STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Revised 7-1-81

POST DEFICE BOX 2088 STATE LAND DEFICE BUILDING SANTA FE, NEW MEXICO 87501

3311821

APPLICATION FOR AU	UTHORIZATION	TD INJECT
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I.	Purpose: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? X yes no
II.	Operator: Manzano Oil Corporation
	Address: P.O. Box 2107, Roswell, NM 88202-2107
	Contact party: David Sweeney Phone: (505) 623-1996
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? \fbox{X} yes \fbox{D} no If yes, give the Division order number authorizing the project $\textmd{R-9895}$.
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.
VII.	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.
	Name: David Sweeney Title Drlg & Prod Superintendent
	Signature: Date: 6/17/97
submi	he information required under Sections VM, VIII, X, and XI above has been previously itted, it need not be duplicated and resubmitted. Please show the date and circumstance he earlier submittal.

III. WELL DATA

Marine production of the state of the state

- 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, hole 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 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 H/S 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.

C-108

Application for Authorization to Inject Manzano Oil Corporation Lea County, New Mexico

Existing Producing Well Benson Shugart Waterflood Unit Well #8 Unit A, Sec 35, T18S, R30E

- I. The purpose of this application is to request authorization to inject into the Penrose and Grayburg formation on the above mentioned well.
- II. Operator: Manzano Oil Corporation

P.O. Box 2107

Roswell, NM 88202-2107 David Sweeney (505) 623-1996

- III. Well Data: See Exhibit A.
- IV. This is an expansion of the Benson Shugart Waterflood Unit case No. 10686, Order No. R-9895
- V. See attached map. Exhibit B.
- VI. See Exhibit C.
- VII. 1. Proposed average daily injection volume, approximately 400 BWPD per injection well in the Penrose and Grayburg formation. Maximum daily injection volume for the Penrose and Grayburg formation approixmately 600 BWPD per injection well.
 - 2. This will be a closed system.
 - 3. A step rate test will be run on the Penrose and Grayburg formation. Proposed maximum injection pressure 2000 psi.
 - 4. The source for the injection water, will be from the Double Eagle water system, along with produced water from the producing wells within the Benson Shugart Waterflood Unit. See Exhibit D for analysis on water and compatability with a producing well.
 - 5. Not applicable.
- VIII. This information was previously submitted on Form C-108 February 18, 1993 under Hanson Operating Co., Inc.
- IX. The proposed injection interval in the BSWU Well #8 Penrose and Middle Grayburg, are open and producing and should not require stimulation at this time. If it is needed, 2000-3000 gal of acid should be sufficient and a small sand water frac.
- X. Logs have been submitted.
- XI. This information was previously submitted on Form C-108 February 18, 1993 under Hanson Operating Co., Inc.
- XII. All relevant data available was examined to determine if any open faults or any other hydrologic connection between the injection zones and any underground source of drinking water existed and it was determined that these geologic or engineering conditions do not exist in the flood area.

C-108

Application for Authorization to Inject Manzano Oil Corporation Lea County, New Mexico

Existing Producing Well Benson Shugart Waterflood Unit Well #8 Unit A, Sec 35, T18S, R30E

(The purpose of this application is to request authorization to inject into the Penrose and Grayburg formation on the above mentioned well.)

XIII. Proof of Notice:

- 1. Certified letters sent to the surface owner and offset operators are attached as Exhibit E.
- 2 Copy of legal advertisement attached as Exhibit F.

XIV. Certification is signed.

Offset Operators:

Mr. Ray Westall P.O. Box 4 Loco Hills, NM 88255

J&G Enterprises P.O. Box 100 Artesia, NM 88211-0100

LaRue & Muncy P.O. Box 196 Artesia, NM 88211-0196

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

Casa Petroleum P.O. Box 4 Loco Hills, NM 88255

Land Owner:

Richardson Cattle Co. P.O. Box 487 Carlsbad, NM 88222

INJECTION WELL DATA SHELT

Manzano OPERATOR	Oil Corporation	Benson Shugart Wa LEASE	terflood Unit	·
8 WELL NO.	330 FNL & 990 FEL FOOTAGE LOCATION	35 SECTION	18 South TOWNSHIP	30 East RANGE
Perforations 3537-3554' 3494-3499' 3476-3479' 3426-3233' 3226-3233' 3226-3233' 3226-32320' 2243-230' 2243-230' 2243-230' 2243-230' 2243-230' 2250' 2250' 2250' 2250' 2250' 2250' 2250' 2250' 2250' 2250' 2250' 2250' 2250' 2	8-5/8" 24# 6 691'	Surface Casing Size 8-5/8" TOC Surface Hole size 11" Intermediate Casing Size	Cemented with feet determined by Cemented with feet determined by Cemented with feet determined by Cemented Cemented by Cement	circl 45 sks h 895 st circl 105 sks
TD 12	5-1/2" 14# @ PBTD 3584' TD 3611' 11/29/79 /09/79 etion 2/14/80	- Pu		
Tubing size	2-3/8" lin	ed with plastic (mate	riall	set in a
	odel AD-1	packer a	21001	feet
	and and model) e any other casing-tubi	ng seal).		
Other Dato				
		Penrose, Grayburg		
		Shugart-Yates-S		n-Grayburg
		injection? / Yes /	ZZ No P Developmental	oil well.
and giv	e plugging detail (sack	ted in any other zone(s)? s of cement or bridge plug 26-3233) (3156-3177) (22	g(s) used) <u>(3557-3</u>	554) (3494-3499
5. Give th this ar		any overlying and/or under es; Underlying - Graybu	rlyimg oil or gas z rg.	ones (pools) in



RETRIEVABLE PACKER SYSTEMS



MODEL "AD-1"™ TENSION PACKER

Product No. 739-08

The "AD-1" Tension Packer is a compact, economical, retrievable packer. Primarily used in waterflood applications, this packer can also be used for production and/or treating operations. It is used where a set-down packer is impractical. Since the "AD-1" is tension set, it is ideally suited for shallow wells where set-down weight is not available.

FEATURES/BENEFITS

- Utilizes Baker's rugged rocker-, type slips.
- Bore through the packer mandrel is larger than drift.
- Simple, low-cost packer for fluid injection.
- Three release methods insure retrievability.
- Uses proven one-piece packing element.

ACCESSORIES

Model "C-1"™ Tandem Tension™ Packer, (Prod. No. 602-26)
Cup-Type Packer with Unloader, (Prod. Nos. 602-30 & 675-07)
Unloading Subs, (Prod. No. 675-10)

MODEL "ADL-1"™ LARGE-BORE TENSION PACKER

Product No. 739-12

The "ADL-1" Tension Packer is a largebore version of the Model "AD-1." The packer offers the same features and benefits as the Model "AD-1" and running and retrieving operations are the same.

TO SET PACKER:

Run packer to desired setting depth, making the last movement downward. Rotate the tubing to the left one-quarter turn at the tool. Then, pick up and pack-off.

TO RETRIEVE PACKER:

Lower the tubing at least one foot (0,31 m) more than is needed to remove applied tension so that the J-pin will move fully to the top of the J-slot.

Rotate the tubing to the right onequarter turn at the packer so slips will now be in the running position. Packer can be moved to a new position and reset or it can be retrieved.

TO SHEAR RELEASE PACKER:

As an alternate release method, the Tension Packer has shear rings designed to part at tensions varying from 13,000-100,000 lb (5,89-45,35t). The cone, packing element and guide drop down and are carried out of hole by the bottom sub.

TO RELEASE IN EMERGENCY:

Left-hand square threads on the top sub of the packer allow the tubing to be retrieved when the packer will not otherwise release.

REQUIRED UPS	TRAIN TO SET	PACKER			
Packer	Upstrain				
Size	Lb Kg				
41	2,000	907			
43 & 45	5,000	2268			
47	7,500	3402			
49-55	15,000	6804			

ORDERING EXAMPLE; PRODUCT NO. 739-08 SIZE: 45A4 (5-1/2* OD 15.5-20 lb/li Casing) MODEL *AD-1* YENSION&FACKER w/2-3/8* OD EU BO BOX (7-55, A.7 lb/li Tubing x 2-3/8* OD NU 10 RD PIN (7-55 4.6 lb/li Tubing.

ORDERING EXAMPLE:

.. 2. 2

PRODUCT NO. 739- 1/2 SIZE: 458 x 2.90 (5-1/2" OD 13-17 lb/h Casing) MODEL "ADL-1" LARGE-BORE TENSION PACKER w/3-1/2" OD EU β RD flox x Pin V/-55 9.3 lb/h Tubing.

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Manzano Oil Corporation
Benson Shugart Waterflood #8
Well Data Information
Exhibit C - Page 1

Ritz #4 B, Sec 35, T18S, R30E NW/4NE/4	Ritz #3 G, Sec 35, T18S, R30E SW/4NE/4	Arco #2 E, Sec 36, T18S, R30E SW/4NW/4	Well Name
Ray Westall	Ray Westall	Ray Westall	Operator
Oil	Oil	Oil	Туре
1/01/85	9/21/84	9/18/84	Spud Reentry
4/01/85	10/01/84	10/07/84	Completion
3988'	4000'	3950'	Total Depth
Penrose	Queen Grayburg	7-Rivers Penrose Grayburg	Producing Zone
3314-42'	3078-3213' 3844-74'	2412-18' 2464-2470' 3152-66' 3232-38' 3286-94'	Perforations
8-5/8" 23# @ 521' w/300 sks (circl 40 sks) 5-1/2" 17# @ 3972' 300 sks (TOC 2700 calculated)	8-5/8" 23# @ 485' w/280 sks (circl 10 sks) 5-1/2" 17# @ 4000' w/1980 sks Circulated to surface	8-5/8" 23# @ 761' w/364 sks (circl 15 sks) 5-1/2" 17# @ 3950' w/300 sks (TOC 2750' calc)	Completion Information
	Rotary	Rotary	Other Comments

WELL BORE SKETCH

operator/lea	SE/WELL:	Yates & Dooley	Creek Permit Well #1
LOCATION:	Unit G,	SW/4NE/4, 1980'FNL &	1980'FEL, Sec 35, T18S, R30E
		/	
			ELEVATION:
		Hole Size:	
			_SURFACE CASING:
			Size: 9-7/8" Weight: Grade: Set at: 350' w/ Sacks cement Circulate: Sacks to surface Remarks: Set in place w/mud.
	超影		
		Hole Size:	11"
			-INTERMEDIATE CASING:
			Size: 8-1/4" Weight: Grade: Set at: 742' w/ 50 Sacks cement Circulate: Sacks to surface Cement Top: Calc Temp Survey:
# <u>\$</u>			Circulate: Sacks to surface
	理問題		Cement Top: Calc Temp Survey: Remarks:
		Hole Size:	
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	-		_PRODUCTION CASING:
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			Remarks:
	3		TUBING:
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r	1		RODS:
			Size: Number: Gas Anchor Set at:
	2		Gas Anchor Set at: Pump set at:
	<u> </u>		Arrangement:
	\$		
\ :- !:			
		3404-3407' (2 files at Arte	abandonec 10/11/38. Tested sulphur water from 200' in 1 & 2 hrs). No information in well esia on any plugging operation. Only 4 papers
		on file. Pro attached cop	oposed to reenter by Ernest A. Hanson. See ies.
		4 0 0 4 0 1 0 0 p	
	TD 3	3407'	

Exhibit C - Page 2

10-97 TUE 1:30 PM OCD DISTRIST II FAX NO. 5057489

5057489720 ("Iy

NOTED

JUL 5 - 1962

HANSON

UNITED STATES

DEPARTMENT OF THE INTERIOR

Geological Survey

P. O. Drawer U

Artesia, New Mexico

Mr. Ernest A. Hanson P.O. Box 1515 Roswell, N.M. JUL 6 1962

U. S. GEOLUGICAL SURVEY

Re: Oil and Gabries NEW MEXICO

Gentlemen:

We have not yet received the reports checked below pertaining to your well No. 3-Ginsberg located in <u>SW 1 NE 1</u> sec. 35, T. 18 S., R. 30 E., Eddy County, New Mexico:

Sundry Notice Form 9-331s, "Report of Setting and/or Cementing Casing".

(3 copies)

Sundry Notice Form 9-331a, "Subsequent Report of Treating Well". (3 copies)

Sundry Notice Form 9-331a, "Subsequent Report of Workover or Drill Deeper". (5 copies)

Form 9-330, "Log of Oil or Gas Well" covering all drilling operations. (4 copies)

Geologic logs (30 CFR 221.59 requires that <u>duplicate</u> copies of <u>all</u> electrical logs, sample logs, drilling time logs, temperature, deviation, and other well surveys must be filed.) (2 copies)

Sundry Notice Form 9-331a "Subsequent Report of Abandonment" or Subsequent Report of Temporary Abandonment". (5 copies)

Please submit these delinquent reports to this office at your earliest convenience.

U. S. Geological Survey

mund for Mr. Sim Kroudfor — We have performed not work of any him Exhibit C - Page 3

JUL 9 1982

Form 9-881a

(Pab. 1981)

N. M. O. C. C. COPY

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Budges Bureau No. 42-R358.4. Approval expires 12-51-60.

Land Office Senta Fe, N.M.

RECEIVE

T. ENGINEER NOV 3 0 1961 SUNDRY NOTICES AND REPORTS ON WELLS

(C)17,		
		SUBSEQUENT REPORT OF WATER SHUT-OFF ARTEBIA, DEFI
NOTICE OF INTENTION TO CHANGE PLANS.		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	<u> </u>	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	_	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.	ļ,	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
HOTICE OF INTENTION TO ABANDON WELL	ļ	
1	1 1	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA):

	Nov	ember 15	1961
#3 Ginsberg Federal Well No is locate	d 1980 ft. from [N] line and 19	30 ft. from $\begin{Bmatrix} \mathbf{E} \\ \mathbf{x} \end{Bmatrix}$ line of	f sec. 35
(% Sec. and Bed. No.)	(Twp.) (Range)	(Meridian)	
- Wilder	Eddy	New Maxico (State or Territory)	
The elevation of the derrick f	loor above sea level is 3420 ft.		
	DETAILS OF WORK		

it is proposed to re-enter the old hole formerly known as the Yates & Dooley - #1 Creek to a total depth of 3200' with cable tools in order to test the Queen Formation. The following casing and cementing program is proposed:

7" @ 750' w/50 sx. (Top of Salt @ 700') 4-1/2" @ 3200' w/150 sx. (Cmt. back to Base of Salt)

Heavy mud to be circulated ahead of coment.

NOV 17 1961 II. S. BEOLOGICAL SURVI ARTESIA. NEW MEXING

	A LOW AN TOTAL TOTAL
I understand that this plan of work must receive approval in writing b	y the Geological Eurysy before operations may be commenced.
Company Emest A. Hanson	ng na 40 bgg gyn af 8 ha dhafa gây 3 9 8 phi bhadh ga ganada 2 y mhhail an dagann an an 4 2 mh an 44 mh an 1
Address P. O. Box 1515	
Roswell, New Mexico	By Tary & Schannel
	Title Geologist

JIN-10-97 TUE 1:01 PM OCD DISTRIST II FAX NO. 5057489720 P. 4

HEW MEXICO OIL CONSERVATION COMMISSION

FORM C-128 Reviewd 5/1/57

	WEL	L LOCATI	םא אס	ACR	EAGE I	DEDIC	OITA	PLAT	M = 4 24	
		STRUCTIONS								
				SECT						
Operator	Ernest A., Hors	rsets.		Lesse		eng fe	desal		Well No.	
Unit Letter	Section	Township		R	rafiz		ounty		- 	
G	35_	7. 18	5		R. 30 E.			Eddy		
Actual Footage L								_		
Ground Level Ele	v. Producing I	North	line and	Pool	280	feet f	rom the	East	line Dedicated Acreage	
3418	Yater			P001	مآداهند	me //-	فر الساء		40	s: Acres
1. Is the Operato who has the ri another. (65- 2. If the answer of	s the only owner is ght to drill into ar -329 (a) NMSA 1	n the dedicate id to produce) 935 Comp.) "no," have th	rom any poo	l and to	epropriati	below? the pro	YES X	_ NO ither for bin	. ("Owner" means uself or for bimself tization agreement	an d
3. If the answer t	to question two is				is sespectiv			!		
Owner					Land De	ecription	1		JON -	
		SECTI	он в 1880					in SECTI plete to t belief.	CERTIFICATION certify that the info ON A above is true he best of my know	and com- ledge and
			0		1980	<u> </u>		Date	nest A. Honson ov. 20. 1961	
				wath dalk and				shown on plotted from surveys me supervision and correct and belief		N B was tual my e is trus knowled

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SCOUT REPORT

NEW MEXICO

OIL CONSERVATION COMMISSION

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	1	1	1		Company	Yates .	& Dool	AT	
1		-1			Farm Name	Creek			Well No. 7
		-			Land Classifi			nmant	
		-	- -		Sec. 35	Twp.		· · · · · · · ·	County Fig.
≥		-	_	— ^m	Feet from Li		N.	s. 198	
1	_		_ _		Elevation			198	MethodMao
	_	_			Contractor	F. W.Z	· ·		
					Spudded 5-2				al Production
		7			Bond Status	<u> </u>			
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8-21	Loc								
6-24	TD 75	SI SI) Bere	ira			, <u>_</u>		
7-12	\$ 453	RR	·						
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7-26	TD 50	5 RR	Rna	108					
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8-16	Ø 960					1			
8-25	ø 172								
6-30	Ø 215								
3-7	Ø 243								
9-12	Ø 275		: A						
9-19	Ø 300		·						
9-56	Ø 3C7								

SCALE FORMIXING 2 WATERS

MANZANO OIL COLP DOUSIR EAGIR CHTYSFRANDS BSWU Well #11

TEMPERATURE (F)= /5.0

CONCENT	RATION	(MG/L)
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ION DOUBLE	SAGR WATER NO. 1	WATER NO. 2	(BSWU *11)
SODIUM CALCIUM	187. 120.	44827. 6954.	
MAGNESIUM	19.	1998,	
CHLORIDE	426,	86000.	
BICARBONATE		427.	
CARBONATE	0.	0. 1400.	
SULFATE	25.	1400.	
PH	7.20	7.10	
SPECIFIC GRAVITY	1.0000	1,0990	
RESISTIVITY	-1.00	0.06	
IONIC STRENGTH	-1.00 0.0198	2.7324	
TOS	973.	141606.	
	SOLUBILITY SCALE	SPALE	
TYPE OF SCALE			SCALING TENDENCY
100.0 % WATER NO. 1	0.0 % WATER NO.	2	
CALCIUM SULFATE	6752.30	-659.	NONE
	94. 0.09		SLIGHT
96 6 % HATER NO. 1	10.0 % WATER NO.	n'	
70.00 % WHILK NO. 1	TOTO A WHITER ROT		
CALCIUM SULFATE	11171.30	-1015.	NONE
CALCIUM CARBONATE	106. 0.08	19,	SLIGHT
80.0 % WATER NO. 1	20.0 % WATER NO.	2	
CALCIUM SULFATE	12681.00	-1080.	NONE
	113. 0.10		
70.0 % WATER NO. 1	30.0 % WATER NO.	n	
YOLO A WHIER RU. I	30.0 A WHIER RU.	<u></u>	
CALCIUM SULFATE	13270.81	-1053,	NONE
CALCIUM CARBONATE	108. 0.16	44,	SLIGHT

NOTE: PTB = POUNDS PER THOUSAND BARRELS

MANZAND DIL COLP Bookle SAMZ" City of CARISHOU'! B5 wo well \$11

TYPE OF	SCALE	SOLUBILITY (PTB)	SCALE INDEX	SCALE (PTB)	SCALING TENDENCY
60.0 %	WATER NO.	1 40.0 %	WATER NO.	2	
CALCIUM CALCIUM	SULFATE CARBONATE	1337. 96.	-0,66 0.25	-976. 69.	NONE SLIGHT
50.0 %	WATER NO.	1 50.0 %	WATER NO.	2	
CALCIUM	SULFATE CARBONATE	1 3 21. 83.	-0,54 0,35	-874. 96.	NONE SLIGHT
40.0 %	WATER NO.	1 60.0 %	WATER NO.	2	
CALCIUM	SULFATE CARBONATE	1 2 85. 67.	-0.43 0.47	-752. 125.	NONE: MODERATE:
30.0 %	WATER NO.	1 70.0 %	WATER NO.	2	
	SULFATE CARBONATE	1237. 53.		-617. 152.	NONE MODERATE
20.0 %	WATER NO.	1 80.0 %	WATER NO.	2	
	SULFATE CARBONATE	1179. 41.		-473. 177.	
10.0 %	WATER NO.	90.0 %	WATER NO.	2	
	SULFATE CARBONATE	1115. 32.	-0.16 0.88	-323. 200.	NONE MODERATE
0.0 %	WATER NO.	1 100.0 %	WATER NO.	2	
CALCIUM	SULFATE CARBONATE	1047. 24.	-0.08 1.03	-168. 221.	NONE MODERATE

NOTE: PTB = POUNDS PER THOUSAND BARRELS

P 382 741 495

US Postal Service Receipt for Certified Mail No Insurance Coverage Provided.
Do not use for International Mail (See reverse) Street & Nurober Post Office, State, & ZIR Code Postage \$ Certified Fee Special Delivery Fee Restricted Delivery Fee PS Form **3800**, April 1995 Heturn Receipt Showing to Whom & Date Delivered Hetern Receipt Showing to Whom Date, & Addresses Address 1.10 # 00 TOTAL Pestage & Fees \$ Postment of Date

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P 382 741 471

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P 382 741 488

US Postal Service

Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

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PS Forms			



P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620

June 16, 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Ray Westall P.O. Box 4 Loco Hills, NM 88255

Re: Benson Shugart Waterflood Unit Well #8

Lea County, New Mexico

Dear Mr. Westall:

In accordance with the requirements of the New Mexico Oil Conservation Division Form C-108 (Application for Authorization to Inject), please find attached a copy for Manzano Oil Corporation's, Benson Shugart Waterflood Unit Well #8, located in Section 35, T18S, R30E, Lea County, New Mexico.

If you have any questions, please feel free to contact me at 505/623-1996.

Very truly yours,

Danie Siscon (4

David Sweeney

DS:ah



P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620

June 16, 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

J & G Enterprises P.O. Box 100 Artesia, NM 88211-0100

Re: Benson Shugart Waterflood Unit Well #8

Lea County, New Mexico

Gentlemen:

In accordance with the requirements of the New Mexico Oil Conservation Division Form C-108 (Application for Authorization to Inject), please find attached a copy for Manzano Oil Corporation's, Benson Shugart Waterflood Unit Well #8, located in Section 35, T18S, R30E, Lea County, New Mexico.

If you have any questions, please feel free to contact me at 505/623-1996.

Very truly yours,

Dawissing

David Sweeney

DS:ah

Enclosure .



P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620

June 16, 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

LaRue & Muncy P.O. Box 196 Artesia, NM 88211-0196

Re:

Benson Shugart Waterflood Unit Well #8

Lea County, New Mexico

Gentlemen:

In accordance with the requirements of the New Mexico Oil Conservation Division Form C-108 (Application for Authorization to Inject), please find attached a copy for Manzano Oil Corporation's, Benson Shugart Waterflood Unit Well #8, located in Section 35, T18S, R30E, Lea County, New Mexico.

If you have any questions, please feel free to contact me at 505/623-1996.

Very truly yours,

David Sweeney

DS:ah



P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620

June 16, 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

Re:

Benson Shugart Waterflood Unit Well #8

Lea County, New Mexico

Gentlemen:

In accordance with the requirements of the New Mexico Oil Conservation Division Form C-108 (Application for Authorization to Inject), please find attached a copy for Manzano Oil Corporation's, Benson Shugart Waterflood Unit Well #8, located in Section 35, T18S, R30E, Lea County, New Mexico.

If you have any questions, please feel free to contact me at 505/623-1996.

Very truly yours,

- Reministracy

David Sweeney

DS:ah



P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620

June 16, 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Casa Petroleum P.O. Box 4 Loco Hills, NM 88255

Re: Benson Shugart Waterflood Unit Well #8

Lea County, New Mexico

Gentlemen:

In accordance with the requirements of the New Mexico Oil Conservation Division Form C-108 (Application for Authorization to Inject), please find attached a copy for Manzano Oil Corporation's, Benson Shugart Waterflood Unit Well #8, located in Section 35, T18S, R30E, Lea County, New Mexico.

If you have any questions, please feel free to contact me at 505/623-1996.

Very truly yours,

David Sweeney

DS:ah



P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620

June 16, 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Richardson Cattle Company P O Box 487 Carlsbad, NM 88222

Re:

Benson Shugart Waterflood Unit Well #8

Lea County, New Mexico

Gentlemen:

In accordance with the requirements of the New Mexico Oil Conservation Division Form C-108 (Application for Authorization to Inject), please find attached a copy for Manzano Oil Corporation's, Benson Shugart Waterflood Unit Well #8, located in Section 35, T18S, R30E, Lea County, New Mexico.

If you have any questions, please feel free to contact me at 505/623-1996.

Very truly yours,

David Sweeney

DS:ah

Manzano Oil Corporation, P. O. Box 2107, Roswell, New Mexico 88202-2107, has filed a Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking Administrative Approval to expand the existing Benson Shugart Waterflood Unit. This expansion includes converting an existing well (B.S.W.U well #8) from a producing oil well to an injection well located in the NE/4NE/4, 330' FNL & 990' FEL in Section 35, T18S, R30E, Eddy County, New Mexico and will be used for pressure maintenance. Produced water from the Seven Rivers, Penrose and Grayburg formations, along with make up water from the Double Eagle water system will be injected into the Grayburg formation at a depth of 3537' - 3554', and the Penrose formation at a depth of 3226' - 3233' with a maximum pressure of 2000 psi and a maximum rate of 600 BWPD. All interested parties opposing the aforementioned must file objections with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days. Additional information can be obtained by contacting David Sweeney at (505) 623-1996.



P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620

June 24, 1997

Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Re: Manzano Oil Corporation's

B.S.W.U. #8

330'FNL & 990'FEL Section 35, T18S, R30E Eddy County, New Mexico

Gentlemen:

Attached is the Affidavit of Publication from the Hobbs Daily News-Sun on the captioned. All other paperwork has been previously submitted.

If you have any questions, please do not hesitate to call.

Sincerely,

Allison Hernandez Engineering Technician

alleriche

:ah

Affidavit of Publication

No158	388
STATE OF NEW MEXICO,	
County of Eddy:	
Gary D. Scott	being duly
sworn, says: That he is the Publisher	of The
Artesia Daily Press, a daily newspaper of gene	eral circulation,
published in English at Artesia, said county and	l state, and that
the hereto attached Legal Notice	
was published in a regular and entire issue of	the said Artesia
Daily Press, a daily newspaper duly qualified f	or that purpose
within the meaning of Chapter 167 of the 1937	Session Laws of
the state of New Mexico for 1 conse	days"
	curive weeks on
the same day as follows:	
First Publication June 11, 1997	
Second Publication	
Third Publication	
Fourth Publication	
Dan 11 X	
Subscribed and sworn to before me this1	Lthday
of	ine 19 97
Window Know	<u> </u>
Notary Public, Eddy Cou	•
My Commission expires September 23, 19	199

LEGAL NOTICE

Manzano Oil Corporation, P.O.

Copy of Publication

Box 2107, Roswell, New Mexico 88202-2107, has filed a Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking Administrative Approval to expand the existing Benson Shugart Waterflood Unit. This expansion includes converting an existing well (B.S.W.U well #8) from a producing oil well to an injection well located in the NE/4NE/4, 330' FNL & 990'FEL in Section 35, T18S, R30E, Eddy County, New Mexico and will be used for pressure maintenance. Produced water from the Seven Rivers, Penrose and Grayburg formations, along with make up water from the Double Eagle water system will be injected into the Grayburg formation at depth 3537'-3554', and the Penrose formation at a depth of

3226'-3233' with a maximum pressure of 2000 psi and a maximum rate of 600 BWPD. All interested parties opposing the aforementioned must file objections with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days. Additional information can be obtained by contacting David Sweeney at (505) 623-1996. Published in the Artesia Daily Press, Artesia, N.M. June 11, 1997.

Legal 15888