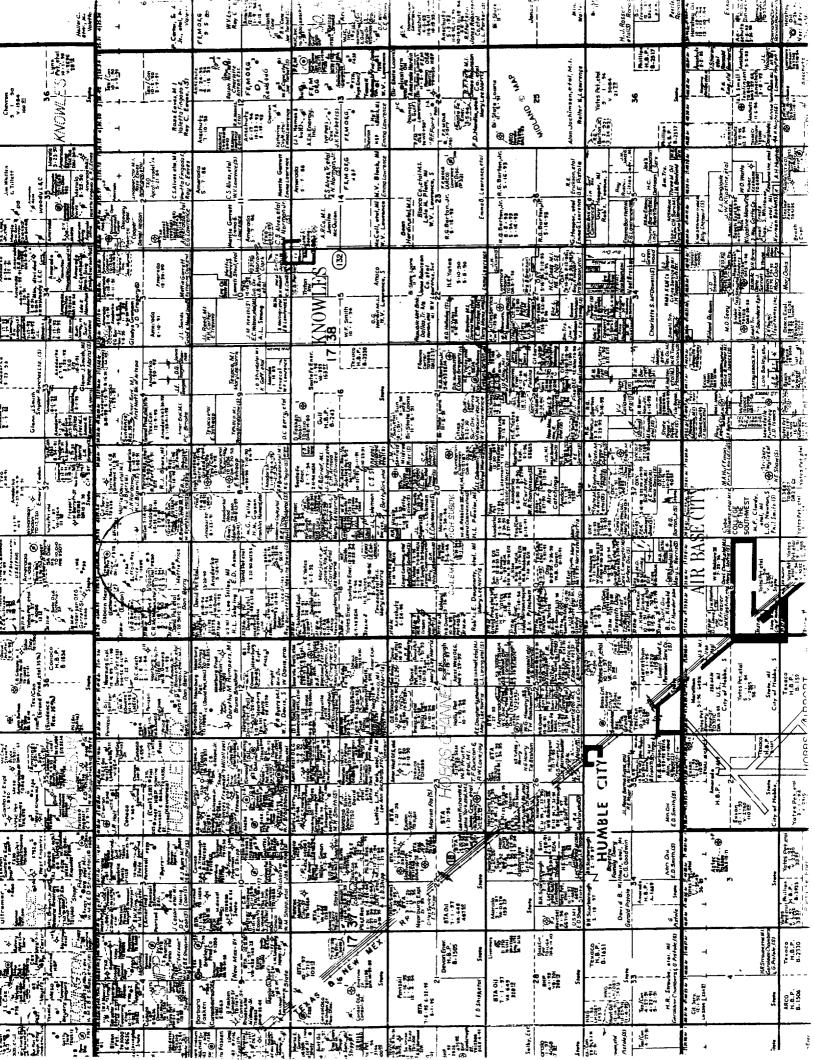
STATE OF NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

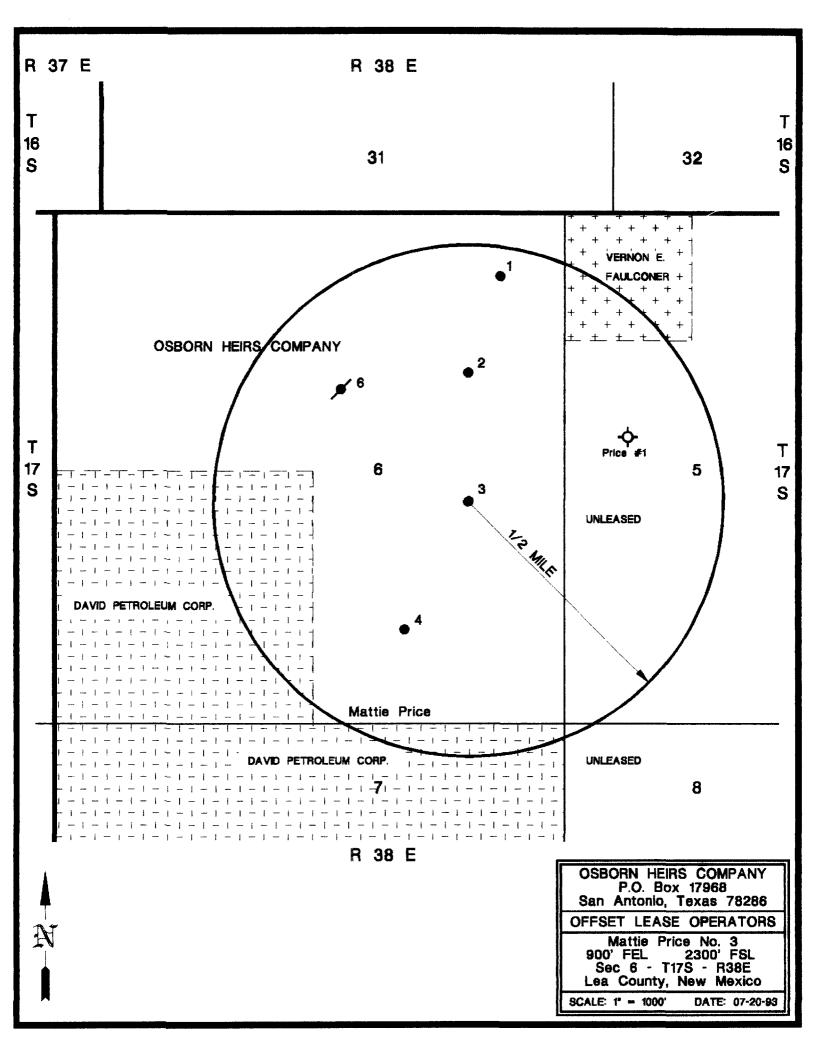
OIL CONSERVATION DIVISION PO BOX 2088 SANTA FE, NM 87504-2088

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Application qualifies for administrative approval?	Pressure Maintenance Yes No	XDisposal	Storage
II.	OPERATOR: Osborn Heirs Company			
	ADDRESS: P. O. Box 17968, San Anto	onio, TX 78286		
	CONTACT PARTY:Joe D. Ramey		PHONE:	(505) 271-1150
III.	WELL DATA: Complete the data required on the rev sheets may be attached if necessary.	erse side of this form for each we	ell processed for injec	tion. Additional
IV.	Is this an expansion of an existing project: Yes If yes, give the Division order number authorizing the			·
V.	Attach a map that identifies all wells and leases within circle drawn around each proposed injection well. T	n two miles of any proposed injection that is the well's ar	ction well with a one ca of review.	-half mile radius
VI.	Attach a tabulation of data on all wells of public record Such data shall include a description of each well's ty and a schematic of any plugged well illustrating all p	ype, construction, date drilled, lo	penetrate the propose ocation, depth, record	d injection zone. I of completion,
VII.	Attach data on the proposed operation, including:		-	
	 Proposed average and maximum daily rate and verage. Whether the system is open or closed; Proposed average and maximum injection pressure. Sources and an appropriate analysis of injection for reinjected produced water; and If injection is for disposal purposes into a zone no attach a chemical analysis of the disposal zone for studies, nearby wells, etc.). 	re; fluid and compatibility with the root productive of oil or gas at or v	vithin one mile of the	e proposed well,
•VIII.	Attach appropriate geological data on the injection zo and depth. Give the geologic name, and depth to bot waters with total dissolved solids concentrations of 1 any such sources known to be immediately underlyin	tom of all underground sources of 0,000 mg/1 or less) overlying the	of drinking water (aqu	uifers containing
īX.	Describe the proposed stimulation program, if any.			
* X.	Attach appropriate logging and test data on the well resubmitted.)	l. (If well logs have been filed	with the Division, the	hey need not be
* XI.	Attach a chemical analysis of fresh water from two o of any injection or disposal well showing location of	r more fresh water wells (if avai wells and dates samples were ta	lable and producing) ken.	within one mile
XII.	Applicants for disposal wells must make an affirmative data and find no evidence of open faults or any other is source of drinking water.			
хш.	Applicants must complete the "Proof of Notice" secti	ion on the reverse side of this fo	r m.	
XIV.	Certification: I hereby certify that the information sknowledge and belief.	submitted with this application is	s true and correct to	the best of my
	NAME: Log Ramey	TTTLE:(Consultant	
	SIGNATURE: Je & James		DATE:	
*	If the information required under Sections VI, VIII resubmitted. Please show the date and circumstance of	I. X. and XI above has been r		

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office





OSBORN HEIRS COMPANY SEEKS APPROVAL TO CONVERT THE MATTIE PRICE NO.3, LOCATED 990 FEET FROM THE EAST LINE AND 2300 FEET FROM THE SOUTH LINE OF SECTION 6, TOWNSHIP 17 SOUTH, RANGE 38 EAST, LEA COUNTY, NEW MEXICO, TO A SALT WATER DISPOSAL WELL. THE WELL IS LOCATED FIVE MILES NORTH AND TWO MILES EAST OF HUMBLE CITY, NEW MEXICO. OSBORN WILL DRILL OUT CEMENT AND VARIOUS PLUGS IN THE WELL TO A DEPTH OF 13,114 FEET AND WILL TREAT WITH 2000 GALLONS OF ACID SO THAT INJECTION WILL BE INTO EXISTING PERFORATIONS 12,665 FEET TO 13,078 FEET IN THE DEVONIAN FORMATION. INITIAL INJECTION RATES WILL BE 1200 BARRELS PER DAY AND MAXIMUM VOLUMES ARE EXPECTED TO BE AROUND 2000 BARRELS PER DAY. INITIAL INJECTION PRESSURES WILL BE ABOUT 750 PSI AND MAXIMUM INJECTION PRESSURE REQUESTED IS 2500 PSI. THE SYSTEM WILL BE CLOSED AND INITIALLY ONLY DEVONIAN WATERS PRODUCED FROM THE MATTIE PRICE LEASE WILL BE INJECTED IN THE WELL. IF WATERS FROM OTHER FORMATIOS ARE INJECTED IN THE WELL, OSBOUN WILL ADVISE THE HOBBS DISTRICT OFFICE AND WILL ENSURE COMPATIBILITY WITH DEVONIAN WATERS BEFORE ANY OUTSIDE INJECTION TAKES PLACE.

THE SUBJECT WELL WAS DRILLED IN 1971 AND PRODUCED OIL FROM THE DEVONIAN. THE DEVONIAN IS OVER 500 FEET THICK IN THIS AREA AND IS PRIMARILY DOLOMITE WITH VUGULAR POROSITY. THE DEVONIAN OIL RESERVOIR APPEARS TO BE A BOTTOM WATER DRIVE RESERVOIR WHICH HAS WATERED OUT THE MATTIE PRICE NO. 3. INJECTION BELOW THE WATER-OIL CONTACT SHOULD SERVE TO MAINTAIN RESERVOIR PRESSURE AND IMPROVE THE SWEEP EFFICIENCY FOR THE REMIANING WELLS IN THIS POOL. THE ENTIRE PRODUCTIVE LIMITS OF THE POOL ARE WITHIN THE MATTIE PRICE LEASE.

INJECTION WILL BE THROUGH 2-7/8" PVC LINED TUBING SET IN A BAKER LOK-SET PACKER TO BE SET AT APPROXIMATELY 12,600 FEET. THE TUBING-CASING ANNULUS WILL BE FILLED WITH AN INERT PACKER FLUID AND PRESSURE TESTED PRIOR TO INJECTION.

THERE IS ONE FRESH WATER WELL WITHIN A MILE OF THE WELL AND IS ON THE MATTIE PRICE LEASE. AN ANALYSIS OF WATER FROM THAT WELL IS ATTACHED. FRESH WATER IS PRODUCED FROM THE DGALALLA FORMATION THE BOTTOM OF WHICH IS AT AROUND 300 FEET IN THIS AREA. THE AVAILABLE GEOLOGIC AND ENGINEERING DATA HAS BEEN EXAMINED AND THERE IS NO EVIDENCE OF OPEN FAULTS OR ANY OTHER HYDROLOGIC CONNECTION BETWEEN THE DISPOSAL ZONE AND ANY UNDERGROUND SOURCE OF DRINKING WATER.

THE MAIN PRODUCING FORMATION IN THE AREA, STARTING ABOUT ONE AND ONE-HALF MILES WEST OF THE MATTIE PRICE LEASE, IS THE STRAWN AT A DEPTH OF AROUND 11,500 FEET. WITHIN SIX MILES OF THIS LEASE THERE IS PRODUCTION FROM THE SAN ANDRES, PADDOCK, ABO, WOLFCAMP AND YESO.

LEASEHOLD OPERATORS WITHIN ONE-HALF MILE OF THE INJECTION WELL AND THE SURFACE OWNER HAVE BEEN SENT A COPY OF THIS APPLICATION BY CERTIFIED MAIL.

	38E	RANGE
Mattie P rice	178	TOWNSHIP
Matti	9	SECTION
LEASE		
irs Co.	990 FEL	FOOTAGE LOCATION
Osborn Heirs Co.	2300 FSL	
	3	
OPERATOR	CN	

Schematic

Well Construction Data

Surface Casing

Size 13-3/8"	Cemented with	400	, S
TOC Surface	feet determined by Circulated	Circulated	
Hole Size 17½"			
Intermediate Casing			
Size 8-5/8"	Cemented with	500	S
TOC 3500'	feet determined by	Estimated	
Hole Size 11"] - - -	
Long String			
Size 5½"	Cemented with	350	×.
TOC 11100'	feet determined by _	Тетр. Survey	
Hole Size 7-7/8"			
Total Depth 13146			

Injection Interval

feet 12665' feet to 13103' (perforated or open-hole; indicate which)

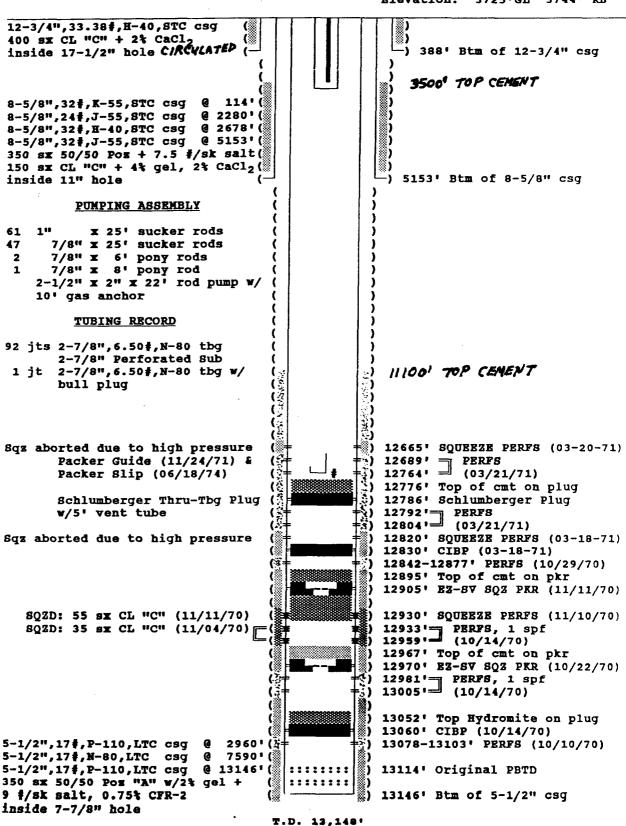
INJECTION WELL DATA SHEET

Baker Lok-Set ther type of tubing / casing seal if applicable ther Data Is this a new well drilled for injection? If no, for what purpose was the well originally drilled? If no, for what purpose was the well originally drilled? Name of the injection formation Name of Field or Pool (if applicable) Has the well ever been perforated in any other zone(s give plugging detail, i.e., sacks of cement or plug(s) u San Andres - 4000' Strawn - 11600'	[ubin	Tubing Size	2 - 7/8"	lined with	P VC	set In a
Other type of tubing / casing seal if applicable Other Data Is this a new well drilled for Injection? Yes X No If no, for what purpose was the well originally drilled? 0il & Gas Test Name of the injection formation Devonian Name of Field or Pool (if applicable) Nest Garrett Devonian Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used. No Give the names and depths of any over or underlying oil of gas zones (pools) in this area. San Andres - 4000' Strawn - 11600'		Baker	Lok-Set	packer) adk:	feet
ther D	Other	type of	f tublng / casing sea	al if applicable		
	Other	Data				
	_:	ls thi	s a new well drilled		No No	
		If no,	, for what purpose v	vas the well originally drilled		
	73	Nam	e of the injection for	1 1		
	~ :	Nam	e of Field or Pool (if	applicable) West Garret	t Devonian	
		Has 1 give	the well ever been poolingging detail, i.e.,	perforated in any other zone sacks of cement or plug(s)	(s)? List all such perforated inte	ervals and
San Andres - 4000' Strawn - 11600'	ıó	Give	the names and dep	ths of any over or underlyin	g oil of gas zones (pools) in this	s area.
Strawn - 11600'			1	,000		
			Strawn - 11600'			

OSBORN HEIRS COMPANY WELLBORE DIAGRAM PRESENT CONDITION

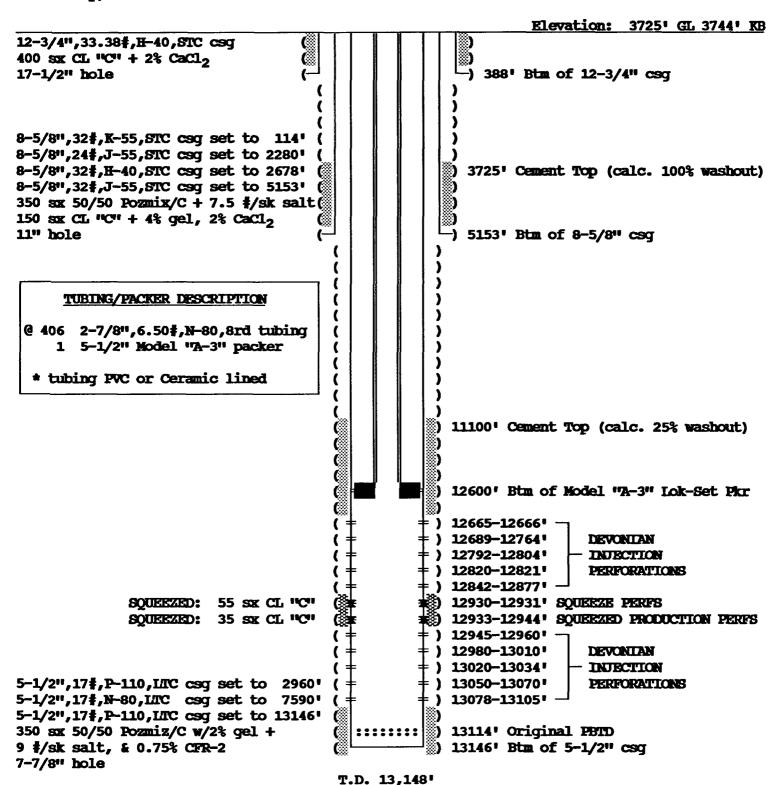
MATTIE PRICE #3
API No. 30-025-23548
990' FRL & 2,300' FSL
Sec 06-T178-R38E Unit I
West Garrett Field
Lea County, New Mexico

Elevation: 3725'GL 3744' KB



OSBORN HETES COMPANY "PROPOSED COMPLETION DIAGRAM"

MATTIE PRICE #3
API No. 30-025-23548
990' FEL & 2,300' FSL
Sec 06-T178-R38E Unit I
West Garrett Field
Lea County, New Mexico



PLUGGED

AND

ABANDONED

WELLS

OSBORN HEIRS COMPANY WELLBORE DIAGRAM

PLUGGED AND ABANDONED

MATTIE PRICE #6 1820'FNL & 1310'FEL SEC. 6-T175-R38E

UNIT G	Elevation: 3725'GL 3744' KB	1
12-3/4",33.38#,H-40,8TC csg (\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	20 6XS AT SURFACE 1 441' Btm of 12-3/4" csg 1 PERFORATED AT BASE SURFI 1 PIPE, PUMPED GO SKS. 1 CEMENT AT 325'	ACE
8-5/8" C39 430 SX CEMENT inside 11" hole PERF 6600'-6601' 7/20-7/21' SQUEEZE WITH 115 SXS.		
PERF 10010'-10011' 10550'-10551' SOUEEZE WITH 115 5X5	PERF 10262'-10270' 10272'-10278' 10290'-10296' SQUEEZE WITH 50 5XS	
	12812' TOP CEMENT	;
5-1/2" C59 250 SX CEMENT inside 7-7/8" hole	12887'Btm of 5-1/2" csg	9

PLUGGED AND ABANDONED

BUFFALO RESOURCES CORP. PRICE #1 2310' FAL + 660' FWL SEC 5-T175-R38E Elevation: 3725'GL 3744' KB UNIT E DRILLED IN 1972) SURFACE 100' CEMENT PLUG TO BE SEEDED IN 12-3/4",33.38#,H-40,8TC csg 375.6X CIRCULATED inside 17-1/2" hole (36/' Btm of 12-3/4" csg 2900' TOP CEMENT (CALC.) 8-5/8" C59. CEMENTED WITH 625 5X5 inside 11" hole 5/53' Btm of 8-5/8" csg 5200' 100' CEMENT PLUG 6502' 100' CEMENT PLUG 於明朝的時間 9470' 100' CEMENT PLUG (10000) (10000) 100' CEMENT PLUG 10286 100' CEMENT PLUG भारता । १२ १५० 100' CEMENT PLUG

7-7/8" hole

T.D. /3000'

OTHER WELLS

IN AREA

OF REVIEW

OSBORN HEIRS COMPANY

MATTIE PRICE #1
660 FNL & 660 FEL
SEC 6-T17S-R38E UNIT A

DRILLED TO TD OF 12,696 FEET IN 1971 COMPLETED AS AS OIL WELL PRODUCING FROM OPEN HOLE 12,683 FEET TO 12,696 FEET

HOLE SIZE	CASING	DEPTH	CEMENT	TOP CEMENT
17 1/2"	12 3/4"	420'	400	CIRCULATED
11"	8 5/8	5185'	500	4000' [EST]
7 7/8"	5 1/2"	12683'	750	7800' [EST]

OSBORN HEIRS COMPANY

MATTIE PRICE #2 1650 FNL & 990 FEL SEC 6-T17S-R38E UNIT H

DRILLED TO TD OF 12,684 IN 1971.

COMPLETED AS AN OIL WELL PRODUCING FROM OPEN HOLE 12,560 - 12,684

HOLE SIZE	CASING	DEPTH	CEMENT	TOP CEMENT
17 1/2"	12 3/4*	404'	375	CIRCULATED
11*	8 5/8"	5150'	500	3500' EST.
7 7/8"	5 1/2*	12558'	750	8100' TEMP. SUR.

OSBORN HEIRS COMPANY

MATTIE PRICE #4 980 FSL & 1650 FEL SEC 6-T17S-R38E UNIT 0

DRILLED TO TD OF 12,906 FEET IN 1972.

COMPLETED AS AN OIL WELL PRODUCING FROM OPEN HOLE 12,847 - 12,906.

LATER DEEPENED TO 13,095 FEET.

HOLE SIZE	CASING	DEPTH	CEMENT	TOP CEMENT
17 1/2"	13 3/8"	407°	400	CIRCULATED
11"	8 5/8"	5210'	575	5140 TEMP. SUR.
7 7/8"	5 1/2"	12847'	525	12381 TEMP. SUR.

HALLIBURTON SERVICES

HOBBS, NEW MEXICO

P.O. Box 2568

To Joe Ramey			:	Sample Numb	er 230			
1629 Katron Albuquerque	S.E. , New Mexico 87123		This report is the property of Halliburton Company and neither it nor a part thereof nor a copy thereof is to be published or disclosed without fi securing the express written approval of laboratory management; it means however, be used in the course of regular business operations by a person or concern and employees thereof receiving such report fo Halliburton Company.					
Submitted by Ost	borne Heirs		Da	ate Receive	<u>June 29, 1993</u>			
Well No. Mattie	Price Lease	Depth_	100	Formation	n Water Table Fresh water			
County Lea	Fiel	ld		Source				
Resistivity	16.234 @ 76 F							
Specific Gr	1.000							
рн	. 7.4	<u> </u>	· ·					
	400			·				
Ca Magnesium*	. nil							
Mg Chlorides* Cl	70							
Sulfates*	• 74				· · · · · · · · · · · · · · · · · · ·			
HCO₁	- 159	<u> </u>						
Soluble Iron* Fe	· nil		· · · · · · · · · · · · · · · · · · ·					
Remarks: Sample fr Mattie Pr	om only Fresh water ice Lease	windmil	1 on	*Milligrams p	er liter			
•	Respectfu	ally submi	tted,					
Analyst:			HALLIB	URTON COMPA	NY			
		ву_						

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

State of New Mexico, County of Lea.

I, Kathi Bearden
General Manager
of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.
of
one weeks. Beginning with the issue dated
July 11 , 19 93 and ending with the issue dated
July 11,19 93
Ausi Bense
General Manager Sworn and subscribed to before
me thisday of
Oralle Perrini Notary Fublic.
My Commission expires March 15, 1997

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

(Seal)

July 11, 1993
Osborn Heirs Company
(Box 17968, San Antonio,
TX 78286) will dispose of 2000 barrels of produced water per day, at a maximum injection pressure of 2500 PSI, into the Mattie Price No. 3 located 2300 feet from the South line and 990 feet from the East line of Section 6, Township 17
South, Range 38 East Lea
County, New Mexico. Injection will be into the Devonian Formation at a depth 12665 to 13078 feet.

Interested parties must file Interested parties must file objections or requests for hearing with the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.
Contact Party:
Joe D. Ramey 1629 Catron SE
Albuquerque, NM 87123 (505) 271-1150

COPIES OF THE APPLICATION WERE SENT BY CERTIFIED MAIL TO THE FOLLOWING:

DAVID PETROLEUM CORPORATION 116 WEST FIRST STREET ROSWELL, NM 88201

VERNON E. FAULCONER 1100 PEOPLES BANK BUILDING TYLER, TX 75702

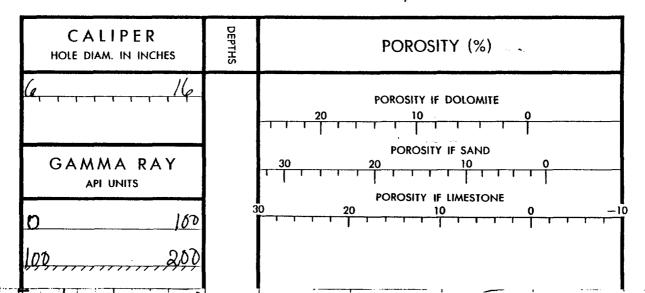
DAN C. BERRY BOX 67 EUNICE, NM 88231

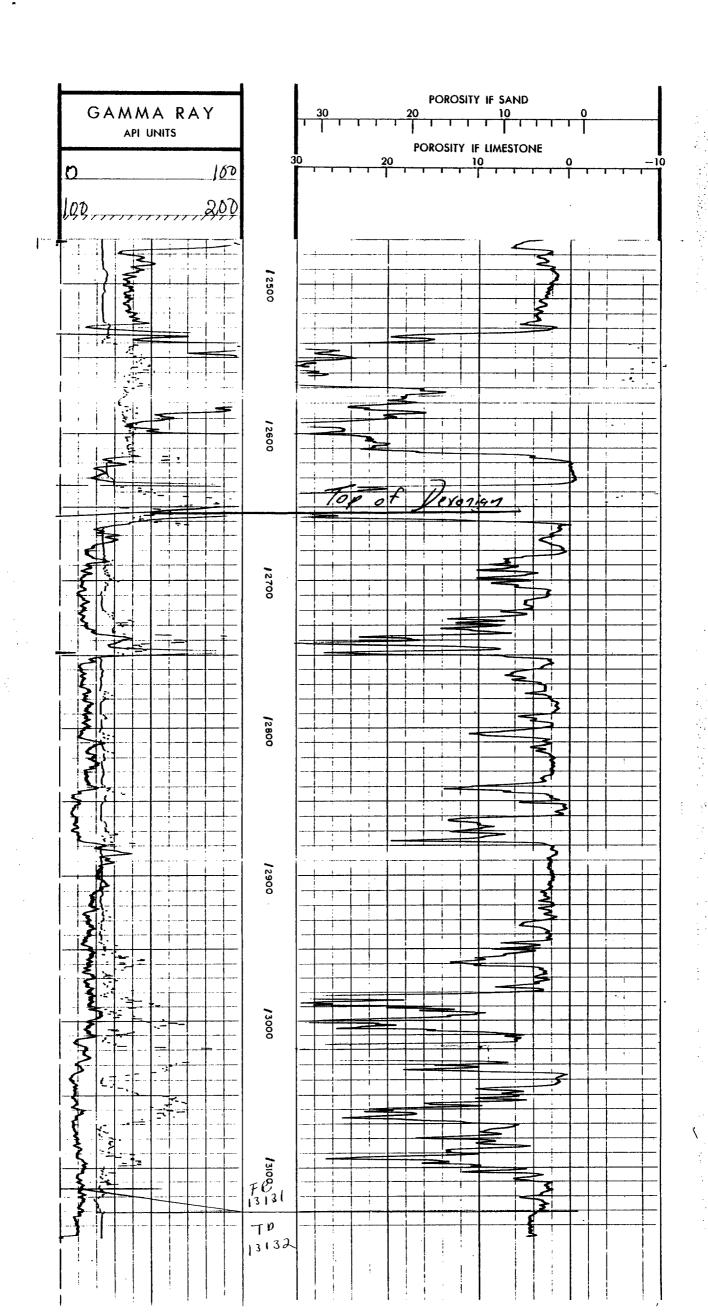
A COPY OF THE APPLICATION WAS SENT TO:

OIL CONSERVATION DIVISION PO BOX 1980 HOBBS, NM 88240

		Operating rig time Recorded by Witnessed by	Salinity, PPM Cl. Density Level Max rec. temp., deg f	Depth—Driller Depth—logger Bottom logged interval Top fluid in hele	Run No. Type Log	Permanent Datum: Log Measured From Drilling Measured F	COMPA	юи <i>5.0.#</i> мү		<u>o</u>	SCHLUMBERGER
	EXAMPLE RECORD TO Size Wgt. From $7 D$ 959 $54 rf$	My-Jemison	9 F	13, 13, 13, 13, 13, 13, 13, 13, 13, 13,	9-26-70 TWO Epithermal	:	Sec. 6 Twp. 17-5 Rge. 38-E	COUNTY Lea STATE M. I	re cr	COMPANY Free port OIL	BERGER NEUTRON POROSITY
	ORD To					Elev.: K.B. <u>3744</u> D.F. <u>3743</u> G.L. <u>372</u> (5)	ā,	Services		X	TY LOG
Run No.	PGP-D	The we	II name, lo	cation and			ATA lo. SI	FT-116	80H> Lo	ogging Unit	Location Habbs
Run No.	API Scale	Backg	ma Ray round CPS	Total CPS	Dro	BRATION outron — Bel	ore Log -	- ACPS	Drawer		g — ACPS Drawer Out
3	0-102		o 4. neral	596	LOC	GGING DA				Selectors	Down it.
Run No.	From T.D	12	To 500	Speed Ft./Min.	1C 2	API So		Matrix	Mud Corr. Setting as PPM-NaCIXIO	Temperature °F / 7.5	Porosity Scale
			Tay 6-11-1	V-11 & 6**		AUD DATA			oel		
Run No. 1 2 3 Remar	Rm. @ @ @ @ &\$:	°F °F °F		Vol. % Oil	by Vol.	% Water by	Vol. Visco	osity, Sec/Q1 @ @ @ @	°F °F °F	Solids, Av.	Sp. Gr.
and we resulting	pretations are opin shall not, except in from any interpre or current Price Sch	the case of lation made	gross or willful	negligence on o	ur part, be l	liable or respo	nsible for an	ry loss, costs, dom	ages or expense	s incurred or sus	tained by anyone

LOG FORMAT: MUD FILLED HOLES, LIME MATRIX





STATE OF NEW MEXICO

OIL CONSERVE ON DIVISION RECEIVED

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT IN AUT 10 19

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

BRUCE KING GOVERNOR August 4, 1993

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

**				
OIL CONSERVATION DIVISION				
P. O. BOX 2088	,			
SANTA FE, NEW MEXICO 87501			•	
RE: Proposed:				
MC MC				
DHC				
NSL				
NSP				
SWD X WFX				
PMX				
Gentlemen:				
I have examined the applica	ition for the:			
Osborn Heirs Co.	Mattie Price	#3-1	6-17S-38E	
Operator	Lease & Well No.	Unit	S-T-R	
and my macammandations are	as follows.			
and my recommendations are	as rollows:		•	
				
				
Yours very truly,				
Today very cruty,				
Jerry Set				
Verry Sexton Supervisor, District 1				
JUDGIA1301 * DISCLICC I				