4/28	10:3	10/7/03 DRC LR SWD PLROSZ6636309 596
	ENE	TE OF NEW MEXICO RGY, MINERALS AND NATURAL OURCES DEPARTMENT OII Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 OIL CONSERVATION DIVISION
		APPLICATION FOR AUTHORIZATION TO INJECT
	I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
	II.	OPERATOR: MARBOB ENERGY CORPORATION
		ADDRESS:P. O. BOX 227, ARTESIA, NM 88211-0227
		CONTACT PARTY: BRIAN COLLINS 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.	CONTACT PARTY: BRIAN COLLINS PHONE: 505-748-3303 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. Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project: Yes X No
	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:
		 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: BRIAN_COLLINS	TITLE: PETROLEUM ENGINEER
SIGNATURE:	DATE: 165ept 03
ENALL ADDRESS, angineering@marbab.com	

- E-MAIL ADDRESS: <u>engineering@marbob.com</u> If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. * Please show the date and circumstances of the earlier submittal:

C-108 Application for Authorization to Inject South Malaga P-35-24-28 SWD (Formerly Sylvester No. 1) 330' FSL 330' FEL P-35-24S-28E, Eddy County

Marbob Energy Corporation proposes to re-enter the captioned well and convert it to salt water disposal service into the Delaware Sand. Marbob proposes to clean out to approximately 4100' and run 5 1/2" casing to 4100'.

V. Map is attached.

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- VI. Wellbore schematics are attached for all the wells that penetrate the proposed injection zone within the 1/2 mile radius area of review. Please note that the Tirano CNG State 2 (SW/4SW/4, Sec. 36-T24S-R28E) was <u>never drilled</u>. The lease map incorrectly shows the well at a location 990' FSL 990' FWL, having a TD of 6750'. A drilling pad was built and reclaimed at a location 330' FSL 330' FWL, as shown on the attached expired application to drill.
- VII. 1. Proposed average daily injection rate = 500 BWPD Proposed maximum daily injection rate = 2500 BWPD
 - 2. Closed system
 - Proposed maximum injection pressure = 535 psi (0.2 psi/ft. x 2675 ft.)
 - 4. Source of injected water will be Delaware Sand produced water. The Delaware produced water is the same as the Delaware water in the receiving formation. No compatibility problems are expected. An analysis of Delaware water from an analogous field is attached.
 - 5. Disposal zone formation water is essentially the same as the injection water.
- VIII. The injection zone is the Delaware Sandstone, a fine-grained sandstone from 2675' to 3900'. Any underground water sources will be shallower than 605'.
- IX. The Delaware sand injection interval will be acidized with approximately 20 gals/ft. of 7 1/2% HCl acid. If necessary, the Delaware injection interval may be fraced with up to 300,000 lbs. of 16/30 mesh sand.
- X. Well logs have been filed with the Division.
- XI. There is one fresh water well approximately one mile west of the proposed SWD well. The fresh water well is located NE/4NE/4, Sec. 3-T25S-R28E. A water analysis is attached.

- XIII. After examining the available geologic and engineering data, no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.

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Side 1	IN JECT	ION WELL DATA S	SHEET			
OPERATOR: Marbob Ener	gy Corporati	ν			·	
WELL NAME & NUMBER: South /	Nalaga P-35-	24-28 SWD (Formerly Sylvest	er No.1)		
WELL LOCATION: <u>330' FSL</u> 3	30' FEL	Р	35	245	28e	
FOOTAGE LOC	ATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE	
<u>WELLBORE SCHEM</u>	<u>ATIC</u>			RUCTION DAT ce Casing	Ä	

Hole Size:	1214."	Casing Size:	5/8" e 60	5'
Cemented with:	400	SX. <i>or</i>	_	ft³
Top of Cement:_	Surface	Method Determ	ined: <u>Circ.</u>	Jated
	Inte	ermediate Casing		

Hole Size:	NLA	Casing Siz	e:		<u> </u>
Cemented with:		\$X. <i>or</i>			ft³
Top of Cement:_		Method D	etermi	ned:	···
		Production Casir Proposed)	<u>19</u>		
Hole Size:7	7/8"	Casing Siz	e: <u>5</u>	1/2" @ 4100'	
Cemented with:_	475	sx. <i>or</i>		_	ft³
Top of Cement:	2000'	Method D	etermi	ined: <u>By Des</u>	<u>i'gn</u>
Total Depth:					
		Injection Interv	al		
2679	5	feet to	3900	>	

(Perforated or Open Hole; indicate which)

See attached BEFORE and APTER wellbore schematics.

INJECTION WELL DATA SHEET

Tubing Size:	27/8"	Liı	ning Mater	ial: <u>In</u>	ternal Plastic	c Coating
Type of Packer:	IDK nickel	plated	double	grip	retrievable	packer
Packer Setting I				0 /	·	
Other Type of T	ubing/Casing Se	al (if applic	able):	NIA		<u> </u>

Additional Data

1. Is this a new well drilled for injection? Yes χ No If no, for what purpose was the well originally drilled? \mathcal{O}_{i} if \mathcal{E}_{Gas}

2. Name of the Injection Formation: <u>Delaware Sand</u>

3. Name of Field or Pool (if applicable):

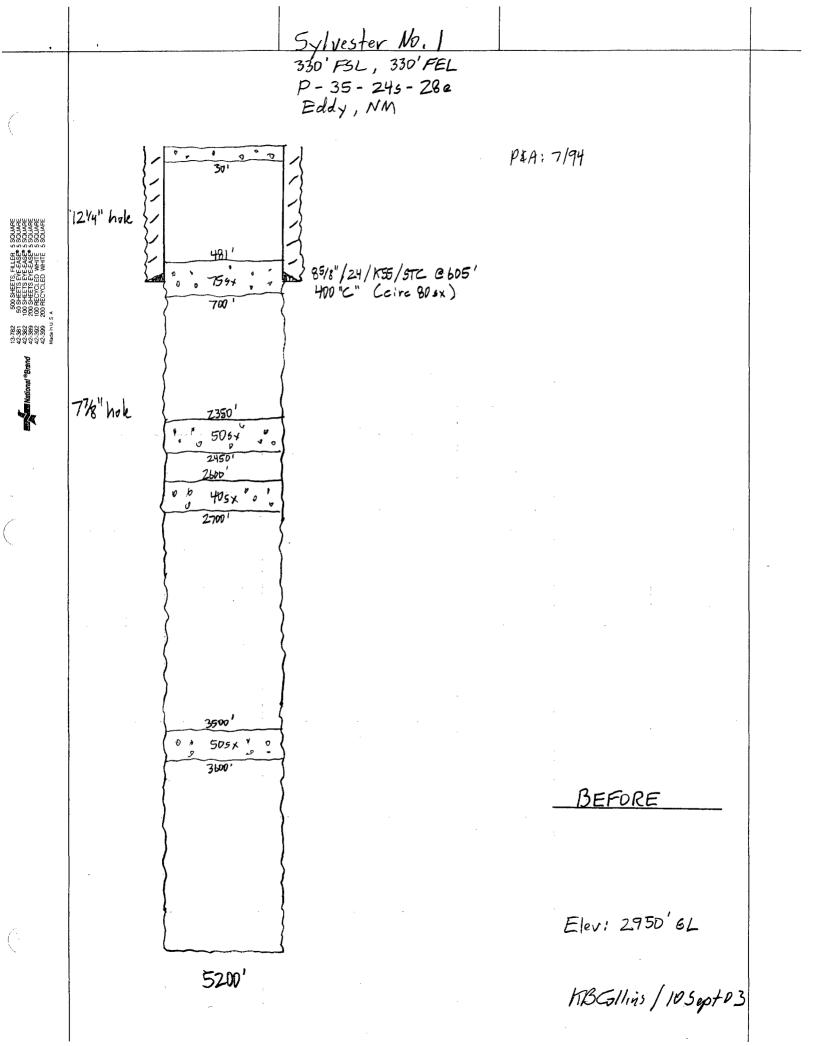
4.

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No

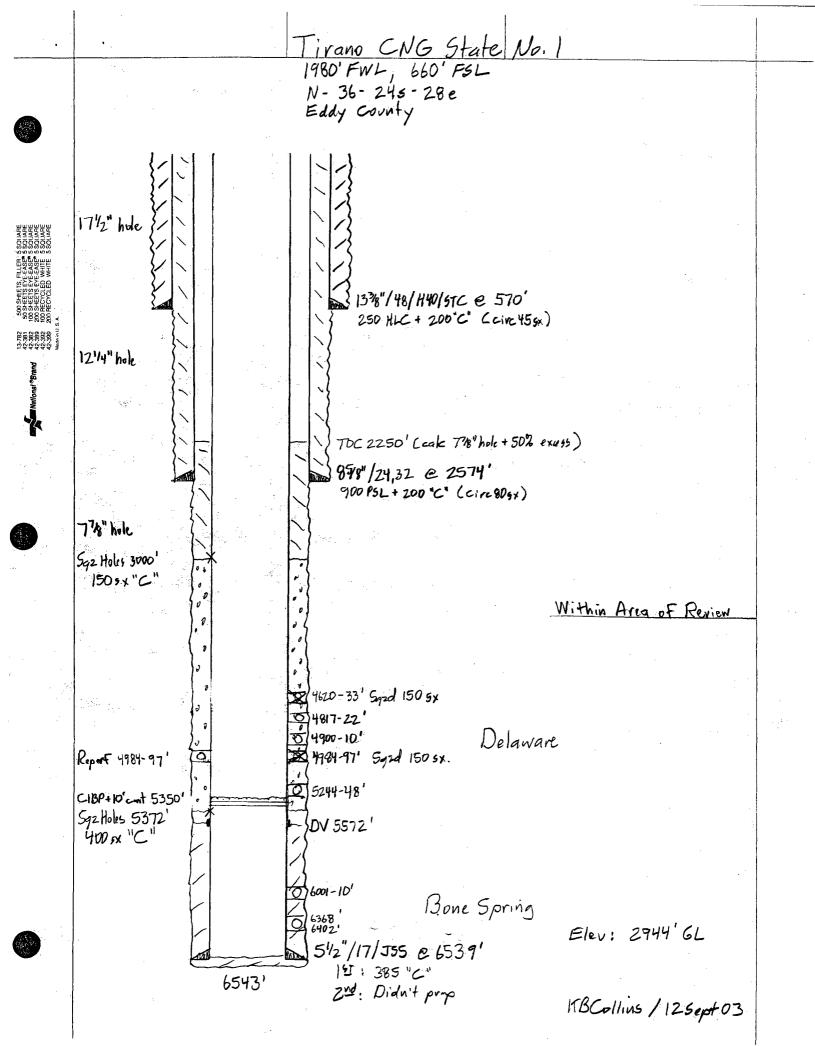
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying : None

Underlying:	Delaware: 4500-6000'	. <u></u>
	Bone Spring 6000-8000'	
	Atoka 11700-12300'	

Side 2



South Malaga P-35-24-28 5WD 330' FSL, 330' FEL P-35-245-282 Eddy, NM P\$A: 7/94 1214" hole 85/8"/24/K55/STC @605' 400 "C" (Ceire 80 sx) 27/8" IR Inj. The National [®]Bran 77% hole TOC 2000' Design Nickel Plated Inj. Phr. e2625't 2675 Q න O Ó 0 0 0 0 AFTER ଷ 0 03900' 51/2"/17/ J55/LTC @ 4100'+ 475 5x Super H (100% excess) Elev: 2950'6L 5200' MBGILINS / 10 Sept 03



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Well Not Drilled. Drilling Pad Built, But Reclaimed. (Confirmed by personal visit to the proposed wellsite.) District I PO Box 1980, Bobbs, NM 23241-1989 District II PO Drawer DD, Artesia, NM \$8211-0719 District III 1000 Rio Brazze Rd., Aztec, NM \$7419 District IV PO Boz 2088, Santa Fe, NM \$7504-2088

State of New Mexico Energy, Minerals & Natural Resources Depurtment

Form C-102 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies ...

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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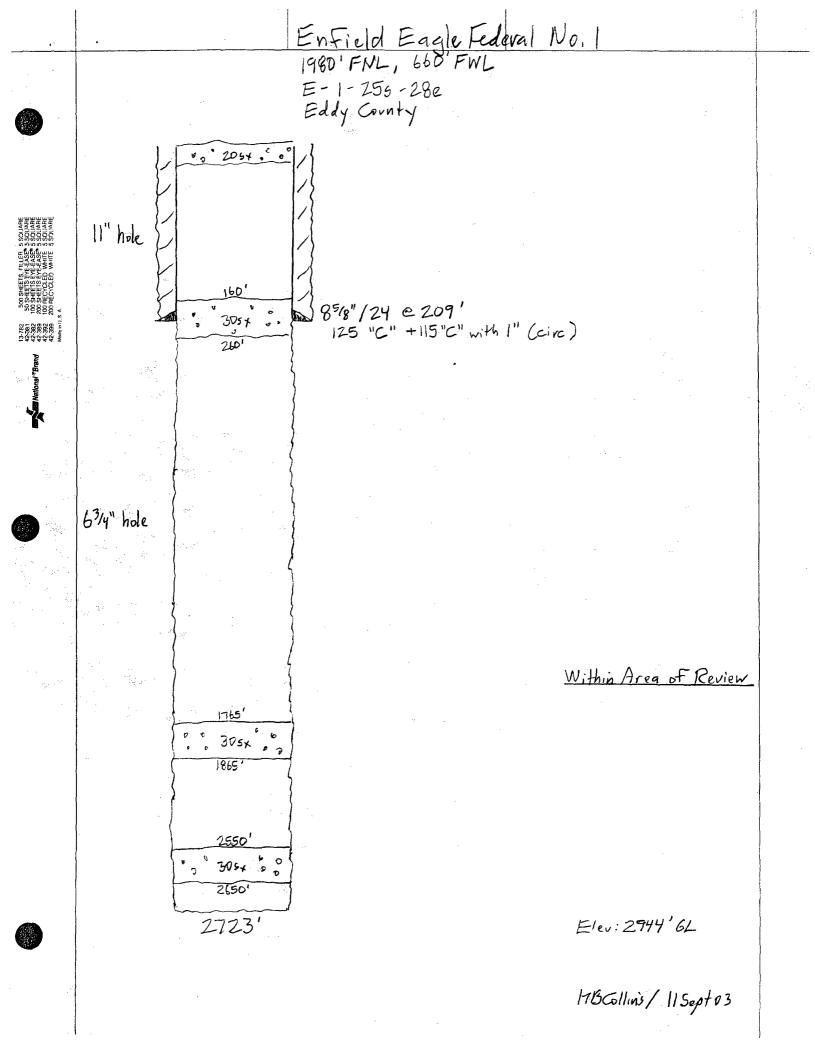
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AMENDED REPORT 5.3

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	•	WE	ll lo	CATIC	N AND	ACF	REAGE DEDI	CATION PL	AT	· ·	1
	API Number Pool Code						Pool Name 1				
30-015	-2803	4 64450 WILLOW LAKE BONE SPRING							PRINGS	ale tar	•
* Property (Cede				³ Pro	perty	Name			•	Well Number
13860		TIRAN	O-CNG	STATE							2
'OGRID	No.				' Op	eralof	Name				* Elevation
7269		ENERG	<u>ex, in</u>	C.			· =				2948.
					¹⁰ Surf	ace	Location				
UL or lot as.	Section	Township	Range	Lot Ide	Feet from	the	North/South Lac	Feet from the	East/West		County
M	36	245	28E		330		SOUTH	330	WES	T	EDDY
			^{II} Bot	tom Ho	le Locatio	o n I	f Different Fro	om Surface ·	•		*
UL or lot no.	Section	Towaship	Range	Lot Ide	Feet from	the	North/South line	Feel from the	East/West	line	Cousty
									5 .	•	
" Dedicated Acr 80.0		or Iaful " C Y	onsolidatio	n Code "	Order No.			•	1. 5 .	• • .	
NO ALLOW	VABLE '	WILL BE A	SSIGNE	D TO TI	IS COMPL	ETI	ON UNTIL ALL	INTERESTS H	AVE BEI	EN CO	NSOLIDATED
							EEN APPROVED				
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LG-5998								 / / ∛	·	3	
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130				1				EALAR	BEURVE		T4
									FOFESSI	A BANK	

Tirano CNG State No. 3 1980'FSL, 990'FWL L- 36-245-28e Eddy County 12'4" hole TOC 500'TS 85/8"/28/K55/BTC e 550' 350 5x (circ 54 5x) * 7%" hole Within Area of Review D√ ? 0 4612-22' CIBP+2 5x 4800' D 4822-26' Delaware CIBP 4890' 9 4906' 9 5000' CIBP 4969' 5"2"/15.5/K55/LTC @ 5365' Elev: 2947.8'6L 151: 355 5x. 50150 Poz 5365' 2nd: 780 HLC + 100"C" 17BG 11ins / 12 Sept 03



Coastal Hopi Federal No. 2 850' FNL, 1500' FWL Lot 3 - 1 - 255 - 28e Eddy County - 23 121/4" hole 85/8"/24 @ 562' 490 °C" (cive) 3-782 2-382 2-382 2-382 2-382 2-392 2-392 2-392 77/8" hole Within Areg of Review 8 4816' Delaware 51/2"/15.5 e 5111' 935 5x (circ) Elev: 2934'GL 5115' HBCollins / 11 Sept 03

HALLIBURTON DIVISION LABORAT

EALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. W45-93

TO Hanagan Per	troleum			Date February 7, 1993
P. 0. Box 1	1737		D ec entre e f	he property of Keleburga Services and neisher 4 net any part
Roswell, N	4 88201		Bareat. 497 8 C	opy therest is to be publicated or declased which this socuring ties approval of lebentary incarponent. I may however, bo rea of regular business sparsions by any parson or concorn and
				real receiving such regard lease Helispurtan Servicios
Submitted by			Date 1	lec
Well No. Gehrig #2		Depth	5050'	Formation Delaware
Fleld Brushy Draw	9-265-29e	County	Eddy	source Produced Water
Resistivity	.052	<u></u>		
Specific Gravity	1.1856		Nater A	nalygis Representative
рН	7.0		of Prod	vced Delaware Water
Calcium	24,250		to be I	-njected and of
Magnesium	9,000			Water in the
Chlorides	170,000		mposed	Injection Interval
Sulfates	250		·	·
Bicarbonates	350			
Soluble Iron	+ 500			
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Remarks:				

Respectfully submitted

Analyst: Art Carrasco - Technical Advisor

HALLIBURTON SERVICES



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This report is for information only and the content is limited to the sample described. Haliburton makes no warranties, express or implied, as to the accuracy of the contents or results. Any user of this report agrees Haliburton shall not be liable for any loss or damage, regardless of cause, including any act or omission of Haliburton, resulting from the use hereof HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY WATER ANALYSIS REPORT HOBBS, NEW MEXICO

COMPANY	Marbob				REPORT DATE DISTRICT		W03-189 mber 10, 200 Hobbs	3
SUBMITTED BY	Fre	sh Wa	ter Analyse	<u>s 25s</u> .	-28e			
WELL	Eddy	FIE		¢		N		
SAMPLE	dmill NE/4 NE/4 St. MA-1 SWD	5ec.3 -	Windmill NE/4 SE SWE We			_		
Sample Temp. RESISTIVITY SPECIFIC GR. pH	78 3.34 1.001 7.71	- ^{°F}	78 2.99 1.001 7.42	[°] F - 	۵ 	F		°F
CALCIUM MAGNESIUM CHLORIDE SULFATES	900 540 90 light	mpl mpl mpl mpl	- <u>1,250</u> <u>135</u> <u>473</u> light	mpi mpi mpi	r	npl npl npl		mpi mpi mpi
BICARBONATES SOLUBLE IRON KCL	<u> </u>	_mpl _mpl	<u>61</u> 0	mpi mpi mpi	r	npl npl npt		mpi mpl mpl
Sodium TDS OIL GRAVITY	@	_mpl _mpl _°F	@	mpl mpl °F	0 r	npl npl F	0 0 @	mpl mpl °F
REMARKS		·····						

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory 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 Halliburton Co. MPL = Milligrams per litter Resitivity measured in: Ohm/m2/m

ANALYST: Mike Armstrong

.



September 17, 2003

Artesia Daily Press P. O. Box 190 Artesia, NM 88211-190

> Re: Legal Notices Salt Water Disposal Wells

Gentlemen:

Enclosed are legal notices regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for four salt water disposal wells.

Please run these notices and return the proofs of notice to the undersigned at Marbob Energy Corporation, P. O. Box 227, Artesia, NM 88211-0227.

Sincerely,

Inllm

Brian Collins Petroleum Engineer

BC/dlw

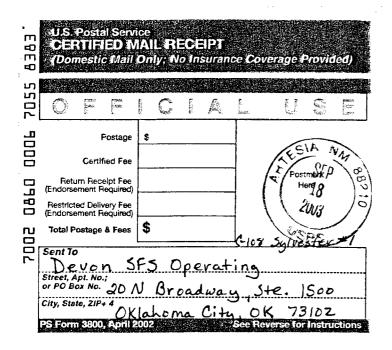
enclosure

ARTESIA DAILY PRESS LEGAL NOTICES

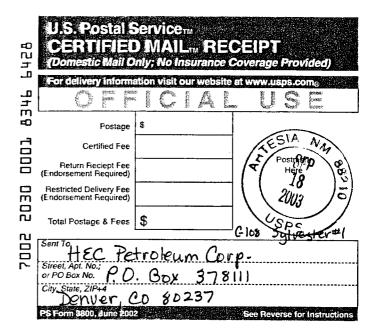
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Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico, 88211-0227, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Sylvester No. 1 is located 330' FSL and 330' FEL, Section 35, Township 24 South, Range 28 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware formation. The disposal water will be injected into the Delaware formation at a depth of 2675' - 3900' at a maximum surface pressure of 535 psi and a maximum rate of 2500 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227, or call 505-748-3303.

Published in the Artesia Daily Press, Artesia, New Mexico ______, 2003.







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September 16, 2003

Devon SFS Operating 20 N. Broadway, Ste. 1500 Oklahoma City, OK 73102

> Re: Application to Inject Sylvester No. 1 <u>Township 24 South, Range 28 East, NMPM</u> Section 35: 330' FSL 330' FEL, Unit P Eddy County, New Mexico

Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Inthi

Brian Collins Petroleum Engineer

BC/dlw enclosure

Devon SFS Operating has no objection to the proposed disposal well:

By:	
Title:	·
Date:	



September 16, 2003

HEC Energy Co. P. O. Box 378111 Denver, CO 80237

> Re: Application to Inject Sylvester No. 1 <u>Township 24 South, Range 28 East, NMPM</u> Section 35: 330' FSL 330' FEL, Unit P Eddy County, New Mexico

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Please do not hesitate to contact us should you have any questions.

Sincerely,

Min

Brian Collins Petroleum Engineer

BC/dlw enclosure

HEC Energy Co. has no objection to the proposed disposal well:

By:	
Title:	
Date:	



September 16, 2003

St. Mary Land & Exploration 1776 Lincoln St., Ste. 1100 Denver, CO 80203-1080

> Re: Application to Inject Sylvester No. 1 <u>Township 24 South, Range 28 East, NMPM</u> Section 35: 330' FSL 330' FEL, Unit P Eddy County, New Mexico

Gentlemen:

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Please do not hesitate to contact us should you have any questions.

Sincerely,

Min

Brian Collins Petroleum Engineer

BC/dlw enclosure

St. Mary Land & Exploration has no objection to the proposed disposal well:

By:	
Title:	
Date:	·