of the earlier submittal.

CIL CONSERVATION C VISION

/ JRM (2-1)
Revised / - 1-81

	SAMIA ME NEW MELICO 87501
APPLIC	ATION FOR AUTHORIZATION TO INJECT
. 1	Purpose: Secondary Recovery Pressure Naintenance Diceasal Storage Application qualifies for administrative approvat? X yes no
11.	Operator: Marathon Oil Company (1970) Marathon Oil Company
	Address: P.O. Box 552, Midland, TX 79702
	Contact party: Ginny Larke Phone: (915)-687-8321
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
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.
٧1.	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.
v::.	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 lithologication, 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.
IΥ.	Describe the proposed stimulation program, if any.
χ.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
¥I.	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: Ginny Larke Title Engineer Technician
	Signature: Ling Larks Date: 3-12-01

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, wodel, 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 no models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- 8. 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.
 - 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 weil 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 croof 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.

Indian Hills Unit Well No. 30 SWD Proposed Injection Well Attachments to Form C-108

Part III

Well Data

Proposed Completion for the Indian Hills Unit No. 30 SWD

Surface Location: 1494' FSL, 688' FWL

Bottom Hole Location: 1050' FNL, 1930' FWL. Sec. 20, T-21-S, R-24-E, Eddy County, New Mexico

17.5" hole to 1200'. Set 13-3/8" casing cemented to surface w/1250 sacks. 12.25" hole to 9,500'. Set 9-5/8" casing cemented to surface w/2610 sacks. 8.5" hole to 11,000'. Set 7" liner from 9,000'-11,000' cemented w/300 sacks.

7", 26#, L-80 tubing from surface to 9,000'.

7" Monobore Packer set @ 9,000'.

Proposed injection zone: Devonian

Injection Interval: 10,595' - 11,792' open hole (measured depth)

10,250' - 11,401' open hole (true vertical depth)

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 9580'. There are no zones lower than the Devonian that have ever been produced in this area.

Attached is a copy of the Application for Permit to Drill (Form 3160-3) for this well. It was originally permitted to be drilled to the Morrow zone. A Sundry Notice (Form 3160-5) has been submitted with the casing program and zone changes shown.

Part 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.

See attached map.

Part 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 details.

There are no wells in the area of review that penetrate the proposed injection zone. There is one well, just outside the area of review, the Rocky Hills Well No. 2 SWD, that is completed in the Devonian zone. This well was originally drilled as a disposal well and was completed on June 23, 1999. TD is 11,307'. Disposal Zone is Devonian, 10,343' - 11,307' Open Hole.

See attached well completion report and wellbore diagram for details on this well.

Part VII

Attach data on proposed operation

Fluid to be injected will be produced water from the Upper Penn and Morrow formations. Average Rate is expected to be 20,000 BWPD. Maximum rate will be 60,000 BWPD.

The proposed 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.

Average injection pressure will be 400 psi. Maximum pressure will be 2050 psi per OCD rules.

If injection well 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.)

Marathon Oil Company ran a drill stem test (DST) on North Indian Basin Unit 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 (CI)	11,000
Sulfates (SO ₄)	1,500
Alkalinity (HCO ₃)	610
Calcium (Ca)	1,080
Magnesium (Mg)	775
Iron (Fe)	20
Sodium (Na)	5,359
Sulfides (H ₂ S)	Negligible

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: Dolomite

Thickness: ± 1,000 feet

Depth: 10,595 feet (measured depth), 10,250 feet (true vertical depth) to top of Devonian

Drinking Water - Overlying

Geological Name: Grayburg

Depth to Bottom: ±181' to 217' (Section 22 & 23 – 9 to 17 ppm, Cond 627-722 M-Mhos).

Aquifer w/dissolved solids concentration less than 10,000 mg/L:

Geological Name: Paddock

Depth to bottom: ± 2,800' (Section 23 - 3600 ppm, 1.009 specific gravity)

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

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% CCA sour acid (50,000 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 attachments.

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.

K. W. Tatarzyn

Indian Basin Asset Team Manager

Part XIII

Proof of Notice

See attachments.

13 3 8" K-55 Set at 1200°, No Circ. Cement W/ 905 sks. 7", L-80 Tubing Surface to 9.000 MONOBORE Packer set a 9000° Intermediate Casing 9 5/8", 40# & 53.5#,K-55 & L-80 Csg. Set at 9500', Cmt. w/2610 sks. Liner 7" L-80 Csg. From 9,000° to 11,000°. Cmt. w 300 sks. Open Hole Section: From: 10,595' (MD), 10,250' (TVD) To: 11.792 (MD), 11,401 (TVD) TD: 11.792 (MD)

11.401 (TVD)

PROPOSED WELL BORE DIAGRAM

Indian Hills Unit No. 30 SWD

Date: 3/21/01

SHL: UL "L", 1494' FSL, 688' FWL BHL: UL "C", 1950' FNL, 1930' FWL

Sec. 20, T-21-S, R-24-E

Eddy Co., N.M.

Lease No.: LC-064391-B

API No.: Not Available at this time

10m. 1150-2 TIME 19961

CONDITIONS OF APPROVAL, IF ANY

APPROVED BY -

UNITED STATES

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136

Expires: February 28, 1995

		OF THE I	MIEKI	OR	1	5 LEASE DESIGNATION AND SERIAL	NO
	BUREAU OF L	AND MANA	GEMEN	1T		12-064391-B 6 IF INDIAN ALLOTTEE OR TRIBE NA	N.C.
APPI	ICATION FOR PER	MIT TO D	RILL	OR DEEPEN		N/A	ME
TYPE OF WORK	—			JI DELI EN		7 UNIT AGE EEMENT NAME	
D TYPE OF WELL	RILL X	DEEPEN		_		Indian Hills Unit	
Oit. WELL	GAS WELL X OTHER		S1 Z	NGLE X MULTI	PLE	8 FARM OF LEASE NAME, WELL NO	
NAME OF OPERATOR			•			Indian Hills Unit	30
Marathon Oil Con				· · ·		9 API WELI NO	
.O. Box 552 Mi	idland, TX 79702			1-800-	-351-1417	10 FIELD AND POOL, OR WILDCAT	
LOCATION OF WELL (Re	port location clearly and in accordance	e with any State rea	quirements	*,		Indian Basin Morrow	
.373 FSL & 808 At proposed prod. zone	' FWL				l	II SEC.T.R.M.ORBLK AND SU-VEY OR AREA	
308' FSL & 1403	3' FWL					Sec. 20. T-21-S, R-	24-E
	DIRECTION FROM NEAREST TOWN C	R POST OFFICE"				12 COUNT' OR PARISH 13 ST-	
15- Miles N.W.			· · · · · · · · · · · · · · · · · · ·			Eddy N	I.M.
DISTANCE FROM PROPO LOCATION TO NEAREST	1. E.		16 NO 0	FACRES IN LEASE	17 NO OF A	CRES ASSIG: ED	
PROPERTY OR LEASE LI (Also to nearest drlg. un	INE. FT		640		10111113	640	
DISTANCE FROM PROPO TO NEAREST WELL, DRI	SED LOCATION*		.9 PROP	DSED DEPTH	2C ROTARY	OR CABLE 1 DOLS	
OR APPLIED FOR. ON TH	EDITO: COM EDITED,		10,	500	Rota	ıry	
ELEVATIONS (Show wh	hether DF,RT, GR, etc.)					22 APPR DX DATE WORK WILL ST	ART*
791' G.L.						ASAP	
	PF	ROPOSED CASING	G AND CEN	MENTING PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	от	SETTING DEPTH		QU -NTITY OF CEMENT	
17.50"	13-3/8" K-55	54.50#		1200'	1250	sks.	
12.25"	9-5/8" K-55, L-80	40# , 53.		8900'	2610		
		17 ∩#		10 5001		70	
8.50"	5-1/2" K-55	17.0#]	10,500'	200 s		
Marathon Oi primary tary Either zone This well in & 800' FWL, Starea.	l Co. is proposing to get with secondary ta will have a standard s to be drilled on th	directiona rget in the BHL. e existing E. This wi	ly dril Indian pad of	l a Indian Basi Basin Upper Pe our Rocky Hills nificantly reduc	n Morrow nn. Assoc	SENT to	FSL
Marathon Oil primary tange Either zone This well is & 800' FWL, Sarea. The pit use Reference B Hills. **	1 Co. is proposing to get with secondary tax will have a standard s to be drilled on the EC. 20, T-21-S, R-24-3 d for the existing we Distance F/ Rocky Hil	directionarget in the BHL. e existing E. This will will be # 99-NM-08 ls SWD @ 14	ly dril Indiar pad of 11 sign re-oper 0-245. 00'FSL	a Indian Basical Basical Basin Upper Performance our Rocky Hills Difficantly reduced. A 600 x 600 ar & 800' FWL is 2 data on present productive	n Morrow nn. Assoc SWD # 2 n e surface rea was cl 9 feet.	well, located @ 1400' disturbance in the E/ eared for existing Roc osed new projective zone If proposal	FSL A ky
Marathon Oil primary tany Either zone This well is & 800° FWL, Starea. The pit use Reference B Hills. ** ABOVE SPACE DESCREEPEN directionally give possess.	l Co. is proposing to get with secondary tare will have a standard s to be drilled on the EC. 20, T-21-S, R-24-S d for the existing we DIM Archaeology report Distance F/ Rocky Hil RIBE PROPOSED PROGRAM	directionarget in the BHL. e existing E. This will will be # 99-NM-08 ls SWD @ 14 If proposal is to dand measured and to	ly dril Indian pad of 11 sign re-oper 0-245. 00'FSL eepen, give rue vertical	a Indian Basical Basical Basin Upper Performance our Rocky Hills Difficantly reduced. A 600 x 600 ar & 800' FWL is 2 data on present productive	n Morrow nn. Assoc SWD # 2 n e surface rea was cl 9 feet.	well, located @ 1400' disturbance in the E/ eared for existing Roc osed new projective zone If proposal any.	FSL A ky
Marathon Oil primary tany Either zone This well is & 800' FWL, Starea. The pit use Reference B Hills. ** ABOVE SPACE DESCrepen directionally give possible.	l Co. is proposing to get with secondary tax will have a standard s to be drilled on the EC. 20, T-21-S, R-24-3 d for the existing we alm Archaeology report Distance F/ Rocky Hil RIBE PROPOSED PROGRAM Pertinent data on subsurface locations:	directionarget in the BHL. e existing E. This will will be # 99-NM-08 ls SWD @ 14 If proposal is to dand measured and to	ly dril Indian pad of 11 sign re-oper 0-245. 00'FSL eepen, give rue vertical	a Indian Basin Basin Upper Performance Per	n Morrow nn. Assoc SWD # 2 n e surface rea was cl 9 feet.	well, located @ 1400' disturbance in the E/ eared for existing Roc osed new projective zone If proposal	FSL A ky
Marathon Oil primary tany Either zone This well is & 800' FWL, Starea. The pit use Reference B Hills. ** ABOVE SPACE DESCRETE directionally give possible of the second secon	l Co. is proposing to get with secondary tax will have a standard s to be drilled on the EC. 20, T-21-S, R-24-3 d for the existing we alm Archaeology report Distance F/ Rocky Hil RIBE PROPOSED PROGRAM Pertinent data on subsurface locations:	directionarget in the BHL. e existing E. This will will be # 99-NM-08 ls SWD @ 14 If proposal is to dand measured and to	ly dril Indian pad of 11 sign re-oper 0-245. 00'FSL eepen, give rue vertical	a Indian Basin Basin Upper Performance Per	n Morrow nn. Assoc SWD # 2 n e surface rea was cl 9 feet.	well, located @ 1400' disturbance in the E/ eared for existing Roc osed new projective zone If proposal any.	FSL A ky

_ TITLE _

__ DATE ___

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

5. Lease Serial No.

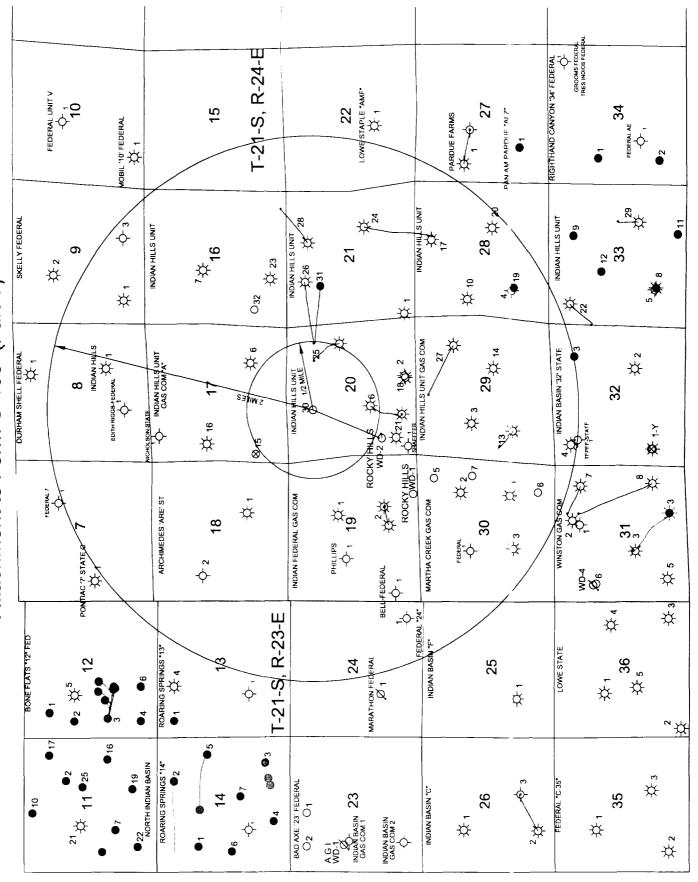
SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

LC-064391-B
6. If indian, Allottee or Tribe Name

abandoned well. Use Forn	n 3160-3 (APD) for suc	n proposais.		N/A	
SUBMIT IN TRIPLICATE - (Other instructions on	reverse side		7. If Juit or Ca	A/Agreement, Name and/or N
1. Type of Well Oil Well X Gas Well Other 2. Name of Operator				8. Well Name Indian Hil	
Marathon Oil Company				9. A 'I Well N	0.
3a. Address	3b.	Phone No. (include area	code)		
P.O. Box 552 Midland, TX 79702 4. Location of Well (Footage, Sec., T., R., M., or Survey L.)	Description)	1-800-351-1417		10. Field and F	ool, or Exploratory Area
Sec. 20, T-21-S, R-24-E, SHL @ UL	-	I TWI. Sec 20		TIMETALI BAS	III MOITOW
T-21-S, R-24-E.	1 1474 IDD & 000	гиш, Бес. 20,		11. County or	Parish, State
BHL @ UL "C" 972' FNL & 1403' FWL,	Sec. 20, T-21-S, R	-24-E.		Eddy	N.M.
12. CHECK APPROPRIATE	· · · · · · · · · · · · · · · · · · ·		OTICE, REP	·	
TYPE OF SUBMISSION	· , ,		OF ACTION		
X Notice of Intent	Acidize	Deepen	Production	(Start'F esume)	Water Shut-Off
	Alter Casing	Fracture Treat	Reclamation	οn	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomple	te	Other
Final Abandonment Notice	X Change Plans	Plug and Abandon	Temporari	ly Abandon	
	Convert to Injection	Plug Back	Water Dis	posal	
SWD well located @ 1400' FSL & 80 The New surface hole location sta This will again reduce surface di	ke is @ 1494' FSL	& 688' FWL of Sec	•	-	
again. A new Directional plan is attache Reference BLM Archaeology report Hills SWD # 2 Distance f/ Rocky hills SWD @ 140	# 99-NM-080-245.				
Items to be changed on 3160-3 API 4, SHL @ 1494 FSL & 688' FWL, BHI All casing and cementing program	L @ 972' FNL & 1403		151',Item	# # # Z	+ 5+1 8LM ROSWER 121/01
14. I hereby certify that the foregoing is true and correct		Title			
Name (Printed/Typed) Jerry Fletche	er	Enginee	r Tech.		
Jens Flether		Date 2/21/01			
THIS	S SPACE FOR FEDER	AL OR STATE OFF	ICE USE		
Approved by		Title		D	Pate
Conditions of approval, if any, are attached. Approval of certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations to	those rights in the subject				

Attachment to Form C-108 (Part V) Indian Hills Unit No. 30 SWD Proposed Injection Well



Form 3160-4 (July 1992)

UNITED STATESOPERATOR (See of struction

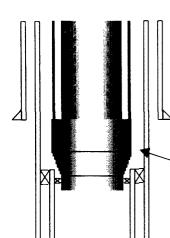
(See other instructions on

FORM APPROVED
OMR NO. 1004-0137

	OME	NU.	1044	413/	
	Expires:	Peb	reary	28, 1	99
LEASE	DESIGNAT	ON A	ND SE	RIA	N

		BUREA	U OF LAND	MANAG	<u>ement</u>					<u>LC</u>	<u>-0643</u>	91-B	
WELL COMP	LETIC	N OR	RECOMP	LETIC	ON REF	PORT A	ND I	OG*		6. IF IN	IDIAN, AI	LOTTEE	OR TRIBE NAME
1a. TYPE OF WELL:		METT	GAS WELL		DRY 🗆	Other SWD	WELL			7. UNI	T AGREE	MENT NA	ME
b. TYPE OF COMPL	ETION:												
WELL X	WORK OVER	DEEP- EN	PLUG BACK		ESVR.	Other				8. FAR	M OR LE	ASE NAM	E, WELL NO.
2. NAME OF OPERATOR													SWD #2
Marathon Oil C										Q API	WELL NO		
3. ADDRESS AND TELE P.O. Box 552			79702				01	5-682-16	26			30600	
4. LOCATION OF WELL				nce with a	ny State requi	irements)*		<u> </u>	20				WILDCAT
At surface 1400' FSL & 80 At top prod. interval r		ow										EVONI/	AN 96101
••	•									AN	DSURVE	Y OR ARE	A
At total depth				14. PE	RMIT NO.		DATE IS	SUED			U. 20 INTY OR	<u>, 1-2.</u>	1-S, R-24-E Ti3. state
				١.			1			PAI	ar.		
15. DATE SPUDDED	I6 DATE	T.D. REACHE	D 12 DATE		WD • 738 Ready to prod	, 1	3/3	/99 ATIONS (DF, R	VB ST C	P FTTC 14	EDDY		NM EV. CASINGHEAD
3/30/99	1	31/99	i i	3/99	comy to prom	"	KB:				•	17. 44	LV. Cristivo Land
20. TOTAL DEPTH, MD &	TVD	21. PLUG, B	ACK T.D., MD & TV	/D 2	2. IF MULTIP			23. INTER	/ALS		TARY TO	ous I	CABLE TOOLS
11307'		11307	· · · · · · · · · · · · · · · · · · ·		HOW MAN				→		ALL		<u></u> -
24. PRODUCING INTERVA	AL(S), OF TH	IIS COMPLET	ION - TOP, BOTTON	4, name (m	ID AND TVD)*							25.	WAS DIRECTIONAL SURVEY MADE
DISPOSAL INTER			OPEN HOLE	10,34	3'-11,30	07'MD							NO
26. TYPE ELECTRIC AND											į	27. WAS	WELL CORED
CNL, LDT, GR,	NGI, S	<u> </u>				. # . 1							
CASING SIZE/GRADE	WE	IGHT, LB./FT.	DEPTH SE		ORD (Repo	LE SIZE	set in weii	TOP OF C	EMENT. CI	EMENTIN	G RECOR	D.	AMOUNT PULLED
3-3/8" K-55	54.5		1206				9	05 SX -					
-5/8" L-80		54#	9790					250 SX-				STG.	
					<u> </u>								
SIZE	TOP (M		INER RECORD BOTTOM (MD)	Lavore	CEMENT*	scner.	(4.5)	30. SIZE			YG REC		DA OWED DET O (EX)
7"_L-80	9408		10.343'	+	300	SCREEN	(MLD)	SIZE		DEPIR	SET (MID	" 	PACKER SET (MD)
	3400	•	10.343	†	300				\dashv				
31. PERFORATION RECOR	D (Interva	l, size and na	mber)			32,	ACI	D. SHOT. F	PACTIB	E CEM	ENT SO	HEEZE	PTC
DEVONIAN OPE	N HOLE	10,343	-11,307' (964')			NTERVAL						ERIAL USED
						10343	<u> -1130</u>	7' OH	30.00	00 GA	_S . C	A 150	ACID
						ļ		·					
													
33.*					PRODUCTI	I I							
DATE FIRST PRODUCTION	1	PRODUCT	ION METHOD (Fla	wing, gas			e of pump)			WELL S		Producing or
DATE OF TEST	HOURS T	ESTED	CHOKE SIZE		O'N, FOR PERIOD	OIL-BBL.	- ,	GAS - MCF.		WATE	R - BBL.	10	GAS - OIL RATIO
	<u> </u>			1,537	PERIOD	<u> </u>		<u> </u>					
FLOW, TUBING PRESS.	CASING	PRESSURE	CALCULATED 24-HOUR RATE		BBL.	AĈ	CEPTI	DFOR	REC()		OIL GRA	VITY - API (CORR.)
34. DISPOSITION OF GAS	(Sold, used	for fuel, ven	ied, etc.)							TEST W	TTNESSE	DBY	
35. LIST OF ATTACHMENT	TS	 -				-	AU	9 6	<i>1</i> 23	1 22.5	4 8		···
LOGS & INCLINA		URVEY					rad()	SUD	LES	ABY	AF		
36. I hereby certify that the for	regoing and a	ttached informa				*				1			400
SIGNED	ny		arke		TITLE Eng	jineer T	echnic	:1 <u>a</u> n			DAT	E <u>8/3</u>	/ У У

10342 NOT REACHED DOLUMITE - MATER 104 Bit Springs Line 104 Bit Springs Line 104 Bit Springs Line 105 Bit Sp	37. SUMMARY OF P drill-stem, tests, in recoveries):	OROUS ZONES: scluding depth into	(Show all important erval tested, cushion	SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	OEOI	GEOLOGIC MARKERS	જ
NOT REACHED DOLOHITE - WATER Glorietta (Glorietta 1934) Yeso 3rd Bin Springs Lin 44 3rd Bin	FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		TOP	J.
10342 NOT REACHED DOLOMITE - WATER Glorietta Yeso 3rd Bn Springs Lm 3rd Bn Springs Lm 3rd Bn Springs Lm 3rd Bn Springs Lm 4rd Rm Springs L					NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Yeso 3rd Bn Springs Lm 3rd Bn Springs Lm Wolfcamp Upper Penn(C1sco) Atoka Norrow Lwr Hiss Line Woodford Devonian	DEVONIAN	10342			Glorietta	2378	
3rd Bn Springs Lm 3rd Bn Sprgs Sand Wolfcamp Upper Penn(C1sco) Atoka Morrow Lwr Miss Line Woodford Devonfan					Yeso	2532	
3rd Bn Sprgs Sand Wolfcamp Upper Penn(C1sco) Atoka Horrow Lwr Miss Lime Woodford Devonian					3rd Bn Springs Lm	4580	
Wolfcamp Upper Penn(Cisco) Atoka Morrow Lwr Miss Line Woodford Devonian					3rd Bn Sprgs Sand	6544	
Upper Penn(Cisco) Atoka Morrow Lwr Miss Lime Woodford Devonian					Wolfcamp	222	
Morrow Lur Miss Lime Woodford Devonian		B018-1			Upper Penn(Cisco)	7472	
Worrow Lwr Miss Line Woodford Devonian					Atoka	8876	
Woodford Devontan					Morrow	9018	
Moodford Devonian					Lwr Miss Lime	9918	
Devonian					Woodford	10288	٠.
					Devonian	10342	
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	5), -						
ų,	EUA	`a.					
, *,							



Spud: 03/30/99 G.L. Elev.: 3794'

K.B.: 3816'

13 3:8" K-55 Conductor Casing

Set at 1206', No Circ. Cement W/ 905 sks.

Tubing:

	26	KBC [80	8rc	22 10 43 63	21.95	21 95
		[80	8rc	43.53	2) 95	44.58
Sub 7"						
	26	L-80	81c.	10.13	64.58	~4 o8
224 7"	26	[,-80	8rc	9342.9	74.68	9417.58
7.7.16	Stem	Assy		10.52	417.58	9428-20

Perforated 9752' w/4 holes: Attempt to squeeze w/400 PSI No injection.

Intermediate Casing 9 5/8" 48 & 54#, L-80 Csg. Set at 9790', Cmt. W/3620 sks. No Circ.

Well History:

6/19/99 – Acidized we'l w/ 30,000 gals of CCA 150 acid, using 8000 gals 10# gelled brine and rock salt as divert. Inj. rate @ 50 BPM @ 1927 psi. While on 9th stage, formation was blocked off w/ diverter Did not break back on remaining stages. Final pressure: 3250 psi at 4.4 BPM. Wireline tagged bridge at 10,400°

Rocky Hills SWD No. 2

Sec. 20, T-21-S, R-24-E

Lease No.: LC-064391-B

API No.: 30-015-30600

Eddy Co., N.M.

Dat 2 Completed: 06/23/99

U.L. "L", 1400' FSL, 800' FWL

6/21/99 – Reran wirleine, tagged at 10,840'. Good treatment in open hole. RIH with Coiled Tubing. Could not get past 10.343'. Pumped 1000 gals of 15% acid. no help.

 $\frac{7/8/00}{\text{CSA}}$ - Acidized well w/ 47,500 gals 15% CSA 150 acid w/ 1000 lbs of block on 4th stage.

Liner
7" L-80 Csg.
Set at 10.343', Cmt. W/300 sks.

Open Hole Section: From: 10.343° To: 11.307°

Note: Possible bridge or ledge at 10.348'.

TD: 11,307

INDIAN HILLS UNIT NO. 30 SWD Proposed Injection Well Attachments to Form C-108 (Part XI)

The following water analyses are for fresh water wells within 1 mile of the bottom hole location of the Indian Hills Unit No. 30. The information on the wells of interest is highlighted in yellow and the wells' names and locations are as follows:

Well Name	Location Description
MW-071	SW 1/4, NE 1/4, NW 1/4 of Section 19, T-21-S, R-24-E
MW-087	SE ¼, NW ¼, SW ¼ of Section 19, T-21-S, R-24-E
MW-087A	SE ¼, NW ¼, SW ¼ of Section 19, T-21-S, R-24-E
LYMAN RANCH	NW ¼, NE ¼, NE ¼, of Section 29, T-21-S, R-23-E

Appendix C

Historical General Chemistry Analytical Data May 1991 - December 2000

Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID MW-070 Date Sampled 4/28/00	Well ID MW-070	MW-071 9/1/93	MW-071 10/12/93	MW-071 1/11/94	MW-071 4/6/94	MW-071 7/18/94	MW-071 10/4/94	MW-071 1/10/95	MW-071 6/23/95	MW-071 7/18/95	MW-071 10/10/95	MW-071 1/18/96
Bicarbonate Alkalinity	1	:	:	1	:							
Ammonia (as N)	:	;	1	;	1	1	: :	١,	: :	l (
Bromide	1	1	ı	}	1	;	;	į	1	1	1	1
Carbonate Alkalinity	1	1	ł	1	;	1	;	:				
Chloride	8.61	6	15	18	17	<5	22	<5	16	22	21	18
Cyanide	1	1	ł	;	1 2	ı	1	ł	:			
Fluoride	t	1	I	;	1	ł	1	i	1	1	1	
Hydroxide	ŀ	1	;	1	1	1	1	1	!	1	į	1
Carbon Dioxide	:	ł	1	1	1	1	1	;	i	!	1	:
Nitrate	;	t	}	1	1	1	ţ	1	1	;	ł	;
Nitrogen, Kjeldahl, total (as N)	1	t	1	ł	;	1	1	1	1	1	;	;
Orthophosphate	1	1	1	1	1	1	ŧ	1	;	1	ŀ	1
*Hd	ł	}	2 .	1	1	I	1	1	1	1	1	1
Phenols, total	1	;	;	1	:	1	1	1		;	į	1
Specific conductivity**	1	!	1	1	1	i	1	1	:	,	:	
Sulfate	1	ì	1	:	1	1	;	1	1	1	1	1
Total dissolved solids (TDS)	385	1	i	:	1	1	!	:	1	į.	:	

Concentrations listed in miligrams per liter (mg/L), except where noted otherwise.

• Measured in standard units (su)

• Measured in Micro-mhos per centimeter (unho/cm)

- -- Not analyzed or not reported < Constituent not detected above noted laboratory detection limit

Appendix C

Historical General Chemistry Analytical Data May 1991 - December 2000 Marathon Oil Company, Indian Basin Remediation Project. Eddy County, New Mexico

MW-072 4/5/94 MW-071 4/28/00 ------36.2 MW-071 4/21/99 MW-071 10/11/98 MW-071 6/19/98 <0.005 7.2 MW-071 10/16/97 0.63 0.06 0.6 0.18 7117197 MW-071 1 : 1 1111111111 MW-071 5/6/97 MW-071 2/9/97 MW-071 10/1/96 MW-071 7/1/96 MW-071 4/17/96 Well ID Date Sampled Nitrogen, Kjeldahi, total (as N) Total dissolved solids (TDS) Specific conductivity** Bicarbonate Alkalinity Carbonate Alkalinity Ammonia (as N) Orthophosphate Carbon Dioxide Phenols, total Hydroxide Parameter Chloride Fluoride Cyanide Nitrate

Notes

Concentrations listed in milligrams per liter (mg/L), except where noted otherwise.

- * Measured in standard units (su)
- Measured in micro-mhos per centimeter (umho/cm)
- -- Not analyzed or not reported.
- < Constituent not detected above noted laboratory detection limit.

Appendix C
Historical General Chemistry Analytical Data
May 1991 - December 2000

Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID Date Sampled Parameter	MW-087 10/16/97	MW-087 6/19/98	MW-087 10/12/98	MW-087 4/20/99	MW-087 5/1/00	MW-087A 10/1/96	MW-087A 2/9/97	MW-087A 5/7/97	MW-087A 10/16/97	MW-087A 5/1/00	MW-088 2/5/97	MW-088 4/30/97
Picarbonoto Alkalinity							26.2					
Ammonia (as N)	-0.03			:		:	7 00 :	: :	0.17	1 ;	: :	1 :
Bromide	1	:	ı	t	:	1	1.2	;		}	1	1
Carbonate Alkalınıty	!	;		,	í	ł	7	;	ł		1	}
Chloride	1	13	ì	10	10.3	110	150	140		127	30	20
Cyanide	;	<0.005	;	1	ı	1	i	1	ł	1	1	:
Fluoride	ł	6.0	1	t t		;	1.9	1	l	ì	1.13	i
Hydroxide	1	1	1	1	1	1		1	1	1	1	ł
Carbon Dioxide	;	1	1	1	!	1	1	;	{	1	1	;
Nitrate	0.52	t	;	;	1	1	1	1	90.0>	1	:	;
Nitrogen, Kjeldahl, total (as N)	<0.2	1	1	ł	ł	;	ı	1	6.0	i	1	;
Orthophosphate	90 0	;	1	;	ţ	ı	1	1	60'0	}	1	:
*Ha	:	7.4	;	:	1	1	7.2	i	1	;		
Phenols, total	1	<0.005	i	ŀ	I	ŀ	1	ŀ	,	1	1	;
Specific conductivity**	:	1	;	1	ì	i	3350	!	;	;	1	1
Sulfate	;	360	260	1	;	1	1900	ì	1	;	390	ţ
Total dissolved solids (TDS)	;	710	1	680	069	;	3200	;	1	3290	970	1

Notes:

Concentrations listed in milligrams per liter (mg/L), except where noted otherwise.

• Measured in standard units (su)

• Measured in micro-mhos per centimeter (umho/cm)

- -- Not analyzed or not reported. < Constituent not detected above noted laboratory detection limit.

Appendix C

Historical General Chemistry Analytical Data May 1991 - December 2000 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID Date Sampled Parameter	LYMAN 7/1/91	LYMAN 4/1/92	LYMAN 7/1/92	LYMAN 10/1/92	LYMAN 1/1/93	LYMAN 4/15/93	LYMAN 5/12/93	LYMAN 6/28/93	LYMAN 7/15/93	LYMAN 8/3/93	LYMAN 9/21/93	LYMAN 10/14/93
10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -												
bicarbonate Alkalinity	1	:	ŀ	ŀ	:	:	ŀ	:	:	ŀ	;	;
Ammonia (as N)	1	1	1	;	1	ł	ł	!	:	ł	1	+
Bromide	;	;	:	1	1	ł	i	;	l	1	:	1
Carbonate Alkalinity	i	ì	1	i	1	i	i	:	ł	ł	ì	1
Chloride	20	12.6	14.6	15.5	13.2	13	13	12.5	15	13.1	12.4	14.6
Cyanide	1	1	1	1	1	1	1	1	1	1	ł	1
Fluoride	1.3	1	1	1	1	1	1	1	;	1	1	ı
Hydroxide	;	;	1	;	1	;	1	1	1	1	;	1
Carbon Dioxide			:	1	1	;	1	:	;	*	;	1
Nitrate	1	1	1	1	:	1	1	ł	1	1	1	1
Nitrogen, Kjeldahl, total (as N)	;	1	†	1	+	ţ	}	;	1	ŀ	1	;
Orthophosphate	1	1	ł	1	1	ì	;	1	;	1	!	!
*Hd	1	;	!	1	;	1	ì	1	ţ	1	1	;
Phenols, total	1	1	1	1	1	1	1	1	ł	ı	1	1
Specific conductivity**	1	:	1	;	;	;	;	:	1	1	1	;
Sulfate	450	;	;	1	1	;	;	1	;	1	1	1
Total dissolved solids (TDS)	980	1					ï	3	1	1	ł	1

Notes: Concentrations listed in milligrams per liter (mg/L), except where noted otherwise.

- * Measured in standard units (su)
- * Measured in micro-mhos per centimeter (umho/cm)
- Red configuration and representation and aboratory detection limit is Constituent not detected above noted laboratory detection limit.

Appenc Historical General Chem May 1991 - Deci Marathon Oil Company, Indian Basin Remedi

LYM/ 4/7/9 LYMAN 3/9/95 LYMAN 1/11/95 LYMAN 12/16/94 LYMAN 11/30/94 12.1

Notes:

Concentrations listed in milligrams per liter (mg/L), except where

- * Measured in standard units (su)
- ** Measured in micro-mhos per centimeter (umho/cm)

< Constituent not detected above noted laboratory detection lim

Appendix C

Page 5 of 77

Historical General Chemistry Analytical Data May 1991 - December 2000

Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

CI BOW	N	2	2	, XX	No.	2						
Date Sampled Parameter	11/10/93	12/6/93	1/12/94	2/9/94	3/16/94	4/5/94	5/19/94	6/23/94	LYMAN 7/21/94	LYMAN 8/24/94	LYMAN 9/20/94	LYMAN 10/6/94
Bicarbonate Alkalinity	1	ı	1	I	;	1	; ;	1	:	ł	1	1
Ammonia (as N)	I	;	1	1	1	1	1	1	;	ł	;	1
Bromide	1	1	:	ł	1	1	1	ł	1	;	;	1
Carbonate Alkalinity	ļ	,			;	;	i	;	1	1	;	1
Chloride	482	14	13	12.6	13	12.5	12.1	12	12	11.5	11	14
Cyanide	:	ł	1	1	1	ł	ł	ļ	1	;	1	;
Fluoride	1	i	1	1	1	;	ł	:	1	;	ł	1
Hydroxide	;	;	1	;	1	1	1	1	1	1	1	1
Carbon Dioxide	;	1	1	1	1	}	1					
Nitrate		:	1		;	!	;	1	}			
Nitrogen, Kjeldahl, total (as N)	•		!		:	1	1	1	1	!	1	1
Orthophosphate	;	1	;	1	1	1	1	1	;	1	;	1
pH*	1	1	;	1	:	1	1	}	;	1	E P	;
Phenols, total	;	1	ţ	1	1	;	;	;	l	ł	:	;
Specific conductivity**	:	1	!	ł	1	t	}	1	1	:	1	1
Sulfate	1	1	;	1	1	1	;	1	1	1	;	1
Total dissolved solids (TDS)	1	!		:				1	1	1	1	;

Concentrations listed in milligrams per liter (mg/L), except where noted otherwise.

- * Measured in standard units (su)
- * Measured in micro-mhos per centimeter (umho/cm)
 - Met and soul of all and reported.
- < Constituent not detected above noted laboratory detection limit.

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Appendix C

Historical General Chemistry Analytical Data May 1991 - December 2000 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID Date Sampled Parameter	LYMAN 2/10/97	LYMAN 4/30/98	LYMAN 6/29/98	LYMAN 12/18/00	MW-001 4/1/91	MW-001 5/1/91	MW-001 12/1/91	MW-010 5/1/91	MW-010 9/1/91	MW-010 12/1/91	MW-010 4/1/92	MW-010 7/1/92	MW-010 10/1/92
Bicarbonate Alkalinity				-			:						
Ammonia (as N)	ŀ	ţ	;	:	1	١	ı	1			i 1	·	; ;
Bromide	i t	}	1	1	;	1	ł	;	;	ŧ	;	;	1
Carbonate Alkalinity	1	ŧ	ŀ	ŀ	ì	1	1	;	;	ı	;	1	}
Chloride	11	15	13	15	2000	310	152	9	1	323	319	240	312
Cyanide	ł	1	<0.005	ł	;	1	;	1	i	1	1	;	1
Fluoride	:	{	9.0	ŀ	ł	1	ł	1	1	1	1	+	1
Hydroxide	1	1	1	ł	I	1	1	1	1	ţ	}	;	1
Carbon Dioxide	1	1	1	ı	ł	1	1	1	1	1	;	1	1
Nitrate	ł	1	ì	ŀ	ł	1	;	;	1	;	1	}	i
Nitrogen, Kjeldahl, total (as N)	ł	1	1	1	1	١	1	;	;	l	1	1	}
Orthophosphate	1	1	1	!	1	1	1	1	1	,	1	1	;
*Hd	1	ł	7.4	1	ì	1	1	1	\$ *	;	i	}	ł
Phenols, total	1	1	<0.005	1	ŧ	1	1	1	1	1	ı	:	ł
Specific conductivity**	1	;	;	ł	ŀ	1	;	;	:	;	;	;	1
Sulfate	;	1	670	1	:	1	1	ł	<10	1	1	1	1
Total dissolved solids (TDS)	1	i	1000	;	ł	820	ŀ	1600	1440	1	;	1	;

Concentrations listed in milligrams per liter (mg/L), except where noted otherwise.

* Measured in standard units (su)

** Measured in micro-mhos per centimeter (umho/cm)

- -- Not analyzed or not reported. < Constituent not detected above noted laboratory detection limit.

Appendix C

Historical General Chemistry Analytical Data May 1991 - December 2000 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

				A CONTRACTOR OF THE CONTRACTOR									
Well ID Date Sampled Parameter	MW-082 10/11/95	MW-082 6/25/98	MW-082 10/12/98	MW-083 6/25/98	MW-084 6/23/98	MW-085 6/23/98	MW-086 10/17/97	MW-086 6/26/98	MW-087 8/1/96	MW-087 8/22/96	MW-087 10/1/96	MW-087 2/9/97	MW-087 5/6/97
Bicarbonate Alkalinity	:	:	1	1	1	1	;	ŀ	ŀ	ŀ	ł	222	:
Ammonia (as N)	1	1	1	1	1	1	2.77	:	;	;	1	1	1
Bromide	ı	1	1	1		1	1	ł	ŀ	ı	1	<0.3	ı
Carbonate Alkalinity	ł	1	1	;	;	1	ŀ	ı	1	;	ł	۲	;
Chloride	9/	72	1	49	7	120	i	330	1	1	12	11	13
Cyanide	ł	<0.005	;	<0.005	<0.005	<0.005	1	<0.005	1	;	1	}	1
Fluoride	l	0.7	1	7.0	9.0	1.3	;	1.1	1	ł	ł	0.63	ì
Hydroxide	1	1	1	ł	;	1	;	1	1	;	;	۲	ł
Carbon Dioxide	1	1	;	;	1	ı	1	;	ŀ	;	1	1	1
Nitrate	1	;	1	1	;	1	1.91	1	1	I	;	;	I
Nitrogen, Kjeldahl, total (as N)	ŀ	1	1	1	1	ł	4	1	1	ı	1	:	1
Orthophosphate	l	1	ł	1	;	1	0.5	1	:	1	;	;	;
*Hd	;	7.1	1	7.2	7.5	7.5	ì	7	1	1	1	7.8	;
Phenols, total	ŀ	900'0	1	<0.005	0.008	0.034	1	0.068	ŀ	1	1	1	ŀ
Specific conductivity**	1	;	!	1	1	;	1	1	!	1	ł	814	1
Sulfate	1	390	190	270	~ 5	<5	1	29	1	1	ł	230	1
Total dissolved solids (TDS)	1	730	1	640	370	1100	1	1500	810	1	1	580	1

Notes:

Concentrations listed in milligrams per liter (mg/L), except where noted otherwise.

• Measured in standard units (su)

•• Measured in micro-mhos per centimeter (umho/cm)

-- Not analyzed or not reported.

< Constituent not detected above noted laboratory detection limit.



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

March 23, 2001

Fasken Oil and Ranch Attn: Engineering Department 303 W. Wall, Suite 1800 Midland, Texas 79701

Offset Operator Indian Hills Unit Well No. 30 SWD Section 20, T-21-S, R-23-E Eddy County, New Mexico

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

Gentlemen:

Marathon Oil Company is making application to the State of New Mexico, Oil Conservation Division for authorization to dispose of produced water from offsetting leases into a proposed well, the Indian Hills Unit Well No. 30. In accordance with the application process, Marathon is notifying offset operators in the "area of review" of the proposed injection well. A copy of the complete application is attached. Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87501, within 15 days of the date of this letter.

Sincerely,

K. W. Tatarzyn

Indian Basin Asset Team Manager

Enclosures

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

March 23, 2001

Yates Petroleum Attn: Engineering Department 104 S. Fourth Street Artesia, New Mexico 88210

Offset Operator Indian Hills Unit Well No. 30 SWD Section 20, T-21-S, R-23-E Eddy County, New Mexico

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

Gentlemen:

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Sincerely.

K. W. Tatarzyn

Indian Basin Asset Team Manager

Enclosures

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

March 23, 2001

Bureau of Land Management 2909 West Second Street Roswell, New Mexico 88201

Surface Owner Indian Hills Unit Well No. 30 SWD Section 20, 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 drill a disposal well located in Section 20, T-21-S, R-24-E, of Eddy County, New Mexico. The surface location will be 1494' FSL and 688 FWL, and the bottom hole location will be 1050' FNL and 1930' FWL of Section 20. In accordance with the application process, Marathon is submitting the application to the BLM as surface owner of the property on which the proposed disposal well will be drilled.

Sincerely,

K. W. Tatarzyn

Indian Basin Asset Team Manager

Enclosures