

717 17th Street, P.O. Box 2250 Hije - - - Denver, Colorado 80201-2250

June 23, 1982

Oil Conservation Division 1000 Brazos Road Aztec, NM 87410

Attn: Oscar Simpson

RE: Our Conversation on Media Entrada

Unit

Dear Sir:

This letter is pursuant to Petro-Lewis Corporation's application for administrative approval of salt water disposal through its Media Entrada Unit Well #4.

The original application filed by Petro-Lewis Corporation for a salt water disposal permit was in error. At the time of the original filing it was not known that the Oil Conservation Commission had approved a pressure maintenance project on the Media Entrada Unit. Approval for the project was given on May 22, 1975; Order No. R-5017, Case No. 5465.

The enclosed application is a request to expand the existing pressure maintenance project. This information for this request should be complete, but if you have any questions, please contact me at (303)620-2647.

Your cooperation in this matter is greatly appreciated.

Sincerely,

PETRO-LEWIS CORPORATION

Stever M. Kingg

Steven M. King Petroleum Engineer

SMK/ag

enclosures



Name: Steven M. King

OIL CONSERVATION DIVISION THE TOTAL FORM C-108

,	STATE LAND OFFICE BLIN DING SANTA FE NEW ME ALLU B /501
PPLIC	ATION FOR AUTHORIZATION TO INJECT
ı.	Purpose: Secondary Recovery X Pressure Maintenance Disposal Storage Application qualifies for administrative approval? X yes no
11.	Operator: Petro-Lewis Corporation
	Address: 717 17th Street, P. O. Box 2250, Denver, CO 80201
	Contact party: Steven M. King Phone: (303) 620-2647
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? \mathbb{K} ves one noted and the project $\frac{R-5017}{2}$.
٧.	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.
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.
ŲΙΙ.	Attach data on the proposed operation, including:
	 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.).
III.	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/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
х.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
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.
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.
III.	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.

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

Title <u>Petroleum Engineer</u>

Date: June 7, 1982

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hale size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which a may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells:
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



Petro-Lewis Tower 717 17th Street, P.O. Box 2250 Denver, Colorado 80201 303/620-1000

June 8, 1982

OFFSET OPERATORS

Gentlemen:

Petro-Lewis Corporation wishes to convert its Media Entrada Unit well #4 to a water injector well to expand an existing pressure maintenance project. The well is located in Section 14, T-19-N, R-3-W, Sandoval County, New Mexico. Produced water will be disposed of through tubing and under a packer into the Entrada formation of oil or gas in economically feasible quantities.

If you have no objection to this injection request, please sign the waiver below and return it in the enclosed envelope. You may retain one copy for your files. If I can supply you with any additional information please let me know.

Sincerely,

Steven M. King Petroleum Engineer

SMK:amb

WAIVER

We have been notified of Petro-Lewis Corporation's request for a water injection in the well identified above. We are aware of the facts and hereby waive any objection to approval of this request/

Signed:	/	
Company:	Marshall & Winston fre-	
Date:	William S. Maryhall, President	6/12/52
		/ /

NOTES

1) Top of cement on 5-1/2" string was checked. ***

548 sx used of Class-C cement

Assuming:

5.7719 (line ft/cubic ft) - Halliburton

1.32 (cubic ft/sx) - Halliburton

75% efficiency

Therefore:

$$(5.7719) \times (1.32) \times (.75) \times (548) = 3131.4 \text{ (ft)}$$

Check of cement top:

$$(5346) - (2214) = 3132 (ft)$$

2) Schematics for the 5 plugged and abandoned wells in 1/2 mile radius are not presented., Detailed information of these P/A's could not be obtained. The fact that they were P/A'd is all the information we have on these 5 wells.



OPERATOR	PETRO-LEWIS CORPORATION MEDIA ENTRADA UNIT					
			EASE			
WELL NO.	1650' FWL & 1980' FOOTAGE LOCATION	FSL	14 SECTIO:		19-N TOWNSHIP	RANGE
	EMATIC			TABULAR		Minob
3011.	MITTO	0 -5-	-	ADCEAR	DATA	
			ce Casing			
					Comented with	
		TOC	surface	feet	determined by	circulation.
		Hole	size12-	-1/4"		
)		Inter	mediate Casi	ng		
SCHEMATIC		Size_		11	Cemented with_	s
ATTACHED		тос		feet	determined by	
		Hole:	size			
			String			
				1.1	Cemented with	548 s :
						calculation
			size			
		Total	depth 5	346'		
		Inject	:ion interva		feet to prated or open-	5298 feet hole, indicate)
			N.			
			· 4	N.		
		The state of the s	718 84882 0001 704 1887. 3	The state of the s		
Tubing size2	1-7/8" lined wi	th int		ic coat	ing	_ set in a
	!-7/8" lined wi		ernal plast		ing	_ set in a feet.
Baker					ing	
Baker (brand a	R-3	P	ernal plast		ing	
Baker (brand a (or describe an	R-3 nd model)	P	ernal plast		ing	
Baker (brand a (or describe an Other Data	R-3 nd model)	P	ernal plast		ing	
Baker (brand a (or describe an Other Data 1. Name of the	R-3 nd model) y other casing-tubing se	al).	ernal plast packer at	5125'	ing	
(brand a (or describe an Other Data) 1. Name of the 2. Name of Field	R-3 nd model) y other casing-tubing se injection formation d or Pool (if applicable	P al)Entra)M	da dedia Entrad	5125'		
Baker (brand a (or describe an Other Data 1. Name of the 2. Name of Field 3. Is this a new	R-3 nd model) y other casing-tubing se injection formation	Entra)M tion?	da da Yes	5125' X_No		
Baker (brand a (or describe an Other Data 1. Name of the 2. Name of Field 3. Is this a new If no, for wheel 4. Has the well	rR-3 nd model) y other casing-tubing se injection formation d or Pool (if applicable w well drilled for injec hat purpose was the well ever been perforated in d give plugging detail (se	Entra) M tion? origin	da da dedia Entrad. Yes ally drilled her zone(s)?	3 X No	l Production all such perfe	feet.
Baker (brand a (or describe an Other Data 1. Name of the 2. Name of Field 3 Is this a new If no, for wheel 4. Has the well intervals and	nd model) y other casing-tubing se injection formation d or Pool (if applicable w well drilled for injec hat purpose was the well ever been perforated in d give plugging detail (so	Entra) M tion? origin any ot	da da da edia Entrad. Yes ally drilled her zone(s)?	X_No i?Oi List bridge	l Production all such perfo	feet.
Baker (brand a (or describe an Other Data 1. Name of the 2. Name of Field 3. Is this a new If no, for wheel 4. Has the well intervals and 5. Give the dept in this area.	nd model) y other casing-tubing se injection formation d or Pool (if applicable w well drilled for injec hat purpose was the well ever been perforated in d give plugging detail (so	Entra) M tion? origin any ot	da da da edia Entrad. Yes ally drilled her zone(s)?	X_No i?Oi List bridge	l Production all such perfo	feet.

INJECTOR MEDIA O H3 HUTCHINSON FEDERAL # 1 A 五く ENTRADA ENTRADA PRUPOSED MEDIA MEDIA # MEDIA PtA HARVE 9 0000 = MEDIA ENTRADA # MEDIA O AT (ENTRADA #3) MEDIAZ#8 ENTRADA # 6 HUTCH INSON) T S H ENTRADA SCALE: MEDIA . MEDIA JUN 2 8 1982 OIL CON. COM. DIST. 3

RZW

Petro-Lewis Tower 717-17th Street, P.O. Box 2250 Denver, Colorado 80201-2250 303/620/1000

Oil and Gas Producers

June 7, 1982

Marshal and Winston, Inc. P.O. Box 874 Midland, TX 79703

RE: Application to convert Media Entrada Unit #4

Gentlemen:

Attached is an application to convert the Media Entrada Unit Well #4 to a water injector. This is an expansion of an existing pressure maintenance project. This information is supplied to you in addition to a waiver for the proposed water injector. The waiver should be returned to Petro-Lewis in the enclosed return-envelope. The information should be complete, but if you have any questions, please contact me at (303) 620-2647.

Your cooperation in this matter is greatly appreciated.

Sincerely,

PETRO-LEWIS CORPORATION

Steven M. Ying

Steven M. King Petroleum Engineer

SMK/ag

attachments

1082



Petro-Lewis Tower
717 17th Street, P.O. Box 2250
Denver, Colorado 80201-2250
SALATA FÉ 303/620-1000

Oil and Gas Producers

June 7, 1982

Bureau of Land Management P.O. Box 1449 Santa Fe, NM 87501

> RE: Application to convert Media Entrada Unit #4

Gentlemen:

Attached is an application to convert the Media Entrada Unit Well #4 to a water injector. This is an expansion of an existing pressure maintenance project. The information for this request should be complete, but if you have any questions, please contact me at (303) 620-2647.

Your cooperation in this matter is greatly appreciated.

Sincerely,

PETRO-LEWIS CORPORATION

Steven M. King

Petroleum Engineer

SMK/ag

attachments

(1000) (1

WELL TESTS

No well test information available.



Media Entrada Unit #4
Sec. 14, T19N, R3W
Sandoval County, New Mexico

RE: Para X-C-108

LOGGING AND TEST DATA

An electric log was filed with the New Mexico Oil Conservation Division 12-1-81.

RE: Para XI-C-108

CHEMICAL ANALYSIS OF FRESH WATER

There are no producing fresh water wells within one mile of the proposed disposal well. Therefore, a sample was not obtained and analyzed.

Media Entrada Unit #4 Sec. 14, T19N, R3W Sandoval County, New Mexico

RE: Para XII-C-108

AFFIRMATIVE STATEMENT

Petro-Lewis Corporation has examined available geologic and engineering data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Media Entrada Unit #4 Sec. 14, T19N, R3W Sandoval County, New Mexico

RE: Para XIII-C-108

NOTICE

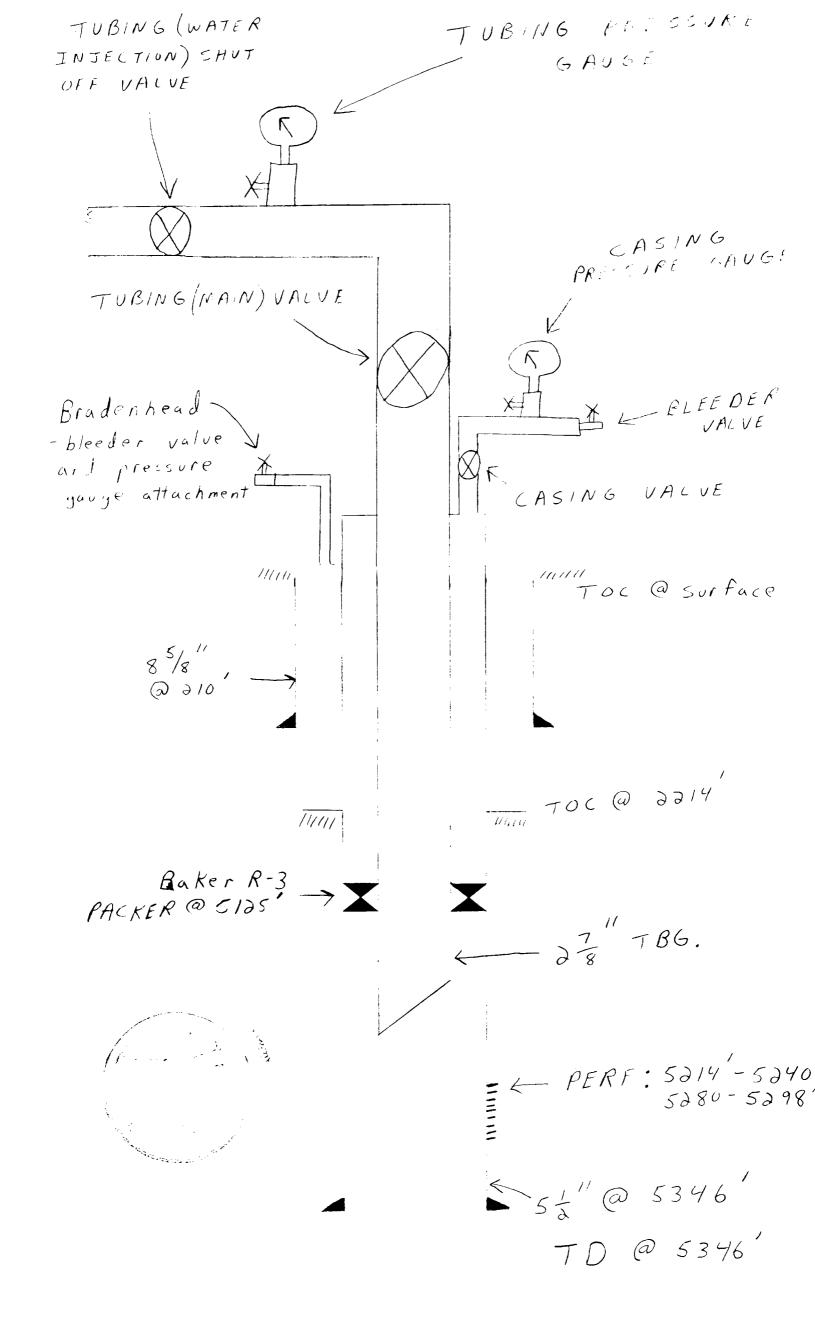
Surface Owners:

Bureau of Land Management P. O. Box 1440 Santa FE, New Mexico 87501

Leaseholders within one-half mile:

Marshal and Winston, Inc. Box 874 Midland, Texas 79703





	Location	Well Name
		
/ SW-NE	27 - R3W - T19N	Federal #7-27
2 SE-NW	27 - R3W - T19N	Federal #6-27
SE-NE	26 - R3W - T19N	Federal #1-26
→ NW-NE	23 - R3W - T19N	Flint #1
S NW-SW	23 - R3W - T19N	PLR Inc. #1
NE−NW	22 - R3W - T19N	Fluid Power Pump #5-22
➤ SW-NE	22 - R3W - T19N	Miller Federal #7-22
NE-NE	22 - R3W - T19N	Federal Media #8
9 NE-NW	22 - R3W - T19N	Fluid Power Pump #5
• SE-NE	22 - R3W - T19N	Federal Media #6
// SW-NE	22 - R3W - T19N	Federal Media #7
/ NW-NE	22 - R3W - T19N	Federal Media #3
· SE-NE	22 - R3W - T19N	Federal Media #5
.⁴/SE-NW	22 - R3W - T19N	Boling Federal #6-22
. SE-SW	22 - R3W - T19N	Moore #1
// SE-SW	22 - R3W - T19N	Moore #2
/7 SE-SE	22 - R3W - T19N	Federal #1
, 8 NE-NW	22 - R3W - T19N	Boling Federal #8
∙ ¶ NE-SE	16 - R3W - T19N	C. Gonzales #1
NE−SE	15 - R3W - T19N	Hutchinson #2
★ / SE-NE	15 - R3W - T19N	Media Entrada #1
↑ L NE-SE	15 - R3W - T19N	Media Entrada #2
e > SW-SE	15 - R3W - T19N	Media Entrada #5
· YSE-SE	15 - R3W - T19N	Media Entrada #6
7 5 NW-SW	14 - R3W - T19N	Media Entrada #3
₹ € NE-SE	14 - R3W - T19N	Media Entrada #4
27SW-SW	14 - R3W - T19N	Media Entrada #7
2 F SE-SW	14 - R3W - T19N	Media Entrada #8
₹ 1 SW-SE	14 - R3W - T19N	Media #2
> SW−SE	14 - R3W - T19N	Media #1
7/ NW-SW	14 - R3W - T19N	Hutchinson Federal #1
32 SW-NW	14 - R3W - T19N	Harvey Federal #1
77 NW-SW	13 - R3W - T19N	Torreon #1-13

NOTICE TO LESSEES AND OPERATORS OF FEDERAL AND INDIAN OIL AND GAS LEASES (NTL-2B)

- Media Entrada Unit #4, 1650' FWL & 1980' FSL, Sec. 14, T-19-N, R-3-W Lease Number: NM 043286-A
- Average daily rate 3000 BWIPD Maximum daily rate 5000 BWIPD.

The produced fluid will come from the Entrada formation and will be injected into the Entrada formation (the same formation). A water analysis was not available, but a water analysis from the Media Entrada Unit #7 is attached. A map locating both the Media Entrada Units #4 and #7 is also included.

- Injection Formation: Entrada Injection Interval: (Perf) 5214'-5298'.
- 4. Please see part #2 and note that fluid will be produced from and injected into the same formation.
- 5. The State of New Mexico considers water with less than 10,000 mg/liter of dissolved solids as being fresh. Therefore all the zones above the Entrada formation contain fresh water by definition, with the Entrada formation containing water that is very close to fresh (from the attached water analysis). Therefore all the zones are listed below with the depth at which it is found in the Media Entrada Unit #4. It is not known if a particular zone will produce in this area. Areal extent is unknown.

Mesaverde	402'
Point Lookout	1994'
Mancos	2140'
Gallup	2824'
Greenhorn	3972'
Graneros Shale	4030'
Dakota	4250'
Morrison	4451'
Todilto	5210'
Entrada	5282 '

The formations below the Entrada are not believed to have fresh water.

6. 8-5/8", 24#, Class "J" casing set @ 210' in a 12-1/4" hole. Cemented with 140 sx of Class "A" with 3% Calcium Chloride. Circulated.

5-1/2", 14#, Class "J" casing set @ 5346' in a 7-7/8" hole. Cemented with 274 sx Class "C" and 274 sx Diamix and 45 sx Calcium Chloride. Top of cement calculated at 2214'.

7. Total depth: 5346'.



			H		_		
Well Name, Number Operator	Media Entrada #6 Operator: Petro-Lewis	P4A Petroleum P4A	Media Entrada #1 Operator: Petro-Lewis	Media Entrada #2 Operator: Petro-Lewis	Media #2 Operator: Harry L. Bigbee	Media #1 Operator: Harry L. Bigbec	Hutchinson Federal #1 Operator: Magnolia Petroleum
Location: Unit Sec; Twp, Range	940' FSL, 330' FEL Unit P, Sec. 15 R3W - T19N	Unit C, Sec. 15 R3W - T19N	2310' FNL, 330' FEL Unit H, Sec. 15 R3W - T19N	1650' FSL, 330' FEL Unit J, Sec. 15 R3W - T19N	595' FSL, 2080' FEL Unit 0, Sec. 14 R3W - T19N	330' FSL, 2310' FEL Unit 0, Sec. 14 R3W - T19N	1980' FSL, 660' FWL Unit L, Sec. 14 R3W - T19N
Type	0il Prod.	0il Prod.	Water Injector	Oil Prod.	0il Prod.	Dry Hole	Oil Prod.
ملت ا	4/14/69	11/18/53	11/29/71	2/18/72	12/12/62	7/27/62	7/3/53
យ	6/1/69	1/2/54	3/9/72	4/1/72	1/3/63	8/12/62	11/20/53
TD	5280'	5202'	5300'	5320'	3132'	5351'	9684
th PBTD			5212'				5231'
Zone(s)	Entrada	Entrada	Entrada	Entrada	Gallop	Entrada	Entrada
) Perf(s) and Well Construction	Perf: 5217' - 5226' Casing: 8 5/8" @ 208' w/175 sx 4 1/2" @ 5280' w/275 sx	Perf: 5200' - 5202' Casing: 9 5/8" @ 470' w/475 sx 7" @ 5200' w/520 sx P/A	Perf: 5188' - 5202' Casing: 10 3/4" @ 210'	Perf: 5218' - 5240' Casing: 10 3/4" @ 207 w/140 sx 7" @ 5320 w/350 sx	Perf: 2719' - 3132' Casing: 8 5/8" @ 110' w/50 sx 5 1/2" @ 2719' w/50' P/A	Casing: 8 5/8" @ 224' w/150 sx	Perf: 5210' - 5220' also@5240' Casing: 10 3/4"@452' w/550 sx

cord of Completion:

	—		
Operator Media Entrada #7 Operator: Petro-Lewis	Media Entrada #8 Operator: Petro-Lewis	Media Entrada #3 Opcrator: Petro-Lewis	Harvey Federal #1 Operator: Magnolia Petroleum
990' FSL, 660' FWL Unit M, Sec. 14 R3W - T19N	990' FSL, 1650' FWL Unit N, Sec. 14 R3W - T19N	1980' FSL, 330' FWL Unit L, Sec. 14 R3W - T19N	Unit E, Sec. 14 R3W - T19N
0il Prod.	Water Injector	Oil Prod.	Dry Hole
3/25/69	5/19/69	10/11/71	2/7/54
5/10/69	7/7/69	11/23/71	3/6/54
5310'	5344	5351'	5292'
	5311'		
Entrada	Entrada	Entrada	Entrada
Perf: 5252' - 5258' Casing: 8 5/8" @ 230' 4 1/2" @ 5300' w/300 sx	Perf: 5290' - 5295' Casing: 8 5/8" @ 200' w/150 sx 4 1/2" @ 5344 w/300 sx	Perf: 5206' - 5254' Casing: 10 3/4"@ 217' w/140 sx 7"@ 5340' w/150 sx	Casing: 10 3/4" @ 478' w/500 sx P/A

NOTICE TO LESSEES AND OPERATORS OF FEDERAL AND INDIAN OIL AND GAS LEASES (NTL-2B)

8. Closed system. 2-7/8" tubing with internal plastic coating with a Baker R-3 packer set at 4500'.

Average pressure: 750 psi Maximum pressure: 1000 psi.

Packer fluid will fill the annulus above the packer.?

9. System will be monitored weekly for leakage. Well will be shut-in immediately if leakage is detected.

****\\0

4

Media Entrada Unit #4 Sec. 14, T19N, R3W Sandoval County, New Mexico

RE: Para VII-C-108

DATA ON PROPOSED OPERATION

Proposed average and maximum daily rate and volume of fluids to be injected:

Average daily rate of 3000 BWIPD Maximum daily rate of 5000 BWIPD

- 2. System is closed.
- 3. Proposed average and maximum injection pressure:

Average injection pressure 750 psi Maximum injection pressure 1000 psi

4. A. Source of injection fluid:

Produced water from Media Entrada Unit, Entrada formation.

B. Analysis of formation fluid:

Attached copy of water analysis for the Media Entrada #7. This well is being produced from the same zone as the Media Entrada #4 (Entrada). This is also the zone that will be injected into. A water analysis was not available on the Media Entrada #4, the #7 was the closest well with a water analysis. Both are located on the attached map.

. Zone of disposal is productive of oil within one mile of the proposed disposal well.

JUN 2 8 1082 OIL COM, COM, DIST. 3

FRESH WATER

The State of New Mexico considers water with less than 10,000 mg/liter of dissolved solids as being fresh. The attached water analysis is from the Media Entrada Unit #7. A water analysis for the Media Entrada Unit #4 was not available, the #7 was the closest well to the #4 with a water analysis.

The Entrada formation is very close to being fresh with a total of 10,500 mg/liter. All zones above the Entrada are probably fresh by definition. It is not known which zones will produce water, therefore, all zones are listed with the depths that they are found in the Media Entrada Unit #4.

Mesaverde	402'
Point Lookout	1994'
Mancos	2140'
Gallup	2824'
Greenhorn	3972'
Graneros Shale	4030'
Graneros Dakota	4178'
Dakota	4250'
Morrison	4451'
Toldito	5210'
Entrada	5282'



REPORT OF WATER ANALYSIS

From

Petro - Lewis Media Leases

Analysis Date June 25, 1973

Sample Marked Federal Media No. 1

MILLIGRAMS PER LITER

Chloride (as NaCl)	10,500	
Total Hardness (as CaCO ₃)	760	
Calcium Hardness (as CaCO ₃)	750	
Total Alkalinity (as CaCO ₃)	480	
Acidity to Phenolphthalein (as CaCO ₃)	40	
Sulfate (as Na ₂ SO ₄)	6,500	
Total Iron (as Fe)		
Suspended Solids		
Precipitated By Sulfate (as BaSO ₄)		Will Day was a second
Turbidity (SiO ₂)		
H ₂ S	110	UIST, 3
02	0	
pH	7.0	
Specific Gravity		
	CCC	

*Estimated

NALCO CHEMICAL COMPANY VISCO CHEMICALS

Analyst

Media Entrada Unit #4 Sec. 14, T19N, R3W Sandoval County, New Mexico

RE: Para VIII-C-108

GEOLOGICAL DATA

Pool: Media Entrada Unit

Formation: Entrada

Geological Name: Entrada Thickness: Exists to TD

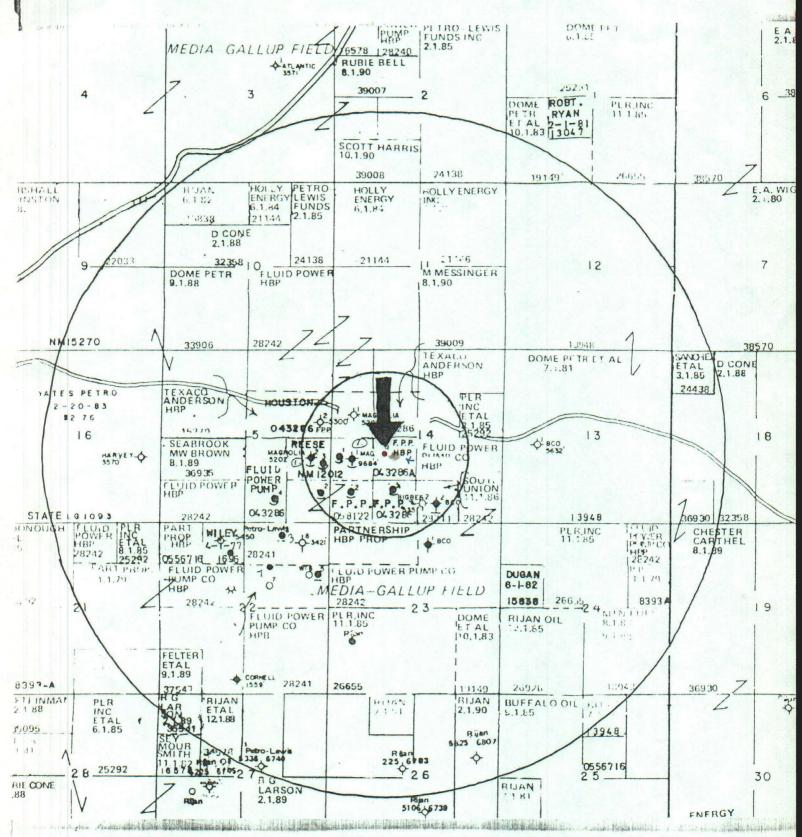
Depth: at 5282 feet

Injection Interval: 5214-5298 feet

RE: Para IX-C-108

STIMULATION PROGRAM

No stimulation program is currently being proposed for this well.



SCALE: 1" = 3000'



June 7, 1982

Legal Advertisement Department Albuquerque Journal P. O. Drawer J Albuquerque, New Mexico 87103

Gentlemen:

The attached notice is to be published as soon as possible. Billing and an affidavit of publication should be addressed to:

- H. .

Petro-Lewis Corporation Petro-Lewis Tower 717 17th Street P. O. Box 2250 Denver, Colorado 80201 ATTN: Steven M. King

If you have any questions regarding the notice, please call me at (303) 620-2647. Sincerely,

Steven M. King Petroleum Engineer

SMK:amb



Petro-Lewis Corporation Petro-Lewis Tower 717 17th Street P.O. Box 2250 Denver, Colorado 80201 (303) 620-2647

Contact: Steven M. King

Petro-Lewis Corporation intends to convert the Media Entrada Unit well #4 in order to expand an existing pressure maintenance project. Well location is 1650' FWL and 1980' FSL of Section 14, Township 19 North, Range 3 West, Sandoval County, New Mexico.

The injection interval is through perforations from 5298' - 5214' in the Entrada formation. The maximum anticipated injection rate is 3.5 BPM at 1000 psi. Maximum anticipated volume is 5000 BPD.

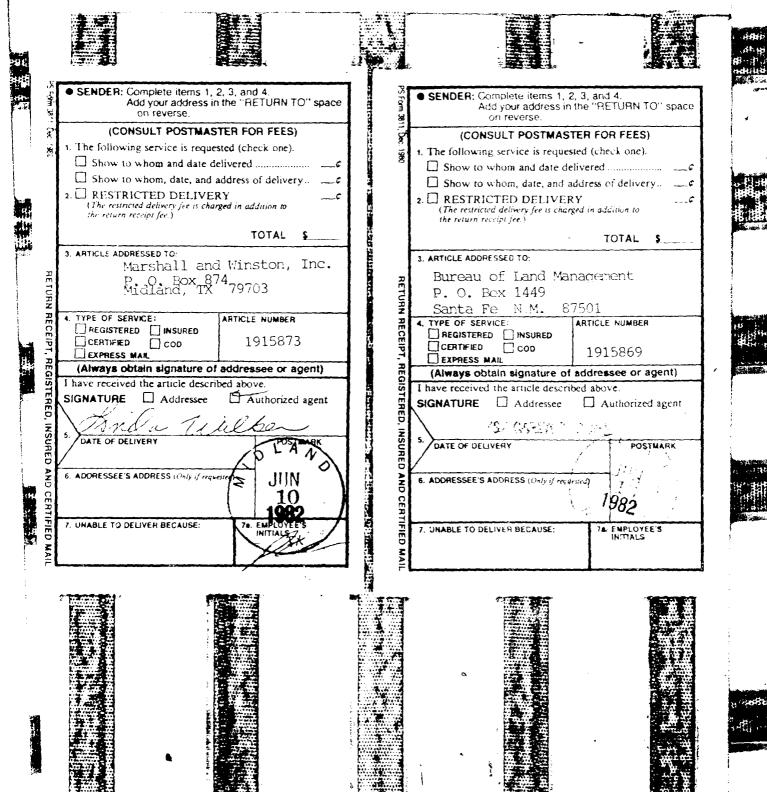
Interested parties must file objections or requests for hearing with the Oil Conservation, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

Contact Steven M. King Petro-Lewis Corporation Petro-Lewis Corporation intends to convert the Media Entrada Unit well No. 4 in order to expand an existing pressure maintenance project. Well location is 1650° FWL and 1980° FSL of Section 14, Township 19 North, Range 3 West, Sandoval County, New Mexicon 1980° FSL of Section 14, Township 19 North, Range 3 West, Sandoval County, New Mexicon 1980° FSL of Section 14, Township 19 North, Range 3 West, Sandoval County, New Mexicon 1980° FSL of Section 14, Township 19 North, Range 3 West, Sandoval County, New Mexicon 1980° FSL of Section 1980° FSL of The injection interval is through perforations from 5298 5214 in the Enrada formation. The maximum anticipated volume is 5000 ps. Maximum anticipated volume is 5000 Interested parties must file objections or requests for hearing with the Oil Conservation, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 anticipated BPD. orreet, P.O. Box 2250, Denver, Colorado 80201, (303) 620-2647. Petro-Lewis Tower, Petro-Lewis Tower, Street, P.O. Box 2250, Journal, June 12, 1972 Corporation, er, 717 17th of. says that he is with deliver, of Albuquerque Journal, and that this news-STATE OF NEW MEXICO, for is hereto attached, was published in said paper in the regular daily edition, paper is duly qualified to publish legal notices or advertisements within the for has been made or assessed as court costs; that the notice, a copy of which meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therelications on County of Bernalillo AL NUANES 22677 Y 5 (19) 2X ومجمدا ا SS Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico. this 14 day of Design duly sworn declares and , 194. A, and the subsequent consecutive pub-Buck Coll こととり J. 261 , 197...

My Commiss on that TAKE PUBLE - NEW MEXI The state of the s CTARY OF STATE 58-81-11

My commission expires

Notary Public.



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