## OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

May 25, 1978

Petro-Lewis Corporation Box 509 Levelland, Texas 79336

Re: Administrative Order No. SWD-207

Gentlemen:

Enclosed herewith please find Administrative Order No. SWD-207 for the following described well:

Fluid Power Pump Well No. 5 located in Unit C of Section 22, Township 19 South, Range 3 West, Sandoval County, N. Mex.

Very truly yours,

JOE D. RAMEY
Division Director

JDR/CU/og

1:

cc: Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico BECOMMENDED IN A SETEMBLE OF A

THE LONG THE

maid recrease of the reader of

The many of the state of the second of the s

evilanteinien natu essei maders on emplication on the first of the first one for the first of the section of th

obside rower rum week ha. 3 central wolkle bott bention 22, rommant, the besting water of any

Commence Committee

nou main anizavás

malaryk werdendende lêt bes eel outsik bût ti eo met oft politik

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A

OPERATOR				ADDRESS				
PETRO - LEWIS CORPORATION				BOX 509 LEVE <b>LEAND, T</b> EXAS 79336				
LEASE NAME	WELL NO.	FIELD				COUNTY		
FLUID POWER PUMP COMPANY		5-22	5-22 ENTRADA				SANDOVAL	
LOCATION								
UNIT LETTER	· ME	L IS LOCATED 400	) ====		NORTH	1405 405	1980 FEET FROM THE	
•···· <u></u>	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 100001120	V	FROM THE	1101(111	CINE AND	TSOO FEEL FROM THE	
WEST LINE, SECTION	22 <sub>Tow</sub>	NSHIP 19	RANGE	3	NMPM.			
	CASING AT		ND TUBING DA	TUBING DATA				
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEM	CKS CEMENT TOP OF CEME		EMENT	TOP DETERMINED BY	
SURFACE CASING								
	10 3/4	241'	150sxs		circulated		surface	
INTERMEDIATE				-				
LONG STRING								
LONG STRING							_	
TUBING	7	5436	450sxs	DEPTH OF	3020 TUBING PACKER		CBL LOG 12-8-73	
	0 7 (0						001	
NAME OF PROPOSED INJECTION FORMAT	2 7/8	2800'	GUIBERSON		-PACKER-		M OF FORMATION	
			20041	•		25.5	0.1	
GALLUP IS INJECTION THROUGH TUBING, CASING	OR ANNULUS?	PERFORATIONS O	2894		NTERVAL(S) OF	1355	0.	
		DEDEOD VIII	TONG	2900'-	24001		i	
THROUGH TUBING IS THIS A NEW WELL DRILLED FOR DISPOSAL?	IF ANSWER IS	PERFORAT	WAS WELL ORIG			HAS W	ELL EVER BEEN PERFORATED IN ANY OTHER THAN THE PROPOSED INJEC-	
	OTT. PPOT	אוורדים / ו	ו מחמקייואים			TION Z	ONE? YES	
NO LIST ALL SUCH PERFORATED INTERVAL	S AND SACKS OF CEN	MENT USED TO SEAL OF	F OR SQUEEZE EA	СН			1110	
5346'-76'.Set CICR &	SOUREZE W/	100sx C1 "C" (	a5300'. &	SPOT 1	OO" CMT	on ton	of retainer	
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA		DEPTH OF BOTTOM OF N	EXT HIGHER		DEPTH OF	TOP OF NEX	T LOWER	
		2894', MANCOS			1		MANCOS	
ANTICIPATED DAILY MINIMUM	MAXIMUM	OPEN OR CLOSED	TYPE SYSTEM	SE SYSTEM IS INJECTION TO BE BY GRA		GRAVITY OR	APPROX. PRESSURE (PSI)	
(BBLS.) 5000 1 2000	5000	) CL(	OSED				200#	
ANSWER YES OR NO WHETHER THE FOLI ERALIZED TO SUCH A DEGREE AS TO BE STOCK, IRRIGATION, OR OTHER GENERA	OWING WATERS ARE . Unfit for Domest ! !!sf	MIN- WATER T	O BE DISPOSED O		NATURAL WATER IN DISPO- AF SAL ZONE		ARE WATER ANALYSES ATTACHED?	
NAME AND ADDRESS OF SURFACE OWNE	VES	EN'	ENTRADA		GALLUP		YES	
NAME AND ADDRESS OF SURFACE OWNE.	A (OR LESSEE, IF SI	ATE OR FEDERAL LAND)	ı					
STATE	PERATORS WITHIN O	VE-HALF (1) MILE OF T	HIS INTECTION W	e				
		•						
YATES PETROLEUM, 207	WEST 4th ST	REET ARTESIA	, NEW MEX	ICO, 88	3210			
· · · · · · · · · · · · · · · · · · ·	<del></del>							
HAVE COPIES OF THIS APPLICATION BE SENT TO EACH OF THE FOLLOWING?	EN SURFACE OWNE	R	EACH OPERA	ATOR WITH!	N ONE-HALF MIL	. E		
	1	YES	1	YES		,		
ARE THE FOLLOWING ITEMS ATTACHED THIS APPLICATION (SEE RULE 701-B)	TO PLAT OF AREA		ELECTRICAL			DIAGRA	MMATIC SKETCH OF WELL	
	ON FILE	E USGS, NMOCC	ON F	ILE USC	S, NMOCC	1	ATTACHED	
I bereby cer		rmation above is tru	ue and comple	te to the l	oest of my kn	owledge a	nd belief.	
Smills 1	//_							
TYMUA Y JANGLY SENTOR DRI			LLING FOREMAN			5-8-78		
(Signature)	//		(Title)			·	(Date)	

### HNITED STATES

WEIGENWEY	16
FORMIT IN TRIPLICATE*	Form approved, Budget Bureau No. 42-R142:

ONTI	LD.	JIAII	LJ	• - 1
DEPARTMENT	OF	THE	INTERIO	OR-

					2.3114	337781 -	5! MAASE DESIGNATION	AND SERIAL NO.
	· -	OGICAL SURV					NM-1696	
APPLICATION	N FOR PERMIT	TO DRILL,	DEEPE	N, OR PL	UG	ΑĈΚ	G. IF INDIAN, ALLOTTEI	OR TRIBE NAME
1a. TYPE OF WORK	_							
		DEEPEN		PLU	G BA		7. UNIT AGREEMENT N	AME
b. Type of Well	A8 🗍			NGLE X	MULTIP		8. FARM OR LEASE NAM	
WELL X	VELL OTHER		ZO	NE LAJ	ZONE		-}	_
Petro-Lewis (	Corporation						Fluid Power	Pump Co.
3. ADDRESS OF OPERATOR	or portation.						#5 -22	
P.O. Box 509,	Levelland, Te	xas 79336					10. FIELD AND POOL, O	R WILDCAT
At curface	teport location clearly an		th any S	tate requirement	s. • )		Entrada	
400'	FNL & 1980' FW	L					11. SEC., T., E., M., OR I	alk.
At proposed prod. zo:	ne 5346'-76'						JA DOZINE VE AL	LA
							Sec. 22-T19N	1-R3W
14. DISTANCE IN MILES	AND DIRECTION FROM NE.	AREST TOWN OR PO:	ST OFFICE	•			12. COUNTY OR PARISH	13. STATE
13 miles SW	of Cuba, N.M.						Sandoval	N.M.
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OF LEASE	T		16. NO.	. OF ACEES IN L	KASE		OF ACRES ASSIGNED HIS WELL	
(Also to nearest drl	g. unit line, if any)						160	
	RILLING, COMPLETED,		19. PR	OPOSED DEPTH		20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON TE				5450'		<u> </u>	1 99	
	910' KB, 6897 c	ea head					22. APPROX. DATE WO 2-25-78	RK WILL START
23.							2-23-78	
		PROPOSED CASI	NG AND	CEMENTING	PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	700 <b>T</b>	SETTING DE	PTH		QUANTITY OF CEMEN	
13-3/4"	10-3/4"	32.7		241'		I	x. Cl "A' w/3%	
8-3/4"	7"	20# & 2	23#	5436'			x. 50/50 Posmix	
			1		_		x. C1 "C" w/8%	_
	12-23-77, Petro							
	ango, Colo., to							
	abandon the Fe							
	co-Lewis Corp.	-		-				
	cada Producer a							
	t salt water di			iese to re	compi	ccc cm	c currup us u	. cprace
	g Back Procedur							
<u></u>	<del></del>		irill	retainer	e 530	0' and	squeeze perfs	-
	_						tainer. Cmt.	
		s. Class "C						
	2nd Plug - Pu	mp plug fro	om 430	00' to 380	0'-50	0', wi	th 100 sx. Clas	ss "C"
		at cmt.				1		
					Tomea	by a	request to reco	ompiece
	as a Gallup S		-					
	r proposen program; If   drill or deepen direction   y -							
24.								
SIGNED _ Som	Juply	т	TLE SY	. Drillin	g For	eman	DATE 1/23/	78
(This space for Fede	eral or State office use)	<del></del>						<del></del>
PERMIT NO.				APPROVAL DATE _				77 17 17
							्राच्या । विकास	V 13 11 11
APPROVED BY		ті	TI.E				DATE	
CONDITIONS OF APPROV	AL, IF ANY:						Cross E to 1	9/8
• ·								

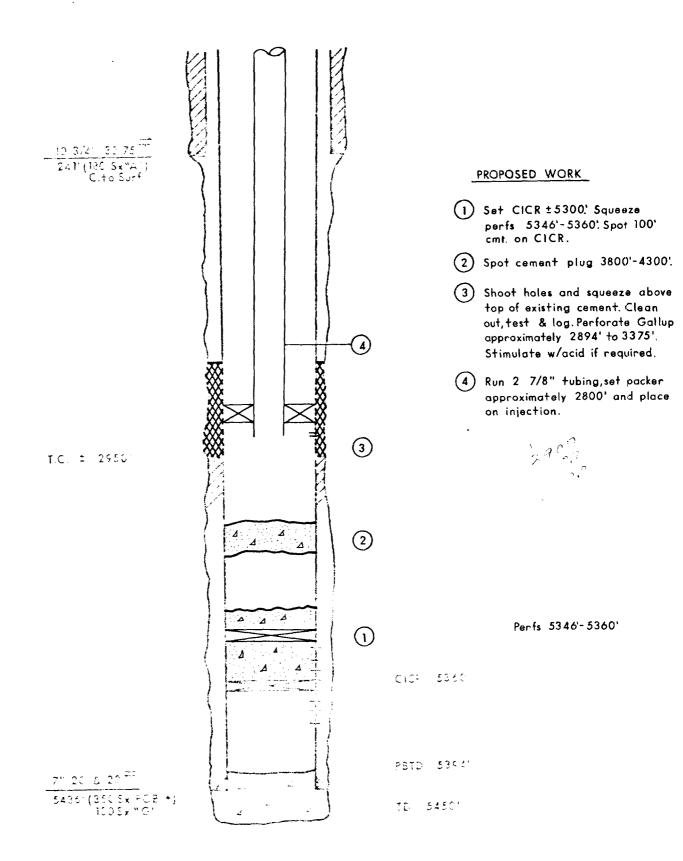
\*See Instructions On Reverse Side

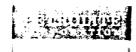
U. S. GEGLOGICAL SURVEY LUBERIO, COLO.

NO. OF COPIES RECEIVED			MECE!	A BON		
DISTRIBUTION	NEW	MEXICO OIL CONSE	RAMILION COMMISSIO	*****	m C-101	
SANTA FE			1 10	1978	vised 1-1-6	
FILE				31		Type of Lease
U.S.G.S.			The A to A	1034	STATE _	X FEE
OPERATOR				The state of		
OT ENATOR			Santa r	·e	NM-169	$mmm\tilde{n}$
APPLICATIO	N FOR PERMIT TO	DRILL DEEDEN	OP PLUG BACK			
1a. Type of Work	IT TORY EXAMPLE TO	DRILL, DLLI LIV,	OR FEGG BACK	<del></del>	7. Unit Agree	ement Name
5011		2555	<b></b>			
b. Type of Well DRILL		DEEPEN	PLUG	BACK	8. Farm or Le	ease Name
OIL GAS WELL	X OTHER CONVE	RT TO SWD	ZONE X	ZONE	LFUID 1	POWER PUMP CO.
2. Name of Operator					9. Well No.	
PETRO-LEWIS CORPOR	ATION			ļ		5-22
3. Address of Operator					10. Field and	d Pool, or Wildcat
BOX 509 LEVELLAND	TEXAS, 79336				ENTRAD	A
4. Location of Well UNIT LETTE	R LOC	ATED 400	EET FROM THE NORTH	LINE	IIIIII	
AND 1980 FEET FROM	THE WEST LIN	E OF SEC. 22	ws. 19 RGE.	3 нмрм	77/////	
					12. County	
				7777777	SANDOVA	$\Gamma$
HHHHHHH			9. Proposed Depth		7//////	
		//////////////////////////////////////		19A. Formation		20. Rotary or C.T.
21. Elevations (Show whether DF,	RT ats 215 Year		PBTD @3800'	GALLUP	100	ROTARY
	77, 776.) ZIA. Kind	a Status Flug. Sond	_		22. Approx.	Date Work will start
6896'GR, 6910'FB			N/A		<u> </u>	5-78
200	F	ROPOSED CASING AND	CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPT	H SACKS OF	CEMENT	EST. TOP
13 3/4"	10 3/4"	32.74#	241'	150sx.		surface
8 3/4"	7"	20 & 23#	5436'	450sx.		3020'
WATER DIS	IS CORPORATION, POSAL, PURSUANT LL BE PERFORMEI	TO THE ENTRAD	A PLUG BACK AP			AS A SALT THIS CONVERSION
	3020' existing	TOC, perf. & s	queeze above T	OC & bring	g cement	top to est.
	2000'.			_	~~~ 5	mn 1 37
	GIH & clean out	, pressure tes	t squeeze peri	s, & run (	CBL from	ID to New
	TOC +100'.	rforato Callur	c brook down	formation	W/1500a	al, 15%HCL,acid
	if required.	errorace Garrup	a break down	TOTMACION	w/ 1300g	ar, romen, acra
	2800', run 2 7/	'8" injection t	uhing W/ HNT-	PACKER-T S	S SAT D	lace well on
	injection.	o injection t	dbing, w/ one	IACIAN I,	x 500. 1.	idee well on
	111700010111					
IN ABOVE SPACE DESCRIBE PR	OPOSED PROGRAM: IF ER PROGRAM, IF ANY.	PROPOSAL IS TO DEEPEN C	R PLUG BACK, GIVE DATA	ON PRESENT PRO	DUCTIVE ZONE	AND PROPOSED NEW PRODUC
I hereby certify that the interpretation	on above is frue and comp	olete to the best of my k	nowledge and belief.			
A La 11/1/	Val.				<b>.</b>	70
Signed January (S	ayey	Title SENIOR DR	ILLING FOREMAN	D	5-8-	7/8
(This space for S	rate (se)				·	
APPROVED BY						

CONDITIONS OF APPROVAL. IF "NY:

# BOLING FEDERAL #5 SCHEMATIC DIAGRAM





#### TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63119 (314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

#### WATER ANALYSIS REPORT

CE	en de la companya de	it tirr	DATE SAMPLED	815017	ANALYSIS —— NO.———	
	Analysis			Mg/L	*Meq/L	
1.	pН	7.5				
2.	H <sub>2</sub> S (Qualitative)					
3.	Specific Gravity	1,000				
4.	Dissolved Solids					
5.	Suspended Solids					
6.	Phenolphthalein Alk	alinity (CaCO <sub>3</sub> )		<u></u>		
7.	Methyl Orange Alkal	inity (CaCO <sub>3</sub> )		<u> </u>		
8.	Bicarbonate (HCO <sub>3</sub>	3)	HCO:	÷51	3.5	нсс
9.	Chlorides (CI)		CI <u>* 1.11</u>	÷35	.5	CI
10.	Sulfates ( $SO_4$ )		SO <sub>4</sub>	÷48		so,
11.	Calcium (Ca)		Co	÷20		Ca
12.	Magnesium (Mg)		Mg	———÷12.	2	Mg
13.	Total Hardness (C	aCO <sub>3</sub> )	7:	<u>rc</u>		
14.	Total Iron (Fe)			• -		
14. 15.	Total Iron (Fe) Barium (Qualitativ	e)				
15. 16.	Barium (Qualitative			<u>•3</u>		
15. 16.	Barium (Qualitativ	ter	INERAL COMPOSII			
15. 16.	Barium (Qualitative	ter		IION	Y Mon/I -	— Ma/l
15. 16. •Mi	Barium (Qualitative	ter	Compound	Fquiv. Wt.	X Meq/L =	= <b>M</b> g/l
15. 16. •Mi	Barium (Qualitativ Strontium illi equivalents per lit	PROBABLE N	Compound Ca (HCO <sub>3</sub> ) <sub>2</sub>	Fquiv. Wt.	X Meq/L =	= Mg/l
15. 16.	Barium (Qualitativ Strontium illi equivalents per lit Ca ————————————————————————————————————	PROBABLE M	Compound Ca (HCO <sub>3</sub> ) <sub>2</sub> Ca \$O <sub>4</sub>	Equiv. Wt. 81.04 68.07	X Meq/L =	= Mg/l
15. 16. *Mi	Barium (Qualitative Strontium Stront	PROBABLE M  HCO <sub>3</sub> SO <sub>4</sub> CI	Compound  Ca (HCO <sub>3</sub> ) <sub>2</sub> Ca \$O <sub>4</sub> Ca Cl <sub>2</sub>	Equiv. Wt. 81.04 68.07 55.50		= Mg/l
15. 16. *Mi	Barium (Qualitative Strontium illi equivalents per lit  Ca  Mg  Na  uration Values Dis	PROBABLE M  HCO <sub>3</sub> SO <sub>4</sub> CI  Stilled Water 20°C	Compound  Ca (HCO <sub>3</sub> ) <sub>2</sub> Ca SO <sub>4</sub> Ca Cl <sub>2</sub> Mg (HCO <sub>3</sub> ) <sub>2</sub>	Equiv. Wt. 81.04 68.07 55.50 73.17		= Mg/l
15. 16. *Mi	Barium (Qualitative Strontium Stront	PROBABLE M  HCO <sub>3</sub> SO <sub>4</sub> CI	Compound  Ca (HCO <sub>3</sub> ) <sub>2</sub> Ca SO <sub>4</sub> Ca Cl <sub>2</sub> Mg (HCO <sub>3</sub> ) <sub>2</sub> Mg SO <sub>4</sub>	Equiv. Wt. 81.04 68.07 55.50		= Mg/l
15. 16. *Mi	Barium (Qualitative Strontium Stront	PROBABLE M  HCO <sub>3</sub> SO <sub>4</sub> CI  Stilled Water 20°C  13 Mg/L	Compound  Ca (HCO <sub>3</sub> ) <sub>2</sub> Ca SO <sub>4</sub> Ca Cl <sub>2</sub> Mg (HCO <sub>3</sub> ) <sub>2</sub>	Equiv. Wt. 81.04 68.07 55.50 73.17 60.19		= Mg/I
15. 16. *Mi	Barium (Qualitative Strontium Stront	PROBABLE M  HCO <sub>3</sub> SO <sub>4</sub> CI  stilled Water 20°C  13 Mg/L  2,090 Mg/L	Compound  Ca (HCO <sub>3</sub> ) <sub>2</sub> Ca SO <sub>4</sub> Ca Cl <sub>2</sub> Mg (HCO <sub>3</sub> ) <sub>2</sub> Mg SO <sub>4</sub> Mg Cl <sub>2</sub>	Equiv. Wt.  81.04  68.07  55.50  73.17  60.19  47.62		= Mg/I
15. 16. *Mi	Barium (Qualitative Strontium Stront	PROBABLE M  HCO <sub>3</sub> SO <sub>4</sub> CI  stilled Water 20°C  13 Mg/L  2,090 Mg/L	Compound  Ca (HCO <sub>3</sub> ) <sub>2</sub> Ca SO <sub>4</sub> Ca Cl <sub>2</sub> Mg (HCO <sub>3</sub> ) <sub>2</sub> Mg SO <sub>4</sub> Mg Cl <sub>2</sub> Na HCO <sub>3</sub>	Equiv. Wt.  81.04  68.07  55.50  73.17  60.19  47.62  84.00		- Mg/I
15. 16. *Mi	Barium (Qualitative Strontium Stront	PROBABLE M  HCO <sub>3</sub> SO <sub>4</sub> CI  stilled Water 20°C  13 Mg/L  2,090 Mg/L	Compound  Ca (HCO <sub>3</sub> ) <sub>2</sub> Ca SO <sub>4</sub> Ca Cl <sub>2</sub> Mg (HCO <sub>3</sub> ) <sub>2</sub> Mg SO <sub>4</sub> Mg Cl <sub>2</sub> Na HCO <sub>3</sub> Na <sub>2</sub> SO <sub>4</sub> Na Cl	Equiv. Wt.  81.04  68.07  55.50  73.17  60.19  47.62  84.00  71.03		= Mg/l

# LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

# OIL CONSERVATION COMMISSION OUT DISTRICT

OIL CONSERVATION COMMISSION	DATE 5-18-78
BOX 2088 SANTA FE, NEW MEXICO	RE: Proposed MC
5111111 12, 11511 115111100	Proposed DHC
	Proposed NSL
	Proposed SWD
	Proposed WFX
	Proposed PMX
	•
Gentlemen:	
I have examined the application dated	5-8.78
A	
for the later Lewis Coys, Boling	Jel #5 C-22-19N-31 Well No. Unit, S-T-R
Operator / Lease and	Well No. Unit, S-T-R
and my recommendations are as follows:	
and my recommendations are as follows:	
Coff of the state	1
The state of the s	
/ · · · · · · · · · · · · · · · · · · ·	
	Yours very truly,
	201/0-
•	all Kendrick
	- 100 Stage Contract

511:01