

P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

December 19, 1997



New Mexico Oil Conservation Division Attention: Mr. Ben Stone P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Dear Mr. Stone:

Marathon Oil Company respectfully requests that the application for injection on the Rocky Hills SWD #1 be amended to change the size of casing and type of tubing per our phone conversation of December 16, 1997. Attached you will find a corrected wellbore diagram. We would like to change the proposed casing size from 7" to 7-5/8" and the tubing from 5" flush joint tubing to 5" LT&C tubing.

This amendment is being requested due to a problem with internally plastic coating flush joint tubing and to maximize the injection capacity of this disposal well. If you have any questions or need further information, please call me at 915/687-8449.

Sincerely,

Ginny Larke

Ginny Larke Engineer Technician

PROPOSED COMPLETION



CHECKLIST for ADMINIST	RATIVE INJECTION APPLICATIONS
Operator: MARATHON Cic Co	Well: ROCKY HILLS SWD No.1
Contact: Jen Schoffalan Title: AREA	TEAM MGR - Phone: 415 682 1620
DATE IN <u>1259</u> RELEASE D	DATE 12-22-97 DATE OUT 2.11.98
Proposed Injection Application is for:	WATERFLOOD Expansion Initial
Original Order: R	Secondary Recovery Pressure Maintenance
SENSITIVE AREAS	SALT WATER DISPOSAL Commercial Well
WIPP Capitan Reef	
Data is complete for proposed well(s)? Add	itional Data Req'd
AREA of REVIEW WELLS	
$\underline{\mathbb{C}}$ Total # of AOR	# of Plugged Wells
Tabulation Complete	Schematics of P & A's
Cement Tops Adequate	AOR Repair Required
INJECTION FORMATION	í
Injection Formation(s) DEVONIA	Compatible Analysis 4/5
Source of Water or Injectate AREA PRODUCT	ION - UPPER PEAUN + MORRON
PROOF of NOTICE	
<i>درا</i> Copy of Legal Notice	City Information Printed Correctly
<u>465</u> Correct Operators	4/3 Copies of Certified Mail Receipts
<u>M</u> ○ Objection Received	Set to HearingDate
NOTES:	

COMMUNICATION WITH CONTACT PERSON:						
1st Contact:	X_ Telephoned	Letter 1.15 98 Date	Nature of Discussion VFR. BAC - SWO 6.92			
2nd Contact:	Telephoned	LetterDate	Nature of Discussion			
3rd Contact:	Telephoned	LetterDate	Nature of Discussion			

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? $\frac{1}{2}$

ENER .	IERGY AND MINERALS DEPARTHENT PORTO	NEW MELICO #1501	Revised 1-1-81 12/22/97
APPLIC	ICATION FOR AUTHORIZATION TO INJECT	691	
E G	Purpose: Secondary Recovery Pre	ssure Maintenance XX ve approval? X yes	Disposal 🗌 Storage
<u> </u>	Uperator: <u>Marathon Oil Company</u>	У	
DEC	C _ 5 9997 s: P. O. Box 552 M:	idland, Texas 797	0.2
•	Contact party: Ben Schoffmann	Phone: 9	15/682-1626
nii a	ANANONDRASION Complete the data required on proposed for injection. Addi	the reverse side of th tional sheets may be at	is form for each well tached if necessary.
IV.	 Is this an expansion of an existing projection If yes, give the Division order number au 	ct? yes X no thorizing the project _	······································
۷.	Attach a map that identifies all wells and injection well with a one-half mile radius well. This circle identifies the well's a	d leases within two mil s circle drawn around e area of review.	es of any proposed ach proposed injection
• VI.	. Attach a tabulation of data on all wells of penetrate the proposed injection zone. So well's type, construction, date drilled, 2 a schematic of any plugged well illustrate	of public record within uch data shall include location, depth, record ing all plugging detail	the area of review which a description of each of completion, and •
VII.	. Attach data on the proposed operation, ind	cluding:	
	 Proposed average and maximum daily Whether the system is open or close Proposed average and maximum inject Sources and an appropriate analysis the receiving formation if other If injection is for disposal purpor at or within one mile of the protect the disposal zone formation water literature, studies, nearby well 	y rate and volume of fl sed; ction pressure; is of injection fluid and than reinjected produ- poes into a zone not pro- posed well, attach a ci er (may be measured or ls, etc.).	uids to be injected; nd compatibility with ced water; and oductive of oil or gas hemical analysis of inferred from existing
•VIII.	Attach appropriate geological data on the detail, geological name, thickness, and de bottom of all underground sources of drink total dissolved solids concentrations of l injection zone as well as any such source injection interval.	injection zone includic pth. Give the geologic ing water (aquifers con 0,000 mg/l or less) ove known to be immediately	ng appropriate lithologic r name, and depth to ntaining waters with erlying the proposed y underlying the -,
IX.	. Describe the proposed stimulation program,	if any.	
• x.	. Attach appropriate logging and test data o with the Division they need not be resubmi	n the well. (If well] tted.)	logs have been filed
• XI.	. Attach a chemical analysis of fresh water avai ¹ able and producing) within one mile o location of wells and dates samples were t	from two or more fresh if any injection or disp aken.	water wells (if wosal well showing
XII.	Applicants for disposal wells must make an examined available geologic and engineerin or any other hydrologic connection between source of drinking water.	affirmative statement g data and find no evic the disposal zone and	that they have lence of open faults any underground
XIII.	. Applicants must complete the "Proof of Not	ice" section on the rev	erse side of this form.
XIV.	Certification		
	I hereby certify that the information subm to the best of my knowledge and belief.	itted with this applica	tion is true and correct
	NameBen Schoffmann	Title Indian	Basin Asset Team
	Signature: Sen Schol	Oate:	er 12/1/97

of the 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:
 - (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, howe 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. PLOOF OF NOTICE

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

Whe e an application is subject to administrative approval, a proof of publication must be ubmitted. Such proof shall consist of a copy of the legal advertisement which was pub ished in the county in which the well is located. The contents of such advertisement mus 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.

Rocky Hills Well No. 1 Proposed Injection Well Attachments to C-108

<u>Part III</u>

Well Data

See attached proposed completion for Rocky Hills Well No. 1 SWD. Also attached is a copy of the Application for Permit to Drill (Form 3160-3) for this well.

<u>Part V</u>

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.

See attached map.

<u>Part VI</u>

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 details.

There are no wells within the "area of review" which penetrate the proposed disposal interval.

<u>Part VII</u>

Attach data on proposed operation

See attachment.

<u>Part VIII</u>

See attachment.

Part IX

Describe the proposed stimulation program, if any.

The proposed injection well will be completed open hole. The proposed open hole interval will be stimulated using 15% HCl acid (10,000 gallons).

Part X

Attach appropriate logging and test data on the well.

The appropriate forms, along with an inclination survey and logs will be filed on this well when it is completed.

Part 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.

See attachment.

Part 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.

Marathon Oil Company, as Operator of the proposed injection well, has reviewed and examined available geologic and engineering data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Schoffmann

Part XIII

Proof of Notice

See attachments.

Rocky Hills Well No. 1 Proposed Injection Well Attachments to C-108 (Part III)

Proposed Completion for:

Rocky Hills No. 1 SWD UL "O", 185' FSL, 1537' FEL Sec. 19, T-21-S, R-24-E Eddy County, New Mexico

17-1/2" hole to 40'. Set 13-3/8" casing cemented to surface w/Redi-mix.

12-1/4" hole to 1,200'. Set 9-5/8" casing cemented to surface w/800 sacks.

8-3/4" hole to 10,000'. Set 7" casing cemented w/1,275 sacks circulated to surface.

6-1/8" open hole 10,000' - 10,800'.

5" flush joint, PCID tubing set at 10,001'

Baker Lok-set packer set @ 10,000'

Proposed injection zone: Devonian

Injection Interval: 10,000' - 10,800' open hole

This well will be drilled for the purpose of injection/disposal of produced water from offsetting leases.

The next higher oil or gas zone is the Morrow at a depth of 9,500'.

There are no zones lower than the Devonian that have ever been produced in this area.

PROPOSED COMPLETION



Form 3160-3 (July 1992)	UNIT DEPARTMEN BUREAU OF	ED STATE	S INTERIOR MENT	UBMIT IN TRIPLIC (Other instructions reverse side)	ATE•	FORM APPE OMB NO. 1 Expires: Febr 3. LLASE DESIGNATION AS NM - 02 3 84	ROVED 004-0136 mry 28, 1995 NO SERIAL NO. 436
					1	6. IF INDIAN, ALLOTTEE O	R TRIBE NAME
				DEEFER		7. UNIT AGREEMENT NAM N/A	E
OIL WELL 2. NAME OF OPERATOR	TYPE OF WELL OIL GAS WELL OTHER DISPOSAL SINGLE X MULTIPLE WELL OTHER DISPOSAL						
Marathon 011 Com	IDANY NE NO.			,		9. API WELL NO.	<u></u>
P.O. BOX 552 Mi 4. LOCATION OF WELL (Reg At surface	dland, TX 79702 port location clearly and in accord	ance with any State ro	quirements. *)	915/682	• 1626	10. FIELD AND POOL, OR V	VILDCAT
185' FSL & 1537' At proposed prod. zone	FEL					11. SEC., L. R., M., OR BLI AND SURVEY OR AREA	<u>κ</u>
185' FSL & 1537'	FEL					SEC 19. T-21-S.	R-24-E
10 MTLES USU OF		IN OR POST OFFICE				FDDY	ID. STATE
10 FILLS HSH OF 13. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE LE (Also to nearest drig, un	SED* NE. FT. 11 line, 11 any) 185'		16. NO. OF ACRES IN 1	JEASE I	I NO. OF A	NCRES ASSIGNED WELL N/A	.1
IN. DISTANCE FROM PROPO	SED LOCATION.		19. PROPOSED DEPTH	21	. ROTARY	OR CABLE TOOLS	
OR APPLIED FOR, ON TH	ILLING, COMPLETED, IIS LEASE, FT.		10,800		ROTA	RY	
21. ELEVATIONS (Show whi 3780' G.L.	ether DF,RT, GR, etc.)					22. APPROX. DATE WOR ASAP	K WILL START*
23.		PROPOSED CASING	AND CEMENTING	ROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	T SETTR	IG DEPTH		QUANTITY OF CEM	ENT
17 1/2"	13 3/8"	48		10.	CONDUC	TOR, REDI-MIX TO	SURFACE
12 1/4"	9 5/8*	36	12	200.	800 - CIRCULATE		
8 3/4"	7"	23, 26	10	.000	1275'	- TOC @ +/- 1000	, ·
6 1/8"	Ι	1	OH TO	10.800.			

WELL IS A PROPOSED DEVONIAN SALT WATER DISPOSAL.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. signed Walton J. Junar	ITTLE DRILLING SUPERINTENDENT	DATE 11/17/97
(This space for Federal br State office use)		
PERMIT NO.		

Application approval does not warrant or certify that the applicant holds legal or equivable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY __

*See Instructions On Reverse Side

___ DATE _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



R 23 E

R 24 E

MARATHON OIL COMPANY MID-CONTINENT REGION

INDIAN BASIN FIELD AREA

EDDY COUNTY, NEW MEXICO

ATTACHMENT TO FORM C-108 ROCKY HILLS NO.1SWD PROPOSED INJECTION WELL 2 MILES, I MILE AND 1/2 MILE RADIUS OF PROPOSED INJECTION WELL

Rocky Hills Well No. 1 Proposed Injection Well Attachment to C-108 (Part VII)

Proposed Operations

1. Proposed average and maximum daily rate and volume of fluids to be injected.

Fluid: Produced Water

Average Rate: 20,000 BWPD

Maximum Rate: 30,000 BWPD

2. Whether the system is open or closed.

The proposed disposal system will be a closed system. Produced water will be gathered to a central location into closed top fiberglass tanks, with thief hatches. These tanks will be hooked up to a Vapor Recovery Unit. The water will then be pumped to the proposed injection well.

3. Proposed average and maximum injection pressure.

Average Pressure: 1250 psi

Maximum Pressure: 2020 psi

4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water.

The source of the injection fluid will be produced water from offsetting leases.

Formations: Upper Penn Morrow

See attached water analysis for each of the above zones.

Rocky Hills Well No. 1 Proposed Injection Well Attachment to C-108 (Part VII)

Proposed Operations Continued

5. If injection is for disposal purpose 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.

Marathon Oil Company ran a DST on North Indian Basin Well No. 1 (Section 9, T-21-S, R-23-E, Eddy County New Mexico) in 1963. The DST tested the interval 10,009 ft to 10,100 ft. Based on the DST, the following analysis was reported:

Specific Gravity	1.109
рН	6.8
Resistivity	.285 @ 94° F
Chlorides (Cl)	11,000
Sulfates (SO₄)	1,500
Alkalinity (HCO₃)	610
Calcium (Ca)	1,080
Magnesium (Mg)	775
Iron (Fe)	20
Sodium (Na)	5,359
Sulfides (H₂S)	Negligible

Odessa, Texas 79765-8538 561-5579

Morrow

Water Analysis

Company.... Nalco/Exxon Energy ChemicalsWell # BONE FLATS 12-5Sample Temp... 70.0Lease..... MARATHONDate Sampled.. 10/10/1997Location... Sec. 12, T-21-S, R-23-ESampled by.... Mark HermannDate Run... 10/13/1997Employee # ... 27-011Lab Ref #.. 97-OCT-N00768Analyzed by... DANIEL

Eddy County, NM Dissolved Gasses

		1	Mg/L	Eq. W	It.	MEq/L
Hydrogen Sulfide	(H26)		0.00	1 16.	00	6.00
Carbon Dioxide	(CO2)	an Shinin a shinin ka sana ka ka shinin ka shinin ka ka shinin ka shinin ka shinin ka shinin ka shinin ka shini	0.00) 22.	00	0.00
Dissovled Oxygen	(02)		0.00	8.	00	D.00

Cations

Calcium	(Ca++)	1	., [.]	125	. 60	20.	10	56.00
Magn es ium	(Mg++)			170	. 80	12.	20	14.00
Sodium	(Na+)	22	2,	472	. 93	23.	00	977.08
Barium	(Ba++)			٠.	. 50	68,	70	0.00
Manganese	(Mn++)			0	.00	27.	50	0.00

Anions

Hydroxyl	(OH-)	e.	.00	0.00
Carbonate	(CO3=)	0.	.00 30.00	0.00
Bicarbonate	(HCO3-)	268.	84 61,10) 4.40
Sulfate	(SO4=)	9.	00 48.80	0.18
Chloride	(C1-)	37,040.	70 35.50) 1,043.40

Total Iron(Fe)16.Total Dissolved Solids61,104.Total Hardness As CaCO33,500.Conductivity MICROMHOS/CM95.000	75 18.60 62 00	0. 90
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рH	6.650			Specific	Gravit	Y 60/60) F.	1.042
CaSO4	Solubility (9 8	0 F.	68.63	MEq/L,	CaSO4	scale	not is, likely

CaCO3	Scale	Index
70.0		-0.706
80.0		-0.586
90.0		-0.386
100.0		-0.386
110.0		-0.126
120.0		-0.126
130.0		0.234
140.0		0.234
150.0		0.564

Nalco/Exxon Energy Chemicals

MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Water Analysis

Upper Penn

Company.... Nalco/Exxon Energy Chemicals Well # IHSC #7 Lease..... MARATHON Location... Sec. 36, T-20-S, R-24-E Date Run... 10/13/1997 Lab Ref #.. 97-OCT-N00769

Sample Temp	70.0
Date Sampled	10/13/1997
Sampled by	Mark Hermann
Employee #	27-011
Analyzed by	DANIEL

Eddy County, NM Dissolved Gasses

	Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide (H2S)	340.0	0 16.00	21.25
Carbon Dioxide (CO2)	0.0	0 22.00	0.00
Dissovled Oxygen (OZ)	0.0	0 8.00	0.00

Cations

Calcium	(Ca++)	341	.70	0 20).1	.0	17.	00
Magnesium	(Mg++)	85	. 41	9 1.	1.2	đ	7.	00
Sodium	(Na+) 3,	714	.25	5 23	3.0	0	161.	49
Barium	(Ba++)	<	. 54	0 61	1. 1	0	G,	00
Manganese	(Mn++)	0	.00	0 2'	7.5	50	0.	00

Anions

Hydrox Carbor Bicart Sulfat Chlori	tyl nate Jonate Je ide	(OH-) (CO3=) (HCO3-) (SO4=) (C1+)		1, 4,	0.0 12.0 928.7 750.0 004.4) 17) 30 2 61) 48) 35	.00 .00 .10 .80 .50	0. 0. 15. 35. 112.	.00 40 20 86
Total Total Total Conduc	Iron Dissolved Sol Hardness As C ctivity MICROM	(Fe) Lids CaCO3 MHOS/CM		11, 1, 13,	0.4(176.8 [°] 200.0(500	0 18. 7 0	.60	0.	. 02
рH	7.600	Specific	Gravit	A e0/e0	F.	1.008			
CaSO4	Solubility @	80 F. 40.20	MEq/L,	CaSO4	scale	ish lil	cely		
CaCO3 70.0 80.0 90.0 100.0 110.0	Scale Index 0.930 1.060 1.280 1.280 1.520					·			

 120.0
 1.520

 130.0
 1.790

140.01.790150.02.020

Nalco/Exxon Energy Chemicals

Proposed Injection Well Attachment to C-108 (Part VIII)

Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the goelogic name and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solid 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.

Injection Zone

Geological Name: Devonian

Lithology: Vuggy, fractured dolomite, 3-14% porosity

Thickness: ± 700 feet

Depth: 10,250 feet

Drinking Water - Overlying

Geological Name: Grayburg Depth to Bottom: 650'

Above data is based on Geological data obtained from Ken Fresquez, Geologist, of the State Engineer's Office in Roswell, NM

Drinking Water - Underlying

NONE

MITCHELL ANALYTICAL LABORATORY 2638 Faudree

Odessa, Texas 79765-8538 561-5579

Water Analysis

Company.... Nalco/Exxon Energy Chemicals Sample Temp... Well # FRESH WATER STATION Date Sampled.. 05/06/1997 Lease..... MARATHON Location... Sec. 29, T-21-S, R-24-E Sampled by.... Dan Sweatt Date Run... 05/07/1997 Employee # ... Lab Ref #.. 97-MAY-N00407 Analyzed by... DANIEL

EDDY COUNTY, NM

Dissolved Gasses

		g/ь	. E C	I. 1	WC.	WRd\T
Hydrogen Sulfide	(H2S)	0	.00	16	.00	0.00
Carbon Dioxide	(CO2)	0	.00	22	.00	0.00
Dissovled Oxygen	(02)	0	.00	8	.00	0.00

70.0

-- /-

Cations

Calcium	(Ca++)	100	.50	20.	.10	5.00
Magnesium	(Mg++)	34	.16	12.	20	2.80
Sodium	(Na+)	196	.61	23.	.00	8.55
Barium	(Ba++)	<	.50	68.	.70	0.00
Manganese	(Mn++)	0	.00	27.	.50	0.00

Anions

Hydrox Carbor Bicart Sulfat Chlori	cyl nate ponate ce de	(OH-) (CO3=) (HCO3-) (SO4=) (C1-)			20	0.00 0.00 58.84 50.00 24.33	17.0 30.0 61.1 48.8 35.5	0 0 0 0	0.00 0.00 4.40 11.27 0.69
Total Total Total Conduc	Iron Dissolved So Hardness As ctivity MICRO	(Fe) lids CaCO3 MOHS/CM		•	1,1 [°] 39 1,20	0.14 74.58 90.00	18.6	0	0.01
рH	7.220	Sp	ecific	Gravity	7 60/60 I	F. 1	.001		•
CaSO4	Solubility @	80 F.	45.89	MEq/L,	CaSO4 s	cale i	s unli	.kely	
CaCO3	Scale Index								

Lacus	Scare	THUCK
70.0		0.264
80.0		0.304
90.0		0.544
100.0		0.544
110.0		0.664
120.0		0.664
130.0		0.864
140.0		0.864
150.0		0.984

*** (

Nalco/Exxon Fnergy Chemicals

Production United States



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

December 1, 1997

Devon Energy Corp. 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102

Offset Operator Rocky Hills Well No. 1 SWD Section 19, T-21-S, R-24-E Eddy County, New Mexico

Re: Application for Authorization to Inject (C-108)

Gentlemen:

Marathon Oil Company is in the process of making application to the State of New Mexico, Energy and Minerals Department, Oil Conservation Division for authorization to dispose of produced water into a proposed well, the Rocky Hills Well No. 1. In accordance with the application process, Marathon is submitting the application to offset operators in the "area of review" of the proposed injection well.

Sincerely,

a. Sen Scho

Á. Ben Schoffmann Indian Basin Asset Team Manager

Enclosures



188 917 790

Affidavit of Publication

State of New Mexico, County of Eddy, ss.

Amy McKay

being first duly sworn, on oath says:

That she is Business Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

November 8	, 19 97
November 15	, 19 <u>97</u>
November 22	, 19 <u>97</u>
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	,19
······································	,19

That the cost of publication is 56.75, and that payment thereof has been made and will be assessed as court costs.

Subscribed and sworn to before me this

dayof

My commission expires_____

Notary Public

8/1/98

November 8, 15, 22, 1997

PROPOSED INJECTION WELL

Marathon Oil Company, as operator, proposes to drill and complete a well for sait water disposal service. The location of the well is 185' FSL and 1,537' FEL, Section 19, Township 21 South, Range 24 East, Eddy County, New Mexico. The zone to be injected into is the Devonian from 10,100 ft. to 10,700 ft. with a maximum expected injection rate of 30,000 BWPD and a maximum expected injection pressure of 2,020 psig. Any interested party with an objection or request of hearing should notify the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days of this notice. Any questions should be directed to Ben Schoffmann of Marathon Oil Company at P.O. Box 552, Midiand, Texas 79702, or telephone (915)682-1626.