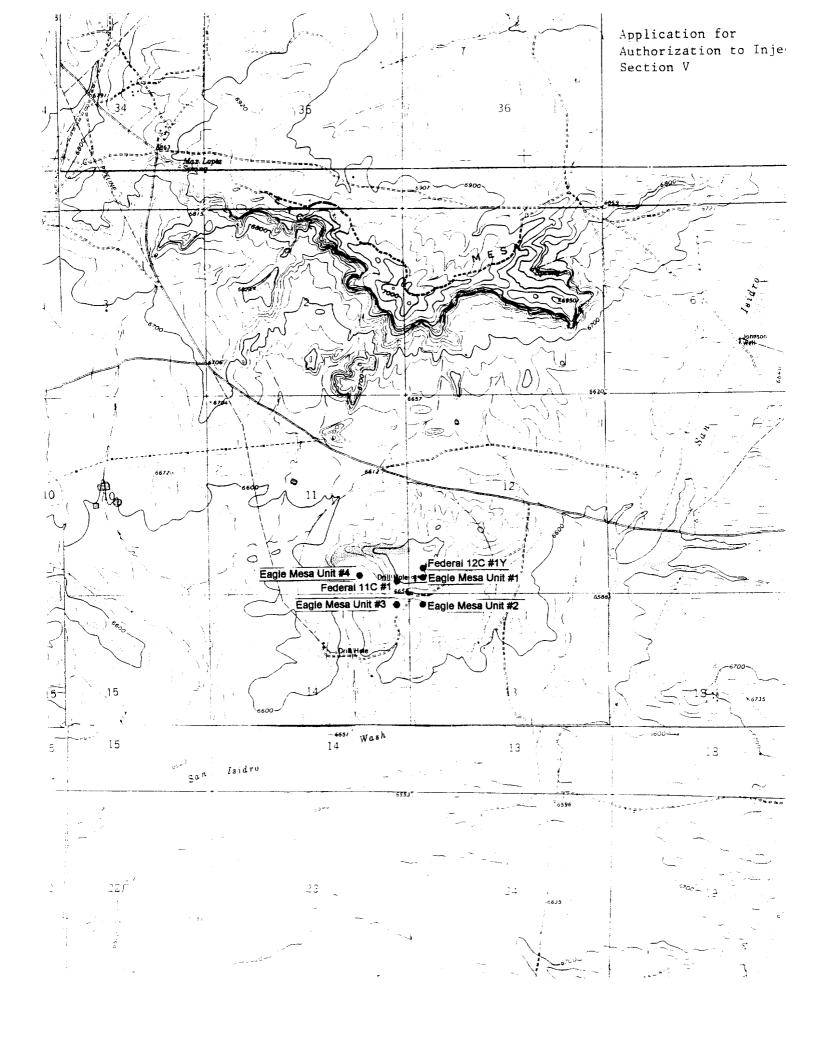
Federal 11C-1

Current Wellbore Configuration

Elevation: 6,644 GL Location: 330' fsl & 330'fel (se se) Sec 11, T19N, R4W NMPM Sandoval County, New Mexico By: Connie Dinning Prepared: 10/19/95 Top of Cmt @ Surface Plug #6: 20 sx Surface Csg Bit Size - 15' Annulus 10 3/4" Surface Csg @ 203' KB w/ 250sx Plug #5: 250' - Surface w/ 47 sx mud Plug #4: 700' - 520' w/ 33 sx Mesa Verde - 750' Bit Size 8 3/4" mud Top of Cement @ 3070", Cement Bond Log Plug #3: 3,275' - 3,095' w/ 33 sx Gallup - 3,222 2nd Stage DV tool @ 3,512' w/ 525sx 65/35 poz mix w/ 2# Tuff Plug/sk & 50 sx class "B", lost circ pumping plug Top of Cement @ DV tool, (Field notes indicated circulated to DV tool) mud Plug #2: 4,530' - 4,350' w/ 33 sx Dakota - 4.477 mud Plug #1: 5,484' - 5,217' w/ 60 sx 7" 23# Range 3 Production Csg @ 5,465' w/ 175sx class "B" w/ 4% gel & Entrada - 5,469 2# tuff plug/sk, 75 sx "B" w/ 5% salf, circulated TD @ 5,484'KB PBTD - Cleaned out to 5470', then circ bottoms up Entrada, open hole completion, 5,476' - 5,484' No Stimulation

		Federal 11C #1, Convert to Water Injection	C #1, C	onvert to	Water	Injection		
		Me	lls With	Wells Within Area of Review	of Revie	M		
			>	Well Data				10 10 10 10 10 10 10 10 10 10 10 10 10 1
	7,00		Construction				Spirid Date	CI
Well Name) ho	Casing Size/Grade Wt., Ib/ft		Depth Set Hole Size	Hole Size	Cement Record		
	iö	10 3/4", J-55	40.5	207	15"	Surface, 250 sx	9-30-94	6078'
Eagle Mesa Entrada		7",J-55		5	œ	3/4" Stage 1 - 3850', 242 sx		TVD=
Horizontal Wellbore						Stage 2 - 3240', 450 sx		5491
						Sqz: 1675'-1878', 40 sx 2106' - 2294' w/60 sx		
l ocation	Surface:	460' fsl & 330' fwl,		Sec 12				
	Top Prod:		M	T19N				
	TD: 196.4	.4' fnl & 42,8'fwl		R4W	Sandoval C	Sandoval County, NM		
Completion	Open Hole	le, No Stimulation						
Moll Mamo	Time		Construction	uo L			Spud Date	TD
Well Wallie	and I	Casing Size/Grade Wtt., Ib/ft	Wt., Ib/ft	Depth Set Hole Size	Hole Size	Cement Record		
Eagle Mesa Unit #2	ō	10 3/4", J-55	40.5		15"	Surface, 200 sx	3-21-95	6506
Eagle Mesa Entrada		7",J-55		5355'		Total 705 sx, 2 stages		= QVI
Horizontal Wellbore		5 1/2", J-55			8 3/4"	Cemented on 1st Stg		5435'
Location	Surface:	430' fnl & 330' fwl,		Sec 13				
	Top Prod:	i: 765' fnl & 271' fwl		T19N		AND MANUAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERT		
	TD: 165	6' fnl & 90' fel, Sec 14	4	R4W	Sandoval	County, NM		
Completion	Open Ho	Open Hole, No Stimulation						

Well Name	Type		Construction	uo			Spud Date	2
		Casing Size/Grade Wt., Ib/ft	Wt., Ib/ft	Depth Set Hole Size	Hole Size	Cement Record		
Eagle Mesa Unit #3	Oii	10 3/4"		197		Surface, 200 sx	10-21-75	5662'
Eagle Mesa Entrada				5347	Φ (2 stages		
		2/1 6		ORCC	0	3/4 3/0 5X, 303 5X		
Location	330' fnl &	330' fel, Sec 14,	T19N, R4W	Sandoval County, NM	Sounty, NM			
Completion	Perforated	d 5442' - 5460', No	Stimulation					
Well Name	Туре	Construc		eoth Set	Hole Size	Cement Record	Spud Date	TD
Eagle Mesa Unit #4	Water		34-34-	229'	12 1/4"		9-19-75	3700
Location	460' fsl &	800' fel, Sec 11,	T19N, R4W		Sandoval County, NM			
Completion	Perforated	d 3048' - 3177', 3206'	- 3270',	3350' - 3428'	. 3470' -	3596', No Stimulation		
Well Name	Туре	Casing Size/Grade Wtt., Ib/ft	Construction Wt., Ib/ft D	epth Set	Hole Size	Cement Record	Spud Date	TD
Federal 12C #1Y	Oil (dry)		de man, ample, etc., ample, am	187		180 sx	10-26-95	5605'
Location	685' fsl &	330' fwl, Sec 12, T1	9N, R4W	Sandoval County, NM	County, NM			
Completion	No Produ Cement F	No Production Casing Set, Well Plugged after drilling Cement Plugs in the following intervals: 5605' - 5450' 4590' - 4410'	ell Pluggec intervals:	1 after drilling 5605' - 5450', 4590' - 4410',		Surface Plug, 10 sx		
				3340' - 3190', 2350' - 2190', 200' - 150', 30	0', 50 sx 10', 50 sx 30 sx			



Application for Authorization to Inject, Section V

The map on the preceding page indicates a drill hole on the border of the 1/2 mile radius area of review. There is no record of any wellbore at this location in the Dwight's data nor in the NMOCD files in the Aztec office. Field inspection of the site yielded no further information. There was nothing to indicate that a well of any sort existed at this location.

Merrion Oil & Gas Corporation Wellbore Schematic for Offset to Proposed Water Injection Well

Federal 12C-1Y (Operator: Jordan Oil & Gas Co.)

Current Wellbore Configuration According to NMOCD Records

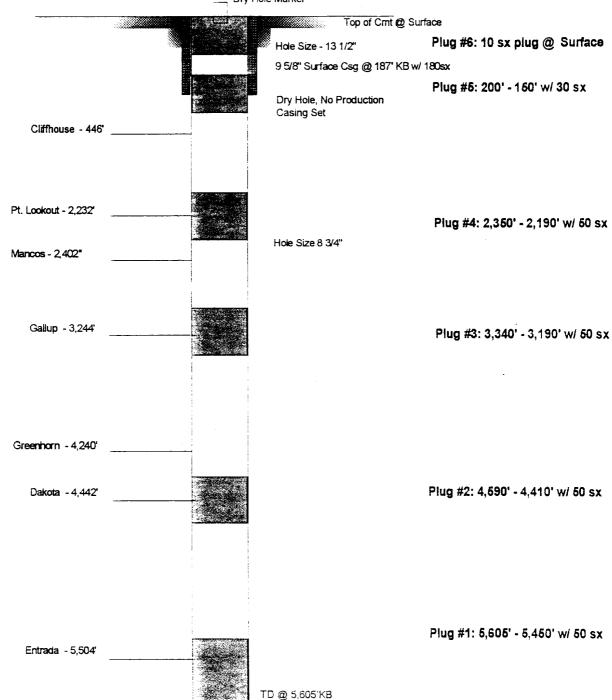
Location: 685*fsl & 330'fwl

Sec 12, T19N, R4W NMPM

Sandoval County, New Mexico

Elevation: 6,693' GL

By: Connie Dinning Prepared: 10/24/95 _ Dry Hole Marker



	Feder	al 11C #	1, Con	vert to V	Vater I	njection		
/II Oper	rational Data			<u> </u>		-		
ii. Opei	ational Data			<u>:</u>				
1)	Ave Rate:	2-3 BPM		Daily Rate	e:	4000 BPD		
2)	Open Syst	tem			· · · · · · · · · · · · · · · · · · ·			
3)	Ave. Press	me.	700 psi	Max Pres	sure:	1200 psi		
			,			1200 poi		
4)	Reinjected	produced	water fro	m same to	mation			
5)	Water Ana	lysis Attac	hed					
/III. Geo	logical Data				- , 			
	Injection Z	Zone:	Todilto Sa	ndstone (E	olian Dun	ie Sand)		
	Thickness		approx. =	250'				
	THICKHESS)•	арріох. –	230				
	Тор:		5469'	 	i			<u> </u>
	Overlaying	this format	ion is a 10	layer of lin	nestone a	and a 15' layer	of anhydri	te.
Accordin	g to engineeri	ing and geo	logical rev	iew, there a	re no kno	own formations	in the are	a of reviev
above o	below the Er	ntrada whic	h contain v	vater with <	10,000 p	pm TDS.		
X. Stimi	lation Progr	ram						
	1			:				+
	The well wi	ill not be sti	mulated in	itially. How	ever if in	jection volume	s and	
						y be proposed		
(. Loggi	ng and Test	Data			i			
	All logs are	on file with	the OCD	office in Az	tec.			
	7 logo al o	011 1110 1711						
(I. Frest	Water Anal	ysis						
	There are r	no known fr	esh water :	zones in the	area of	review.		
(II Fair	neering and	Geology R	eview to P	rotect Fre	sh Water		:	
<u>-</u> gii			· · · · · · · · · · · · · · · · · · ·	:				
						other formatio		
						eview. The ca		
		4 faa 7 7-						
						meability form reason to belie		

PUBLIC NOTICE

Merrion Oil & Gas
P.O. Box 840
Farmington, NM 87401
Attn: Consile Dinning
Merrion Oil & Gas proposes to
convert a previously plugged and
abandoned, wellbore to a water
from the Eagle Mess Entrade field.
Injection Well Location: 330' fist & 330'
fet, Sac. 11, T19N, R4W, Sandoval
County, NM.
Injection Formation: Entrada
Depth of Injection Zone: 5,489'
Maximum Pressure: 1,200 psi
Maximum Rate: 12,000 berreis per
day Maximum Rate: 12,000 barries per day interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2082, Santa Fe, New Mexico 87504-2082; within 15 days of this notice. Journal: October 24, 1995

Miligary

STATE OF NEW MEXICO

County of Bernalillo

	Bill Tafoya being duly sworn declares and says that he is Classi	tìed
	Advertising manager of The Albuquerque Journal, and that this newsp	
	is duly qualified to publish legal notices or advertisements within the mean	ning
	of Section 3, Chapter 167, Session Laws of 1937, and that payment there	fore
	has been made or assessed as court cost; that the notice, copy of which	ch is
	nereto attached, was published in said paper in the regular daily edit	
	20 K/ ()	dav
	of CCCOCC, 1995, and the subsequent consecutive publications	s .
	, 1995 Bill Talan	L.
,	Sworn and subscribed to before me, a notary Public in	
OFFICIA		
Megan	Garcia Mexico, this 94/41 day of Ct 1995	
STATE OF NE	PUBLIC W MEXICS PRICE 14.47	
	Statement to come at end of month.	
MICICIA	-Jacca-	

CLA-22-A (R-1/93) ACCOUNT NUMBER (8/582)