ENERGY, MINERALS AND NATURAL RESOURCES DE ARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

11-13-91

BRUCE KING GOVERNOR

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 DHC NSL NSP SWD WFX PMX

Gentlemen:

I have examined the application for the:

23-19-33 Energy Corp Weld No. Operator Lease & Unit

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and my recommendations are as follows:

Youns very truly,

Jerry Sexton

Supervisor, District 1

/ed

Dec 13 Swd-455

STATE OF NEW MEXICO

VIA FEDERAL EXPRESS

November 7, 1991

Mr. David Catanach Oil Conservation Division 310 Old Santa Fe Trail Santa Fe, New Mexico 87504

RE: Form C-108 Sapphire Federal SWD Well No. 1 Lea County, New Mexico

Dear Mr. Catanach:

Enclosed for your review you will find an original copy of Form C-108, Application for Authorization to Inject, and various other information to aid you in processing our request for a permit to inject salt water in the subject well.

Should you require additional information or if I can be of any further help, kindly advise.

Very truly yours,

MITCHELL ENERGY CORPORATION

Children Biger and an Grant Biger and an

George Mullen

GM/lgb

enc.

bcc: Joe Wanamaker/Mark Whitley - MND-4N Ed Earles - Midland George Tullos - Midland Susan Norman - OB-3 Central Records - MND-2N

STATE OF NEW MEXICO Energy and Hinerals Departhe	OIL CONSERVATION DIVISION POST OFFICE BOIL 2008 STATE LAND OFFICE BUILDING BANTA PE NEW MEXICO 87301	~ .	FORM C-108 Revised 7-1-81
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APPLICATION FOR AUTHORIZATION TO INJECT			

Ι.	Purpose: 9 Application	Secondary Recovery
II.	Operator:	Mitchell Energy Corporation
	Address:	400 W. Illinois, Ste. 1000 Midland, TX 79701
	Contact party:	James Blount Phone: 915-682-5396

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 no If yes, give the Division order number authorizing the project _

V. 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:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. 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
 - IT INJECTION IS FOR disposal purposes into a zone not productive of oil or gas at or within one wile 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.
- X. 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.
- 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:	James Blount	Title Engineer	
Signature:	James Blow	Detc: 10-22-91	

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

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

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, 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 parker 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

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

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

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

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

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

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III WELL DATA

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- A. (1) Sapphire Federal _{SWD} #1 Section 23, T19S, R33E 1600' FSL & 1750' FEL
 - (2) 8 5/8" 32#/ft K-55 @ 500' cmtd to surf. 12 1/4" hole. 5 1/2" 15.5# cmtd to surf. 7 7/8" hole.
 - (3) 2 7/8" 6.5#/ft J-55 fiberglass lined tbg set @ ±4250'.
 - (4) Guiberson Uni-VI pkr @ ±4250'.
- B. (1) Queen Formation.
 - (2) 4300-4820', Open hole.
 - (3) Drilled for injection.
 - (4) New well.
 - (5) Seven Rivers ±3600' in Texaco wells 1 mile north. Delaware ±7300' in Sapphire Fed #2 & #1.

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- VI. Area of Review Wells: Laguna Deep Unit Fed #4 Sapphire Fed #1 Sapphire Fed #2 Donahue #1 (See attached well bore schematics)
- VII. Proposed Operation: 1. Avg Rate - 1000 BPD Max Rate - 1500 BPD Avg Volume - 300 bbls Max Volume - 500 bbls
 - 2. Closed system
 - 3. Avg inj. pressure 1000 psi Max inj. pressure - 2000 psi
 - Water source Delaware (See attached compatability analysis)
 - 5. Disposal Zone Queen (See attached water analysis)
- VIII. Queen Sandstone, 480' thick, 4335-4815'. Deepest aquifer in 7-Rivers - Bottom @ 870'.
- IX. Propose to stimulate zone w/5,000 gal 15% HCl.
- X. Logs previously filed on Sapphire Fed Unit #1.
- XI. Fresh water sample from well in Sec 18, T19S, R33E is attached.
- XII. I hereby affirm that there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

James Blow



DLT 7/2/91

-

PRESENT





۲.2 4 UNION OFCAC OIL DEEP UNIT FEDERAL #4 Sec. Anna Star 1 LAGKNA SEC 26 T195 R33E 660' FNL + 1980' FEL DRILLED : 10/16/29 COMP: 3/10/90 . ; 1483' CMTD wy 2600 5% 2 2400 SX '30°. CMTD ľ 1 : 1850 124 -234 - 274 WELL NAME: UNOCAL LAGUNATDEEP --a din 计机械系统 (*** UNIT FEDERAL WELL #4 660' FNL & 1980' FEL, LOCATION: SEC. 26, T19S, R33E SPUD DATE: 10-16-89 1 COMPL. DATE: 3-10-90 TOTAL DEPTH: 13,560' STATUS/POOL: PRODUCING, @ 13.078' TBG E. GEM-MORROW POOL 1:: **;** ÷., 1.1 PERFOI 13,194- 13,326 13,414-13,424' 512 @ 13,560' CMTD ()w/2420 sx 558 TD: 13,560' 7/25/91 · .. 1BTD : 13,540'

•		MARTIN WA	TER LABORAT	DRIES, INC.		
P.O. Box	1468 Phone 943-3234 (Monahans, Texas 79756		T OF WATER ANAL	YSES	9 W. Indiana Phon Midland, Texas 7 79185 (Page	e 683-4521 9701 3)
TO:	Mr. Ed Earles		SAMPI	RATORY NO	7-11-91	
400	W. Illinois, Suit	<u>e 1000, Midla</u>	nd, TX RESUL	LTS REPORTED	7-16-91	
		API WAT	ER ANALYSIS REP	ORT FORM		
	Company Mitchell E	nergy Corpora	tion	Sample No.	Date Sampled	
	Field Sapphire	Legal I	Description	County or Pa		_
	Lease or Unit Sapphire	Well #2	Depth	Formation Delaware	Water, B/D	-
	Type of Water (Produc Produced	ed, Supply, etc.)	Sampling Point		Sampled By	-
DISSOLV CATIONS	ED SOLIDS		<u></u>	OTHER PROPER	TIES	5.62
Calcium, N Calcium, (Magnesium Barium, B	$\begin{array}{c} \text{is (calc.)} & 71,47\\ \text{Ca} & 32,600\\ \text{n, Mg} & 4,37 \end{array}$	1,630.0		pH Specific Gravity, 60 Resistivity (ohm-m Total Hardnes	eters) 77° F	<u>1.1874</u> <u>0.0</u> 47 <u>99,500</u>
ANIONS				WATER	PATTERNS — me,	/1
Chloride, (Sulfate, S(Carbonate, Bicarbonat	04 <u>358</u> , CO ₃ <u>(</u>	$\frac{7.4}{0.0}$	X 10		.OGARITHMIC	нн ннн нсо₅ X нн ннн ва₄ X со₅ X
Total Disso	olved Solids (calc.) <u>289,397</u>			Comfii + <mark>milii + milii +</mark>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nn + + m HCOB
Iron, Fe (t Sulfide, as	oul)	0.8 1.1 0.0		Ma <mark>indu (1999) (1999</mark>	<u>minitininininininini minitinininininininini minitinininininininininini</u>	

REMARKS & RECOMMENDATIONS: The objective herein is to evaluate the compatibility of the water from Quail #1 with the waters from Sapphire #1 and #2. In studying these results, we have identified no evidence of any incompatibility between these waters and therefore see no reason why they cannot be effectively mixed with no resulting detrimental effects to be expected.

22

Service States

And a Manual Lands and

Waylan C. Martin, M.A.

MARTIN WATER LABORATORIES, INC.

P.O. Box 1468 Phone 943-3234 or 563-1040 RESULT OF WATER ANALYSES

709 W. Indiana Phone 683-4621 Midland, Texas 79701 79185

To: Mr.	Ed Earles	 		
	Illinois,	1000,	Midland,	ΤX

7-11-91 _ SAMPLE RECEIVED __ 7-16-91 _ RESULTS REPORTED.

LABORATORY NO. _

API WATER ANALYSIS REPORT FORM

Compan	^{ny} Mitchel	ll Enei	rgy Corpora	tion	Sam	ple No.	Date	Sampled
Field	Quail			Description		County or P Lo	arish 2a	State NM
Lease o	or Unit Quail	57.	Well #1	Depth	F	ormation Queen	W	ter, B/D
Туре с	of Water (P Produce		Supply, etc.)	Sampling Point		+	Sa	mpled By

DISSOLVED SOLIDS

CATIONS Sodium, Na (calc.) Calcium, Ca Magnesium, Mg Barium, Ba	<i>mg/l</i> 79,345 21,600 4,982	$\frac{ms/l}{3,449.8}$ $\frac{1,080.0}{410.0}$
ANIONS Chloride, Cl Sulfate, SO4 Carbonate, CO3 Bicarbonate, HCO3	$ \begin{array}{r} 174,707 \\ $	$ \frac{4,926.7}{9.9} \\ \underline{0.0} \\ \overline{3.1} $
Total Dissolved Solids	(calc.) 281,298	

Iron, Fe (total)	27.2	1.1
Sulfide, as H ₂ S	0.0	

REMARKS & RECOMMENDATIONS:

OTHER PROPERTIES

рĦ	5.19
Specific Gravity, 60/60 F.	1.1808
Resistivity (ohm-meters) 77° F.	0.047
Total Hardness, as CaCO3	74,500

WATER PATTERNS - me/l



Martin Water Laboratories, Inc.

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040

• •

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521 - ,

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	RESULT OF WAT	ER ANALYSES		PHONE 683-45
		LABORATORY NO.	89112	
o: Mr. Ed Earles		SAMPLE DECENT	8-1-91	
400 W. Illinois, Suite 10	00, Midland, TX	_ RESULTS REPORT	ED 8-6-91	
OMPANY Mitchell Energ			lanch	
IELD OR POOL	East Ge	m		
ECTION BLOCK SURVEY _	COUNTY.	Lea	STATENM	
OURCE OF SAMPLE AND DATE TAKE				
NO. 1 Raw water - taken	from water supply	well. /-31-91		
NO. 2		· <u>····································</u>		
NO. 3				
NO. 4				
NO. 4				
	EMICAL AND PHYSIC			
	NO. 1		NO. 3	NO. 4
Specific Gravity at 60° F.	1.003			
pH When Sampled				
pH When Received	7	.97		
Bicarbonate as HCO3	359			
Supersaturation as CaCO3				1
Undersaturation as CaCO3				
Total Hardness as CaCO3	63			
Calcium as Ca	12			
Magnesium as Mg	8			
Sodium and/or Potassium	380			
Sulfate as SO4	394			
Chloride as C1 Iron as Fe	131	.08		
Barium as Ba		.00		
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	1,283			
Temperature *F.				1
Carbon Dioxide, Calculated		Sec. Sec.		
Dissolved Oxygen,				
Hydrogen Sulfide	0	.0		
Resistivity, ohms/m at 77° F.	6	.11		
Suspended Qil				
Filtrable Solids as mg/1				
Volume Filtered, ml				
**				
		iana Bas hiss	<u> </u>	_ _
Additional Determinations And Remarks Th	Results Reported As Mill		vo to ha to	and serve
to the best of his knowledg		LITTES THE ADO	ve lo pe tru	and corre
the boot of his knowledg	- and petters			
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		By Clan		

Ronnie D. Tucker, B.S.

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October 22, 1991

Union Oil Co of California 1004 N. Big Spring Midland, TX 79701

Mark Smith P. O. Box 1296 Lovington, NM 88260

> RE: Application for Authorization to Inject

÷.

Dear Sirs:

Enclosed is a copy of the Application for Injection for the Sapphire Fed #1-A to be located 1600' FSL and 1750' FEL in Section 23, T19S, R33E. We are proposing to drill the well for salt water disposal. The injection formation will be the Queen at 4300-4900'.

If you have any objections or request for hearing with the Oil Conservation Division please contact within 15 days of receipt of this notice.

If you have any questions about this matter, please call Jim Blount at (915) 682-5396.

Sincerely,

E. R. Earles Dist Drlg Mgr

JSB/tl

3 and 4.	services are desired, and complete item
Put your address in the "RETURN TO" Space on the reverse	alate many second second
the date of delivery For additional forset of the will provide	you the riame of the person delivered to and
and check box(es) for additional service(s) requested.	s are available. Consult postmaster for fee
1. Show to whom delivered, date, and addressee's ad (Extra charge)	
3. Article Addressed to:	(Extra charge) 4. Article Number
Union Oil Co of California	P 355 201 808
· · · · · · · · · · · · · · · · · · ·	
1004 N. Big Spring	Type of Service:
Widland My 20201	Registered Insured
Midland, TX 79701	Evolution Receipt
	for Merchandise
	Always oblighting and the same of addressee ,
5. Signature - Addressee	
x	18, Addresse's Address (ONLY if requested and fee paid)
5. Signature - Agent	
Junda J. William	
7. Date of Delivery	· · ·
(0.72 G)	
10-2711	• • •
Form" 3811, Apr. 1989 +US.Q.P.O. 1908-238-815	DOMESTIC RETURN RECEN
• SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the "RETURN TO" Space on the reverse	services are desired, and complete he
Fut your address in the "RETURN TO" Space on the reverae from being returned to you. The return receipt fee will provid the date of delivery. For additional fees the following service and chard being For additional fees the following service	a side. Failure to do this will prevent this co a you the name of the parton delivered to a
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AFFIDAVIT OF PUBLICATION

State of New Mexico. County of Lea.

I<u>Kathi Be</u>arden

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

____Oct. 25 , 19.91 and ending with the issue dated

25 . 19<u>91</u> lude

General Manager Sworn and subscribed to before

ÓB me this day of otary Public - \mathbf{b} My Commission expires_

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.

Sealt -

, 19<u>95</u>

LEGAL NOTICE October 35, 1991 NOTICE OF INTENTION TO INJECT Mitchell Endry Corp., 40 West Illinois, Ske. 1000, Middang, Jakes 79701, hereby giver holice of intention to drill the Sapphire Fee fi-A socated 1400, Fis. & 1750' FEL, Sec. 23, T1/5, R33E, for a SWD well, The disposal and will be the disposal and that from the of 1500 EPD. Interview of 2000 piel and that from the of 1500 EPD. Interview or requests for solaring with the Off Conservation Division, P.O. BOR, bench