WFX 10/29/98
743

marbob
energy corporation

AOR
TOTAL 3
PRA 54
REPAIR 0

October 6, 1998

Lori Wrotenbery, Director
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

OCT 14 1998

Attention: Mr. Ben Stone

Dear Mr. Stone:

Marbob Energy Corporation respectfully requests an administrative approval without hearing of an expansion of the Burch Keely Waterflood pursuant to Order No. R-7900-A of the New Mexico Oil Conservation Division. The area of expansion is described below:

Township 17 South, Range 30 East, N.M.P.M.
Section 19: S/2SW/4
Section 30: NW/4NW/4; NW/4NE/4

The SW/4SW/4 of Section 19 and the NW/4 of Section 30 is included in the original Waterflood Order. The proposed expansion is necessary for the Burch Keely Unit to obtain maximum hydrocarbon production and to minimize waste over the life of the field.

Attached to this application are all of the necessary exhibits defining and supporting this request. All offset operators have been notified along with the surface owner and grazing lessee. Notice of the proposed waterflood expansion has also been published in the Artesia Daily Press.

Thank you very much for your help in this matter. Should you have any further questions or require any additional information, please contact myself or Raye Miller.

Sincerely,

Martin Joyce

Martin Joyce
Geologist

MJ/mm

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION
APPLICATION FOR ADMINISTRATIVE APPROVAL
MARBOB ENERGY CORPORATION
FOR CONVERSION TO WATER INJECTION FOR WATER FLOODING
THE
BURCH KEELY FEDERAL UNIT EXPANSION PROJECT

TABLE OF CONTENTS

DATE IN	SUSPENSE	ENGINEER	LOGGED BY	TYPE

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVER SHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☒ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Martin R. Sowe	[signature]	Geologist	7/25/08
Print or Type Name	Signature	Title	Date

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [X] 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: Martin Joyce 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? [X] yes [ ] no
If yes, give the Division order number authorizing the project R-7900-A.

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 source 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: Martin Joyce Title Geologist

Signature: Martin Joyce Date: 10/9/88

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe ... to the appropriate ... Division

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, P. O. Box 2088, Santa Fe, New Mexico 87501 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

MARBOB ENERGY CORPORATION

Proposed Injectors: *Burch Keely Unit No. 104*
Burch Keely Unit No. 142
Burch Keely Unit No. 146

III. WELL DATA (existing)

A. See Injection Well Data Sheet

All proposed injectors will be equipped with 2-3/8", 4.7 lb/ft., plastic lined tubing with a Halliburton R-4 or AD-1 plastic coated packer set approximately 50' above the top perforation.

B. Reservoir Data

1. Injection Formation: Grayburg and San Andres (Grayburg-Jackson Field)

2. Proposed Injection Intervals: See Table of Injection Wells

3. Original purpose of 3 proposed injectors: Grayburg and San Andres production

4. Other perforated intervals in 3 proposed injectors: Yeso/Paddock

5. Productive Zones:

Next Higher: Seven Rivers @ ± 1500' & Queen @ ± 1800'
Next Lower: Yeso/Paddock @ ± 4300'

VII. PROPOSED INJECTION OPERATIONS

1. Injection Rate: Average = 250 bwpd/well
Proposed maximum injection rate: 900 psi

2. Injection System: Closed

3. *Injection Pressure: Average = 900 psi*

As per Unit Agreement

Well	*Proposed Max Surf Inj Pressure*
Burch Keely Unit No. 104	*900 psi*
Burch Keely Unit No. 142	*900 psi*
Burch Keely Unit No. 146	*900 psi*

4. *Injection Fluid: Produced water from the Burch Keely Unit.*

Make-up water will be purchased from the City of Carlsbad if needed.

VIII. GEOLOGIC DATA

A. Injection Zone

1. *Name: Grayburg and San Andres*

2. *Lithology: Dolomite w/ anhydrite cement and fine-grained sandstone w/ anhydrite and dolomite cement*

3. *Thickness: ± 600'*

4. *Depth: ± 2950' - ± 3550'*

B. Water Compatibility: Previously filed with the Division

C. Fresh Water Aquifers: None known in this area

IX. PROPOSED STIMULATION PROGRAM

The Grayburg and San Andres formations will be treated with a solution of 15% NEFE HC1 acid and an aromatic solvent. The volume of each treatment will be approximately 75 gallons per foot of pay.

X. LOGGING DATA

Logs for these wells have been filed with the Division

XI. FRESH WATER ANALYSIS

No fresh water wells produce within one mile of any of the 3 proposed injectors.

XIII. PROOF OF NOTICE

A copy of this application has been furnished to the land owner of the land on which the three proposed water injection wells are located and the leasehold operators within the Area of Review. Also, a notice has been published in the Artesia Daily Press, Artesia, New Mexico.

BURCH KEELY WATERFLOOD
Proposed Injection Wells

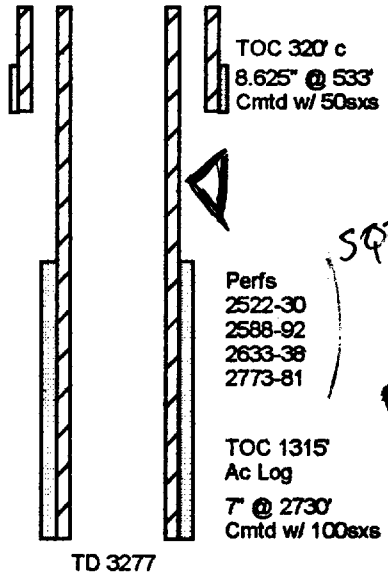
(Attachment C-108 III)

LEASE	WELL#	LOCATION	TD PBTD	TYPE & DAT DRILLED	HOLE SIZE	CASING SZ & WT	SETTING DEPTH	SX CMT	TOC	PACKER DEPTH	PERFS
BKU 30-015-04210 Prop. Injection	104	330 FSL 1650 FWL 19-17S-30E	3277 (3272)	OIL 06-02-41	11 ? 8 1/4 ?	8 1/4 @ 24# 7 @ 20#	533' 2730'	50 100	320' c 1315 ' AC Log	+ 2700	2522-2592 Open Hole
BKU 30-015-04388 Prop. Injection	142	660 FNL 660 FWL 30-17S-30E	4900 (4837)	OIL 02-15-44	Cbl Tool 12 1/4 8 1/4 6 1/4	8 5/8 @ 24# 7 @ 20# 5 1/2 @ 17#	502 2891 4900	50 100 225	340' c 1874' c 1650' temp	+ 2950	4478-4744
BKU 30-015-04394 Prop. Injection	146	660 FNL 1980 FEL 30-17S-30E	3320 (3295)	OIL 05-29-44	Cbl Tool 11 ? NR 8 1/4 ? NR	8 5/8 @ 24# 7 @ 20#	535 2682	50 100	295' ? c 1685' ? c	+ 2650	Open Hole

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Marbob Energy Corporation	Burch Keely Unit		30-015-04210	
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
104	330'FSL and 1650'FWL	19	17S	30E

Schematic



Tabular Data

Surface Casing

Size 8 5/8" Cemented with 50 sx.

TOC 320 feet determined by calculation

Hole size 10"

Intermediate Casing

Size 7" Cemented with 100 sx.

TOC 1315 feet determined by Acoustic Log

Hole size 6 1/4"(reported) (used 8 1/4"for calculation)

Long string

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Total depth 3277 (PBTD 3272)

Injection interval

± 2700 feet to 3272 (OH) feet

(perforated or open-hole, indicate which)

SQZ

Z890
3440

Tubing size 2 3/8" lined with plastic (material) set in a

Halliburton R-4 (brand and model) packer at ± 2940 feet

(or describe any other casing-tubing seal).

Other Data

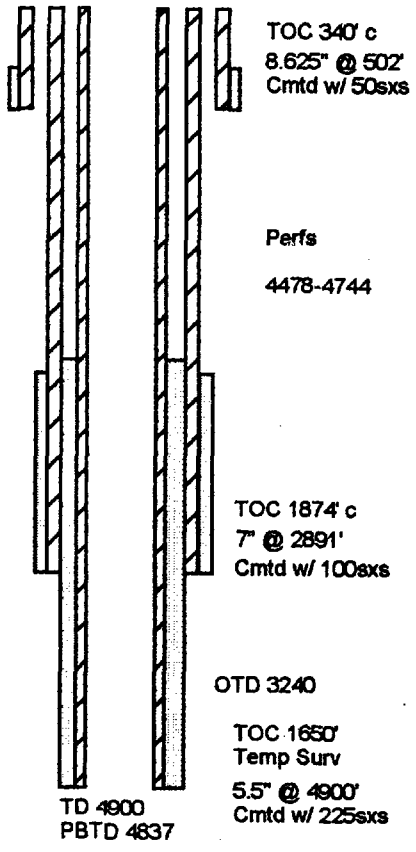
1. Name of the injection formation Grayburg & San Andres
2. Name of Field or Pool (if applicable) Grayburg Jackson
3. Is this a new well drilled for injection? ☐ Yes ☒ No

   If no, for what purpose was the well originally drilled? Oil & Gas Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Propose to attempt to clean out and deepen hole to 3500! Will set 5 1/2" casing to TD and cement w/ 225 sx. Perfed intervals 2522-30, 2588-92, 2633-38, 2773-81.
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Grayburg - ± 2410'
   Yeso/Paddock - 4400'

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Marbob Energy Corporation	Burch Keely Unit		30-015-04388	
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
142	660'FNL and 660'FWL	30	17S	30E

Schematic



Tabular Data

Surface Casing

Size 8 5/8" Cemented with 50 sx.

TOC 340 feet determined by calculation

Hole size 12 1/4"

Intermediate Casing

Size 7" Cemented with 100 sx.

TOC 1874 feet determined by calculation

Hole size 8 1/4"

Long string

Size 5 1/2" Cemented with 225 sx.

TOC 1650 feet determined by Temperature Survey

Hole size 7 7/8"

Total depth 4900 (PBTD 4837)

Injection interval

± 2950 feet to 3550 feet

(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with plastic (material) set in a

Halliburton (brand and model) packer at ± 2975 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg and San Andres

2. Name of Field or Pool (if applicable) Grayburg Jackson

3. Is this a new well drilled for injection? ☐ Yes ☒ No

   If no, for what purpose was the well originally drilled? Oil & Gas

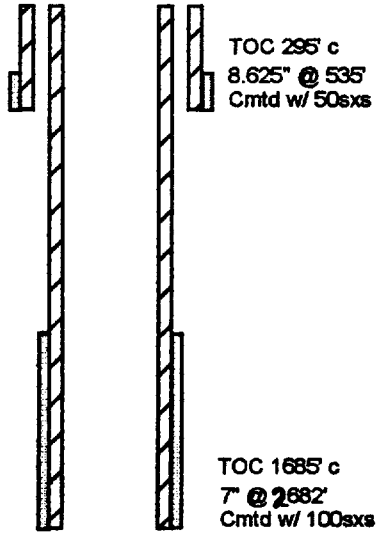
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Perfed 2392-2812 through 7", ran 5.5"casing to 4900' and cemented w/ 225 sx. TOC @ 1650' by temperature survey.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Lovington - 2930
   Yeso/Paddock - 4400

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Marbob Energy Corporation	Burch Keely Unit		30-015-04394	
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
146	660'FNL and 1980'FEL	30	17S	30E

Schematic



Tabular Data

Surface Casing

Size 8 5/8" Cemented with 50 sx.

TOC 295 feet determined by calculation

Hole size 11"? (Not reported)

Intermediate Casing

Size 7" Cemented with 100 sx.

TOC 1685 feet determined by calculation

Hole size 8 1/4" ? (Not reported)

Long string

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Total depth 3320 (PBTD 3295)

Injection interval

+ 2650 feet to 3295 feet

(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with plastic (material) set in a

Halliburton R-4 (brand and model) packer at +3045 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg & San Andres
2. Name of Field or Pool (if applicable) Grayburg Jackson
3. Is this a new well drilled for injection? ☐ Yes ☒ No

   If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No. Propose to attempt to clean out and deepen hole to 3600'. Will set 5 1/2" casing to TD and cement w/ 225 sx.
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Grayburg - 2515' (est.)
   Yeso/Paddock - 4500'

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
LC-028784B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
BURCH KEELY UNIT

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
BURCH KEELY UNIT #104

2. Name of Operator
MARBOB ENERGY CORPORATION

9. API Well No.
30-015-04210

3a. Address
P. O. BOX 227, ARTESIA, NM 88210

3b. Phone No. *(include area code)*
505-748-3303

10. Field and Pool, or Exploratory Area
GRBG JACKSON SR Q GRBG SA

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
330 FSL 1650 FWL SEC. 19-T17S-R30E UNIT N

11. County or Parish, State
EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☒ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

MARBOB ENERGY PROPOSES TO ATTEMPT TO CLEAN WELL OUT AND DEEPEN TO 4000', SET 5 1/2" CSG TO TD & CMT W/250 SXS, SELECTIVELY PERFORATE 2940-3440', RUN 2 3/8" PC TBG TO ± 2930', SET HALLIBURTON R-4 PKR @ ± 2900', RUN 30 MIN. LEAK OFF TEST, COMMENCE INJECTION.

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*	Title
RHONDA NELSON	PRODUCTION ANALYST
Signature	Date
	10/26/98

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
LC-028784B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
BURCH KEELY UNIT

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
BURCH KEELY UNIT #142

2. Name of Operator
MARBOB ENERGY CORPORATION

9. API Well No.
30-015-04388

3a. Address
P. O. BOX 227, ARTESIA, NM 88210

3b. Phone No. *(include area code)*
505-748-3303

10. Field and Pool, or Exploratory Area
GRBG JACKSON SR Q GRBG SA

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
660 FNL 660 FWL SEC. 30-T17S-R30E UNIT D

11. County or Parish, State
EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☒ Convert to Injection	☐ Plug Back	☒ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

MARBOB ENERGY PROPOSES TO SET CIBP @ 4324', PMP 5 SX CMT ON TOP OF CIBP, SELECTIVELY PERFORATE SAN ANDRES FORMATION 3110-3500', RUN 2 3/8" PC TBG TO 3140' +-, SET HALLIBURTON RTTS PKR @ 3100', COMMENCE WATERFLOOD INJECTION.

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
RHONDA NELSON

Title
PRODUCTION ANALYST

Signature

Date
10/26/98

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

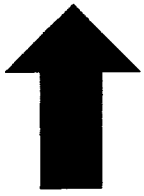
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Insert

Color Page/Photo

Here



LTR

Simplex mode

AREA OF REVIEW WELL DATA

Attachment C-108 VI

LEASE	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SZ & WT	SETTING DEPTH	SX CMT	TOC	PERFS
BEESON 30-015-22453	1	330 FNL 330 FWL 29-17S-30E	3446' (3432')	OIL 04-15-78	12 1/4 7 7/8	8 5/8 @ 24# 5 1/2 @ 14#	480 3446	300 750	CIRC	1698-1735 3058-3398
GRAYBURG 30-015-03083	5	330 FNL 660 FEL 25-17S-29E	7225' (6828')	OIL AND GAS 07-15-60	12 1/4 7 7/8	8 5/8 @ 24# 5 1/2 @ 14#	1404 6838	525 650	CIRC CIRC	6655-6679
BURCH A 30-015-04207	23	2565 FNL 995 FWL 19-17S-30E	3150'	OIL 06-08-49 Plugged	Cbl Tool 11 ? NR 8 1/4 ? NR	8 5/8 @ 24# 7" @ 20#	455 3183	75 100	316' c 1876' c	Plugged
BKU 30-015-04194	92	1980 FNL 660 FWL 19-17S-30E	3142' (3137')	OIL 06-27-29 Plugged	Cbl Tool ?? NR 11 ? NR 8 1/4 ? NR	12 1/2 @ 50# 10 3/4 @ 40# 6 5/8 @ 24#	368 900 2865	15 20 ?		Plugged
BKU 30-015-04205	93	2310 FSL 1650 FWL 19-17S-30E	3160'	OIL 12-20-39 Plugged	Cbl Tool 11 ? NR 8 1/4 ? NR	8 1/4 @ 24# 7 @ 20#	478 2712	50 100	60' c 1230' c	Plugged
BKU 30-015-22092	94 WI	1650 FSL 2970 FEL 19-17S-30E	3600'	OIL 02-28-78	12 1/4 7 7/8	8 5/8 @ 20# 5 1/2 @ 15.5#	478 3600	300 575	CIRC 1550' c	2969-3208
BKU 30-015-04204	95 WI	2310 FSL 2310 FEL 19-17S-30E	3612' (3260')	OIL 06-16-39	Cbl Tool 11 8 1/4 6 1/4 ? NR	8 1/4 @ 32# 7 @ 20# 4 1/2 @ 9.5#	478 2706 2682-3610	50 100 220	257' c 1690' c 2682' c	2956-3304
BKU 30-015-04193	96	1650 FSL 1650 FEL 19-17S-30E	3300' (3247')	OIL 01/25/47	11 8 1/4	8 5/8 @ 24# 7 @ 20#	509 2560	50 100	1530' Ac L	1611-1704 2560-3300

AREA OF REVIEW WELL DATA

Attachment C-108 VI

LEASE	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SZ & WT	SETTING DEPTH	SX CMT	TOC	PERFS
BKU 30-015-04213	100 WI	660 FSL 660 FEL 19-17S-30E	3287'	OIL 01-14-43	11 7 7/8	8 5/8 @ 24# 7 @ 20#	510 2630	50 100	358' c 1345' c	3250-3275
BKU 30-015-20794	101 WI	330 FSL 1650 FEL 19-17S-30E	3450' (3445')	OIL 05-05-73	12 1/4 7 7/8	8 5/8 @ 20# 4 1/2 @ 9.5#	511 3450	100 300	350' c 2465' c	3148-3326
BKU 30-015-04212	102 WI	990 FSL 2310 FEL 19-17S-30E	3246'	OIL 09-02-41	12 1/4 7 7/8	8 5/8 @ 24# 7 @ 20# 4 1/2 @ 11.6#	560 2710 2700	50 100 725	398' 1414' circ	2701-3246
BKU 30-015-04206	103	990 FSL 1650 FWL 19-17S-30E	3605' (3600')	OIL 01-01-47	11 8 1/4 6 1/2	8 5/8 @ 24# 7 @ 20# 4 1/2 @ 9.5#	464 2942 2906-3605	75 110 140	105' c 1825' c 2906' c	2504-3247
BKU 30-015-04210 Prop. Injection	104	330 FSL 1650 FWL 19-17S-30E	3277' (3272')	OIL 06-02-41	11 ? 8 1/4 ?	8 1/4 @ 24# 7 @ 20#	533 2730	50 100	320' c 1315' Ac Log	2522-2592 2633-2781 Open Hole
BKU 30-015-04211	105 WI	660 FSL 660 FWL 19-17S-30E	3599' (3505')	WIW 04-29-42	10 8 1/4 6 1/4	8 5/8 @ 24# 7 @ 20# 4 1/2 @ 9.5#	508 2773 2750-3599	100 100 185	circ 1163' c 2737' c	2511-2517 2591-2605 2798-3558
BKU 30-015-26890	106	1210 FSL 330 FEL 24-17S-20E	3650' (3645')	OIL 03-01-97	12 1/4 7 7/8	8 5/8 @ 24# 5 1/2 @ 15.5#	375 3649	350 1100	sfce sfce	2908 3640
BKU 30-015-03076	107	660 FSL 660 FEL 24-17S-29E	3628' (3165')	OIL 11-16-42	Cbl Tool 10 3/4 8 1/4 6 1/4	8 1/4 @ 24# 7 @ 20# 4 1/2 @ 9.5#	435 2755 2660-3628	50 100 150	215' c 1740' c 2660' c	2437-3535

AREA OF REVIEW WELL DATA

Attachment C-108 VI

LEASE	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SZ & WT	SETTING DEPTH	SX CMT	TOC	PERFS
BKU 30-015-25668	108	330 FSL 660 FEL 24-17S-29E	6900' (6273')	OIL 11-26-86	17 1/2 12 1/4 7 7/8	13 3/8 @ 54# 8 5/8 @ 24# 5 1/2 @ 15.5#	372 3500 6900	500 800 550	CIRC CIRC 3320'	2436-3554
BKU 30-015-03102	139	25 FNL 1295 FEL 25-17S-29E	3602'	OIL 09-23-49	11 8 1/4 6 1/4	8 5/8 @ 28# 7 @ 20# 4 1/2 @ 9.5#	445 2951 2837-3602	60 100 120	158' c 1935' c 2837'	2508-3567
BKU 30-015-03089	140 WI	660 FNL 660 FEL 25-17S-29E	3605' (3578')	WI 08-12-43	11 7 5/8 6 1/4	8 1/4 @ 24# 7 @ 20# 4 1/2 @ lnr 9.5#	459 2848 2815-3605	50 100 125	238' c 1300' c 2815'	2457-3565
BKU 30-015-03110	141	25 FNL 25 FEL 25-17S-29E	3238'	OIL 02-07-52	Cbl Tool 11 ? NR 8 1/4 ? NR	8 5/8 @ 24# 7 @ 20#	484 2908	75 100	125' c 1890' c	2447-2656 2908-3238
BKU 30-015-04388 Prop. Injection	142	660 FNL 660 FWL 30-17S-30E	4900' (4837')	OIL 02-15-44	12 1/4 8 1/4 6 1/4	8 5/8 @ 24# 7 @ 20# 5 1/2 @ 17#	502 2891 4900	50 100 225	340' c 1874' c 1650' T°	4478-4744
BKU 30-015-04392	143	330 FNL 1260 FWL 30-17S-30E	3263'	OIL 08-19-49	Cbl Tool 11 ? NR 8 1/4 ? NR	8 5/8 @ 24# 7 @ 20#	506 3013	75 100	150' c 1995' c	2548-2989 3013-3263
BKU 30-015-04389	144 WI	660 FNL 1980 FWL 30-17S-30E	3246'	WIW 04-20-44	11 7 7/8	8 5/8 @ 24# 7 @ 20#	508 2911	50 100	311' c 1502' c	2572-2690 2911-3246
BKU 30-015-21659	145	1295 FNL 2665 FEL 30-17S-30E	3295'	OIL 02-13-76	12 1/4 7 7/8	8 5/8 @ 24# 5 1/2 @ 14#	504 3295	100 550	260' c 1365' c	1702-1709 2641-2762 3020-3247

AREA OF REVIEW WELL DATA

Attachment C-108 VI

LEASE	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SZ & WT	SETTING DEPTH	SX CMT	TOC	PERFS
BKU 30-015-04394 Prop. Injection	146	660 FNL 1980 FEL 30-17S-30E	3320' (3295')	OIL 05-29-44	Cbl Tool 11 ? NR 8 1/4 ? NR	8 5/8 @ 24# 7 @ 20#	535 2682	50 100	296' c 1685' c	Open Hole
BKU 30-015-23167	147	1295 FNL 1295 FEL 30-17S-30E	3390'	OIL 12-17-80	12 1/4 7 7/8	8 5/8 @ 20# 5 1/2 @ 15.5#	506 3390	357 850	sfce sfce	2662-2790 2928-3072 3211-3293
BKU 30-015-20342	148	660 FNL 660 FEL 30-17S-30E	3355'	OIL 02-06-71	12 1/4 7 7/8	8 5/8 @ 20# 5 1/2 @ 15.5#	485 3357	100 225	325' c 2503' c	2758-2771 3039-3340
BKU 30--015-20645	149	1980 FNL 660 FEL 30-17S-30E	3355' (3344')	OIL 06-20-72	12 1/4 7 7/8	8 5/8 @ 20# 4 1/2 @ 9.5#	499 3350	100 500	340' c 1450' c	2670-2705 3102-3110 3324-3330
BKU 30-015-20402	150	1980 FNL 1980 FEL 30-17S-30E	3475' (3649')	OIL 04-17-71	12 1/4 7 7/8	8 5/8 @ 20# 4 1/2 @ 9.5#	515 3475	100 400	355' c 2165' c	2680-2811 3076-3088 3304-3446
BKU 30-015-04391	151	1980 FNL 1980 FWL 30-17S-30E	3310'	OIL 07-09-45	Cbl Tool 11 ? NR 8 1/4 ? NR	8 5/8 24# 7 20#	522 3195	50 100	283' c 2180' c	2610-2648 3195-3310
BKU 30-015-04393	152	1345 FNL 1260 FWL 30-17S-30E	3316'	OIL-T/A 12-14-49	11 8 1/4	8 5/8 @ 24# 7 @ 23#	507 3061	50 100	206' c 2045' c	2588-2596 2708-2716 2915-2984 3061-3316
BKU 30-015-04390	153	1980 FNL 660 FWL 30-17S-30E	3254'	OIL 05-24-44	Cbl Tool 11 ? NR 8 1/4 ? NR	8 5/8 @ 24# 7 @ 20#	523 2925	50 100	285' c 1910' c	2558-2850 2925-3254

AREA OF REVIEW WELL DATA

Attachment C-108 VI

LEASE	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SZ & WT	SETTING DEPTH	SX CMT	TOC	PERFS
BKU 30-015-04386	154	1345 FNL 25 FWL 30-17S-30S	3255'	OIL 05-10-50	Cbl Tool 10 8 1/4 ? NR	8 5/8 28# 7 20#	509 2994	50 100	145' c 1975' c	2526-2668 3077-3218
BKU 30-015-22582	155	2615 FNL 125 FEL 25-17S-29E	3410'	OIL 06-05-78	12 1/4 7 7/8	8 5/8 @ 20# 5 1/2 @ 15.5#	497 3407	335 550	sfce 1320' c	1650-3336
BKU 30-015-03093	156	1980 FNL 660 FEL 27-17S-29E	3242'	OIL 05-28-44	Cbl Tool 11 ? NR 8 1/4 ? NR	8 5/8 @ 24# 7 @ 20#	482 2912	50 100	245' c 1895' c	2546-2564 2684-2718 2912-3242
BKU 30-015-03103	157	1345 FNL 1295 FEL 25-17S-29E	3239'	OIL 12/19/49	Cbl Tool 12 1/2 8 1/4 ? NR	8 5/8 @ 24# 7 @ 23#	465 2951	50 100	225' c 1935' c	2553-2559 2625-2631 2947-3239
BKU 30-015-22094	189	2615 FSL 2615 FEL 30-17S-30E	3390' (2677')	OIL 07-31-77	12 1/4 7 7/8	8 5/8 @ 20# 5 1/2 @ 15.5#	497 3385	125 550	850' c 1295' c	1721-3304
BKU 30-015-20662	190	1980 FSL 1980 FEL 30-17S-30E	3425' (3419')	OIL 06-03-72	12 1/4 7 7/8	8 5/8 @ 20# 4 1/2 @ 9.5#	505 3425	100 450	345' c 1950' c	2734-3405
BKU 30-015-27769	220	1430 FSL 660 FWL 19-17S-30E	4600' (4573')	OIL 04/05/94	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	403 4582	250 1250	CIRC CIRC	4219-4530' 2954-3663' 2451-2693'
BKU 30-015-28155	229	650 FSL 2310 FEL 19-17S-30E	4800' (4778')	OIL 06-07-96	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	399 4784	100 1875	CIRC CIRC	4264-4553' 3423-3698' 3044-3220' 2492-2724'

AREA OF REVIEW WELL DATA

Attachment C-108 VI

LEASE	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SZ & WT	SETTING DEPTH	SX CMT	TOC	PERFS
BKU 30-015-28145	231	660 FSL 1240 FWL 19-17S-30E	4805' (4754')	05-05-96	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	391 4797	350 2300	CIRC CIRC	4306-4656' 3436-3685' 2980-3237'
BKU 30-015-28584	235	1760 FSL 330 FEL 24-17S-29E	4650' (4597')	OIL 07-24-96	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	417 4615	350 1950	CIRC CIRC	4170-4459' 3384-3849' 2814-3123' 2412-2696'
BKU RE-ENTRY 30-015-20281	241	330 FNL 1980 FWL 30-17S-30E	6900' (4993')	OIL 08-24-94	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	1436 5001	400 805	CIRC CIRC	 4526-4795'
BKU 30-015-28156	245	650 FSL 1650 FWL 19-17S-30E	4775' (4709')	OIL 04-11-95	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	414 4762	350 1580	CIRC CIRC	4243-4631' 3030-3203' 2416-2750'
BKU 30-015-28330	246	2310 FSL 2280 FWL 19-17S-30E	4715' (4708')	OIL 09-21-95	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	412 4712	350 1500	CIRC CIRC	4210-4581' 3440-3879' 3004-3172' 2462-2782'
BKU 30-015-28335	247	2310 FSL 1130 FWL 19-17S-30E	4715' (4703')	OIL 09-09-95	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	375 4715	350 1625	CIRC CIRC CIRC	4293-4633' 2946-3188' 2466-2782'
BKU 30-015-28144	250	660 FSL 2310 FWL 19-17S-30E	4831' (4796')	OIL 10-04-95	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	410 4815	350 1800	CIRC CIRC	4324-4685' 3572-3776' 3098-3277' 2532-2865'
BKU 30-015-28887	256	25 FSL 760 FWL 19-17S-30E	4845' (4831')	OIL 09-03-96	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	416 4845	350 1975	CIRC CIRC	4316-4661' 3466-3732' 3079-3235' 2509-2745'

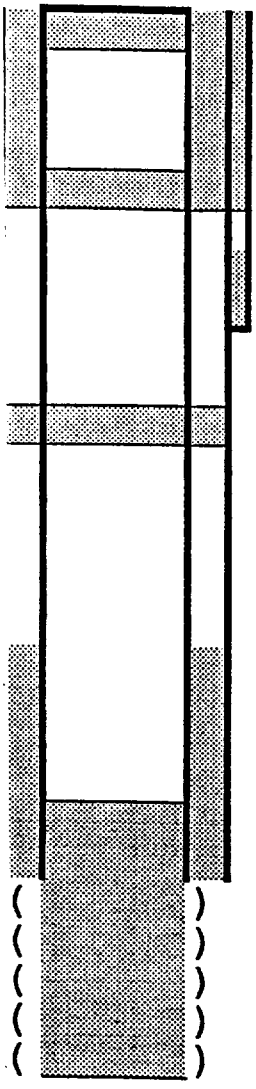
AREA OF REVIEW WELL DATA

Attachment C-108 VI

LEASE	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SZ & WT	SETTING DEPTH	SX CMT	TOC	PERFS
BKU 30-015-29811	274	1295 FSL 1345 FEL 19-17S-30E	4751' (4722')	OIL 10-30-97	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	412 4751	350 2000	CIRC CIRC	4316-4692'
BKU 30-015-29512	276	660 FSL 168 FWL 19-17S-30E	4775' (4738')	OIL 10-21-97	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	402 4750	350 1275	CIRC CIRC	4334-4593'
BKU 30-015-29821	279	660 FSL 2040 FEL 19-17S-30E	4816' (4773')	OIL 10-30-97	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	419 4798	350 1400	CIRC CIRC	4352-4713'
BKU 30-015-29921	280	660 FNL 1345 FEL 25-17S-29E	4800' (4780')	OIL 02-14-98	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	393 4785	350 1375	CIRC CIRC	4336-4654'
BKU 30-015-29722	282	2378 FSL 290 FWL 19-17S-30E	4796' (4751')	OIL 01-15-98	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	367 4747	350 1540	CIRC CIRC	4219-4290'
BKU 30-015-29929	285	660 FSL 330 FEL 19-17S-30E	4900' (4780')	OIL 02-04-98	12 1/4 7 7/8	8 5/8 24# 5 1/2 17#	390 4893	450 1450	CIRC CIRC	4423-4800'

OPERATOR		LEASE		
MARBOB ENERGY CORPORATION		BURCH A		30-015-04207
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
23	2565 FNL 995 FWL	19	17S	30E

Schematic



cmt plug 10sx

cmt plug 175sx
293–243

8 5/8 24# @ 455'
TOC 316'

cmt plug 55sx
875–825

7" 20# @ 2492'
TOC 1876'

cmt plug 145sx
3150–2447'

TD 3150'

Tabular Data

Surface Casing

Size 8 5/8 @ 24# " Cemented with 75 sx.

TOC 316 feet determined by CALC @ 50%

Hole size

Intermediate Casing

Size " Cemented with sx.

TOC feet determined by

Hole size

Long string

Size 7 @ 20# " Cemented with 100 sx.

TOC 1876 feet determined by CALC @ 50%

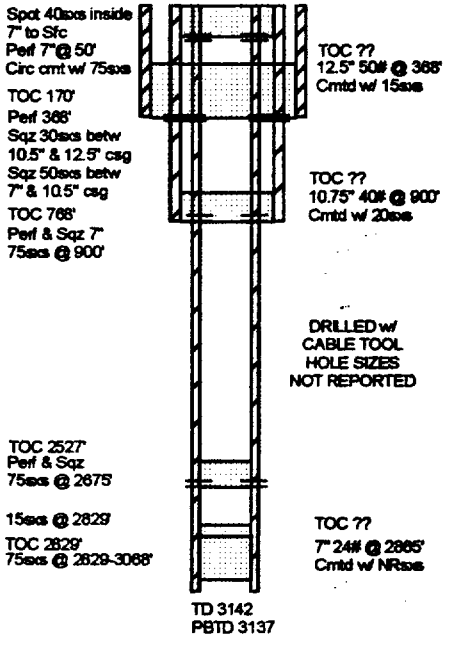
Hole size

Total depth 3150

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Marbob Energy Corporation	Burch Keely Unit			30-015-04194
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
92	1980'FNL & 660'FEL	19	17S	30E

Schematic



Tabular Data

Surface Casing

Size 12 1/2 " Cemented with 15 sx.

TOC _____ feet determined by _____

Hole size Not Reported

Intermediate Casing

Size 10 3/4 " Cemented with 20 sx.

TOC _____ feet determined by _____

Hole size Not Reported

Long string

Size 6 5/8 " Cemented with Not Reported sx.

TOC _____ feet determined by _____

Hole size Not Reported

Total depth 3142

Injection interval

N/A feet to N/A feet

(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a

_____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

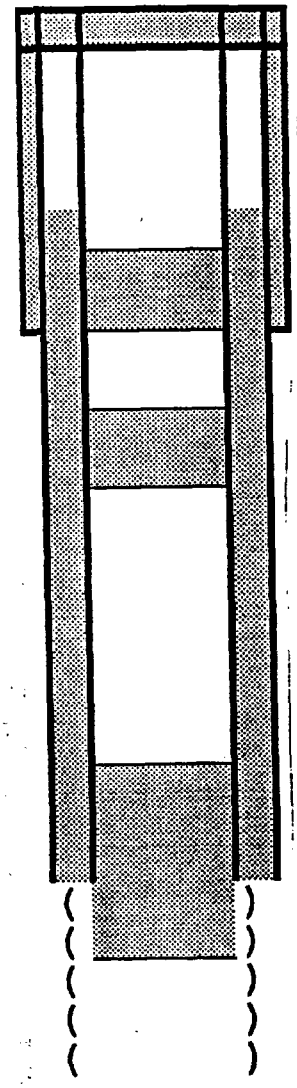
   If no, for what purpose was the well originally drilled? _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

OPERATOR	LEASE			
MARBOB ENERGY CORPORATION	BKU	30-015-04205		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
93	2310 FSL 1650 FWL	19	17S	30E

Schematic



cmt plug 70sx
60'–surface

cmt plug 50sx
478'–346

8 5/8 @ 560'

cmt plug 50sx
910'–

cmt plug 85 sx
2785–2441

7" @ 20# @ 2660'
TOC 1230'

TD 3148'

Tabular Data

Surface Casing

Size 8 5/8 @ 24# " Cemented with 50 sx.

TOC 60' feet determined by 6

Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 7 @ 20# " Cemented with 100 sx.

TOC 1230 feet determined by _____

Hole size _____

Total depth _____

Injection interval

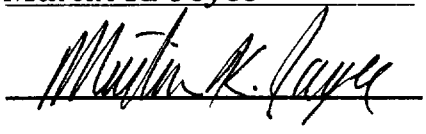
_____ feet to _____ feet

(perforated or open-hole, indicate which)

AFFIRMATIVE STATEMENT
C-108 XII

I have examined all geologic and engineering data available for the Burch Keely Unit and find no evidence of open faults or other hydrologic connection between the disposal zone and any under ground drinking water sources.

Name: Martin K. Joyce *Title:* Geologist

Signature:  *Date:* October 6, 1998

OFFSET OPERATOR NOTIFICATION
C-108 XIII

The below listed operators have received notification of Marbob Energy Corporation's intent to expand their Burch Keely Waterflood:

Anadarko Petroleum Corporation
Tom P. Stephens Trust
Mack Energy Corporation
Rogers Aston
Phillips Petroleum Corporation
Enron Oil & Gas Company
Read & Stevens, Inc.
Bureau of Land Management

ARTESIA DAILY PRESS

Pursuant to State of New Mexico Oil Conservation Division Rule 701-C-1 Marbob Energy Corporation gives public notice that it has applied to the New Mexico Oil Conservation Division for an expansion of the Burch-Keely Waterflood Unit. The area of expansion includes the S/2 of Section 19, and the N/2 of Section 30 in Township 17 South, Range 30 East, Eddy County, New Mexico, N.M.P.M. ; the Burch Keely Unit #104 proposed injection well located 330' FSL and 1650' FWL in Section 19 of Township 17 South, Range 30 East; the Burch Keely Unit #142 proposed injection well located 660' FNL and 660' FWL of Section 30 of Township 17 South, Range 30 East; and the Burch Keely Unit #146 located 660' FNL and 1980' FEL of Section 30 of Township 17 South, Range 30 East, Eddy County, New Mexico. The purpose of the waterflood expansion is to gain optimum control over the flow of formation hydrocarbons and to increase oil production. The Grayburg and San Andres formations are to be injected at a depth of 2,650 - 3,550 feet at a maximum surface pressure of 900 lbs at a rate of 250 barrels of formation water per day per well. Any interested party who has an objection to this waterflood expansion must give notice in writing to the Oil Conservation Division, 2040 South Pacheco Street, Santa Fe, New Mexico 87505 within fifteen (15) days of this notice. Any interested party with questions or comments may contact Johnny C. Gray 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 _____, 1998.

marbob
energy corporation

October 6, 1998

Bureau of Land Management
Post Office Box 27115
Santa Fe, New Mexico 87502-7115

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

Gentlemen:

Marbob Energy Corporation, as operator of the Burch Keely Unit, notifies you that we have applied to the New Mexico Oil Conservation Division for Administrative Approval for an expansion of the currently approved Burch Keely Waterflood Project to include the above referenced lands. The purpose of this expansion is to gain optimal control over the flow of formation hydrocarbons and to increase oil production.

If you have no objections to this expansion of the existing Burch Keely Unit Waterflood project, please sign below and forward one copy to the New Mexico Oil Conservation Division in Santa Fe, one copy to the New Mexico Oil Conservation Division in Artesia, one copy to Marbob Energy Corporation, and retain one copy for your records. Addressed, envelopes have been provided for your convenience. If you do have an objection to this project, you must notify the New Mexico Oil Conservation Division in Santa Fe in writing within fifteen days of this notice. Thank you for your quick response in this matter.

Sincerely,

Martin Joyce

Martin Joyce
Geologist

MJ/mm
Enclosures

BUREAU OF LAND MANAGEMENT:

By: _____
Date: _____

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

marbob
energy corporation

October 6, 1998

Read & Stevens, Inc.
Post Office Box 1518
Roswell, New Mexico 88202

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

Gentlemen:

Marbob Energy Corporation, as operator of the Burch Keely Unit, notifies you that we have applied to the New Mexico Oil Conservation Division for Administrative Approval for an expansion of the currently approved Burch Keely Waterflood Project to include the above referenced lands. The purpose of this expansion is to gain optimal control over the flow of formation hydrocarbons and to increase oil production.

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Sincerely,

Martin Joyce

Martin Joyce
Geologist

MJ/mm
Enclosures

READ & STEVENS, INC.:

By: _____
Date: _____

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

marbob
energy corporation

October 6, 1998

Enron Oil & Gas Company
1445 Ross at Field
Dallas, Texas 75202

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

Gentlemen:

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Sincerely,

Martin Joyce
Geologist

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Enclosures

ENRON OIL & GAS COMPANY:

By: _____
Date: _____

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

marbob
energy corporation

October 6, 1998

Phillips Petroleum Corporation
4001 Penbrook
Odessa, Texas 79762

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

Gentlemen:

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Martin Joyce

Martin Joyce
Geologist

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Enclosures

PHILLIPS PETROLEUM CORPORATION:

By: _____
Date: _____

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

marbob
energy corporation

October 6, 1998

Rogers Aston
Post Office Box 1090
Roswell, New Mexico 88202

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

Gentlemen:

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Sincerely,

Martin Joyce

Martin Joyce
Geologist

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Enclosures

ROGERS ASTON:

By: _____
Date: _____

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

marbob
energy corporation

October 6, 1998

Mack Energy Corporation
Post Office Box 960
Artesia, New Mexico 88211-0960

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

Gentlemen:

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Martin Joyce

Martin Joyce
Geologist

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Enclosures

MACK ENERGY CORPORATION:

By: _____
Date: _____

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

marbob
energy corporation

October 6, 1998

Tom P. Stephens Trust
Post Office Box 698
Roswell, New Mexico 88202

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

Gentlemen:

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Martin Joyce
Geologist

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Enclosures

TOM P. STEPHENS TRUST:

By: _____
Date: _____

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

marbob
energy corporation

October 6, 1998

Anadarko Petroleum Corporation
Post Office Box 351
Liberal, KS 67905

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

Gentlemen:

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Sincerely,

Martin Joyce
Geologist

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ANADARKO PETROLEUM CORPORATION:

By: _____
Date: _____

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

marbob
energy corporation

October 6, 1998

Mack Energy Corporation
Post Office Box 960
Artesia, New Mexico 88211-0960

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

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MACK ENERGY CORPORATION:

By: _____
Date: 10/15/98

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

RECEIVED OCT 14 1998

marbob
energy corporation

October 6, 1998

Read & Stevens, Inc.
Post Office Box 1518
Roswell, New Mexico 88202

Re: Burch Keely Unit Waterflood Expansion Project
SW/4 Section 19-17S-30E; N/2 Section 30-17S-30E
Eddy County, New Mexico

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Martin Joyce

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Geologist

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Enclosures

READ & STEVENS, INC.:

By: _____
Date: 10/16/1998

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523

marbob
energy corporation

NOV - 6 1998

October 6, 1998

Rogers Aston
Post Office Box 1090
Roswell, New Mexico 88202

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Enclosures

ROGERS ASTON:

By: Rogers Aston
Date: Nov. 4, 1998

P.O. Box 227 Artesia, New Mexico 88211-0227 (505) 748-3303 Fax (505) 746-2523