P.O. BOX 8206 WICHITA FALLS,



TEXAS 76307-8206
TELEPHONE (940) 716-5100
PRODUCTION FAX (940) 716-5110
WELL LOG FAX (940) 716-5180
LAND FAX (940) 716-5180
ACCOUNTING FAX (940) 716-5150
EXPLORATION FAX (940) 716-5170

January 9, 1998

Oil Conservation Division PO Box 2088 Santa Fe, New Mexico 87501

Re: State #1 SWD

Section 16, T9S-R37E Lea County, New Mexico



Gentlemen:

Enclosed is Cobra Oil & Gas Corporation's Application For Authorization to Inject for the above captioned well. The State #1 SWD well was drilled by IP Petroleum in 1992 as a Devonian test and plugged as a dry hole in April 1992. Both the surface and intermediate casing strings remain intact. Upon approval, Cobra intends to drill out the three cement plugs in the $8\frac{5}{9}$ " intermediate casing and one cement plug in the open hole. This well will be utilized for the purpose of disposing of produced Devonian water from Cobra's State 16 #1Y well. Due to the high costs of trucking produced water to a disposal facility, this disposal well is critical to prolonging the producing life of the State 16 #1Y by significantly reducing the operating costs associated with trucking the produced water.

Thank you for your consideration of this application. Should you require additional information, please advise.

Sincerely Yours,

Rory Edwards

Production Supervisor

RRE:sg Enclosures

LTR395



P.O. BOX 8206 WICHITA FALLS. TEXAS 76307-8206 TELEPHONE (940) 716-5100 PRODUCTION FAX (940) 716-5110 WELL LOG FAX (940) 716-5180 LAND FAX (940) 716-5210 ACCOUNTING FAX (940) 716-5150 EXPLORATION FAX (940) 716-5170

January 9, 1998

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Re: State #1 SWD

Section 16, T9S-R37E Lea County, New Mexico

Gentlemen:

On January 9, 1998, Cobra Oil & Gas Corporation mailed to Mr. M.J. Harvey Jr., offset leasehold operator and Mr. David Bilbery, surface owner, copies of the Application For Authorization to Inject for the above captioned proposed disposal well. Cobra Oil & Gas Corporation has under lease the North Half of Section 21, and all of Section 16, T9S-R37E. Mr. M.J. Harvey Jr., has under lease the Southwest Quarter of Section 15, T9S-R37E. The Northwest Quarter of Section 15, T9S-R37E is not currently under lease. No other acreage falls within the one-half radius of the area of review for the proposed disposal well.

Should you require additional information, please advise.

Sincerely Yours,

Rory Edwards

Production Supervisor

RRE:sg Enclosures

LTR393

49

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Certified Fee

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US Postal Service Receipt for Certified Mail No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Street & Number Sent to HC 60 BOX 55 Post Office, State, & ZIP Code CROSS DAVID BILBREY ROADS 78 88114

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Postage Certified Fee

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US Postal Service Receipt for Certified Mail

Street & Number Post Office, State, & ZIP Code No Insurance Coverage Provided.

Do not use for International Mail (See reverse) HARVEY

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APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: Cobra Oil & Gas Corporation
	ADDRESS: P.O. Box 8206 Wichita Falls, Texas 76307-8206
	CONTACT PARTY: Rory Edwards PHONE: (940)716-5100
III.	WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project: Yes X No If yes, give the Division order number authorizing the project
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 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/1 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 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: Rory Edwards TITLE: Production Supervisor
	NAME: Rory Edwards TITLE: Production Supervisor SIGNATURE: DATE: 1/9/98
k	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 circumstance of the earlier submittal.

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

III. WELL DATA

- A. The fellowing well data must be submitted for each injection well covered by this application. The data must be both in tabula 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 packer used or a description of any other seal system or assembly used.

Divisi in 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 ft llowing 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 replated.
 - (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

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 cc py 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;
- 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, PO Box 2088, Santa Fe, NM 87504-2088 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.

Application for Authorization to Inject

Cobra Oil & Gas Corporation State #1 SWD 1650' FSL & 2150' FEL Unit J, Section 16, T9S-R37E Lea County, New Mexico

- VI. Attached is a tabulation of all wells of public record that fall within the $\frac{1}{2}$ mile radius of the proposal salt water disposal well, the State #1 SWD. There is one producing well along with two plugged and abandoned wells within the radius of investigation. The wells each have a good cement seal around their casing shoe to prevent any upward migration of the disposal water into any potable water zone. The State #1 well was drilled as a Devonian test by IP Petroleum Company, Inc. and plugged as a dry hole in April 1992.
- VII. The proposed average daily injection rate for the subject well is 500 BWPD with a maximum daily rate of 5000 BWPD. This will be a closed system with an average pressure of 500 1000 psi and a maximum pressure of 2111 psi. Produced Devonian water will be injected in the proposed well. Attached is a letter from Martin Water Laboratories, Inc. indicating there is no incompatibility concerns in injection of Devonian water into the San Andres interval.
- VIII. The disposal zone consists of the San Andres Formation, a 1,450 thick dolomite section, the Glorietta, a 1,382 foot thick dolomite section, the Tubb a 131 foot thick shaly dolomitic sandstone and the Clearfork, a 643 foot thick shaly dolomite. A cement plug from 5,510′ 5,610′ will be drilled out and the open hole interval from 4,223′ 7,694′ will be utilized as the disposal interval. The main source of drinking water in this area is the Cretaceous Formation, the base of which is approximately 180′. There are of no known sources of drinking water underlying the injection interval.
- 1X. The well will be stimulated with 1000 2000 gallons of 20% NEFE HCL if required after a pumpin test.

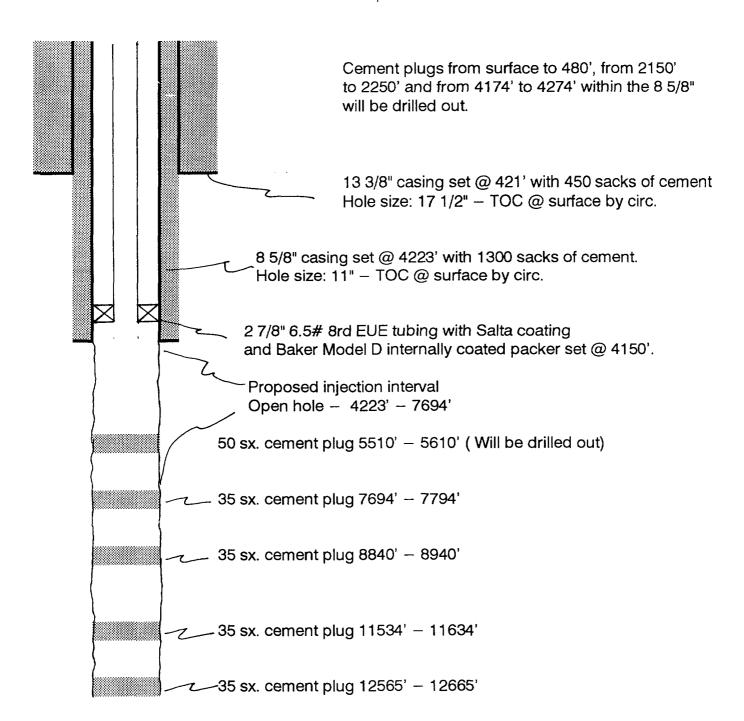
- X. Log is on file with the Division.
- X1. Attached is an analysis of the water from the Bilbrey water well approximately $\frac{1}{4}$ mile to the northwest.
- XII. Cobra Oil & Gas Corporation has examined the available geologic and engineering data and can find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. The required "Proof of Notice" is attached.

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COBRA OIL & GAS CORPORATION OFFSET WELLS TO THE STATE #1 SWD WITHIN A ONE-HALF MILE RADIUS

WELL	LOCATION	SURFACE CASING	INTER. CASING	PROD. CASING	TD	STATUS
lke Lovelady, Inc.	Section 16, T9S-R37E	8 5/8" @ 433'		4 1/2" @ 5,250'	5,250'	Perf 5,023'- 30 - Set CIBP @ 5,010'
Santa Fe. State #1	Unit N	Cement w/250 sacks		Cement w/1360 sacks		Perf 4,917' - 4,979'
Spud 2/6/81	660' FLS & 1,980' FWL	TOC @ surface by circ.		TOC @ surface by circ.		P & A 11/11/81
						Schematic Attached
Cobra Oil & Gas Corp.	Section 16, T9S-R37E	13 3/8" @ 399'	8 5/8" @ 4,301'	5 1/2" @ 12,551'	12,585'	Open hole 12,551'-12,585'
State 16 #1Y	Unit P	Cement w/390 sacks	Cement w/1650 sacks	Cement/675 sacks		Schematic Attached
Spud 7/24/97	330' FSL & 940' FEL	TOC @ surface by circ. TOC @ surface by circ.	TOC @ surface by circ.	TOC @ 9,830' by CBL		
Sam Boren	Section 16, T9S-R37E	11 3/4" @ 418'	8 5/8" @ 4,242'	Not Run	12,371'	Hole junked & abandoned w/DP lost in hole
Martin "A" State #1	Unit O	Cement w/400 sacks	Cement w/450 sacks			P & A 4/19/69
Spud 2/12/69	990' FSL & 1,650' FEL	TOC @ surface by circ.	TOC @ surface by circ. TOC @ +/- 2,900' by calc.			Schematic Attached
I.P. Petroleum, Inc.	Section 16, T9S-R37E	13 3/8" @ 421'	8 5/8" @ 4,223'	Not Run	12,665'	Drilled as Devonian test Dry hole
State #1	Unit J	Cement w/450 sacks	Cement w/1300 sacks			P & A 4/92
Spud 2/12/92	1650' FSL & 2,150' FEL	TOC @ surface by circ. TOC @ surface by circ	TOC @ surface by circ.			Schematic Attached

COBRA OIL & GAS CORPORATION STATE #1 SWD UNIT J, 1,650' FSL & 2,150' FEL SECTION 16, T9S-R37E LEA COUNTY, NEW MEXICO



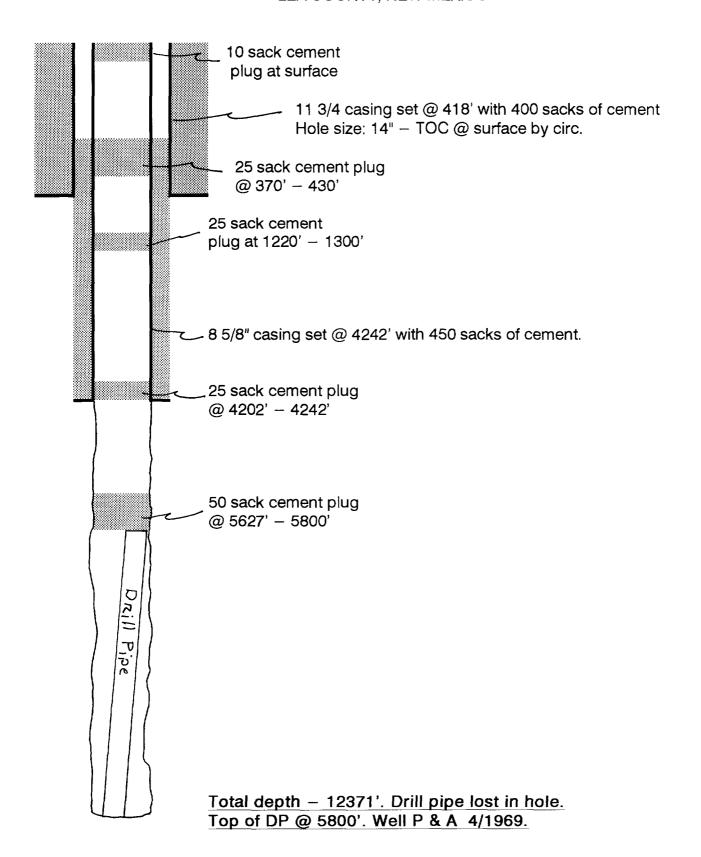
Total depth - 12665'. Well plugged and abandoned 4/1992. Hole size: 7 7/8", no production casing was run.

WELL ORIGINALLY DRILLED BY IP PETROLEUM COMPANY, INC. AS THE STATE #1 IN 3/1992. REENTRY TO CONVERT WELL TO SALT WATER DISPOSAL

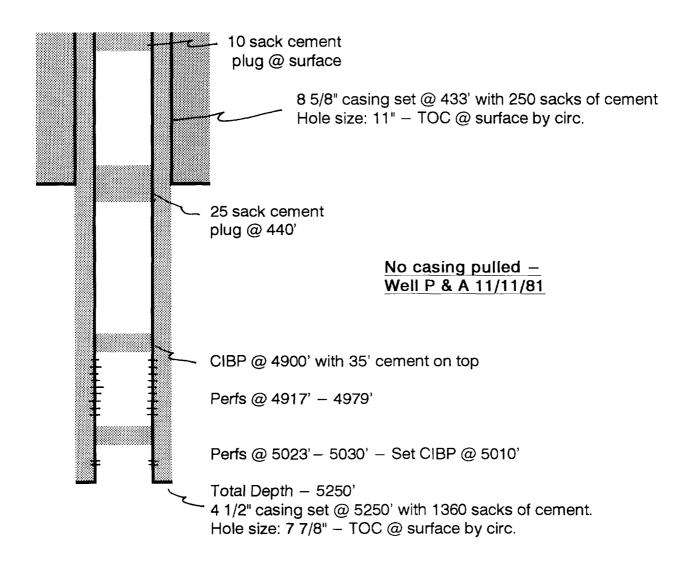
INJECTION WELL DATA SHEET

	bing size - 2 7/8" 6.5# 8rd EUE lined with Salta lining set in a Baker Model D packer at 4150 her type cf tubing/casing seal if applicable
<u>Ot</u> l	her Data:
1.	Is this a rew well drilled for injection?YesX_No
	If no, for what purpose was the well originally drilled? Oil Production - Dry Hole
2.	Name of njection formation San Andres.
3.	Name of Field or Pool (if applicable) W. Sawyer (San Andres)
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.
	None
5.	Give the r ames and depths of any over or underlying oil or gas zones (pools) in this area.
	Devonian +/- 12500'

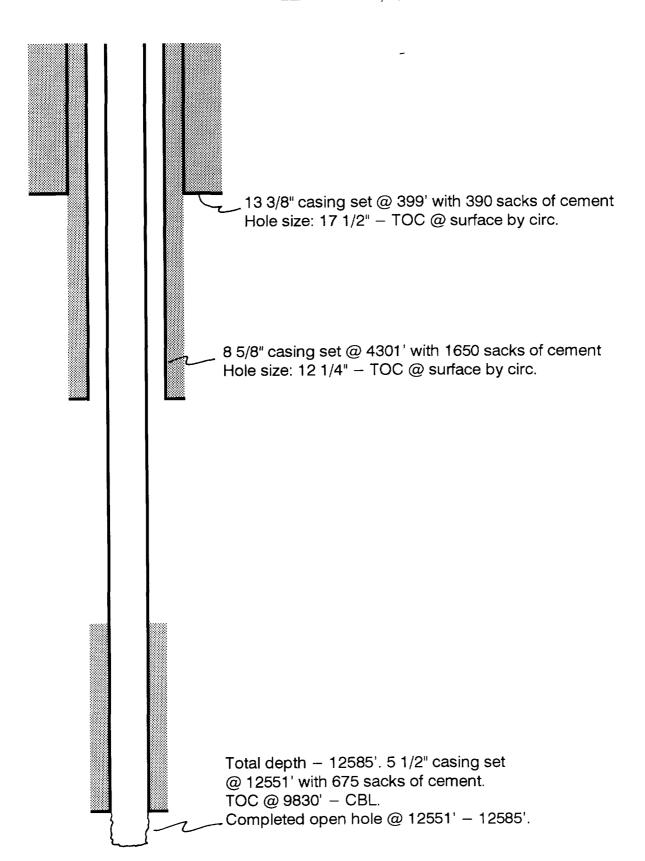
SAM BOREN MARTIN "A" STATE #1 UNIT O, 990' FSL & 1,650' FEL SECTION 16, T9S-R37E LEA COUNTY, NEW MEXICO



IKE LOVELADY, INC.
SANTE FE STATE #1
UNIT N, 660' FSL & 1,980' FWL
SECTION 16, T9S-R37E
LEA COUNTY, NEW MEXICO



COBRA OIL & GAS CORPORATION STATE 16 #1Y UNIT P, 330' FSL & 940' FEL SECTION 16, T9S-R37E LEA COUNTY, NEW MEXICO



Martin Water Laboratories, Inc.

P. O. BOX 1466 MONAHANS, TEXAS 79756 PM 943-3234 OR 563-1040

RESULT OF WATER ANALYSES

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 603-4521

TO: Mr. Rory Edwards P.O. Box 8206, Wichita Falls, TX 76307	LABORATORY NO. 19833 SAMPLE RECEIVED 1-8-98 RESULTS REPORTED 1-8-98
COMPANY Cobra Oil & Cas Corp.	LEASE State 16 #1-Y
FIELD OR POOL Wild	cat
SECTION BLOCK SURVEY COUNTY	LeastateNM
SOURCE OF SAMPLE AND DATE TAKEN:	
NO.1 Raw water - taken from Bilbrey windml	11 (northwest of State 16 #1-Y). 1-7-98
NO. 2	
NO. 3	
NO.4	

REMARKS: ___ CHEMICAL AND PHYSICAL PROPERTIES NO. 1 NO. 3 NO. 4 1.0020 Specific Gravity at 60° F. pH When Sampled 7,30 pH When Received Bicarbonate sa HCO, Supersaturation as CaCO, Undersaturation as CaCO; Total Hardness as CaCO, 390 Calcium as Ca 83 Magnesium as Mg 44 Sodium and/or Potassium 118 Sulfate as SO. 162 Chloride as CI 220 0.09 from as Fe Barlum as Ba Turbidity, Electric Color as Pt Total Solids, Calculated 833 Temperature "F. Carbon Dioxide, Calculated Dissulved Oxygen, Hydrogen Sulfide 0.0 Resistivity, ohms/m at 77 F 8.03 Suspended OII Filtrable Solids as mg/l Volume Fillered, ml Nitrate, as N Results Reported As Milligrams Per Liter Additional Determinations And Remarks. The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Form No. 3

Waylan C. Martin, M.A.

Affidavit of Publication

STATE	OF	NEW	MEXICO)	
)	SS.
COUNT	y o	F LEA	A)	

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled
Notice Of Produced Water Disposal
Well
and henced Xx here
Gounts x Move x Maxigo: was published in a regular and
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, observed when the $^{\chi}$
same xday x by xthe xweek, forone (1) day
canagativexwaalus; beginning with the issue of
<u>December 24</u> , 19.97
and ending with the issue of
December 24 , 19 97
And that the cost of publishing said notice is the sum of \$12.31
which sum has been (Paid) (Assessed) as Court Costs
Lega Canens
Subscribed and sworn to before me this 24th
day of
December 19 97 Notary Public, Lea County, New Mexico
Notary Public, Lea County, New Mexico
My Commission Expires Sept. 28 19 98

LEGAL NOTICE NOTICE OF PRODUCED WATER DISPOSAL WELL Cobra Oil and Gas Corporation, 2201 Kell Blvd., Wichita Falls, Texas 76308-1000, (940) 7165100, contact Rory Edwards, has

Texas 76308-1000, (940) 716-5100, contact Rory Edwards, has made application for a produced water disposal well with the New Mexico Oil Conservation Division. The well, known as the State #1 SWD, is located 1,650' FSL and 2,150' FEL, Section 16, T9S-R37E, Lea County, New Mexico. Disposal will be into the San Andres Zone, open hole, from 4,223' to 7,694'. Maximum rate is anticipated to be 5,000 BWPD with a maximum pressure of 2,111 psig. Interested parties must file objections or request for hearing with the New Mexico Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504 within fifteen (15) days of this notice.

Published in the Lovington Daily Leader December 24, 1997.

Martin Water Laboratories, Inc.

WATER CONSULTANTS SINCE 1953
BACTERIAL AND CHEMICAL ANALYSES

December 18, 1997

709 W. INDIANA MIDLAND, TEXAS 79701 (915) 683-4521

1397

Mr. Rory Edwards Cobra Oil & Gas Corp. P.O. Box 8206 Wichita Falls, TX 76307-8206

Dear Mr. Edwards:

P.O. BOX 1468

MONAHANS, TEXAS 79756

(915) 943-3234 or 563-1040

This letter is in response to your request for a compatibility evaluation between Devonian and San Andres in the area of Section 16, T-9S & R-37E in Lea county New Mexico. We have examined our area records for representative waters from these two intervals and find the nearest Devonian to be in the Crossroads field and San Andres in the Buckshot field. The objective is to evaluate the possibility of injecting Devonian into the San Andres interval.

Based on a comparison of the above two waters, we have identified no evidence of any incompatibility between our area records of Devonian and San Andres. This is to say that based on our representative records, these waters could be combined in most any proportion and not be expected to cause any precipitation or the development of any scaling potential.

In summary of the above, the evidence available is indicating there would be no incompatibility concern in injecting Devonian water into the San Andres interval in the area represented.

Naylan C. Martin

WCM/mo