

SWD

1/29/04

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LR

PLR040293924

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

RECEIVED

JAN 15 2004 Revised June 10, 2003

FORM C-108

OCD-ARTESIA

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: Secondary Recovery Pressure Maintenance  Disposal Storage  
Application qualifies for administrative approval?  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. Is this an expansion of an existing project? 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 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: ENGINEER

SIGNATURE: *Brian Collins* DATE: 01/07/04

E-MAIL ADDRESS: engineering@marbob.com

\* 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: \_\_\_\_\_



Application for Authorization to Inject  
Grayburg Deep 15 SWD  
Unit C, Section 30-T17S-R30E

30-015-30300  
Wm Soud TANK-MORROW  
Co WACO PHILLIPS

- V. Map is attached.
- VI. No wells within the 1/2 mile radius area of review penetrate the proposed injection zone.
- VII. 1. Proposed average daily rate = 5000 BWPD  
Proposed maximum daily rate = 20,000 BWPD  
2. Proposed maximum injection pressure = 1896 psi (0.2 psi/ft)  
3. System is closed  
4. Source of injection fluid will be San Andres & Yeso produced water. Water analysis is attached  
5. Disposal zone water analysis is attached. There will be no compatibility problems.
- VIII. The injection zone is the Penn from 9480' to 9680' and is composed of dolomite. Underground sources of drinking water will be shallower than 649 feet deep.
- IX. The proposed injection zone will be acidized with 25,000 gallons 20% HCL acid
- X. Logs are filed with the Division. A section of the neutron-density log is attached.
- XI. There are no fresh water wells within 1 mile of the proposed SWD well.
- XII. After examining available geologic and engineering data, there is no evidence 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.

**INJECTION WELL DATA SHEET**

OPERATOR: Marbob Energy Corp

WELL NAME & NUMBER: Grayburg Deep 15 SWD (Formerly Grayburg Deep Unit 15)

WELL LOCATION: 198' FNL 2201' FNL      C      30      17S      30e

FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

**WELLBORE SCHEMATIC****WELL CONSTRUCTION DATA****Surface Casing**

Hole Size: 14<sup>3</sup>/<sub>4</sub>"      Casing Size: 11<sup>3</sup>/<sub>4</sub>" @ 649'

Cemented with: 600      sx. or \_\_\_\_\_      ft<sup>3</sup>

Top of Cement: Surface      Method Determined: Circulated

**Intermediate Casing**

Hole Size: 11"      Casing Size: 8<sup>5</sup>/<sub>8</sub>" @ 4516'

Cemented with: 1175      sx. or \_\_\_\_\_      ft<sup>3</sup>

Top of Cement: Surface      Method Determined: Circulated

**Production Casing**

Hole Size: 7<sup>7</sup>/<sub>8</sub>"      Casing Size: 5<sup>1</sup>/<sub>2</sub>" @ 11400'

Cemented with: 2050      sx. or \_\_\_\_\_      ft<sup>3</sup>

Top of Cement: 4000'      Method Determined: Calculated

Total Depth: 11400'

**Injection Interval**

9480'      feet to      9680'

**(Perforated)** or Open Hole; indicate which

See Attached  
Before & After Schematics

**INJECTION WELL DATA SHEET**

Tubing Size: 2 7/8" Lining Material: Plastic  
 Type of Packer: 10K nickel plated double grip retrievable  
 Packer Setting Depth: 9430' ±  
 Other Type of Tubing/Casing Seal (if applicable): N/A

**Additional Data**

1. Is this a new well drilled for injection?      Yes   X   No  
 If no, for what purpose was the well originally drilled? Oil & Gas
2. Name of the Injection Formation: Penn
3. Name of Field or Pool (if applicable): Sand Tank
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. 11024-11200'  
CIBP + 4 sx. cmt. 11,000', 10703-16', CIBP + 35' cmt. 10660'
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Underlying: Morrow 10,800' ±  
Atoka 10,400' ±  
Overlying: Yeso 4000' ±, San Andres 2800' ±  
Grayburg 2400' ±, Seven Rivers 1600' ±

Well: Grayburg Deep Unit 15

Zero: 19' AGL

Location: 198' N, 2201' W  
C-30-179-30e  
Eddy NAM  
30-DIS-30300

KB: \_\_\_\_\_  
 GL: 3610'

Casing Program:

Size	Wt.	Grade	Conn.	Depth
11 3/4"	42	H40	STC	649'
8 5/8"	32	K55	STC	4516'
5 1/2"	17	L80	LTC	11400'

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Well: Grayburg Deep 15 SWD

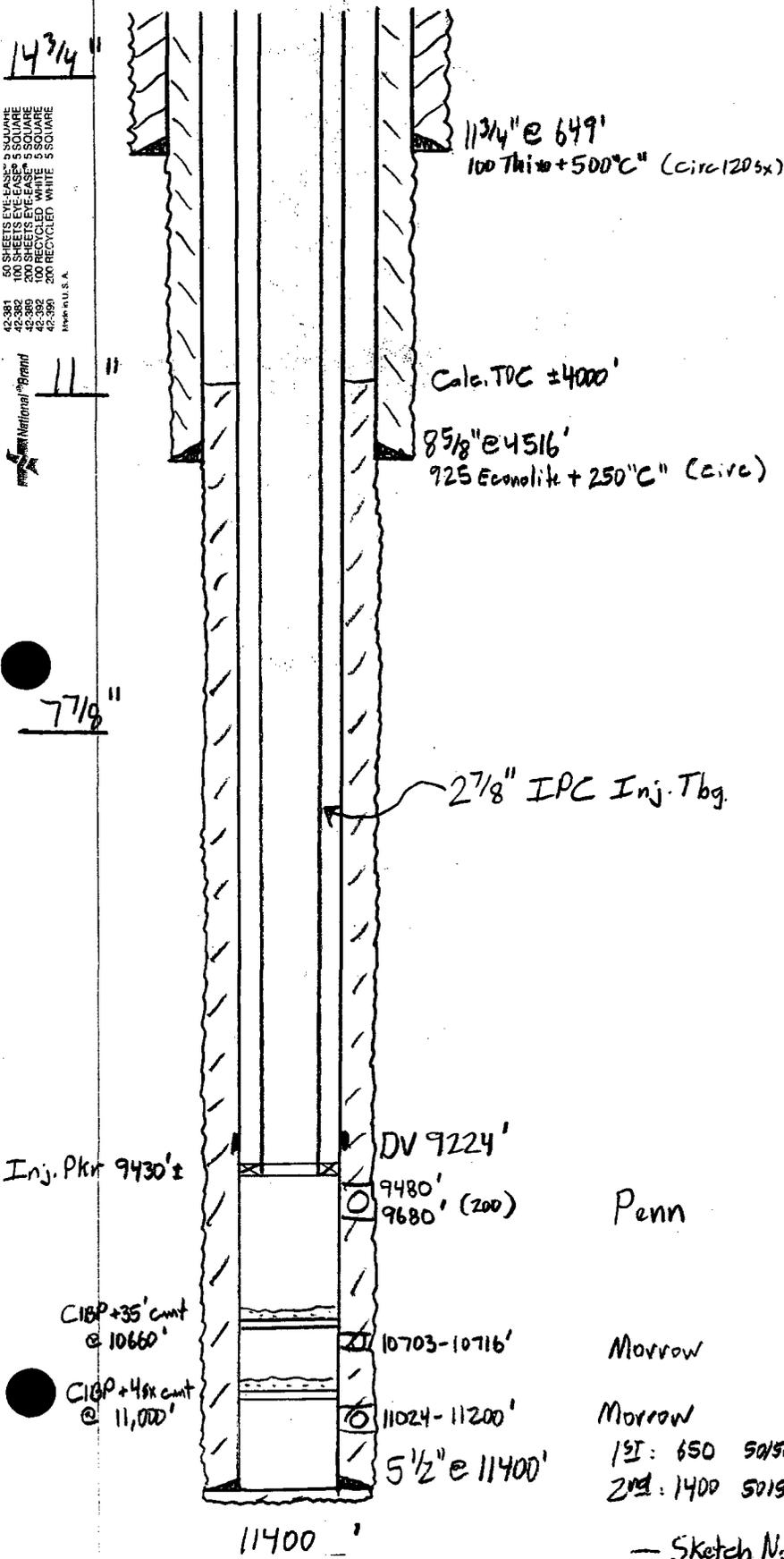
Zero: 19' AGL

Location: 198' N, 2201' W  
C-30-175-30e  
Eddy NAM  
30-015-30300

KB: \_\_\_\_\_  
 GL: 3610'

Casing Program:

Size	Wt.	Grade	Conn.	Depth
11 3/4"	42	H40	STC	649'
8 5/8"	32	K55	STC	4516'
5 1/2"	17	L80	LTC	11400'
2 7/8"	6.5	L80	EVE	9430' ±
Internally Plastic Coated				



After Conversion  
to SWD

Penn  
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 Morrow  
 1st: 650 50150 Ppc (Circ 875x)  
 2nd: 1400 50150 Ppc

50 SHEETS EYE-PAGE, 5 SQUARE  
 100 SHEETS EYE-PAGE, 5 SQUARE  
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HALLIBURTON DIVISION LABORATORY

EXHIBIT A

HALLIBURTON SERVICES

(Section VII, C-108)

ARTESIA DISTRICT

LABORATORY REPORT

No. W167 & W168-93

TO Marbob Energy Corporation

Date May 20, 1993

P. O. Box 304

Artesia, NM 88210

This report is the property of Halliburton Services 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 Services

Submitted by \_\_\_\_\_ Date Rec. \_\_\_\_\_

Well No. \_\_\_\_\_ Depth \_\_\_\_\_ Formation \_\_\_\_\_

Field \_\_\_\_\_ County \_\_\_\_\_ Source \_\_\_\_\_

	<u>Burch Keely</u>	<u>Mary Dodd A</u>
Resistivity .....	<u>0.066 @ 70°</u>	<u>0.060 @ 70°</u>
Specific Gravity ..	<u>1.0979 @ 70°</u>	<u>1.1250 @ 70°</u>
pH .....	<u>7.0</u>	<u>7.0</u>
Calcium .....	<u>4,379</u>	<u>3,332</u>
Magnesium .....	<u>2,081</u>	<u>2,890</u>
Chlorides .....	<u>84,000</u>	<u>111,000</u>
Sulfates .....	<u>1,000</u>	<u>400</u>
Bicarbonates .....	<u>976</u>	<u>1,403</u>
Soluble Iron .....	<u>0</u>	<u>0</u>

Remarks:

*Produced Water Analyses*

*Eric Jacobson*  
Respectfully submitted

Analyst: Eric Jacobson - Operations Engineer

HALLIBURTON SERVICES

NOTICE:

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




**HALLIBURTON**  
**EXCELL**  
**SPECTRAL DENSITY**  
**DUAL SPACED**  
**NEUTRON LOG**  
 37.5

COMPANY: HALLIBURTON MINERALS COMPANY  
 WELL: GRAYBIRD DEEP UNIT WELL NO. 13  
 FIELD: ANDERSON PLAIN  
 COUNTY: EDWARDS  
 STATE: NM  
 LOG NO: 8875-3000  
 DATE: 8/1/55  
 LOGGERS: J. W. ANDERSON

COMPANY: HALLIBURTON  
 WELL: GRAYBIRD DEEP UNIT WELL NO. 13  
 FIELD: ANDERSON PLAIN  
 COUNTY: EDWARDS  
 STATE: NM  
 LOG NO: 8875-3000  
 DATE: 8/1/55  
 LOGGERS: J. W. ANDERSON

Log measurement from 0 to 100 feet  
 Log interval: 10 feet  
 Log scale: 100 feet = 10 inches  
 Log type: 100 feet = 10 inches

Log No.	8875-3000
Well No.	13
Field	ANDERSON PLAIN
County	EDWARDS
State	NM
Log No.	8875-3000
Date	8/1/55
Loggers	J. W. ANDERSON

Form 10-54 (Rev. 1-54)  
 CHANGE IN LOG TYPE OR SCALE CHARACTERISTICS  
 Date / Sample No. \_\_\_\_\_ Type Log \_\_\_\_\_ Scale Down Hole \_\_\_\_\_  
 Depth - Ditch \_\_\_\_\_  
 Type Hole \_\_\_\_\_  
 Date / Vac \_\_\_\_\_  
 Rh Fluid Loss \_\_\_\_\_  
 Source of Sample \_\_\_\_\_  
 Run @ Meas Temp \_\_\_\_\_  
 Run @ Meas Temp \_\_\_\_\_  
 Run @ Meas Temp \_\_\_\_\_  
 Source Run @ Meas Temp \_\_\_\_\_  
 Run @ BHT \_\_\_\_\_  
 Run @ BHT \_\_\_\_\_  
 Run @ BHT \_\_\_\_\_

RESISTIVITY EQUIPMENT DATA  
 Run No. Tool Type & No. Pad Type Log Type Other  
 Run @ BHT \_\_\_\_\_  
 Run @ BHT \_\_\_\_\_  
 Run @ BHT \_\_\_\_\_

EQUIPMENT DATA  

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE						
Serial No.	2001	Serial No.	11212	Serial No.	11212	Serial No.	11212
Model No.	GM-1						
Detector Model No.	1108A						
Type	SCINT	Type	SCINT	Type	SCINT	Type	SCINT
Length	4'	Length	4'	Length	4'	Length	4'
Distance to Source	NA						

LOGGING DATA  

GENERAL		GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	368								
From	4474								
To	4474								
Scale	REC								
Log Type	REC								

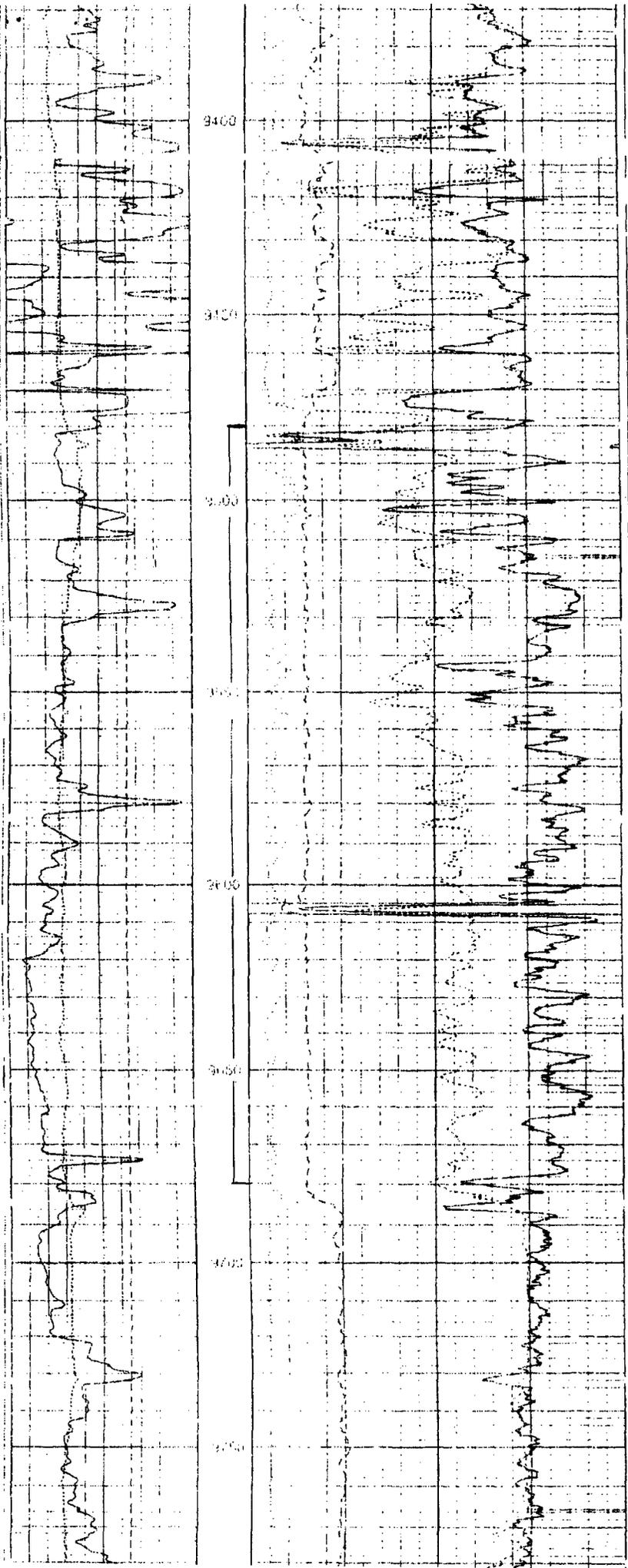
Remarks:  
 TOOL: GM-FACT-155  
 RIG: PATTERSON NO. 18  
 ANNULAR HOLE VOLUME CALCULATED USING 5" CASING

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL PROPERTIES OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, RECOMMENDATIONS, CONVERSIONS OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE SHOULD THERE BE ANY NEGLIGENCE OR FAILURE OF SUCH USER TO TAKE NECESSARY PRECAUTIONS FOR ANY LOSS OR DAMAGE OR EXPENSE RESULTING FROM THE USE THEREOF.

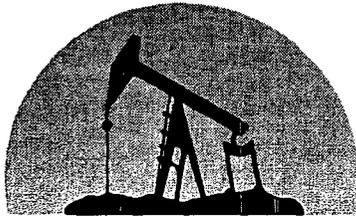
MAIN SECTION 2" = 100'


**HALLIBURTON**  
**EXCELL**

6	CALIPER INCHES	18	HOLES IN FEET	30	NEUTRON LOG	10
4.6	Q SHORT	5	1600 FT	2	GM/CC	10000
4.5	Q LONG	5		5	PE CORR	
6	Q PE	2				
			100			



Penn Dolomite  
SWD Interval  
9480' - 9680'



**marbob**  
energy corporation

January 7, 2004

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

Re: Legal Notice  
Salt Water Disposal Well

Gentlemen:

Enclosed is a legal notice regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for a salt water disposal well.

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

Sincerely,

Brian Collins  
Petroleum Engineer

BC/dlw

enclosure

**ARTESIA DAILY PRESS**  
**LEGAL NOTICES**

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 Grayburg Deep 15 SWD, is located 198' FNL and 2201' FWL, Section 30, Township 17 South, Range 30 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the San Andres & Yeso formations. The disposal water will be injected into the Penn formation at a depth of 9480' - 9680' at a maximum surface pressure of 1896 psi and a maximum rate of 20,000 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  
\_\_\_\_\_, 2004.

AR  
RAN  
1/15/04 in  
Artesia Paper



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**marbob**  
energy corporation

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January 13, 2004

Bureau of Land Management  
2909 W. 2<sup>nd</sup> St.  
Roswell, NM 88201

Re: Application to Inject  
Grayburg Deep 15 SWD  
Township 17 South, Range 30 East, NMPM  
Section 30: 198 FNL and 2201 FWL  
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,

Brian Collins  
Petroleum Engineer

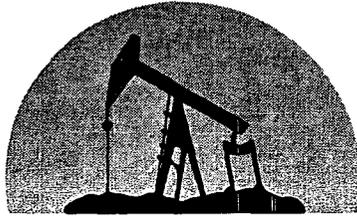
BC/dlw  
enclosure

**Bureau of Land Management has no objection to the proposed disposal well:**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



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**marbob**  
energy corporation

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January 13, 2004

Conoco Phillips  
P. O. Box 2197  
WL3 6106  
Houston, TX 77252-2197

Re: Application to Inject  
Grayburg Deep 15 SWD  
Township 17 South, Range 30 East, NMPM  
Section 30: 198 FNL and 2201 FWL  
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,

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure

**Conoco Phillips has no objection to the proposed disposal well:**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



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**marbob**  
energy corporation

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January 13, 2004

Burnett Oil Co. Inc.  
801 Cherry St., Ste. 1500  
Ft. Worth, TX 76102

Re: Application to Inject  
Grayburg Deep 15 SWD  
Township 17 South, Range 30 East, NMPM  
Section 30: 198 FNL and 2201 FWL  
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,

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure

**Burnett Oil Co. Inc. has no objection to the proposed disposal well:**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_