



115246027 SWD 6/11/01

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

May 22, 2001

J/C

The State of New Mexico
Oil Conservation Division
2040 Pacheco Street
Santa Fe, New Mexico 87505

Re: T. P. "A" State Unit SWD #1 (30-025-20739)
Section 15, T10S-R36E
Lea County, New Mexico

Gentlemen:

Enclosed is Cobra Oil & Gas Corporation's Application For Authorization to Inject for the above captioned well. The T. P. "A" State Unit SWD #1 was drilled as a Devonian producer and has since reached uneconomical status. Surface, intermediate and production casing strings remain intact. Upon approval, Cobra intends to begin disposal of produced Devonian water into the open hole interval from 12,313 feet-12,329 feet in this wellbore. Due to the high cost of trucking produced water to a disposal facility, this disposal well is critical to prolonging the producing life of the Lewis Unit #1 and Gainer Unit #1 wells by significantly reducing the operating costs associated with the trucking of the produced water.

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

Sincerely Yours,

Rory Edwards
Production Supervisor

RE:bas
Enclosures
M:/Wpfiles/Rory/LTR595

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance XXX Disposal Storage
Application qualifies for administrative approval? XX Yes No
- II. OPERATOR: COBRA OIL & GAS CORPORATION
ADDRESS: P O BOX 3206; 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 XX No
If yes, give the Division order number authorizing the project _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. 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/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 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
SIGNATURE: *Rory Edwards* DATE: 05/22/01
- * 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. _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the 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 as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

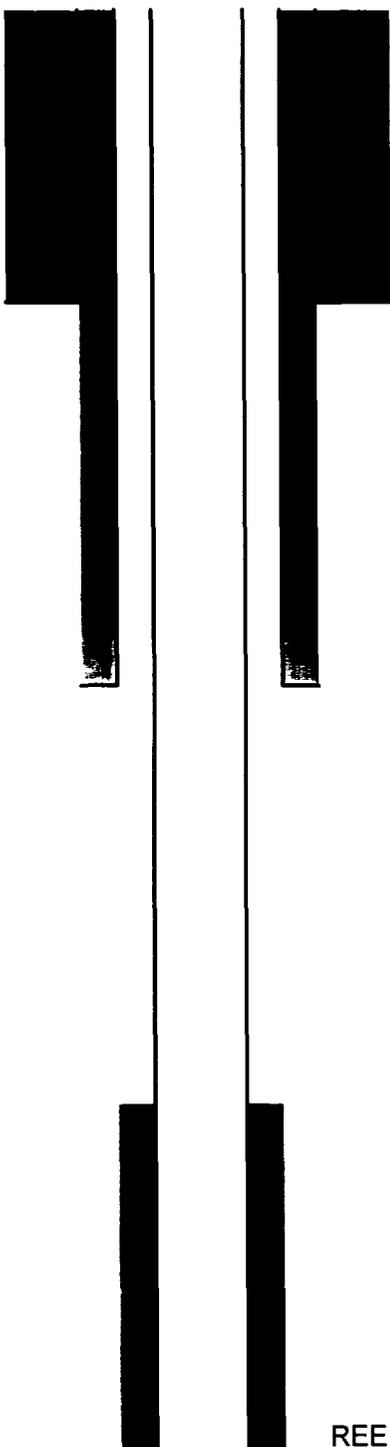
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 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.

COBRA OIL & GAS CORPORATION
T. P. "A" STATE UNIT SWD #1
UNIT M, 810' FSL & 660' FWL (SURFACE)
SECTION 15, T10S-R36E
LEA COUNTY, NEW MEXICO



13 3/8" casing set @ 320' with 350 sacks of cement
Hole size: 17 1/2" - TOC @ surface by circ.

8 5/8" casing set @ 4,200' with 1400 sacks of cement
Hole size: 11" - TOC @ surface by circ.

Total depth - 12,329'. 5 1/2" casing set to
depth of 12,313'. Cement w/230 sacks "H"
Completed open hole from 12,313' - 12,329'

2 7/8" 6.5# L-80 Tubing lined with Freecom's
Ceram-Kote PCF coating set @ 12,300' with a
Baker Model "D" packer lined with PCF coating.

REENTRY OF P&A WELL DRILLED BY RALPH LOWE
IN 1964. WELL P&A 4/79. DRILLED DIRECTIONALLY BY
PETROLEUM DEVELOPMENT CORP. TO A BHL OF 966'
FSL & 120' FEL, SEC. 16, T10S-R36E., 4/98.
SOLD TO COBRA OIL & GAS CORPORATION FOR USE
AS SALT WATER DISPOSAL WELL 4/01.

INJECTION WELL DATA SHEET

Tubing - 2 7/8" 6.5# 8rd EUE coated with Ceram-Kote PCF set in a Baker Model D packer at 12,300'.
Other type of tubing/casing seal if applicable None _____

Other Data:

1. Is this a new well drilled for injection? _____ Yes X No

 If no, for what purpose was the well originally drilled? Oil Production - Producer

2. Name of injection formation Devonian

3. Name of Field or Pool (if applicable) South Crossroads - Devonian

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 names and depths of any over or underlying oil or gas zones (pools) in this area.

None

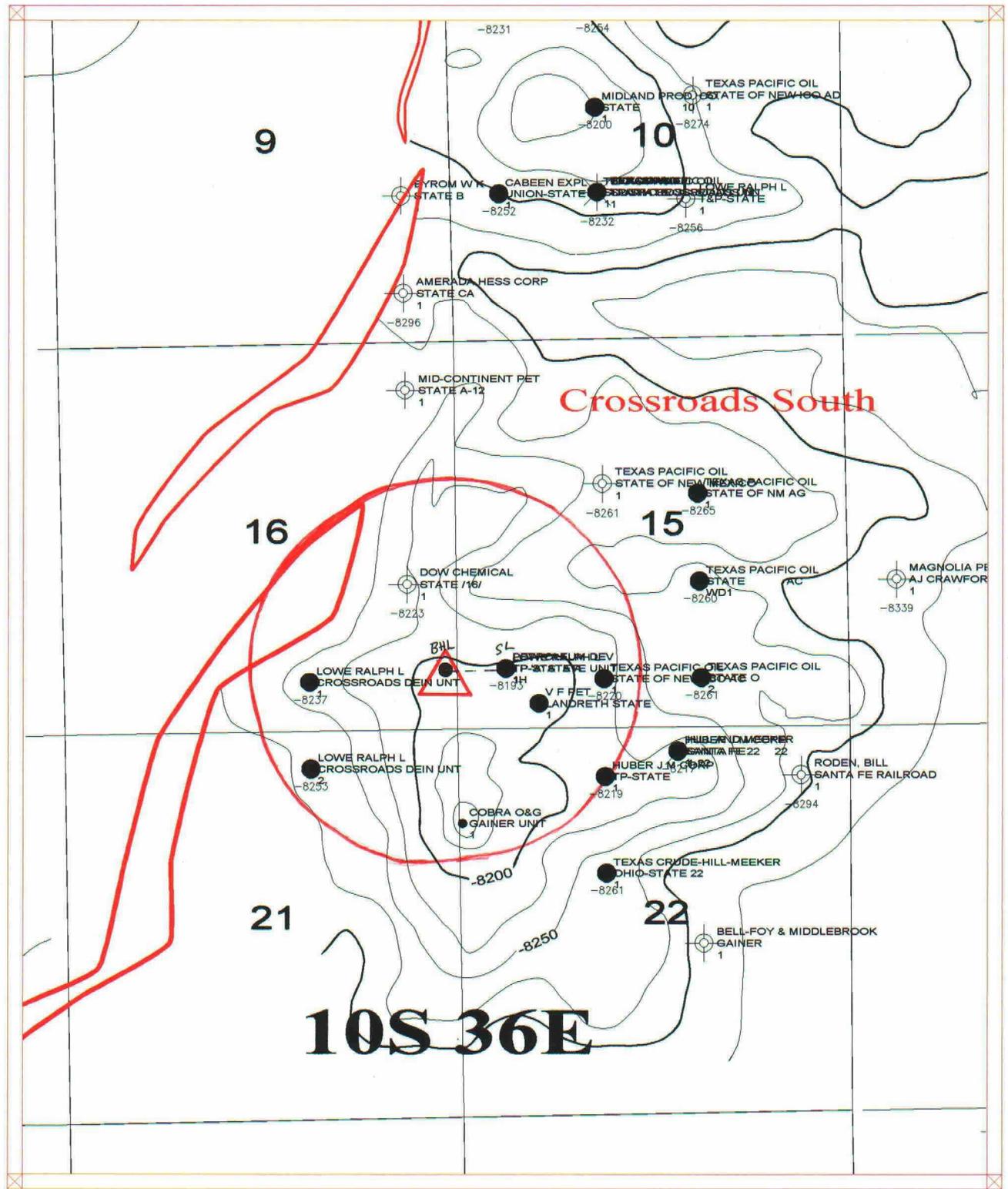
Application for Authorization to Inject

Cobra Oil & Gas Corporation
T. P. "A" State Unit SWD #1
810' FSL & 660' FWL
Unit M, Section 15, T10S-R36E
Lea County, New Mexico

- VI. Attached is a tabulation of all wells of public record that fall within the half (1/2) mile radius of the proposed salt water disposal well, The T. P. "A" State Unit SWD #1. There is one producing well, four plugged wells, and one T A well, along with one abandoned SWD well. 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 T. P. "A" State Unit SWD #1 well was drilled as a Devonian test in 1964 and plugged and abandoned in March 1979. The well was reentered in October 1998 by Petroleum Development Corporation and directional drilled to the Devonian.
- VII. The proposed average daily injection rate for the subject well is 1,500 BWPD with a maximum daily rate of 7,500 BWPD. This will be a closed system with an average pressure of 500 psi/1,000 psi and a maximum pressure of 5,000 psi. Produced Devonian water will be injected in the proposed well. There should be no incompatibility concerns in injection of Devonian water into a former producing Devonian well.
- VIII. The disposal zone will be the Devonian Formation, a dolomite section. The open hole interval from 12,313 feet to 12,329 feet 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 feet. There are no known sources of drinking water underlying the injection interval.
- IX. The well will be stimulated with 1,000-2,000 gallons of 20% NEFE HCL, if required, after a pump-in test.
- X. Log is on file with the Division.
- XI. Attached is an analysis of the water from the nearest water well.
- 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.

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

WELL	LOCATION	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING	TD	STATUS
Cobra Oil & Gas Corp. Gainer Unit #1 Spud 11/97	Section 22, T10S-36E Unit D 1,294' FNL & 39' FWL	13 3/8" @ 398' Cement w/415 sacks TOC @ surface by circ.	8 5/8" @ 4,265' Cement w/1,900 sacks TOC @ surface by circ.	5 1/2" @ 12,213' Cement w/700 sacks TOC @ 9,830' by CBL	12,230'	Producing open hole 12,213' - 12,230' Schematic attached
Cobra Oil & Gas Corp. T. P. "A" State Unit SWD #1 Reentry 10/98	Section 15, T10S-R36E Unit M (Surface) 810' FSL & 660' FWL Section 16, T10S-R36E Unit P (Bottom hole) 966' FSL & 120' FEL	13 3/8" @ 320' Cement w/350 sacks TOC @ surface by circ.	8 5/8" @ 4,200' Cement w/1,400 sacks TOC @ surface by circ.	5 1/2" @ 12,313' Cement w/230 sacks	12,329'	Shut in pending recompletion to SWD Schematic attached
Ralph Lowe Crossroads Devonian Unit #2 Spud 4/1964	Section 21, T10S-R36E Unit B 510' FNL & 1,980' FEL	13 3/8" @ 335' Cement w/350 sacks TOC @ surface by circ.	8 5/8" @ 4,978' Cement w/2,150 sacks TOC @ surface by circ.	5 1/2" @ 12,291' cement w/400 sacks TOC @ 9,810' by Temp.	12,313'	Plugged and abandoned - 4/79 Schematic attached
V-F Petroleum, Inc. Landreth State #1 Spud 7/77	Section 15, T10S-R36E Unit M 330' FSL & 1,100' FWL	12 3/4" @ 398' Cement w/450 sacks TOC @ surface by circ.	8 5/8" @ 4,299' Cement w/925 sacks	5 1/2" @ 12,235' Cement w/1,450' sacks TOC @ 9,830' by CBL	12,239'	No record found of P&A - TA Schematic attached
Ralph Lowe Crossroads Devonian Unit #1 Spud 1/64	Section 16, T10S-R36E Unit O 660' FSL & 1,980' FEL	13 3/8" @ 341' Cement w/340 sacks TOC @ surface by circ.	8 5/8" @ 4,195' Cement w/1,550 sacks TOC @ surface by circ.	5 1/2" @ 12,335' Cement w/100 sacks	12,425'	Well converted to SWD in 1969 Temporarily Abandoned Schematic attached
Texas Pacific Coal & Oil Co. State "AC" #1 Spud 5/62	Section 15, T10S-R36E Unit F 660' FSL & 1,980' FWL	13 3/8" @ 360' Cement w/350 sacks TOC @ surface by circ.	9 5/8" @ 4,270' Cement w/1,600 sacks TOC @ surface by circ.	7" @ 12,253' Cement w/200 sacks	12,341'	Well plugged and abandoned 5/74 Schematic attached
Dow Chemical Company State 16 #1 Spud 5/79	Section 16, T10S-R36E Unit I 1,980' FSL & 660' FEL	13 3/8" @ 398' Cement w/475 sacks TOC @ surface by circ.	8 5/8" @ 4,225' Cement w/1,725 sacks TOC surface by circ	5 1/2" @ 5,050' cement w/300 sacks TOC @ 3,411' - Temp	12,405'	Dry Hole - P&A 8/79 Schematic attached
J. M. Huber Corporation T. P. State "22" #1 Spud 2/62	Section 22, T10S-R36E Unit C 660' FNL & 1,980' FWL	13 3/8" @ 313' Cement w/250 sacks TOC @ surface by circ.	8 5/8" @ 4,208' Cement w/250 sacks	5 1/2" @ 12,249' Cement w/500 sacks	12,260'	Well P&A 5/1969 Schematic attached



Cobra Oil & Gas Corporation		
Gainer Unit Lea County, New Mexico		
j. cartwright	Scale 1:24000.	05/21/2001



South Permian Basin Region
10520 West I-20 East
Odessa, TX 79765
(915) 498-9191
Lab Team Leader - Sheila Hernandez
(915) 495-7240

Water Analysis Report by Baker Petrolite

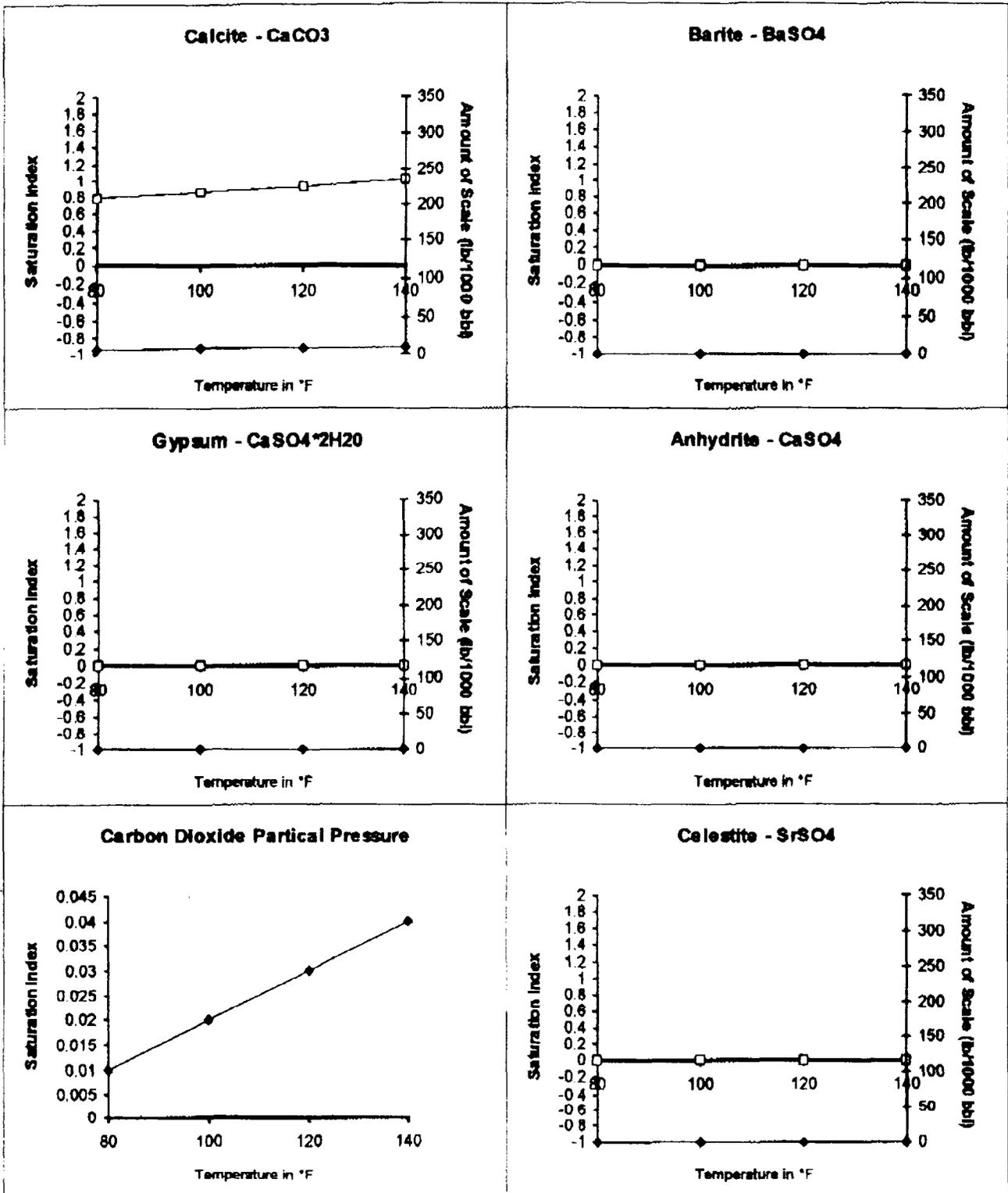
Company:	COBRA OIL AND GAS	Sales RDT:	33112
Region:	PERMIAN BASIN	Account Manager:	RUSSELL KENNEDY (915) 634-6844
Area:	BIG SPRING, TX	Sample #:	165075
Lease/Platform:	KANCHER	Analysis ID #:	18851
Entity (or well #):	WATER WELL	Analysis Cost:	\$40.00
Formation:	UNKNOWN		
Sample Point:	WATER WELL		

Summary		Analysis of Sample 165075 @ 75 °F					
Sampling Date:	4/19/01	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	5/1/01	Chloride:	33.9	0.83	Sodium:	0.0	0.
Analyst:	MARILYN BRANNON	Bicarbonate:	183.9	3.	Magnesium:	19.0	1.66
TDS (mg/l or g/m ³):	291.8	Carbonate:	2.0	0.07	Calcium:	44.8	2.2
Density (g/cm ³ / lb/m ³):	1	Sulfate:			Strontium:	2.0	0.06



Scale Predictions from Baker Petrolite

Analysis of Sample 166076 @ 75 °F for COBRA OIL AND GAS, 6/1/01



RALPH LOWE
CROSSROADS DEVONIAN UNIT #2
UNIT B, 510' FNL & 1,980' FEL
SECTION 21, T10S-R36E
LEA COUNTY, NEW MEXICO



10 sack cement plug from 30' to surface.

13 3/8" casing @ 335' with 350 sacks of cement. Hole size: 17" - TOC @ surface by circ.

35 sack cement plug from 2,200' to 2,080'.

8 5/8" casing set @ 4,978' with 2,150 sacks of cement. Hole size: 11" - TOC @ surface by circ.

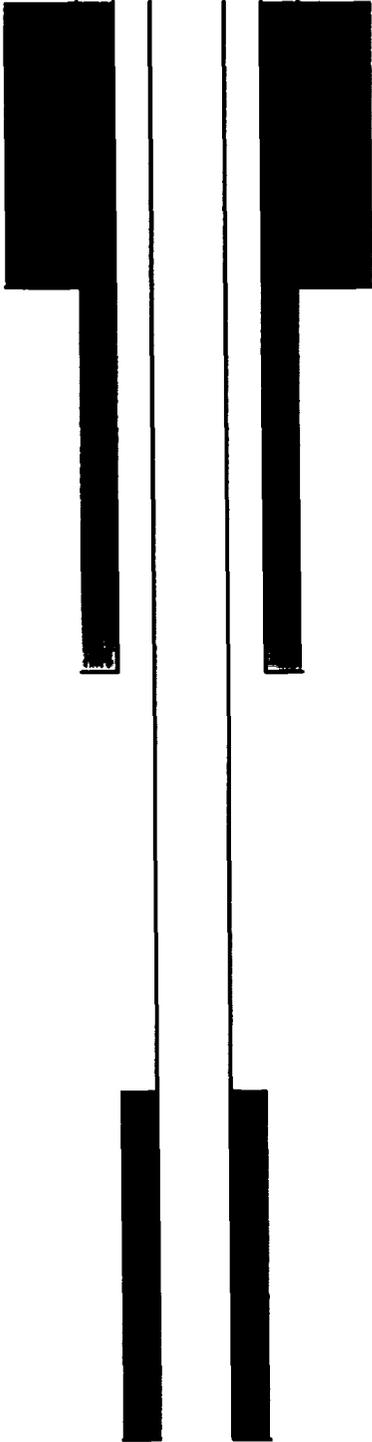
60 sack plug from 5,052' to 4,801'.

Set bridge plug @ 8,900' w/35 sacks of cement.

Total depth - 12,313'. Well plugged and abandoned 4/1979. Hole size: 7 7/8", 5 1/2" casing was set @ 12,291' and cemented with 400 sacks of cement. Top of cement was 9,810' by temperature survey.

WELL ORIGINALLY DRILLED BY MARALO, INC. AS THE C. DEVONIAN #2 WELL IN 4/1964.

COBRA OIL & GAS CORPORATION
GAINER UNIT #1
UNIT D, 1,294' FNL & 39' FWL
SECTION 22, T10S-R36E
LEA COUNTY, NEW MEXICO

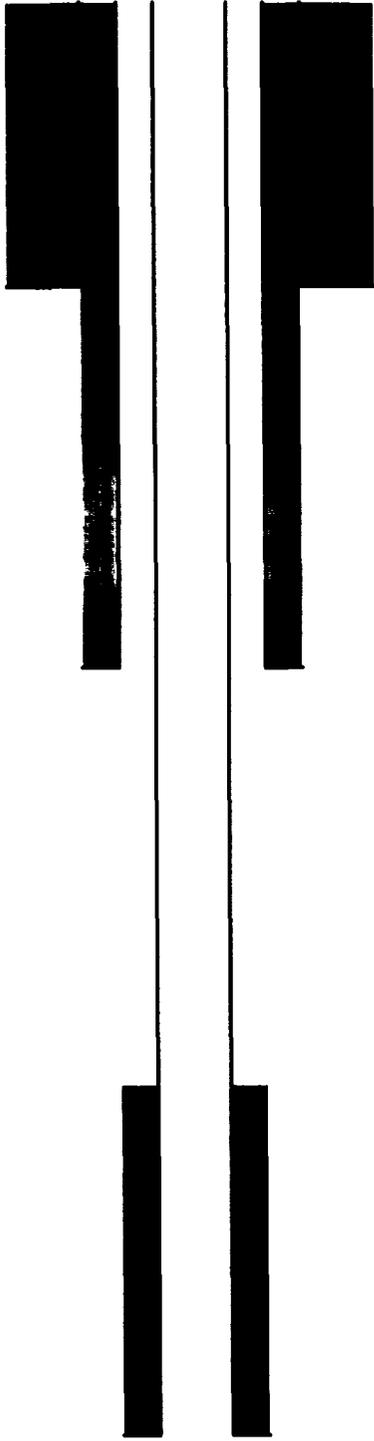


13 3/8" casing set @ 398' with 415 sacks of cement
Hole size: 17 1/2" - TOC @ surface by circ.

8 5/8" casing set @ 4,265' with 1900 sacks of cement
Hole size: 12 1/4" - TOC @ surface by circ.

Total depth - 12,230'. 5 1/2" casing set
@ 12,213' with 700 sacks of cement.
TOC @ 9,830' - CBL.
Completed open hole @ 12,213' - 12,230'.

V-F PETROLEUM, INC.
LANDRETH STATE #1
UNIT M, 330' FSL & 1,100' FWL
SECTION 15, T10S-R36E
LEA COUNTY, NEW MEXICO



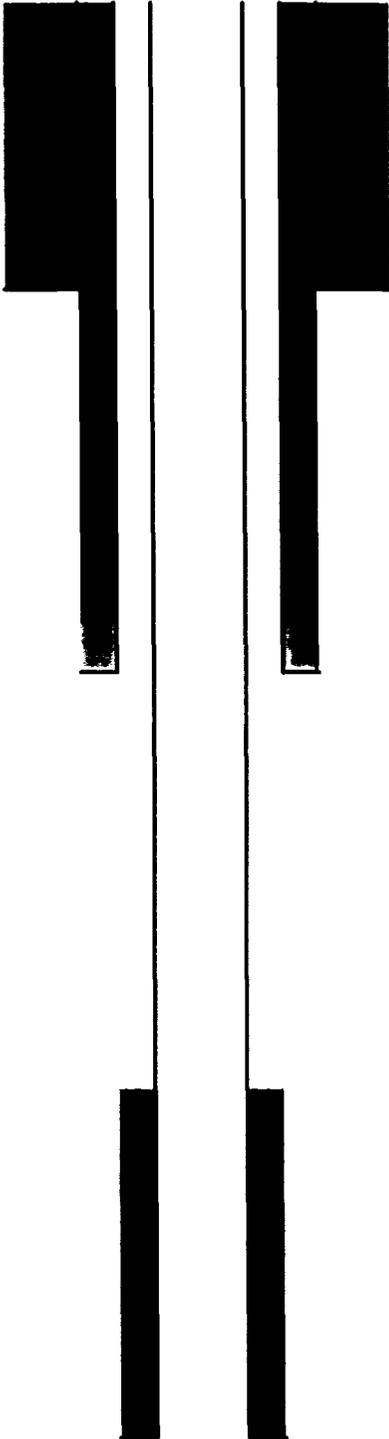
12 3/4" casing set @ 398' with 450 sacks of cement
Hole size: 15" - TOC @ surface by circ.

8 5/8" casing set @ 4,299' with 925 sacks of cement
Hole size: 11".

Total depth - 12,239'. 5 1/2" casing set
@ 12,235' with 1,450 sacks of cement.
TOC @ 9,830' - CBL.
Completed open hole @ 12,235' - 12,239'.

NO RECORD OF P&A FOUND. WELL TA

RALPH LOWE
CROSSROADS DEVONIAN UNIT #1
UNIT O, 660' FSL & 1,980' FEL
SECTION 16, T10S-R36E
LEA COUNTY, NEW MEXICO



13 3/8" casing set @ 341' with 340 sacks of cement
Hole size: 17" - TOC @ surface by circ.

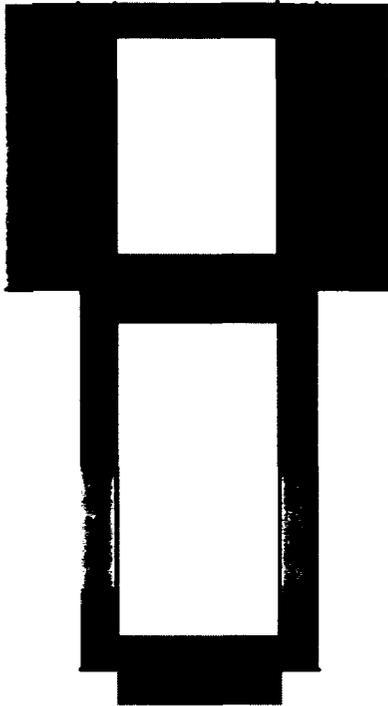
8 5/8" casing set @ 4,195' with 1550 sacks of cement
Hole size: 11" - TOC @ surface by circ.

Original total depth - 12,341'. 5 1/2" casing set
@ 12,335' with 100 sacks of cement.
TOC @ ' -
Completed 12,274' - 12,286'.

Reenter and deepen to 12,425' - 1/69. Run 531'
4" liner, top 11,789' to 12,320'. Cement w/50 sacks.
Convert to SWD in Devonian open-hole, 12,335'
to 12,425'.

** WELL CURRENTLY TA.

TEXAS PACIFIC COAL & OIL COMPANY
STATE "AC" #1
UNIT F, 660' FSL & 1,980' FWL
SECTION 15, T10S-R36E
LEA COUNTY, NEW MEXICO



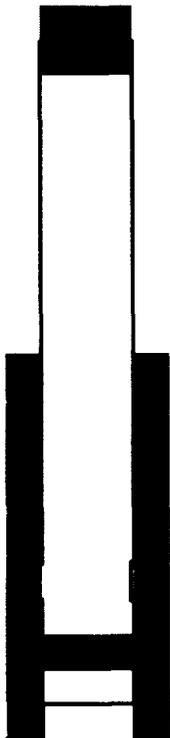
Set 10 sack cement plug at surface.

Set 100' cement plug @ 333'.

13 3/8" casing set @ 360' with 350 sacks of cement
Hole size: 17" - TOC @ surface by circ.

9 5/8" casing set @ 4,270' with 1600 sacks of cement
Hole size: 11" - TOC @ surface by circ.

Set 100' cement plug at 4,259'.

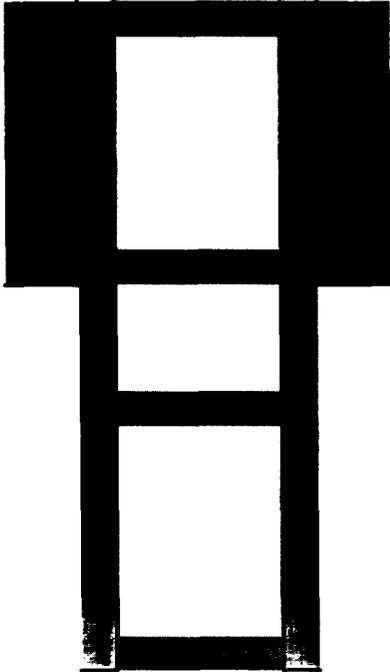


Cut off 7" casing @ 4,500'. Spot 100' cement plug at top of cutoff.

Set CIBP @ 12,000' with 35' cement on top.

Original total depth - 12,341'. 7" casing set
@ 12,253' with 200 sacks of cement.
Completed 12,274' - 12,286'

J. M. HUBER CORPORATION
T. P. STATE "22" #1
UNIT C, 660' FNL & 1,980' FWL
SECTION 22, T10S-R36E
LEA COUNTY, NEW MEXICO



Set 10 sack cement plug @ surface.

Set 25 sack cement plug @ 301'.

13 3/8" casing set @ 313' with 250 sacks of cemen
Hole size: 17 1/2" - TOC @ surface by circ.

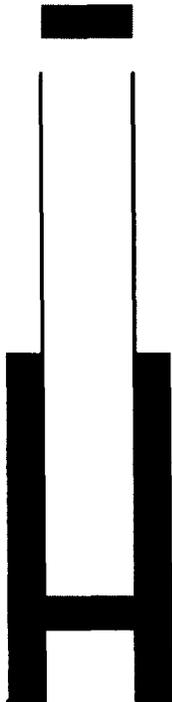
Set 25 sack cement plug @ 747'

8 5/8" casing set @ 4,208' with 250 sacks of cement
Hole size: 11" -

Set 25 sack cement plug @ 4,127'

Shoot off 5 1/2" casing @ 4,900' and pull.

Set 25 sack cement plug @ 4,688'



Total depth - 12,260'. 5 1/2" casing set to
depth of 12,249'. Cement w/500 sacks "H"
Completed open hole from 12,245' - 12,260'
3/1962.

Set 25 sack cement plug @ 12,000'

Plug And Abandon 5/1969.



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May 22, 2001

The State of New Mexico
Oil Conservation Division
2040 Pacheco Street
Santa Fe, New Mexico 87505

RE: T. P. "A" State Unit SWD #1
Section 15, T10S0R36E
Lea County, New Mexico

Gentlemen:

On May 22, 2001, Cobra Oil & Gas Corporation mailed to Headington Royalty, Inc. and Warren Resources, Inc., offset leasehold operators and Tom Gainer, surface owner, copies of the Application For Authorization to Inject for the above captioned proposed disposal well. Cobra Oil & Gas Corporation is also a leasehold operator in the area within a half-mile radius of the proposed disposal well. The only other acreage within the radius of review is open state land.

Should you require additional information, please advise.

Sincerely,

A handwritten signature in black ink that reads "Rory Edwards". The signature is written in a cursive, slightly slanted style.

Rory Edwards
Production Supervisor

RE/bas

Enclosures
Wpfiles/rory/ltr594



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May 22, 2001

Tom Gainer
Box "L"
McDonald, New Mexico 88262

Re: T. P. "A" State Unit SWD #1
Section 15, T10S-R36E
Lea County, New Mexico

Dear Mr. Gainer:

Cobra Oil & Gas Corporation is making application to the New Mexico Oil Conservation Division to utilize the T. P. "A" State Unit SWD #1 for disposal of produced Devonian water from Cobra's Lewis and Gainer wells. In accordance with regulation 701.B(2), as the surface owner of the land on which the well is located, a copy of the disposal application is being furnished to you.

If you should have any objection to this application, you must file the objection or request for a hearing with the Oil Conservation Division, 2040 Pacheco Street, Santa Fe, New Mexico, 87505, within fifteen (15) days from the date this application was mailed to you.

Sincerely Yours,

A handwritten signature in black ink that reads "Rory Edwards".

Rory Edwards
Production Supervisor

RE:bas
Enclosures
LTR596



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May 22, 2001

Headington Royalty, Incorporated
7557 Rambler Road, #1150
Dallas, Texas 75231

Re: T. P. "A" State Unit SWD #1
Section 15, T10S-R36E
Lea County, New Mexico

Dear Gentlemen:

Cobra Oil & Gas Corporation is making application to the New Mexico Oil Conservation Division to utilize the T. P. "A" State Unit SWD #1 for disposal of produced Devonian water from Cobra's Lewis and Gainer wells. In accordance with regulation 701.B(2), as the offset leasehold owner of the land on which the well is located, a copy of the disposal application is being furnished to you.

If you should have any objection to this application, you must file the objection or request for a hearing with the Oil Conservation Division, 2040 Pacheco Street, Santa Fe, New Mexico, 87505, within fifteen (15) days from the date this application was mailed to you.

Sincerely Yours,

A handwritten signature in cursive script that reads "Rory Edwards".

Rory Edwards
Production Supervisor

RE:bas
Enclosures
LTR597



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LAND FAX (940) 716-5210
ACCOUNTING FAX (940) 716-5150
EXPLORATION FAX (940) 716-5170

May 22, 2001

Warren Resources, Incorporated
489 5th Avenue, 32nd Floor
New York, New York 10017

Re: T. P. "A" State Unit SWD #1
Section 15, T10S-R36E
Lea County, New Mexico

Dear Gentlemen:

Cobra Oil & Gas Corporation is making application to the New Mexico Oil Conservation Division to utilize the T. P. "A" State Unit SWD #1 for disposal of produced Devonian water from Cobra's Lewis and Gainer wells. In accordance with regulation 701.B(2), as the offset leasehold owner of the land on which the well is located, a copy of the disposal application is being furnished to you.

If you should have any objection to this application, you must file the objection or request for a hearing with the Oil Conservation Division, 2040 Pacheco Street, Santa Fe, New Mexico, 87505, within fifteen (15) days from the date this application was mailed to you.

Sincerely Yours,

A handwritten signature in cursive script that reads "Rory Edwards".

Rory Edwards
Production Supervisor

RE:bas
Enclosures
LTR598

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance XXX Disposal Storage
Application qualifies for administrative approval? XX Yes No
- II. OPERATOR: COBRA OIL & GAS CORPORATION
ADDRESS: P O BOX 3206; 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: XX Yes No
If yes, give the Division order number authorizing the project _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. 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/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 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
SIGNATURE: *Rory Edwards* DATE: 05/22/01
- * 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. _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the 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 as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 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
T. P. "A" State Unit SWD #1
810' FSL & 660' FWL
Unit M, Section 15, T10S-R36E
Lea County, New Mexico

- VI. Attached is a tabulation of all wells of public record that fall within the half (1/2) mile radius of the proposed salt water disposal well, The T. P. "A" State Unit SWD #1. There is one producing well, four plugged wells, and one T A well, along with one abandoned SWD well. 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 T. P. "A" State Unit SWD #1 well was drilled as a Devonian test in 1964 and plugged and abandoned in March 1979. The well was reentered in October 1998 by Petroleum Development Corporation and directional drilled to the Devonian.
- VII. The proposed average daily injection rate for the subject well is 1,500 BWPD with a maximum daily rate of 7,500 BWPD. This will be a closed system with an average pressure of 500 psi/1,000 psi and a maximum pressure of 5,000 psi. Produced Devonian water will be injected in the proposed well. There should be no incompatibility concerns in injection of Devonian water into a former producing Devonian well.
- VIII. The disposal zone will be the Devonian Formation, a dolomite section. The open hole interval from 12,313 feet to 12,329 feet 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 feet. There are no known sources of drinking water underlying the injection interval.
- IX. The well will be stimulated with 1,000-2,000 gallons of 20% NEFE HCL, if required, after a pump-in test.
- X. Log is on file with the Division.
- XI. Attached is an analysis of the water from the nearest water well.
- 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.



NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

6/12/01

Lori Wrotenbery
Director
Oil Conservation Division

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:
MC _____
DHC _____
NSL _____
NSP _____
SWD X _____
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

Cobra Oil & Gas Corp TPA State # 1-M 15-10s-36e
Operator Lease & Well No. Unit S-T-R Ap: # 30-025-20739

and my recommendations are as follows:

Crossroads Devonian Unit #2 not plugged
Superior #4 Unit

Yours very truly,

Chris Williams
Chris Williams
Supervisor, District 1