

4/22/03 10/7/03 DRC LR SWD PLR0326636936
RECEIVED

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108

Revised June 10, 2003

SEP 22 2003

SNJ

APPLICATION FOR AUTHORIZATION TO INJECT
OIL CONSERVATION
DIVISION

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.

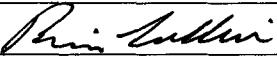
XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

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: PETROLEUM ENGINEER

SIGNATURE: 

DATE: 16 Sept 03

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:

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

C-108 Application for Authorization to Inject
South Malaga L-15-25-28 SWD
(Formerly Myco 15 State No. 1)
1980' FSL 660' FWL
L-15-25S-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.

- V. Map is attached.
- VI. Wellbore schematics are attached for all the wells that penetrate the proposed injection zone within the 1/2 mile radius area of review.
- VII. 1. Proposed average daily injection rate = 500 BWPD
Proposed maximum daily injection rate = 2500 BWPD
- 2. Closed system
- 3. Proposed maximum injection pressure = 553 psi
(0.2 psi/ft. x 2765 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 2765' to 3800'. Any underground water sources will be shallower than 408'.
- 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 are no fresh water wells within one mile of the proposed SWD well.
- XII. 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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101	U.S.	Devon SFS 9-1-2004 93472 14092	Devon SFS 9-1-2004 93472 14092	Devon SFS 9-1-2004 93472 14092	Devon SFS Southwestern Ener 1/2 5-19-98	Devon SFS Southwestern Ener 1/2 5-19-98	DeKob St. Duren TD 2795 (Strata Prod Primero Oper., et al T 165400 Devon SFS Southwestern Ener 1/2 5-19-98	Riverhill Ener LG-5856 T 165400 Devon SFS Southwestern Ener 1/2 5-19-98	Xeric O.E.G. Hill s Bros L.M.C. 8881 11082 Eastland Expl. 4-1-94 5-7-FC	
102	State	Delta Drig. Purdue Farms	Devon SFS 9-1-2004 93472 14092	Devon SFS 9-1-2004 93472 14092	Devon SFS Southwestern Ener 1/2 5-19-98	Devon SFS Southwestern Ener 1/2 5-19-98	DeKob St. Duren TD 2795 (Strata Prod Primero Oper., et al T 165400 Devon SFS Southwestern Ener 1/2 5-19-98	Riverhill Ener LG-5856 T 165400 Devon SFS Southwestern Ener 1/2 5-19-98	Xeric O.E.G. Hill s Bros L.M.C. 8881 11082 Eastland Expl. 4-1-94 5-7-FC	
103	10336	80305 V-7857 E.D. Burgett, Rich Boss, St. 5 TD 2496 D/A 9-25 62	4062 40630 37050 210026 Southwest. Ener. Ye J. Brucel Devon Oil 4-1-2003 VA-1523 15233 18110 D/A 9-17-62	4026 40630 37050 210026 Southwest. Ener. Ye J. Brucel Devon Oil 4-1-2003 VA-1523 15233 18110 D/A 9-17-62						
104	4	SALT DRAW	State	Delta Drig.						
105	1290 6-275	Wright & Davis Pecos Irrig. TO 935	Delta Drig. Purdy Ener. D/A 9-25 62							
106	State	Devon SFS Southwestern Ener 5-19-98	Devon SFS Southwestern Ener 1/2 5-19-98	(Devon SFS) Southwestern Ener 1/2 Santa Fe Ener 1/2 State	Devon SFS Southwestern Ener 1/2 Santa Fe Ener 1/2 State	Union EG Res. 1/2 2-1-83 10412 State	Devon SFS Southwestern Ener 1/2 Santa Fe Ener 1/2 State	Devon SFS Southwestern Ener 1/2 Santa Fe Ener 1/2 State	PA Yates 9-1-95 62199	
107	8	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	
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109	17	Devon SFS Southwestern Ener 5-19-98	Devon SFS Southwestern Ener 5-19-98	Devon SFS Southwestern Ener 1/2 5-19-98	Devon SFS Southwestern Ener 1/2 5-19-98	Devon SFS Southwestern Ener 1/2 Santa Fe Ener 1/2 State	Devon SFS Southwestern Ener 1/2 Santa Fe Ener 1/2 State	Devon SFS Southwestern Ener 1/2 Santa Fe Ener 1/2 State	PA Yates 9-1-95 62199	
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114	State	State	State	State	State	State	State	State	State	
115	16	HCD GLM ST D/A 1500 1500	16	16	16	16	16	16	16	
116	15	HCD GLM ST D/A 1500 1500	15	15	15	15	15	15	15	
117	14	HCD GLM ST D/A 1500 1500	14	14	14	14	14	14	14	
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120	11	HCD GLM ST D/A 1500 1500	11	11	11	11	11	11	11	
121	10	HCD GLM ST D/A 1500 1500	10	10	10	10	10	10	10	
122	9	HCD GLM ST D/A 1500 1500	9	9	9	9	9	9	9	
123	8	HCD GLM ST D/A 1500 1500	8	8	8	8	8	8	8	
124	7	HCD GLM ST D/A 1500 1500	7	7	7	7	7	7	7	
125	6	HCD GLM ST D/A 1500 1500	6	6	6	6	6	6	6	
126	5	HCD GLM ST D/A 1500 1500	5	5	5	5	5	5	5	
127	4	HCD GLM ST D/A 1500 1500	4	4	4	4	4	4	4	
128	3	HCD GLM ST D/A 1500 1500	3	3	3	3	3	3	3	
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130	1	HCD GLM ST D/A 1500 1500	1	1	1	1	1	1	1	
131	0	HCD GLM ST D/A 1500 1500	0	0	0	0	0	0	0	
132	29	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	
133	Devon SFS Southwestern Ener 5-19-98	Devon SFS Southwestern Ener 5-19-98	Devon SFS Southwestern Ener 1/2 5-19-98							
134	State	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	
135	20	LaRue & Muncy Hammond D/A 9-25 62	20	20	20	20	20	20	20	
136	19	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	Delta Drig.	
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170	46	Yates Pet. et al V-1067 1570	Yates Pet. et al V-1067 1570	Yates Pet. et al V-1067 1570	Yates Pet. et al V-1067 1570	Yates Pet. et al V-1067 1570	Yates Pet. et al V-1067 1570	Yates Pet. et al V-1067 1570	Yates Pet. et al V-1067 1570	
171	47	Yates Pet. et al V-1067 1570	Yates Pet. et al V-1067 1570	Yates Pet. et al V-1067 1570	Yates Pet. et al V-106					

INJECTION WELL DATA SHEETOPERATOR: Marbob Energy Corporation30-015-23067WELL NAME & NUMBER: South Malaga L-15-25-28 SWD (formerly Myco 15 State No. 1)WELL LOCATION: 1980' FSL, 660' FWL

FOOTAGE LOCATION

L1525s28e

UNIT LETTER

SECTION

TOWNSHIP

RANGE

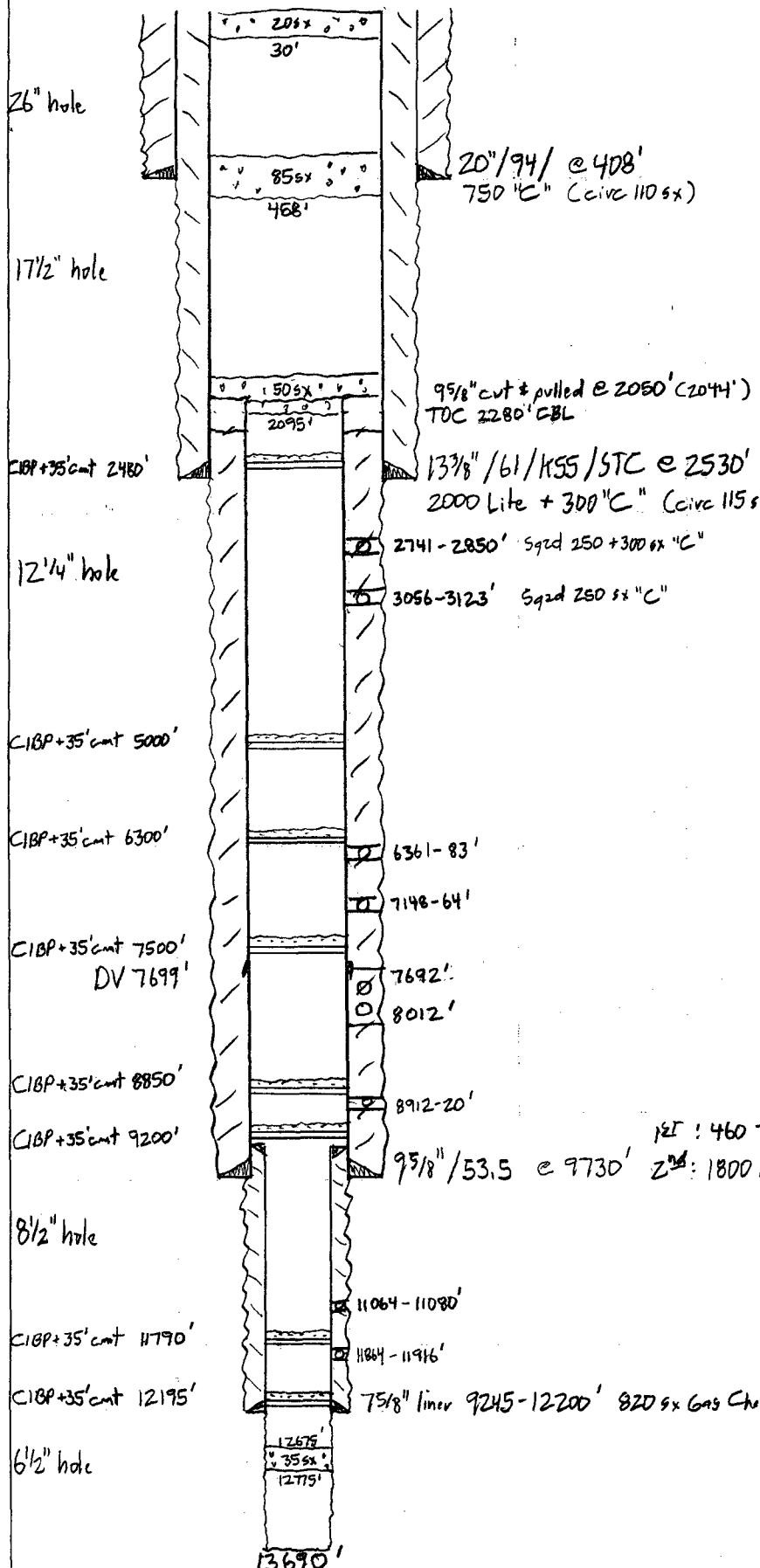
WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 26" Casing Size: 20" @ 408'Cemented with: 750 sx. or - ft³Top of Cement: Surface Method Determined: Circulated
Intermediate CasingSee attached BEFORE and AFTER
wellbore schematicsLinerHole Size: 8 1/2" Csg. Size: 7 5/8" 9245-12200'Cemented with: 820 sxTop of cement: 9245' Method Determined: CirculatedHole Size: 17 1/2" Casing Size: 13 1/8" e 2530'Cemented with: 2300 sx. or - ft³Top of Cement: Surface Method Determined: CirculatedProduction CasingHole Size: 12 1/4" Casing Size: 9 5/8" from 2050-9730'Cemented with: 2660 sx. or - ft³Top of Cement: 2280' Method Determined: CBLTotal Depth: 13690'Injection Interval2765 feet to 3800

(Perforated) or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: Internal Plastic CoatingType of Packer: 10K nickel plated double grip retrievable packerPacker Setting Depth: 2700'Other Type of Tubing/Casing Seal (if applicable): N/AAdditional Data1. Is this a new well drilled for injection? Yes NoIf no, for what purpose was the well originally drilled? Oil & Gas2. Name of the Injection Formation: Delaware Sand3. Name of Field or Pool (if applicable): N/A4. 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. 11864-11916', C1BP+35' cmt e 11790',
11064-11080', C1BP+35' cmt e 9200', 8912-20', C1BP+35' cmt e 8850', 7692-802', C1BP+35' cmt e 7500', 6361-7164',
C1BP+35' cmt e 6300', C1BP+35' cmt e 5000', 2741-3123', 592d 800SX5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying: NoneUnderlying: Delaware 4500-6000'Bone Spring 6000-8000'Atoka 11700-12300'

Myco 15 St. #1
 (Amoco St. GG Com. #1)
 1980' FSL, 660' FBL
 L-15-25s-28e
 Eddy, NM

P&A: 12/94



BEFORE

HBCollins / 10 Sept 03

13-782
 500 SHEETS FILLER 5 SQUARE
 50 SHEETS EYE LEASE 5 SQUARE
 100 SHEETS EYE LEASE 6 SQUARE
 42-381 200 RECYCLED 5 SQUARE
 42-382 200 RECYCLED 6 SQUARE
 42-383 200 RECYCLED 7 SQUARE
 42-384 200 RECYCLED WHITE SQUARE
 Made in U.S.A.

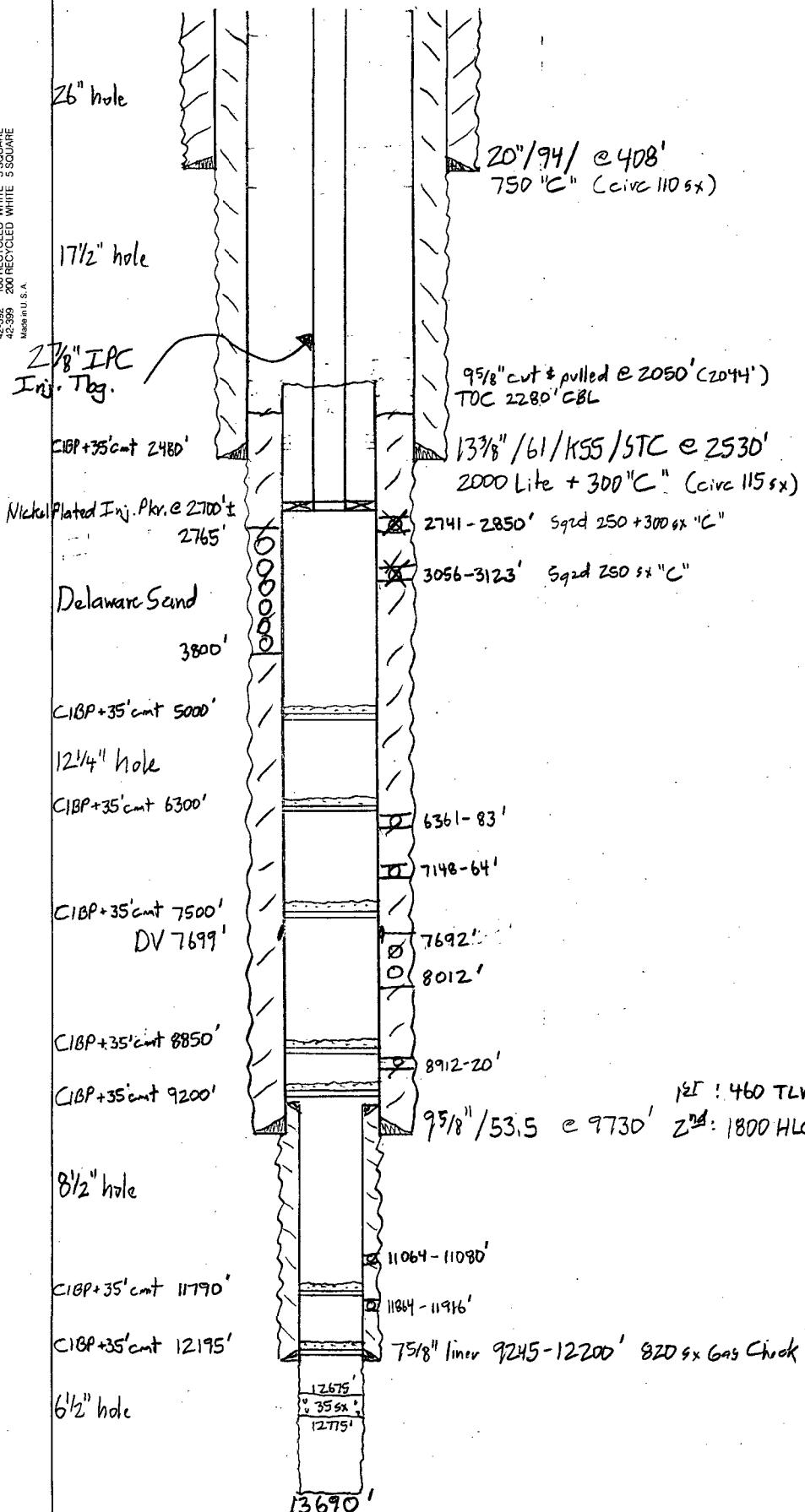
National® Brand

South Malaga L-15-25-28 SWD

1980' FSL, 660' FWL
L - 15 - 25s - Z8e
Eddy, NM

P&A: 12/94.

13-782
12-381
12-382
12-389
12-392
42-399
Made in U.S.A.
500 SHEETS, FILLER, 5 SQUARE
50 SHEETS EYE-LASE, 5 SQUARE
100 SHEETS EYE-LASE, 5 SQUARE
200 SHEETS EYE-LASE, 5 SQUARE
400 SHEETS EYE-LASE, 5 SQUARE
1000 RECYCLED WHILE 5 SQUARE



AFTER

Elev: 2988.3' GL

HBCollins / 10 Sept 03

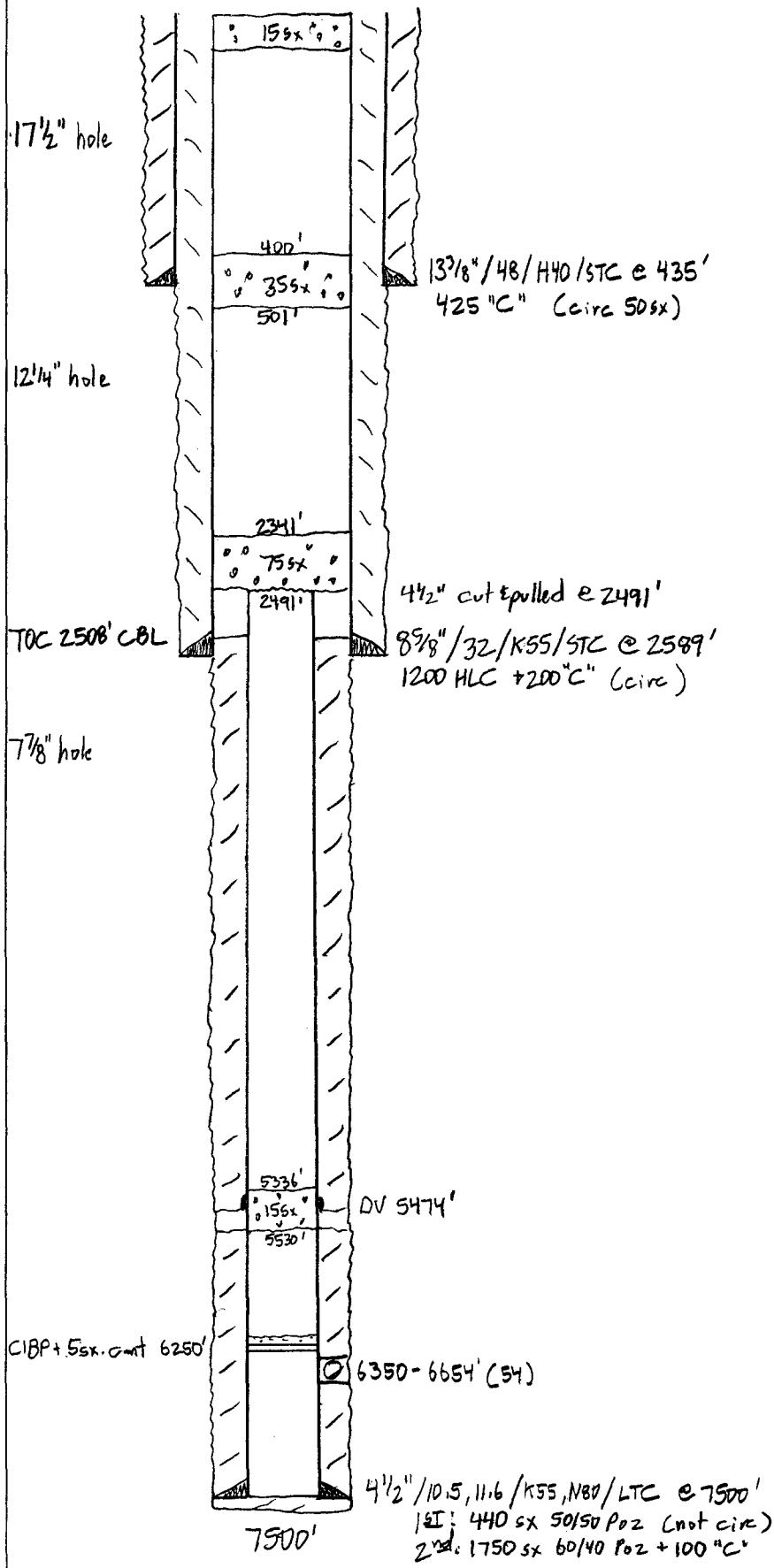
HCW Gulf 16 St. No. 1

1980' FSL, 660' FEL

I-16-25S-28e

Eddy, NM

P&A : 5/82



Elev: 2981' GL

HB Collins / 10 Sept 03

500 SHEETS, FILLER, 5 SQUARE
45-381 50 SHEETS, EYE EASE, 5 SQUARE
45-382 100 SHEETS, EYE EASE, 5 SQUARE
45-383 100 RECYCLED WHITE, 5 SQUARE
45-384 100 RECYCLED WHITE, 5 SQUARE
45-385 200 RECYCLED WHITE, 5 SQUARE
45-386 200 RECYCLED WHITE, 5 SQUARE
National® Brand
Manufactured in U.S.A.



HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. W45-93

TO Hanagan Petroleum

Date February 7, 1993

P. O. Box 1737

Roswell, NM 88201

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. Gehrig #2

Depth 5050'

Formation Delaware

Field Brushy Draw 9-26s-29e County Eddy Source Produced Water

Resistivity052

Specific Gravity .. 1.1856

pH 7.0

Calcium 24,250

Magnesium 9,000

Chlorides 170,000

Sulfates 250

Bicarbonates 350

Soluble Iron + 500

Water Analysis Representative
of Produced Delaware Water
to be Injected and of
Delaware Water in the
Proposed Injection Interval

Remarks:

Art Carrasco

Respectfully submitted

Analyst: Art Carrasco - Technical Advisor

HALLIBURTON SERVICES

NOTICE:

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marbob
energy corporation

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,

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 Myco 15 State #1 is located 1980' FSL and 660' FWL, Section 15, Township 25 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' - 3800' at a maximum surface pressure of 553 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.

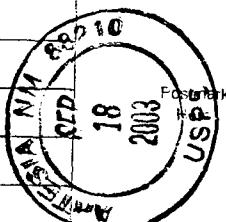
7002 2030 0001 1000 0000 0000 0000 0000

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



C-108 Myco IS St#1

Sent To
Devon SFS Operating
Street, Apt. No.;
or PO Box No. **20 N. Broadway, Ste. 1500**
City, State, ZIP+4
Oklahoma City, OK 73102

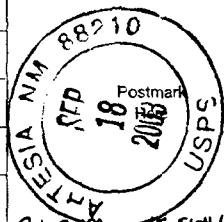
PS Form 3800, June 2002

See Reverse for Instructions

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Postage	\$
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



G-108 Myco IS St#1

Sent To
State Land Office
Street, Apt. No.;
or PO Box No. **310 Old Santa Fe Trail**
City, State, ZIP+4
Santa Fe, NM 87504

PS Form 3800, April 2002

See Reverse for Instructions



marbob
energy corporation

September 16, 2003

State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87504

Re: Application to Inject
Myco 15 State No. 1
Township 25 South, Range 28 East, NMPM
Section 35: 1980' FSL 660' FWL, Unit L
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

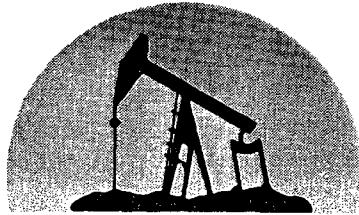
BC/dlw
enclosure

State Land Office has no objection to the proposed disposal well:

By: _____

Title: _____

Date: _____



marbob
energy corporation

September 16, 2003

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

Re: Application to Inject
Myco 15 State No. 1
Township 25 South, Range 28 East, NMMPM
Section 35: 1980' FSL 660' FWL, Unit L
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

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

By: _____

Title: _____

Date: _____