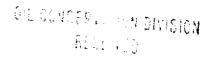
XECENSE 6.10.93



100 C. 27 int 9 18



May 20, 1993

Mr. William LeMay Division Director Oil Conservation Division New Mexico Energy and Minerals Department P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Mr. LeMay:

Enclosed herewith, in triplicate, is the application of Marbob Energy Corporation for authority to convert to water disposal the Keely B Federal well No. 24 located 660 feet from the South line and 560 feet from the West line of Section 24, Township 17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.

Waters to be disposed of will consist of Seven Rivers, Grayburg, and San Andres production water from the Grayburg Jackson Seven Rivers, Queen, Grayburg, San Andres Pool.

Application is made pursuant to Rule 701 D of the Division Rules Regulations for Administrative Approval for disposal into the Upper Pennsylvanian formation which is nonproductive of oil or gas within a radius of one half mile from the proposed injection well.

Publication of Marbob's intent to utilize the subject well for water disposal has been made in the Artesia Daily Press, and copies of this application have been furnished to each leasehold operator within one half mile of the well. The United States of America is the owner of the surface of the land upon which the well is located.

Your approval of the subject application at the expiration of the required 15-day waiting period is respectfully requested.

Sincerely,

Raye Miller

Land Department

Raye Milla

RM/mm **Enclosures**

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION APPLICATION FOR ADMINISTRATIVE APPROVAL MARBOB ENERGY CORPORATION FOR CONVERSION TO WATER DISPOSAL

THE

KEELY B FEDERAL WELL NO. 24

Located 660' FSL 560' FWL Sec. 24, T-17S, R-29E Eddy County, New Mexico

TABLE OF CONTENTS

ITEM	ATTACE	HMENT	
Application	.Form (C-108	
Injection Well Data Sheet			
Map of Area Showing Well & Lease Ownership			
Well Data			
Data Sheet			
Disposal Water Analysis			(a)
Geological Data			
Stimulation Program			
Logging and Test Data			
Fresh Water Analysis			
Affirmative Statement	.C-108	XII	
Proof of Notice (to Offset Operators)			(a)
Proof of Notice (by publication)			(b)

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87501 FORM C-108 Revised 7-1-81

APPLICA	TION FOR AUTHORIZATION TO INJECT	
Ι.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Secondary Pressure Maintenance	
II.	Operator: Marbob Energy Corporation	
	Address: P. O. Drawer 217, Artesia, New Mexico 88210	
	Contact party: Raye Miller Phone: 505/748-3303	
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? yes X no If yes, give the Division order number authorizing the project	
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.	1
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.). 	
·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/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.	N N
• x.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)	٠V
× 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.	
XIII.	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: Raye Miller Title Attorney-in-Fact	-
	Signature: Raye Milla Date: 5/21/93	-
subm:	he information required under Sections VI, 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

- 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:
 - 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 anly when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool rame.
 - (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 advectisement 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.

OPERATOR		···	LEASE		
	Energy Co	rporation	Keely B Fede	ra1	
WELL NO.	TOOTAGE	LUCATION	SECTION	TOWNSHIP	RANGE
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Other Dat	. 0				
1. Name	of the injec	tion formation	Upper Penn	sylvanian	
2. Name	of Field or	Pool (if appli	cable) N/A		
3. In th	nis a new we	ll drilled for	injection? / Yes	XX No	
If no	o, for what p	ourpose was the	well originally dri	11ed? <u>Oil and g</u>	as production
4. Hos	the well eve	r baen perform	ed in any other zone	(n)? List all such	perforated interval
and e	give pluggin	g detail (sock:	of coment or bridge	plug(s) used) Open	<u>hole 11,149 to</u>
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				4	

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5. Give the depth to end name of any overlying and/or underlying cil or gas zones (pools) in this area. No underlying pools in 1/2 mile radius, overlying pool

Grayburg Jackson Seven Rivers, Queen, Grayburg, San Andres producing from about 1400' to 3300'.

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i ⁴	State	Marico Expl. HBP 12566 HBC E/2 U. S. M.I. LF Clemmons, etal.s)	AE HILL U.S.M.I.	7.1.92 53237 1200 Expl. 5.1.93 63303 U. S. M.I. Marg. McGuffin	12 16 96	Mingres McGuffin Tusico (Imp. Amer. rg. McGuffin	Spence Ener 1 2 92 92 72 92 7 20 92 Phillips Allal Marg. C Margaret	Modragno Modrifin Davis T0382 - T0,etal 5-21-88 K. ALR.C.Hanks) rrend Son M.I. MaGuffin,etal	31.574c A America BTA OG 421 America OG 421 Sus
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							Fine Ma	State (mit skilinger	Stage Cont.

WELL DATA

A review of the records indicate there are no wells which have been drilled to the depth of the proposed disposal zone within the area of review.

Attachment C-108 VI

DATA SHEET (Section VII, Form C-108)

- 1. Proposed Rate of Injection
 - A. Average daily rate of injection: 2000 barrels
 - B. Maximum daily rate of injection: 5000 barrels
- 2. Type of System System will be closed
- 3. Anticipated Injection Pressure

 It is anticipated that the injection pressure
 will be nominal but in no event would the
 pressure exceed 0.2 psi per foot of depth to
 the top of the injection zone at 9265 feet, or
 1853 psi.
- 4. Source of Injection Water

 Source of disposal water is Seven Rivers,
 Grayburg, and San Andres wells located in
 Sections 12, 13, 23, 24, 25, and 26, of
 Township 17 South, Range 29 East, and Sections
 18, 19, and 30 of Township 17 South, Range 30
 East. See Attachment VII (a) for analysis of
 disposal water.
- 5. Disposal Zone Water Analysis Disposal is to be into a zone not productive of oil or gas within 1.25 miles of the A review of the records proposed well. revealed that there are not any analysis of water from this zone on file. This well reported sulfur water when testing this zone. analysis records were checked Water Halliburton to no avail. A review was made of Ashley the Artesia with Mark Conservation Division for material on this zone in this area. We anticipate that the formation water will contain lower chlorides than our disposal water but that it will be compatible with the formation since this zone produced water which was used in a pilot water flood project in the shallow zones and no incompatibility problems were reported. reported in the well files from the disposal zone on three different test was 6.9, 7.0, and 7.2. Attached, Exhibit A, is a water analysis of the Burch Keely produced water from the Seven Rivers, Grayburg, and San Andres formations.

HALLIBURTON DIVISION LABORATORY

EXHIBIT A (Section VII, C-108)

HALLIBURTON SERVICES ARTESIA DISTRICT

LABORATORY REPORT No. W167 & W168-93 Marbob Energy Corporation TO Date May 20, 1993 P. O. Box 304 This report is the property of Halliburton Services and neither 4 nor any gert thereof, nor a copy thereof, is to be published or disclosed without first securing Artesia, NM 88210 the express under approval of leboratory management, it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Haliburton Services Submitted by ______ Date Rec._____ Well No. _____Depth____ Formation Field County Source Burch Keely Mary Dodd A **Resistivity** 0.066 @ 70° 0.060 @ 70° Specific Gravity .. 1.0979 @ 70° 1.1250 @ 70° рН 7.0 **Calcium** 4,379 3,332 Magnesium 2,081 2,890 ______111,000 **Sulfates** 1,000 400 1,403 Bicarbonates 976 Soluble Iron 0

Remarks:

Respectfully submitted

Analyst: Eric Jacobson - Operations Engineer

HALLIBURTON SERVICES

Jack Ahlen

CONSULTING GEOLOGIST
533 PETROLEUM BUILDING
ROSWELL. NEW MEXICO 88201

19 May 1993

1993 GAN 37 1993

Marbob Energy Corporation P.O. Box 217 Artesia, NM 88210-0217

Re: Administrative Approval for Water Disposal, Your Keely B #24 Well SWSW Sec. 24 T17S R29E Eddy County, New Mexico

Gentlemen.

I have prepared two exhibits and one table in support of your request for a water disposal well into the Pennsylvanian Formation at a depth of 9260' to 9270' in the above refrenced well.

Exhibit 1 is a structure map at the top of the proposed disposal zone. The map shows regional dip to the southeast into the Delaware Basin with local terracing which is associated with upper Pennsylvanian reefing. Disposal would be into reef equivalent beds.

Exhibit II is a north south structure cross section through the proposed disposal well and the ARCO Jackson Federal #1 well which produced oil for a period of 18 months from the proposed disposal zone equivalent. The cross section shows the stratigraphic and structural relationships of the overlying and underlying beds as well as perforation and drill stem tests.

The proposed disposal zone has been utilized in the past as a source for water in secondary flooding of the overlying Grayburg and San Andres formations. A total of 1,607,031 bbls of water had been produced from the zone through June 1962. Part of the water being injected will have come from this zone. No compatibility problems are expected because of this relationship.

I have examined all available records and data and find that no other well has been drilled within a one half mile radius which penetrates the proposed disposal zone. The zone has produced oil from the ARCO #1 Jackson Federal well located approximately one and a half miles to the southwest. A total of 31,497 bbls of oil, 60,327 MCFG and 138 bbls of water have been produced from this zone prior to abandonment in May of 1986. No other wells within the two mile radius have produced oil or gas from the disposal zone.

Appendix A tabulates all wells drilled through the zone of interest within two miles of the proposed disposal well.

A search of the State Engineers Office in Roswell reveals the above referenced water disposal system lies outside all declared underground water basins. One fresh water well has been drilled in the area of review in Unit B of Sec. 35 T17S R29E. It was abandoned as no potable water was discovered. Ranchers use a fresh water pipeline for domestic purposes in this area.

Your request appears to meet the geological requirements for administrative approval of this project.

Respectfully submitted,

Jack Ahlen

Appendix A

Well Name		Locati	.on		TD	Pay Zone
	Unit	Sec.	Tsp	Rg		j
General American	Н	13	17S	29E	11,402	Temp abd, OWWO
Keely C #45						Grayburg 2507-
					·	2563
Oryx	L	14	17S	29E	11,025	Morrow, 10,728-
Little Wing Fed Com #1						10,748
Marbob Energy Corp	0	15	17S	29E	11,242	P&A, OWWO San
Dodd A #21-Y						Andres, Queen
					· · · · · · · · · · · · · · · · · · ·	2364-3416
H.L. Brown Jr.	P	15	17S	29E	10,864	Morrow, 10,770-
Dodd - Fed #1						10,790
Moran Dlg & Prod Corp	J	22	17S	29E	10,880	P & A
Dodd #1						
General America of Texas	D	23	17S	29E	12,260	Orig. P&A, recomp
Burch C #15						San Andres 2407-
				77		3312
Marbob Energy Corp	M	24	17S	29E	13,341	Orig. P&A, WSW
Keely B #24						Penn., 9260-70
						San Andres 3452-
						3550
Atlantic Richfield Co.	K	27	17S	29E	11,065	P&A
F.M. Robinson						
Fed Com #1						
ARCO O&G	С	35	17S	29E	11,383	Cisco, 9185-9215
Jackson Fed #1	 -					
Great Western	F	18	17S	30E	12,211	Morrow 11,039-
Grayburg Deep Unit #1						11,057
General American	P	18	17S	30E	11,422	Glorietta 4223-
Burch A #17						4240
Phillips	С	19	17S	30E	11,240	Morrow 10,891-
Grayburg Deep Unit #10						10,960
General American	Н	30	17S	30E	11,600	P & A
Crayburg Deep Unit #8					<u></u>	

STIMULATION PROGRAM (Section IX, Form C-108)

The proposed injection well was originally drilled in April, 1952 as a Devonian test. Thirteen and three-eighths inch casing was set at 324 with 650 sacks of cement which was brought back to surface. A 12 1/4" hole was drilled to 3452 where 9 5/8" casing was cemented back to surface with 2350 sacks. An 8 3/4" hole was drilled to TD of 13,341'. Plug back was 11,424. Seven inch casing was set at 11,149' and cemented with 365 sacks. Top of cement was 6495'. They attempted completion in open hole from 11,149 Set cement plug in 7" from 11,150 to 11,100. Set 7" CIBP at 9270. to 11,424. Attempted completion from 9100-9140 and 9160-9200. Limited zone. Loaded hole with mud and TA'd well for four years. Drilled out bridge plug and circulated at 9540'. Set CIBP at 9530' with 2 sacks Calseal and two sacks cement to plug back at 9500'. Perforated 9265 - 9299. In next five years produced 1,607,031 barrels of water for pilot waterflood project. Cut 7" casing at 3722'. Set cement plug from 3722' to 3550'. Current injection is in following perfs and open hole 2342-2348, 2455-2488, 3004-3032, 3146-3192, 3383-3393, and 3530-3560. It is proposed to drill out cement plug from 3550 to top of 7" casing. Clean out 7" casing to cement plug at 9500'. Log well to determine casing integrity. Perforate 9265 to 9299 and test zone for disposal capability. Either tie back 7" to surface or run 5 1/2" casing to 9200' and cement in two stages. Prior to running 5 1/2" casing, 7" casing will be perforated at 6450' to cover top of Abo, 5540' to cover top of Tubb, and 4070' to cover top of Glorieta with cement. Treatment of the zone will consist of 1,000 gallons of 15% NE acid if needed.

LOGGING AND TESTING DATA (Section X, Form C-108)

The Schlumberger Electric Log run on the subject well on February 1, 1953 is included in Section VIII as part of Exhibit II. DST's were taken at various depths in the well and tabulated results are included here as Exhibits I through V.

CULF GRA: RG UNIT NO. 1

EXHIBIT I

FORM C-108 X

Positive Test 4 1/2" DP	Positive Test P 4 1/2" DP	Fositive Test 4 1/2" DP	Tenp @ 7338: 138° 4 1/2° DP Positive Test	4 1/2 DP Positive Test	Temp. @ 6335' 132° 4 1/2 n DP Positive Test	Remarks:
3770#	378 0 #	375o#	3,650#	40447	3130#	Hydrostatice Presse
1280#	520#	None Taken	370#	120#	0	Shut-in Press
: 15	1 15	\$ 00	\$ 15	*15	115	Total Time Shut in
150#	406	1 55#	60#	50 世	285#	Closing Flowing Press.
9	#O+	#0	60#	30 #	70#	Inital Flowing Press.
74391	73651	7510*	7179"	7152*	62221	Depth Recorder Set
(μβ0) highly gas cut-slty o.l cut S.	None	None	None	None	None	Mater
Show	drk. gray-green w/salty Taste. Gas w/in LOO' Top	None	None	Mone	None	110
cut mud Sit show oil	300° highly gas	150° very sitly gas out	205' sitly gas cut	None	None	Cut Mud
None	None 2701	None	Може	35' (no shows)	480' (no shows)	Mud
None	None	None	2051			Fluid Recowery
Not. Measurable.	None	in None	in :40. Decr. to 1000 in 1:30	None	None	Rate of Flow
None	None	None	None None	None	None	Water
None	None	None	None	None	None	011
None	Моне	None	None	None	None	Mud
#11	None	None	\$ 35	None	None	Gas
Cpen w/good blow air st		Weak Blow air die	Open #/fair blow air	Weak blow air thru	Weak blow air thru	Air
	Weak blow air. Inc.					Surface Reaction
1:30	2,00	1:00	1:30	1,00	1,00	Total Time Open
L	J	N	1	ч	ı	Times Tool Reset
5/8" B, 1" T	5/8" B, 1" T	5/8" B, 1" T	5/8" B, 1" T	5/8" B, 1" T	5/8" B, 1" T	Chokes
Lower Abo.	Lower Abo.	Lower Abo.	Lower Abo.	Lower Abo.	Lower Clear Fork	Formation Tested
7442-7492	7392-7442	7340-7380	7205-73կ0	7102-7154	6249-6337	Interval Tested
Two 8th Form.	• Two 8" Form.	Two 8" Form.	Two 8" Form.	Two 8" Form.	Two 8" Form.	Size & Type Pkr.
Howco	Howco	Howco	Howco	Ножео	Howco	Testing Co.
6-19-52	8-18-52	8-16-52	8-14-52	8-11-52	7-28-52	Date
6	5	4	3	2	1	TEST NO.
			FORM C-108 X		***	Record of Drill Stem Tests;

GULF GRA JRG UNIT NO. 1

Record of Drill Stem Tests:

FORM C-108 X EXHIBIT II

Remarks:	Hydrostatic Press.	Shut-In Press.	Total Time Shut-in	Closing Flowing Press.	Initial Flowing Press.	Depth Recorder Set	Wa ter	011	Cut Mud	Mud	Fluid Recovery	Rate of Flow	Water	011	Mud	Gas	Air Fe	Surface Reaction	Total Time Open	Times Tool Reset	Chokes	Formation Tested	Interval Tested	Size & Type Fkr.	Testing Co.	Da te	TEST NO.
Positibe Test 4 1/2" DP	3900#	100#	‡1 5	•	• 0#	7505"	None	None	None	30' No show		None	None	None	None	None	Fair blow thru out		1:00	٣	5/8" B, 1" T	Upper Hueco	7537-7570	Two 8" Form.	Howco	8-20-52	7
Positive Test	3895#	215 5 #	a 15	1/10 #	95#	7544*	None	None	sul. water cut.	100' slty:Gas cut	1901	None	None	None	None	N one	Week blow thru out		1;00	Þ	5/8" B, 1" T	Upper Hueco	7570-7606	Two 8" Form	Ножео	8-21-52	8
Positive Test 4 1/2° DP	3787# ?	H01	115	9	Q.	7573*	None	None	None	100 tanos shows	100*	None	None	None	None	None	Weak blow thru out		1,00	,	5/8" B, 1" T	Upper Hueco	7606-7687	Two 8th Form	Ножсо	8-23-52	9
* Tool Plugged on Opening Mis-run	3823 #	*	۽ 15	*	*	7819*	None	Holo	None	5' No shows	\ <u>r</u>	Mone	None	None	None	Nome Nome	ntary weak blow		1:00	N	5/8" B, 1" T	Hueco	7842-7876	Two 8" Form	Ножео	8-27-52	10
ling Fositive Test	388 <i>3</i> #	\$	*1 5	₩	0#	7617	None	None	None	15' No shows	151	None	None	None	None	None	Weak blow air for :30		1,00	۳	5/8" B, 1" T	Hueco	7837-7876	Two 8" Form	Howco	8-28-52	11
Positive Pest	~•3	Q	115	60#	Q.	7997"	Noze	None	170' Gas out (no oil show)	None	170'	None	None	None	None	None	Fair blow air thru out		1,00	مبو	5/8" B, 1" T	Hueco ?	8024-8087	Two 8" Form.	Howoo	8-31-52	12

Record of Drill Stem Tests:

EXHIBIT III

FORM C-108 X

Closing Hydrostatic Press. (in) 4310# (out) 4255# (in) 4580# (out) 4530 (in) 4550% (out) 4610# Remarks: Shut-in Total Shut-in Time Initial Flowing Press. Depth Recorder Set Fluid Recovery Surface Reaction Total Open Time Times Tool Reset Size & Type Pkr. Testing Co. Formation Tested Interval Tested Test No. 110 Cut Mud Mud Mud Gas Rate of Flow Air Flowing Press. 100' Highly & Salt water 300° Highly Gas out 400° total fluid dec. toward end. Fair blow air grad. Positive Test 4 1/2" DP Two 8 " Form 5/8" B, 1" T 8838-8898 **1**5 28# 88091 None None None None None ещом 1:15 Mons Penn(f) 9-14-52 Howco 13 Weak blow air for :45 Positive Test L 1/2" DP 8 ફુ 5/8" B, 1" 8940-9010 No show Total Two 8" Form 89131 **1**15 智 유 Mone None None None Noze None None None 8 Howco 9-16-52 ۲ 150' of 41° 011. Gas to surface in *7 Opened w/good blow air 382.6 MCF per day 50' 0 & G Cut 200' Total Positive Test 4 1/2 DP 5/8" B, 1" Two 8" Form. 9160-9207 370g 250 91351 :15 Nome None Mone SCON. 1:15 Penn Howco 9-20-52 Nome Nome 75° slightly sul. water Open w/stead. blow Weak blow air thru cut air grad. dec. to fair 345# (in) 4750# (out)4750# 5/8" B, 1" T out mud Positive Test 4 1/2 DP 9204-9238 Two 8" Form. 75' total :15 赤 None None Мопе Коре None None Fenn. 1:00 Howco 9-21-52 16 Grade of Sul. Water 5.2 Be HVY 8500' fill up in 1,10- 101 bbls/hr 150' mud out Sul. Water 8150' Slightly gas out Sul. Wtr. 9227' Positive Test blow at end of test 5/8" B, 1" T (in) 4690 # (out) 4690 # 8300' Total 9255-9310 Two 8" Form. 9-22-23-52 Penn. Buon 3600# 575E None None None Mone None Home None None 1:10 Howoo Gauged at rate of 1800 ou ft. Sweet mas 190' highly gas cut drlg. mud. per day by Gulf 190' total Positive Test. (in) 5275# (out)5275# ₫ 1/2" DP for balance of test To surface in :38 steady flow g Open with steady blow of air 5/8" B, 1" T 9320-9970 Two 8" Form Penn. **5**70 50<u>f</u> 9891 \$ None None 2:00 Ножсо 10-4-52 None 18

EXHIBIT IV

GULF-GRAYBukG UNIT NO. 1
Record of Drill Stem Tests:

FORM C-108 X

Pemarks: Positive Test	Hydrostatic Press	Shut-in Press	Total Time Shut-in	Closing flowing Press.	Initial Flowing Press.	Depth Recorder Set	Water	011	Cut Mud	Mud	Fluid Recovery	Rate of Flow	Water	011	Mud	Gas	Air Imme	Surface Reaction	Total Time Open	Times Tool Reset	Chokes	Formation Tested	Interval Tested	Size & Type of Pkr.	Texting Co.	D _a te	1666 No.
3 1/2"	5670#	145#	:15	в. 4o#	s• 10#	149 149	None	None	None	90		None	None	None	None	out None	Immed. Good blow thru		1:00	,	5/8" B. 5/8" T.	Fenn.	10,768-10,825	Two 8" Form.	Howco	10-23-52	19
DP 2:30 to losen pkr. J Tool started leaking Jarring & filled D? w/ Mud waile pulling out. Positive Test 3 1/2"	A 54 - 1 70 - 1						None		601	30075 10 106	To	75	in t Gaug Tang	Accu	-		Heavy mud I	bottom	get balow	Mis- run	5/	Penn.		Two 8" Form.	Howco	11-8-52	20
arter was compared and to jar 2:30 to losen pkr. Apparently Tool started leaking while Jarring & filled DP w/37.00 and while pulling out. besitive Test 3 1/2" DP	5935#	2060#	\$15	435#	4554	11,146	•		601 condensate	90' Condensate out	Total 3850'	FD a race of ic bots condiring	398 Jo	Accum. 25 gas. condensate		To surface in :06	Immed. Stead. blow.		2,000	μ	5/8" B, 1" T	$Penn_{ullet}$	11,173-11,271	Two 8th Form,	Howco	11-10-52	21
													,					bottom.	bridge 250° off	11,334 and hit	from 11,271, to	to test section	Mis-run attempted	Two 8" Form.	Howao	11-15-52	22
Valley Gas co. Caught 2 smpls. for anal. & l smpl. for distillation Fositive Test 3 1/2"	0ut-6000# 6200#	Close	*15	550# 620#	1100# 370#	11,355' 11,214'	No 239	None	180' Gas out	52201	Total 5400'	Max. #11		None	PD grad dedr. 43.2 MCF	Immediately inc to strong To surface :12 Gauged 56.	Open w/weak blow.		2;00	ш	2/8 x 1 x 18/6	Fenn. & Poss.	11,2271-11,334	Two 8" Form.	Howco	11-17-52	23
nt Positive Test & 1 3 1/2 DP ion test.	(0		:15	光化	11,5#	11,309'	None	None	350' Highly Gas	None	Total 350			No distillate	MCF Guaged steady flow 61.9 MCF Sweet gas/d.	Immediately inc to strong To surface :12 Gauged 56.1 MCF Gas to surface :13	Open w/immed. strong blow		2:00	,	5/8" B, 1" T	Poss. Upper Miss.	11,334-11,400	Two 8" Form.	Howco	11-20-52	24
									78.65					¥	low 61.9 MCF	13	Ψ,				118' off bottom.	11,400-11,466	Mis-run attempted	Two 8th Form.	Howco	11-23-52	25

GULF GR/ JRG UNIT NO. 1
Record on drill stem tests:

EXHIBIT V
FORM C-108 X

Remarks: Pos 3 1 BiiT @	Hydrostatio Press.	Shut in Press.	Total Time Shut in	Clesing Flowing Press.	Initial Flowing Press.	Depth Recorder set	Wa te r	011	Cut Mud	Mud	Fluid Recovery	Rate of Flow	Water	011	Mud	රසය	Air Or	Surface Reaction	Total time open	Times Tool Reset	Chokes	Formation Tested	Intervall Tested	Size & Type Fke.	Testing Co.	Date	Test No.
Positive Test I 3 1/2" DP Biff @ 11,465 1420 Use	(in) 6145# (out)5910#	90#	£15	ss. 65#	88. 65#	11372"	None	Моря	N _o ne	90' (no shows)	90' Total	None	Noze	None	None	None	*		1:00	μ	5/8" B, 1" T	Poss. Uper Miss.	11,400-11,466	Two 8" Form.	Howco	11-25-52	26
Positive Test 3 1/2" DP Used Howco Hydr Tool BHT 12,134' 162	(out) 6260# (in) 6215#	#520t	£15	第 6	4	12040*	Море	Mone	None) 120' (No shows)	120' Total	None	None	None	None		Open w/wery weak blow Open w/good blow air		1:00	۳	1" B, I" T	Upper Devonian	12,055-12,135	Two 8" Form.	HOWCO	12-19-52	27
3 1/2DP * Fill-up 16.30 bbls per hrof 5.4°Be Hy @ 70° F. Salt water. ERT % 12,188=158° Positive Test	(in) 6495# (out)6435#	3895#	115	2205#	290#	12,108	4850° Salt Water	None	90' Salt mater out	None	4940' Total	None	None	None	Мопе	Nome	Open w/good blow air		2;00	۳	5/8" 8, 1" T	De voni an	12,135-12190	Two 8" Form	Howco	12-21-52	28
s Positi ve Test 3 1/2 ⁿ DP	(1n) 6498#	2920#	115	15¾	140	12,3838	None	Nozs	None	280*	280' Total	None	None	Може	None	None	Weak blow air thru out		1:00		5/8" B, 1" \$	Siluro-Dev.	12,400-12,470	Two 8" From	Howoo	To the state of th	29
3 1/2" DP Positive Test BHT @ 13,240 - 150° F	(in) 6900# (out)6850#	北	115	40	o#	13,240"	None	None	None	601	60' Total	None	None	None	None	a alea in 50 min.	Immed, sl blow air, dim.		1:00	H	5/8" B, 1" T	Ellenburger	13,176-13,241	Two 8" Form.	Ноwоо	1-26-53	30
Positive Test 3 1/2"DF * Mud out w/salt water tested 9.5 f/gal viscosit 42 sec. Filtrate contain 58,000 PPM Choride	(in)6900# (out)6880#	5120#	\$1 5	30 0 #	30#	13,216'	None	Nome	270' Salt water cut *	370"	640' Total	None	None	None	None	inc. thru out test. Nome			1:30	щ	5/8" B, 1" T	Ellenburger	13,241 - 13, 341	Two 8" Form.	Howoo	1-26-53	31

FRESH WATER ANALYSIS

(Section XI, Form C-108)

As indicated by Section VIII there were no records found on fresh water wells in this area. Our search of the area found one water well in Section 35. The well was abandoned. This well is located in the NW/4 of the NE/4 of Section 35. We asked the owner about the well and he indicated the well had not been used in years because "the water was no good".

AFFIRMATIVE STATEMENT

(Section XII, Form C-108)

Applicant hereby affirms that he has examined the available geologic and engineering data and finds no evidence of open faults or other hydrologic connection between the disposal zone and any underground source of drinking water.



Phillips Petroleum Company 4001 Penbrook Odessa, Texas 79762

Attention: Mr. Troy Richard

RE: Proposed disposal well

Dear Mr. Richard:

Enclosed please find an application for a proposed salt water disposal well located in Section 24, Township 17 South, Range 29 East, Eddy County, New Mexico. If you have any questions regarding this application, please contact me at 505/748-3303.

If you have no objection to the application, please sign below and return one copy of this letter to us.

Sincerely, Raye Miller Raye Miller

Land Department

RM/mm Enclosures

Phillips Petroleum Company has no objection to the proposed disposal well.

By: ______

Title: _____

Date: _____

cc: Mr. Jack Pickett

Phillips Petroleum Company

4001 Penbrook Odessa, TX 79762



Bureau of Land Management 1717 W. Second Street Roswell, New Mexico 88201	
Attention: Mr. Armando Lopez	
	RE: Proposed disposal well
Dear Mr. Lopez:	
Enclosed please find an application for a in Section 24, Township 17 South, Range 29 have any questions regarding this application,	· · · · · · · · · · · · · · · · · · ·
If you have no objection to the applicatio of this letter to us.	n, please sign below and return one copy
	Sincerely,
	Rays Miller
	Raye Miller
RM/mm Enclosures	Land Department
The Bureau of Land Management has no object	ection to the proposed disposal well.
By:	
Title	

Date: _____



Great Western P. O. Box 1659 Midland, Texas 79702

Attention: Mr. Mike Headington

RE: Proposed disposal well

Dear Mr. Headington:

Enclosed please find an application for a proposed salt water disposal well located in Section 24, Township 17 South, Range 29 East, Eddy County, New Mexico. If you have any questions regarding this application, please contact me at 505/748-3303.

If you have no objection to the application, please sign below and return one copy of this letter to us.

Sincerely,

Raye Miller
Land Department

RM/mm
Enclosures

Great Western has no objection to the proposed disposal well.

By:

Title:

Date:



Davoil, Inc. P. O. Box 122269 Fort Worth, Texas 76121-2269

Attention: Mr. Kenneth Smith

RE: Proposed disposal well

Dear Mr. Smith:

Enclosed please find an application for a proposed salt water disposal well located in Section 24, Township 17 South, Range 29 East, Eddy County, New Mexico. If you have any questions regarding this application, please contact me at 505/748-3303.

If you have no objection to the application, please sign below and return one copy of this letter to us.

Sincerely,

Ray Miller

Raye Miller
Land Department
RM/mm
Enclosures

Davoil, Inc. has no objection to the proposed disposal well.

By:

Title:

Date:



Wilshire Oil Company of Texas 200 North Harvey, Suite 717 Oklahoma City, Oklahoma 73102

Attention: Mr. David George

RE: Proposed disposal well

Dear Mr. George:

By:

Enclosed please find an application for a proposed salt water disposal well located in Section 24, Township 17 South, Range 29 East, Eddy County, New Mexico. If you have any questions regarding this application, please contact me at 505/748-3303.

If you have no objection to the application, please sign below and return one copy of this letter to us.

Sincerely,
Raye Miller
Raye Miller
Land Department
Enclosures

Wilshire Oil Company of Texas has no objection to the proposed disposal well.

Title: _____

Date:

Affidavit of Publication

	No1	4319	· · ·	
STATE OF NEW MEXICO,				
County of Eddy:				
Gary D. Scott		bei	ng d	luly
sworn, says: That he is the P	ublisher		of '	The
Artesia Daily Press, a daily new	spaper of ge	neral cir	culat	ion,
published in English at Artesia, sa	aid county an	d state, s	and t	that
the hereto attached Legal	Notice			
was published in a regular and e Daily Press, a daily newspaper d within the meaning of Chapter 16	uly qualified	for that	pur	pose
			days	3
the state of New Mexico for	con	secutive '	week	s on
the same day as follows:				
First Publication May 20,	1993			
Second Publication				
Third Publication				
Fourth Publication			···	
X ans) (/ H	?	
Subscribed and sworn to before	me this	20th		_day
of	May		_19	93
Buhara a	Bo	ins		
Notary P	ublic, Eddy Co	ounty, Ne	w M	exico
My Commission expires So	otember 23	, 1996		

Copy of Publication

MAY 24 1993

LEGAL NOTICE

Notice is hereby given pursuant to Rule 701 B 3 of the New Mexico Oil Conservation Division Rules and Regulations that it is the intent of Marbob Energy Corp. to uti-lize the Keely B well No. 24 located 560 feet from the West Line and 660 feet from the South Line of Section 24, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico for the underground disposal of produced water in the area. Disposal will average 2000 barrels per day but could go as high as 5000 barrels per day. Maximum injection pressure will not exceed 1853 pounds per square inch. Questions regarding this proposal may be directed to Raye, Miller, P.O. Drawer 217, Artesia, N.M. 88210, Telephone 748-3303.

Objections to this proposal or requests for hearing on the matter, together with the reasons therefor, must be filed in writing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, N.M. 87501, within 15 days after date of publication of this notice.

Published in the Artesia Daily Press, Artesia, N.M. May 20, 1993.

Legal 14319

ТО

203 NU 22 FM 8 56

FROM

SPEED LETTER®

Mr. Ben Stone/Oil Conservation Division	Marbob Energy Corporation
P. O. Box 2088	P. O. Drawer 217
Santa Fe, NM 87504	Artesia, NM 88210
SUBJECT Keely B #24 Salt Water Disposal Well	
Dear Mr. Stone:	
Per your telephone request today, enclosed	please find copies of the
certified return receipts and copies of the let	ters that we have received
from the offset operators on the above reference	ed well. If you need any-
thing else, please contact us.	
DATE 6/17/93	SIGNED Misti McLurg / Ustr / Lur
REPLY	
LO FOR NO 1	
DATE	SIGNED
Wilson Jones - Carboniesa - MADE IN U.S.A.	



Great Western P. O. Box 1659 Midland, Texas 79702

Attention: Mr. Mike Headington

RE: Proposed disposal well

Dear Mr. Headington:

Enclosed please find an application for a proposed salt water disposal well located in Section 24, Township 17 South, Range 29 East, Eddy County, New Mexico. If you have any questions regarding this application, please contact me at 505/748-3303.

If you have no objection to the application, please sign below and return one copy of this letter to us.

Sincerely,

Raye Miller

Land Department

Raye Miller

RM/mm Enclosures

Great Western has no objection to the proposed disposal well.

By:

P.O. Drawer 217 • Artesia New Mexico 88211-0217 • (505) 748-3303



JUN 07 1993

Wilshire Oil Company of Texas 200 North Harvey, Suite 717 Oklahoma City, Oklahoma 73102

Attention: Mr. David George

RE: Proposed disposal well

Dear Mr. George:

Enclosed please find an application for a proposed salt water disposal well located in Section 24, Township 17 South, Range 29 East, Eddy County, New Mexico. If you have any questions regarding this application, please contact me at 505/748-3303.

If you have no objection to the application, please sign below and return one copy of this letter to us.

Sincerely,

Raye Miller

Land Department

RM/mm Enclosures

Wilshire Oil Company of Texas has no objection to the proposed disposal well.

By:

Title: Vice President

Date: May 27, 1993



Davoil, Inc. P. O. Box 122269 Fort Worth, Texas 76121-2269

Attention: Mr. Kenneth Smith

RE: Proposed disposal well

JUN 0 4 1993

Dear Mr. Smith:

Enclosed please find an application for a proposed salt water disposal well located in Section 24, Township 17 South, Range 29 East, Eddy County, New Mexico. If you have any questions regarding this application, please contact me at 505/748-3303.

If you have no objection to the application, please sign below and return one copy of this letter to us.

Sincerely,

Rave Miller

Land Department

Rays Miller

RM/mm **Enclosures**

Davoil, Inc. has no objection to the proposed disposal well, SUBJECT TO OPERATOR'S

APPROVAL ONLY!!!

By:

Title: MANAGER, OIL & GAS OPERATIONS

	4 0 C 1002
SENDER: • Complete items and/or 2 for additional services. • Complete items and 4a & b. • Print your name and address on the reverse of this form so the return this card to you.	- Control of the last of the l
 Attach this form to the front of the mailpiece, or on the back does not permit. Write "Return Receipt Requested" on the mailpiece below the art The Return Receipt Fee will provide you the signature of the pers to and the date of delivery. 	icle number. 2. Restricted Delivery
3. Article Addressed to:	4a. Article Number
PHILLIPS PETROLEUM COMPANY	P 106 969 184
ATTN; MR. TROY RICHARD 4001 PENBROOK	4b. Service Type ☐ Registered ☐ Insured
ODESSA, TX 79762	XX Certified COD
	Express Mail X Return Receipt for Merchandise
'KEELY B #24 DISPOSAL WELL	7. Date of Delivery 5-25-73 (Jm)
5. Signature (Addressee)	8. Addressee's Address (Quy) If requested and fee is paid)
6. Signature (Agent)	
PS Form 3811, November 1990 ± U.S. GPO: 1991-28	7-086 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so the return this card to you. Attach this form to the front of the mailpiece, or on the back is does not permit. Write "Return Receipt Requested" on the mailpiece below the artient of the Return Receipt Fee will provide you the signature of the person to and the date of delivery.	f space 1. Addressee's Address
3. Article Addressed to: PHILLIPS PETROLEUM ATTN; MR. JACK PICKETTA 4001 PENBROOK ODESSA, TX 79762	4a Article Number P 106 967 509 4b. Service Type □ Registered □ Insured XX Certified □ COD □ Express Mail ☒ Return Receipt for Merchandise
KEELY B #24 DISPOSAL WELL	7. Date of Delivery 5. 25-93 gnu
5. Signature (Addressee) 6. Signature (Agent)	Addressee's Address Only if requested and fee is paid)
PS Form 3811 November 1990 +U.S. GPO: 1991-287	7-068 DOMESTIC RETURN RECEIPT

1

Receipt for Certified Mail

No Insurance Coverage Provided

Do not use for International Mail
(See Reverse)

	Sent to PHILLIPS PETROLE	UM CO.
	Street and No. 4001 PENBROOK	
	P.O., State and ZIP Code ODESSA, TX 7976	2
	Postage	\$ 1.44
	Certified Fee	1.00
	Special Delivery Lee	
ine 1991	Restricted Delivery Fee	
	Return Receipt Showing to Whom & Date Delivered	1.00
	Return Receipt Showing to Whom, Date, and Addressee's Address	
ر ر	TOTAL Postage & Fees	\$ 344
2 Form 3800 , June 1991	Postmark or Date	

P-106 967 509

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T _M
UNITED STATES

Receipt for Certified Mail

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

	(OCC HEVE/SE)				
	PHILLIPS PETROLEUM Street and No. 4001 PENBROOK				
i	P.O. State and ZIP Code ODESSA, TX 7976	2			
	Postage	\$ 1,44			
	Certified Fee	1.00			
	Special Delivery Fee				
	Restricted Delivery Fee				
1991	Return Receipt Showing to Whom & Date Delivered	1.00			
nue	Return Receipt Showing to Whom. Date, and Addresse's Address 1				
٥, ر	TOTAL Postage / V: 8 Fees	\$ 3.44			
PS Form 3800, June 1991	Postmark or Date	(S 3			

SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so the		l also wish to receive the following services (for an extra
return this card to you. • Attach this form to the front of the mailpiece, or on the back is does not permit.	space	fee): 1.
 Write "Return Receipt Requested" on the mailpiece below the arti The Return Receipt Fee will provide you the signature of the persoto and the date of delivery. 	n delivered	2. Restricted Delivery Consult postmaster for fee.
3. Article Addressed to: BUREAU OF LAND MANAGEMENT	4a. Article P 106	e Number 969 183
ATTN; MR. ARMANDO LOPEZ 1717 W. SECOND STREET ROSWELL, NM 88201	Service Servic	ered Insured ed COD
KEELY B #24 DISPOSAL WELL	7. Date o	of Delivery
5. Manature (Addressee) Aral Series		ssee's Address (Only if requeste e is paid)
6. Signature (Agent)		
PS Form 3811 , November 1990 ± U.S. GPO: 1991—287	-066 DOI	MESTIC RETURN RECEIP



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail (See Reverse)

	Sent to	
	BUREAU OF LAND M	ANAGEMENT
	Street and No. 1717 W. 2ND ST.	
	P.O., State and ZIP Code	. 1
	ROSWELL, NM 8820	,
	Tostage	\$ 1.44
	Certified Fee	00.1
	Special Delivery Fee	
	Restricted Delivery Fee	
991	Return Receipt Showing to Whom & Date Delivered	1.00
nue 1	Return Receipt Showing to Whom, Date, and Addressee's Address	
ر ا	TOTAL Postage & Fees	P-14-63-8
Form 3800 , June 1991	Postmark or Date	May ()