THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

September 11, 1961

Phillips Petroleum Company
Bartlesville,
Oklahoma

Gentlemen: RE: APPROVED APPLICATION NO. 32773

Enclosed find Approved Application No. 32773 . This is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated, 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation made to the State Engineer on or before ----------February 28, 1961-----otherwise the application will lapse.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of this application.

Note error in date
Eff 9/15/61

Yours truly,

Wayne D. Criddle

ADDRESS ALL COMMUNICATIONS TO:
Wayne D. Criddle
STATE ENGINEER
STATE CAPITOL BUILDING
SALT LAKE CITY, UTAH

js
Encl: Copyof approved application

APPLICATION APPROVED

NOTICE TO APPLICANT

The approval of this Application is not a certificate of change. It is merely your authority to begin construction work, which must be diligently prosecuted to completion. To secure a certificate of change under this Application proof of change must be submitted within the time limit allowed by the State Engineer. The amount of water for which certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water covered by the original right. For further information write the State Engineer.

RULES AND REGULATIONS

Applicants will save time and expense by familiarizing themselves with the law before making Applications.

If the reservoir is to be located on the channel of the source from which the water is to be appropriated, it should be so stated under explanatory, and—

1. The location of the impounding dam should be described in Paragraph 16.
2. The point where the released storage will be rediverted from the natural stream should be described under explanatory in accordance with the note under Paragraph 16.

When the water is to be stored in other than the natural channel of the source from which it is to be appropriated, it should be so stated under explanatory, and—

1. The point of diversion from the supplying source should be described in Paragraph 16.
2. The intersection of the longitudinal axis of impounding dam and centerline of stream channel or drainage and a similar point where the released storage will be rediverted from a natural channel should be described under explanatory in accordance with the note under Paragraph 16.

In all cases Paragraphs 17 to 27, incl., should describe the proposed diverting and carrying works, exclusive of natural channels, even if already constructed in whole or in part.

If it is proposed to collect the water of a number of springs or other sources at a common point, said point should be described as the point of collection in Paragraph 16, and the point of diversion from each source should also be described under explanatory in accordance with the note in Paragraph 16. The quantity of water sought from each source should be indicated under explanatory, the total equaling the quantity specified in Paragraphs 12 or 13. Where the source of supply is in reality a spring area, the point of diversion is the point where the water is collected; in such case the exterior boundary of the spring area must be described under explanatory by metes and bounds and located with reference to the same point as used in describing the point of collection and as outlined by the note under Paragraph 16.

No enlargement of an original water right may be made by a change Application, either as to quantity of water covered, period of use or otherwise.

When there are two or more coapplicants the Application must be accompanied by a power of attorney.

The applicant's permanent address should be given in Paragraph 2, and the State Engineer notified promptly of any change in address; otherwise applicant may lose rights initiated by Application by failing to receive notices sent from the State Engineer's office.

No Application or other paper pertaining to an Application will be marked received unless accompanied with the required filing fee.

Applications accepted and numbered by the State Engineer, when returned to applicant for correction or additions, must be amended with red ink. Erasures must not be made, but any matter may be eliminated by running a red line through it. Corrected Applications must be resubmitted to the State Engineer's office, within sixty days from the date of State Engineer's letter returning Application for correction; otherwise the priority of the right to change will be brought down to date corrected Application is resubmitted.

Applicants will be informed by the State Engineer's office when cost of publishing notice of Application is due, and must advance cost within sixty days after date of notice, otherwise Application will lapse.

Fees Required by Law Payable to State Engineer

For examining and filing Applications for change of point of diversion, place and nature of use.....$2.50

For approving and recording Applications for change of point of diversion, place and nature of use.....$2.50

For filing written proof of change.....$1.00

For examining maps, profiles and drawings that are part of the proof of change.....$5.00

For issuing certificate of change.....$1.00

NOTE—In addition to the above fees applicants must pay the cost of publication of "Notice to Water Users" concerning the proposed change.

20. *The length of the diverting channel, exclusive of laterals, will be* 15,000 *feet*
(If an existing channel is used give only the length of that part used under this Application)

21. *The top width of the diverting channel will be (if a ditch)* XX *feet*

22. *The bottom width of the diverting channel will be (if a ditch)* XX *feet*

23. *The depth of water in the diverting channel will be (if a ditch)* XX *feet*

24. *The width of diverting channel will be (if a flume)* XX *feet*

25. *The depth of water in the diverting channel will be (if a flume)* XX *feet*

26. *The diameter of the diverting channel will be (if a pipe)* 42.75 inches O.D. *inches*

27. *The grade of the diverting channel will be* 2.4 *feet per thousand*

28. *The point at which it is proposed to return the water is situated* (See note under 16)
XX

29. *The water is to be used* for the same purposes as specified in the original Application No. 32773

Total XX *acres.*

NOTE—If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and extent of proposed use. If for power give number, size and make of wheels, head under which they will operate, total H. P. to be developed and place where power will be used.

30. *The character of the soil to be irrigated is* XX *; subsoil* XX

NOTE—Number 30 is to be filled in only when proposed change is for irrigation.

31. *If paragraph 12 designates that only part of the right described in paragraph 1 to 11 inclusive is to be changed, designate the status of the water so affected by this change as to its being abandoned or used as heretofore.*

EXPLANATORY

NOTE—Paragraph 13 on page 1 must not be used except when storage is contemplated; in such case Paragraph 14 should indicate the time in each year during which the water will be released and used. The lands to be inundated by the reservoir must be described in the space below this note as nearly as may be and by government subdivisions if upon surveyed land, and the area of the reservoir when at full stage should be given in acres; the height of the impounding dam must also be specified.

The following additional facts are set forth in order to define more clearly the full purpose of the proposed change:

The original Application No. 32773 specified _____ points of diversion situate in Section 5, T. 41S., R. 24E., San Juan County, Utah, and bears the following notation: "Diversion will be from one or more or all of the above diversion points. Water from the several diversion points will be commingled in conveyance works or in use. The applicant proposes to divert water from the San Juan River partly or wholly by means of infiltration wells, pits or horizontal galleries, dug in the alluvial fill within the stream valley. The exact number, depth, diameter, spacing and yield of such wells, pits or galleries will be determined during the project construction; however, the aggregate withdrawal rate will not exceed that specified." The purpose of this Change Application is to secure approval of additional alternative points of diversion as hereinafter specified without waiver of any rights under the original Application and without increase in the quantity of water applied for or the ultimate objective and purpose of the original Application.

See "Explanatory" continued on attached sheet.

PHILLIPS PETROLEUM COMPANY

Signature of Applicant.

BY _____
Vice-President of Production

EXPLANATORY - contd. from printed form.

The additional alternative points of diversion from the source are in Section 3, T. 41S., R. 24E., San Juan County, Utah, situate at points as follows:

Diversion Point	From West Line	From North Line	Subdivision
1	100'	1780'	SW¼NW¼
2	365'	1780'	"
3	630'	1770'	"
4	900'	1620'	"
5	1170'	1620'	"
6	1400'	1600'	SE¼NW¼
7	1530'	1600'	"
8	1900'	1600'	"
9	2150'	1620'	"
10	2400'	1700'	"
11	2640'	1750'	"
12	2900'	1810'	SW¼NE¼
13	3180'	1900'	"
14	3400'	1950'	"
15	3650'	2050'	"
16	3870'	2225'	"
17	4100'	2450'	SE¼NE¼
18	4250'	2700'	NE¼SE¼
19	4380'	2975'	"
20	4420'	3250'	"

Louis
file/ss

October 13, 1961

AIRMAIL

Mr. Clair M. Senior
Senior & Senior
Attorneys at Law
10 Exchange Place
Salt Lake City, Utah

Re: Alternate or Additional Source of Water
for the Ratherford Unit, San Juan County, Utah

Dear Clair:

Herewith in triplicate is completed and signed application to the Utah State Engineer for additional and alternate points of diversion for water for water-flood purposes in the Ratherford Unit. I would appreciate it if you would handle this matter with the Water Engineer and, as diplomatically as possible, urge upon him the importance of expediting the matter as much as possible.

Having gotten these papers back from the Production Department too late to get a check for the filing fee, I would ask that you advance the fee and, upon being billed, I will send you the check.

If you need any additional information, please advise.

Very truly yours,

RMW:jd
Enclosures

R. M. Williams

cc - Mr. Shofner Smith

21-03149

3 copies ... Clair Senior ... 10-13-61 ...

Form 107—6-57—2M

SCOPENSE Legal

CHANGE APPLICATION NO..........

Application for Permanent Change of Point of Diversion, Place and Nature of Use of Water
STATE OF UTAH

Do not fill out this blank until you have read carefully and thoroughly understand the "Rules and Regulations" on the back hereof and all the notes in the body of it.

For the purpose of obtaining permission to permanently change the point of diversion, ~~place or nature of use~~ of (Strike out written matter not needed)

water right acquired by original Application No. 32773
(Give No. of Application, certificate of appropriation, title and date of Decree or other identification of right)

to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. *The name of the applicant is* Phillips Petroleum Company
2. *The post-office address of the applicant is* Bartlesville, Oklahoma
3. †*The flow of water which ~~has been or~~ was to have been used in second-feet is* 8
4. †*The quantity of water which has been or was to have been used in acre-feet is* XX
5. †*The water ~~has been or~~ was to have been used each year from* January 1 (Month) (Day) *to* December 31 (Month) (Day) *incl.*
6. †*The water has been or was to have been stored each year from* XX (Month) (Day) *to* XX (Month) (Day) *incl.*
7. *The drainage area to which source of supply belongs is* .... (Leave blank)
8. *The direct source of supply is* Underground water and subsurface flow of San Juan River *in* San Juan *County.*
9. †*The points of diversion as described in the original Application ~~or the point at which the water has been diverted is~~ are situated at ~~a~~ points in Section 5, T. 41S., R. 24E as more particularly set out in the original Application No. 32773.*
10. †*The water involved ~~has been or~~ was to have been used for the following purposes:* Pressure maintenance and secondary recovery purposes

    Total XX *Acres.*

NOTE—If for irrigation, give legal subdivision of land and total acreage which has been or was to have been irrigated. If for other purposes, give nature, place and extent of use or proposed use.

11. †*The point at which water has been or was to have been returned to the stream channel is situated as follows:* XX

NOTE—The above space is to be filled in only when all or part of the water is returned to the natural stream or channel.

The Following Changes Are Proposed

12. *The flow of water to be changed in cubic feet per second is* No change
13. *The quantity of water to be changed in acre-feet is* XX
14. *The water will be used each year from* January 1 (Month) (Day) *to* December 31 (Month) (Day) *incl.*
15. *The water will be stored each year from* XX (Month) (Day) *to* XX (Month) (Day) *incl.*
16. *The point at which it is now proposed to divert the water is situated (See note)* See explanatory

NOTE—The "point of diversion," or "point of return," must be located by course and distance or by rectangular distances with reference to some regularly established United States land corner or United States mineral monument if within a distance of six miles of either, or if a greater distance, to some prominent and permanent natural object.

17. *The proposed diverting and conveying works will consist of* wells and conveyance pipe as explained in original Application No. 32773
18. *The cross-section of the diverting channel will be.* ~~XXXXXXXX~~ O (Strike out ones not needed)
19. *The nature of the diverting channel will be:* ~~earth, wood~~, iron, ~~concrete~~. (Strike out the ones not needed)

†Strike out written matter not needed.

Copied for
C. M. Boles
11-3-61 SS:mll

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

WAYNE D. CRIDDLE
STATE ENGINEER

SALT LAKE CITY
October 30, 1961

Issue Date: October 30, 1
Expiration Date: April 30

Phillips Petroleum Company
c/o Senior and Senior, Attorneys
#10 Exchange Place
Salt Lake City 11, Utah

Gentlemen:

RE: APPROVED APPLICATION NO. 32773 AND
CHANGE APPLICATION NO. a-4025

This is to acknowledge receipt of your Permanent Change Application No. a-4025, which proposes to change the point of diversion of 8.0 sec.-ft. of water initiated by Application No. 32773. The was to have been diverted from ten 12.75-inch O.D. wells located within S½N½NE¼ and SE¼NE¼NW¼ of Sec. 5, T41S, R24E, SLB&M. It is now proposed to divert the 8.0 sec.-ft. of water from a total of 41 wells 12.75 inches O.D, between 35 and 50 ft. deep, ten of these being the same as heretofore described and thirty-one wells to be located within NW¼ Sec. 3, N½ Sec. 4, NW¼ Sec. 5, T41S, R24E, SLB&M. The water is to be used for pressure maintenance and secondary recovery purposes as heretofore.

You have requested permission to proceed immediately with the drilling of these additional 31 wells. This letter grants you that privilege with the understanding that all risks as regards water rights are being assumed by you.

If other than new standard casing is to be used in these wells such casing must be inspected and approved by a representative from this office. All wells must be so constructed and finished that they may be readily controlled at all times, in order to prevent waste of underground water. Wells must be drilled and cased in such a manner that will prevent the infiltration of contaminated water into them.

The driller must be bonded and have a current permit from the State Engineer. Before commencing, he must give this office notice as to the day he will begin drilling. Also, within 30 days after the well has been completed or abandoned, he must file a well driller's report for each well. These reports are to contain accurate and complete information regarding the work done and become part of the files in this office pertaining to the above-numbered filings.

This is permission for a licensed driller to begin drilling your wells.

Please note that the expiration date of this letter is April 30, 1962.

Yours truly,

Wayne D. Criddle
Wayne D. Criddle
STATE ENGINEER

ds

RECEIVED
1961
SENIOR

FORM 22 2M 5-57

Copied for
C. M. Boles
4-18-62 EFL:mll

THE STATE OF UTAH
OFFICE OF THE STATE ENGINEER
SALT LAKE CITY

March 26, 1962

Phillips Petroleum Company
Bartlesville,
Oklahoma

Gentlemen: RE: APPROVED APPLICATION NO. a-4025

Enclosed find Application No. a-4025 which has been approved by me. This approved Application is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation filed with the State Engineer, as provided in the original application as amended by this approved change Application.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of your Application.

Yours truly,
Wayne D. Criddle
Wayne D. Criddle
STATE ENGINEER

ADDRESS ALL COMMUNICATIONS TO:
403 STATE CAPITOL
SALT LAKE CITY, UTAH

js
Encl: Copy of approved application

CHANGE APPLICATION APPROVED

(Form for pending original Application)

December 2, 1965

Ratherford Unit, San Juan County, Utah -
Application No. 32773 - Request for Extension
of Time to Make Proof of Appropriation

Mr. R. M. Williams (2)
Legal Department

Phillips' Application No. 32773 to the State of Utah for appropriation of water to be used in the Ratherford Unit project was approved on September 5, 1961. One condition of the approval was that a proof of appropriation be submitted by February 28, 1963. Subsequently an extension was granted and the proof of appropriation is now due on February 28, 1966. It is not possible to determine at this time the quantity of water that will ultimately be required and this is to request your assistance in obtaining an additional extension of time before it is necessary to file the proof.

Attached is a copy of Mr. C. M. Boles' letter dated November 23, 1965, which transmits a copy of an unexecuted application for an extension of time for filing the proof from February 28, 1966, to February 28, 1971. Please examine the application as to form and, if it is acceptable, forward it to Mr. J. E. Chrisman, who will arrange for its execution. If it is your opinion that the legal firm of Senior and Senior should file the application, as was done previously, please so advise and the executed application will be returned to you.

Shofner Smith

JEC:gm
Attach.

cc: Messrs. C. W. Corbett
Attn. T. L. Osborne
C. M. Boles

12/8/65

Ratherford Unit
San Juan County, Utah
Application No. 32773
Proof of Appropriation

1300 Security Life Building
Denver, Colorado 80202

November 20, 1970

Mr. T. M. Blume
Division Chief Attorney
Denver Legal Department

Attached is a file pertaining to Phillips Petroleum Company's application for permanent use of water from underground and subsurface flow of the San Juan River in Utah for the beneficial use of pressure maintenance and secondary recovery in the Ratherford Unit.

I would like to direct your attention to Mr. C. H. Boles' letter of November 23, 1965, for background information.

On June 16, 1966, the Utah State Engineer granted a five-year extension to our Application No. 32773 for submittal of Proof of Appropriation. This extension will have elapsed on February 28, 1971.

We are preparing to file the Proof of Appropriation, however, the Casper office has information from the Area Engineer, Division of Water Rights, Department of Natural Resources, State of Utah that the filing of Proof of Appropriation is not necessary, but that filing of an Election to File Water Users Claim is necessary for permanent use of water from subsurface flow of the San Juan River.

We will appreciate your opinion on this filing.

H. W. Patterson

CML:rc
Attachment

cc: Mr. T. A. Matthews

A T T E N T I O N

THIS FORM IS TO BE USED ONLY WHEN WATER HAS BEEN PLACED TO FULL BENEFICIAL USE

Form 152

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

ELECTION TO FILE WATER USER'S CLAIM

APPLICATION NO. 32773(09-281)

STATE OF ~~UTAH~~ Utah)
) ss.
COUNTY OF San Juan)

Phillips Petroleum Company, being first duly sworn, says that he is the owner of the above application; that the development contemplated under this application has been completed and the water placed to beneficial use.

In lieu of submitting "Proof of Appropriation" or "Proof of Change" and receiving "Certificate of Appropriation" or "Certificate of Change", the applicant hereby elects to file a "Statement of Water User's Claim" or an "Amended Statement of Water User's Claim" in the pending GENERAL DETERMINATION OF WATER RIGHTS; and that the applicant requests that said statement be prepared by the State Engineer and submitted for execution at an early date.

Phillips Petroleum Company
By: H. A. Kuehnert
Attorney-in-Fact

H. A. Kuehnert
APPLICANT

ROC

Subscribed and sworn to before me this 3rd day of June, 19 77.

NOTARY PUBLIC

My commission expires 9-16-

INTER-OFFICE CORRESPONDENCE / SUBJECT:

Denver Legal Department

Ratherford Unit
San Juan County, Utah
Application No. 32773
Proof of Appropriation

December 2, 1970

Mr. H. W. Patterson
Denver District Office

This is in answer to your inquiry of November 20, 1970, regarding the filing of an Election to File Water Users Claim in lieu of a Proof of Appropriation in the above matter. It is my opinion that we should elect to file the Election to File Water Users Claim.

An investigation of the pertinent Utah Statutes discloses that there is no difference between the legal effect of the two procedures. The election procedure is judicial in nature and results in a court order stating precisely our rights regarding use of the water. The decision is based upon the recommendation of the State Engineer, who has the responsibility for surveying, etc. if it is necessary. In short, we will get the same benefit at little or no expense.

Thomas M. Blume

Thomas M. Blume

TMB/cjk

J. P. Denny

December 23, 1970

Mr. Kenward H. McKinney, Area Engineer
State of Utah
Department of Natural Resources
6 East Main
Price, Utah 84501

Dear Mr. McKinney:

Enclosed is a completed and notarized State of Utah Form No. 152, "Election to File Water User's Claim" for water placed in beneficial use by Phillips Petroleum Company in the Ratherford Unit, San Juan County, Utah.

Very truly yours,

H. W. Patterson
Production Director
Western District

CML:rc
Attachment

bcc: Mr. J. P. Denny (2)

RU 1-B

FORM 31-B

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RIGHTS

DEE C. HANSEN
STATE ENGINEER

JOHN BENE
DEPUTY

442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114
(801) 328-6071

DIRECTING ENGINEERS
HAROLD D. DONALDSON
DONALD C. NORSETH
~~XXXXXXXXXXXXXXX~~
Stanley Green

May 28, 1974

Partnership unit W. S. Unit.

Phillips Petroleum Company
Box 2920
Casper, Wyoming 82601

Gentlemen:

RE: Change Appl. No. a-7804 (09-281)

Enclosed is Change Application No. a-7804 (09-281) which has been approved. The approved change application is amendatory and serves only to affect a correction to Application No. 32773 a-4025 on which an election to file a water user's claim has been submitted.

As soon as possible, engineers of this office will make the necessary field investigations and will prepare a water user's claim which will be entered in the adjudication of water rights in your area.

Yours truly,

Dee C. Hansen

Dee C. Hansen
State Engineer

jb

Enc.: Copy of Approved Application

PHILLIPS PETROLEUM CO.
CASPER AREA
E & P DEPT.
Recd: JUN 3 1974

Send To	Init.	Date
Supt.		
Oper. Supt.		
Dist. Engr.		
Dist. Mgr.		
Engrs.		
Secretaries		

CHANGE APPLICATION APPROVED

(Form for Pending Original Application)

Form No. 107 3-66

Anita Creek 09-2-81

CHANGE APPLICATION NO. a-7504

Application for Permanent Change of Point of Diversion Place and Nature of Use of Water

STATE OF UTAH

Please clearly and correctly complete the information requested below which defines the right or rights being changed. (Type or clearly print.)

For the purpose of obtaining permission to permanently change: the point of diversion [X], place [ ], or nature of use [ ], of water rights acquired by Application No. 32773 (09-281)

(Give Number of Application, certificate of appropriation, title and date of Decree or other identification of right.)

If the right described has been amended by a previous approved change application, give the number of such change application. No. a-4025

1. The name of the applicant is Phillips Petroleum Company
2. The post-office address of the applicant is Box 2920, Casper, Wyoming 82601
3. The flow of water which has been or was to have been used in second-feet is 8.0
4. The quantity of water which has been or was to have been used in acre-feet is
5. The water has been or was to have been used for and during periods as follows:

Oil Field Pressure Maintenance and (purpose)	from (month)	(day)	to (month)	(day)	incl.
Secondary Recovery Uses (purpose)	from January 1 (month)	(day)	to December 31 (month)	(day)	incl.
and stored each year (if stored)	from (month)	(day)	to (month)	(day)	incl.

6. The direct source of supply is 41 Wells in San Juan County.
(well, spring, stream, drain, river; if other explain)
7. The point or points of diversion See Separate Sheet

(Must be the same as that of right being changed unless a previous change has been filed and approved. Then use the point or points approved in the previous change.)

8. Diversion works:

If a well give diameter and depth 12 3/4" diameter wells, 35-50 ft. deep

If a dam and reservoir give height, capacity, and area inundated

If other give type of diversion facility

9. The water involved has been or was to have been used for the following purposes in the following described legal subdivisions: (If used for irrigation, state sole or supplemental supply, and describe other supplemental rights.)

Irrigation

Total acres to be irrigated

Stockwatering (number and kind)

Domestic (number of families and/or persons, etc.)

Other See Separate Sheet

10. The point at which water has been or was to have been returned to the stream channel is situated as follows: (Please describe method of return.)

Note: Paragraph 10 is to be completed only when all or part of the water is returned to the natural stream or channel.

The Following Changes Are Proposed

11. The flow of water to be changed in cubic feet per second is Same as heretofore
12. The quantity of water to be changed in acre-feet is

13. The water will be used each year for:

Same as heretofore from ____ to ____ incl.
(purpose) (month) (day) (month) (day)

____ from ____ to ____ incl.
(purpose) (month) (day) (month) (day)

and stored each year (if stored) from ____ to ____ incl.
(month) (day) (month) (day)

14. It is now proposed to divert the water from 23 Wells
(i.e., spring, spring area, stream, river, drain, well, etc.)

at a point(s) as follows: See Separate Sheet

NOTE: The "point of diversion," or "point of return," must be located by course and distance or by rectangular distances with reference to some regularly established United States land corner or United States mineral monument if within a distance of six miles of either, or if a greater distance to some prominent and permanent natural object. A spring area must also be described by metes and bounds.

15. The proposed diverting and conveying works will consist of: (if a well, state diameter and depth thereof)
20 - 16-inch diameter wells, 35-50 ft. deep

16. If water is to be stored, give capacity of reservoir in acre-feet ____ height of dam ____
area inundated in acres ____ legal subdivisions of area inundated ____

17. The water is to be used for the following purposes in the following described legal subdivisions: (if used for irrigation, state sole or supplemental supply, and describe other supplemental rights.)

Irrigation ____

Total acres to be irrigated ____

but limited to the sole irrigation supply of ____ acres.

Stockwatering (number and kind) ____

Domestic (number of families and/or persons, etc.) ____

Other Same as heretofore

18. If paragraphs 11 and 12 designate that only part of the right described in paragraphs 1 to 10 inclusive is to be changed, designate the status of the water so affected by this change as to its being abandoned or used as heretofore.

EXPLANATORY

The following additional facts are set forth in order to define more clearly and completely the full purpose of the proposed change: This is an Amendatory Change Application filed to correct the location of the points of diversion.

RECEIVED
MAR 8 1974
STATE ENGINEER
PRICE, UTAH

The undersigned hereby acknowledges that even though he may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the State Engineer's Office, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant.

Forest L Mangum
Signature of Applicant

[illegible] PETROLEUM COMPANY

[illegible] Application [illegible] 72 (09-991) [illegible]

Item 7 - Points of [illegible]

Well No.	Well Location	Well No.	Well Location
1	S. 1000 ft. & W. 150 ft.	22	S. 1550 ft. & E. 1850 ft.
2	S. 1000 ft. & W. 450 ft.	all from NW Cor. Sec. 3, T41S, R24E.	
3	S. 1000 ft. & W. 750 ft.	23	S. 960 ft. & E. 150 ft.
4	S. 1000 ft. & W. 1050 ft.	24	S. 950 ft. & E. 450 ft.
5	S. 1000 ft. & W. 1350 ft.	25	S. 925 ft. & E. 750 ft.
6	S. 1000 ft. & W. 1650 ft.	26	S. 910 ft. & E. 1050 ft.
7	S. 1000 ft. & W. 1950 ft.	27	S. 900 ft. & E. 1350 ft.
8	S. 1000 ft. & W. 2250 ft.	28	S. 890 ft. & E. 1650 ft.
9	S. 1000 ft. & W. 2550 ft.	29	S. 850 ft. & E. 1950 ft.
10	S. 1000 ft. & W. 2850 ft.	30	S. 825 ft. & E. 2250 ft.
11	S. 900 ft. & W. 3125 ft.	31	S. 895 ft. & E. 2540 ft.
~~12~~	~~S. 800 ft. & W. 3400 ft.~~	~~32~~	~~S. 1000 ft. & E. 2795 ft.~~ DELETE PC
13	S. 700 ft. & W. 3700 ft.	33	S. 1210 ft. & E. 3000 ft.
14	S. 610 ft. & W. 3995 ft.	34	S. 1420 ft. & E. 3200 ft.
15	S. 500 ft. & W. 4280 ft.	35	S. 1620 ft. & E. 3410 ft.
all from NE Cor. Sec. 5, T41S, R24E		36	S. 1710 ft. & E. 3710 ft.
16	S. 1700 ft. & E. 50 ft.	37	S. 1760 ft. & E. 4000 ft.
17	S. 1675 ft. & E. 350 ft.	38	S. 1800 ft. & E. 4300 ft.
18	S. 1650 ft. & E. 650 ft.	39	S. 1780 ft. & E. 4600 ft.
19	S. 1610 ft. & E. 950 ft.	40	S. 1740 ft. & E. 4900 ft.
20	S. 1590 ft. & E. 1250 ft.	41	S. 1720 ft. & E. 5200 ft.
21	S. 1575 ft. & E. 1550 ft.	all from NW Cor. Sec. 4, T41S, R24E.	

Item 9 - Place of Use: Ratherford Unit Greater Aneth Oil Field; S½ Sec. 1; SE¼ Sec. 2; E½ Sec. 11; Sec. 12; Sec. 13; E½ Sec. 14; NE¼ Sec. 24, T41S, R23E, SLB&M. Secs. 3-10; W½ Sec. 11; W½ Sec. 14; Secs. 15-21; NW¼ & W½SW¼ Sec. 22; W½NE¼, NW¼, W½SW¼ Sec. 28; Secs. 29-30; N½ Sec. 31; N½ Sec. 32, T41S, R24E, SLB&M.

Item 14 - New Points of Diversion

Well No.	
1	S. 950 ft. & W. 148 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
2	S. 1014 ft. & W. 442 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
3	S. 1007 ft. & W. 741 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aac
4	S. 1010 ft. & W. 592 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
5	S. 982 ft. & W. 294 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
6	S. 887 ft. & W. 2 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
7	S. 863 ft. & E. 145 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. (D-41-24)5aad
8	S. 843 ft. & E. 293 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. (D-41-24)5aad
9	S. 818 ft. & E. 440 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. (D-41-24)5aad
10	S. 803 ft. & E. 590 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. (D-41-24)5aad
11	S. 789 ft. & E. 739 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. (D-41-24)5aac
~~12~~	~~S. 777 ft. & E. 939 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.~~ DELETE FCM
13	S. 803 ft. & E. 1137 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M (D-41-24)5
14	S. 802 ft. & E. 1334 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.
15	S. 759 ft. & E. 1529 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.
16	S. 715 ft. & E. 1725 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.
17	S. 672 ft. & E. 1920 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.
18	NO WELL
19	S. 1792 ft. & W. 352 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.
20	S. 1792 ft. & W. 952 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.
21	NO WELL
22	S. 1792 ft. & W. 652 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.
23	S. 1714 ft. & W. 1545 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.

(This page not to be filled in by applicant)

RECEIVED
MAR 8 1974
STATE ENGINEER
PRICE, UTAH

STATE ENGINEER'S ENDORSEMENTS

1. MAR. 8, 1974 Change Application received ~~over counter~~ by mail in State Engineer's office by WCK
2. ..... Priority of right to make change brought down to, on account of .....
3. Mar 12 1974 Fee for filing Application $65.00, received by ..., Receipt No 22906
4. March 13, 1974 Application microfilmed by ..... Roll No. 709 and indexed by ...
5. 4/16/74 Application platted by WO See following page for location
6. MAR. 8, 1974 Application examined by WCK
7. ..... Application returned, with letter, to ..... for correction
8. ..... Corrected application resubmitted over counter by mail to State Engineer's Office .....
9. MAR. 8, 1974 Application approved for advertisement by WCK
10. MAR 28 1974 Notice to water users prepared by dpht SG
11. APR 4 1974 Publication began, was completed APR 18 1974
    Notice published in San Juan Record
12. APR 3 1974 Proof slips checked by ...
13. ..... Change Application protested by .....
    April 24 1974 Protest withdrawn - letter
14. NOV. 16, 1971 Field Examined by WCK & LG
15. MAY 20, 1974 Application designated for approval ~~rejection~~ by WCK SG
16. 5-28-74 Change Application copied ... proofread by .....
17. 5-28-74 Change Application approved ~~rejected~~ and returned to applicant .....

This application is approved on the following conditions:

1. Actual construction work necessitated by proposed change shall be diligently prosecuted to completion.
2. Proof of hange shall be submitted to the State Engineer's office by under 32773
3. This change is subject to all conditions imposed on the approval of the original application or right

Dee C. Hansen

Dee C. Hansen, State Engineer

18. ..... Time for making proof of change extended to .....
19. ..... Proof of change submitted.
20. ..... Certificate of change No. ....., issued.

I hereby certify that the foregoing is a true copy of the Application by ..... to change the point of diversion, place and nature of use of water as shown, with endorsements thereon, on the records of my office on the date given below.

Salt Lake City, Utah ....., 19.... .....
State Engineer

Change Application No. a-7804

Form 9-331 C
(May 1963)

SUBMIT IN TRIP 'ATE* (Other instructi on reverse side)

Form approved.
Budget Bureau N

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Phillips Petroleum Company

3. ADDRESS OF OPERATOR: P. O. Box 2920, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 620' FSL, 760' FEL (SE SE)
At proposed prod. zone: Same

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME: SW-I-4192

8. FARM OR LEASE NAME: Ratherford Unit

9. WELL NO.: 20-44

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20, T41S, R24E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 5 miles south of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 620' from Ratherford Unit lease line

16. NO. OF ACRES IN LEASE: 2534

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40 acres

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 1090' from #20-34

19. PROPOSED DEPTH: 5700' Desert Creek

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4817' Ungraded Ground

22. APPROX. DATE WORK WILL START*: August, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	100'	150 sx Class B (To Surface)
12-1/4"	9 5/8"	36#	1600'	400 sx HLC & 400 sx Class B (surface)
8-1/2"	7"	20#, 23#, 26#	5700'	1,000 sx est. (T.O.C. at approx. 2,000 ft.)

Approval is requested to drill Ratherford Unit #20-44, a Desert Creek Development Oil Well, to increase the ultimate recovery from the Ratherford Unit.

BOP equipment will be operated daily and tested weekly.

RECEIVED
JUL 14 1983
DIVISION OF OIL, GAS & MINING

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 7/15/83
BY:

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED A. E. Stuart TITLE Area Manager DATE July 12, 1983

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

5 - Minerals Management Service, Farmington, NM
2 - Utah O&G CC - S.L.C., Utah
1 - J. L. Whitmire r) T.C. Doughty
1 - T. M. Isaacs
1 - G. W. Berk
1 - File

*See Instructions On Reverse Side

Form 9-331C & Location Plat (only) - R.M. Coffelt & B. Conner

COMPANY PHILLIPS PETROLEUM COMPANY

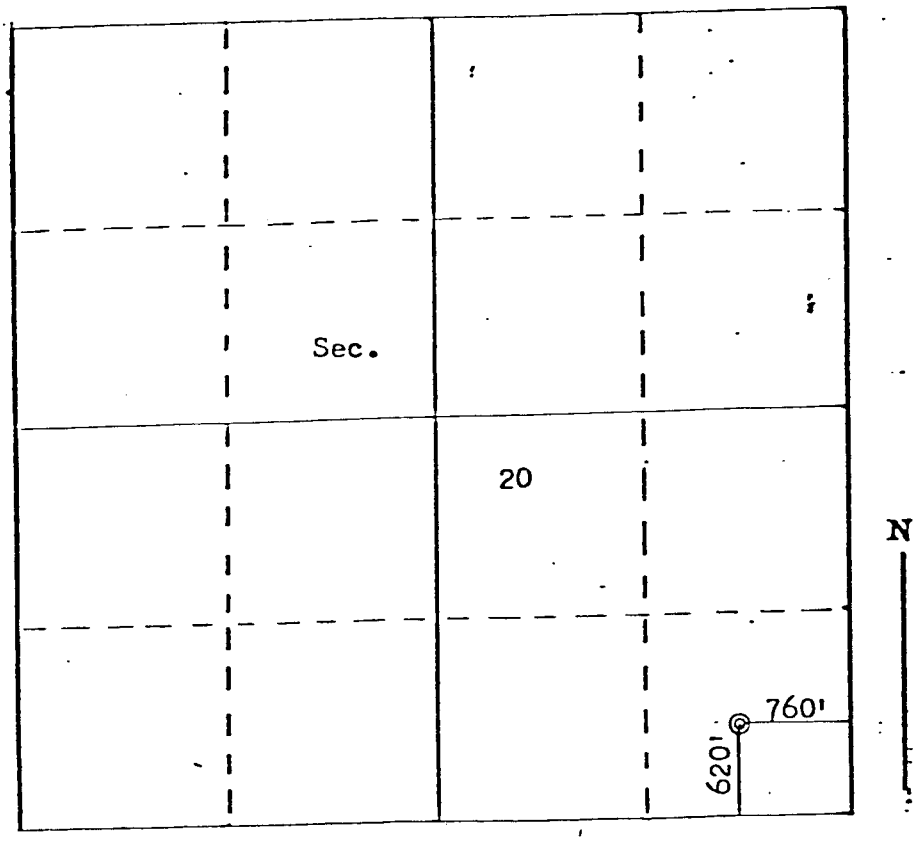
LEASE RATHERFORD UNIT WELL NO. 20-44

SEC. 20, T. 41S, R. 24E

San Juan County, Utah

LOCATION 620'FSL 760'FEL

ELEVATION 4817 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

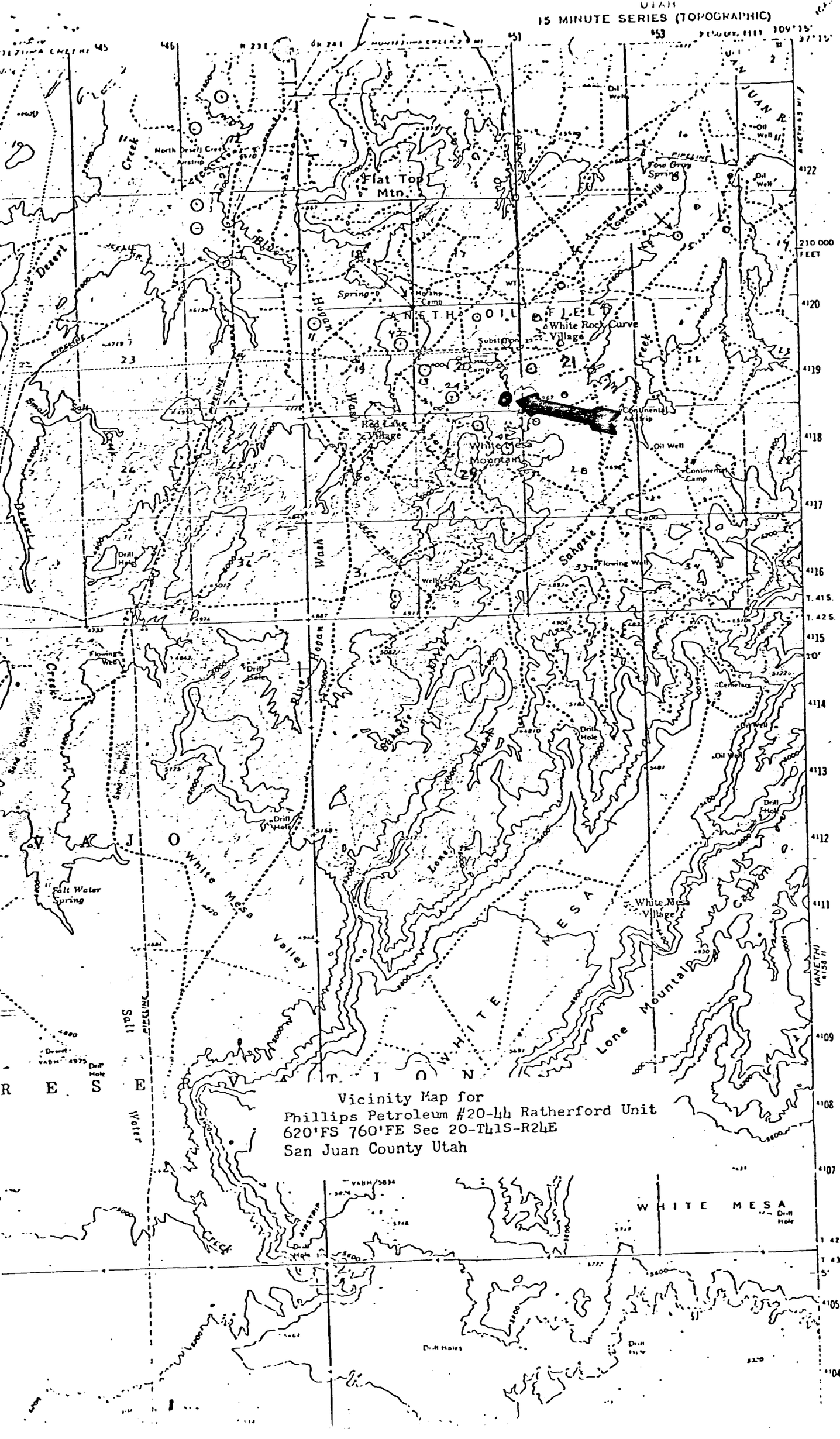
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SEAL

Registered Land Surveyor.
#3950
FRED B. KERR, JR.

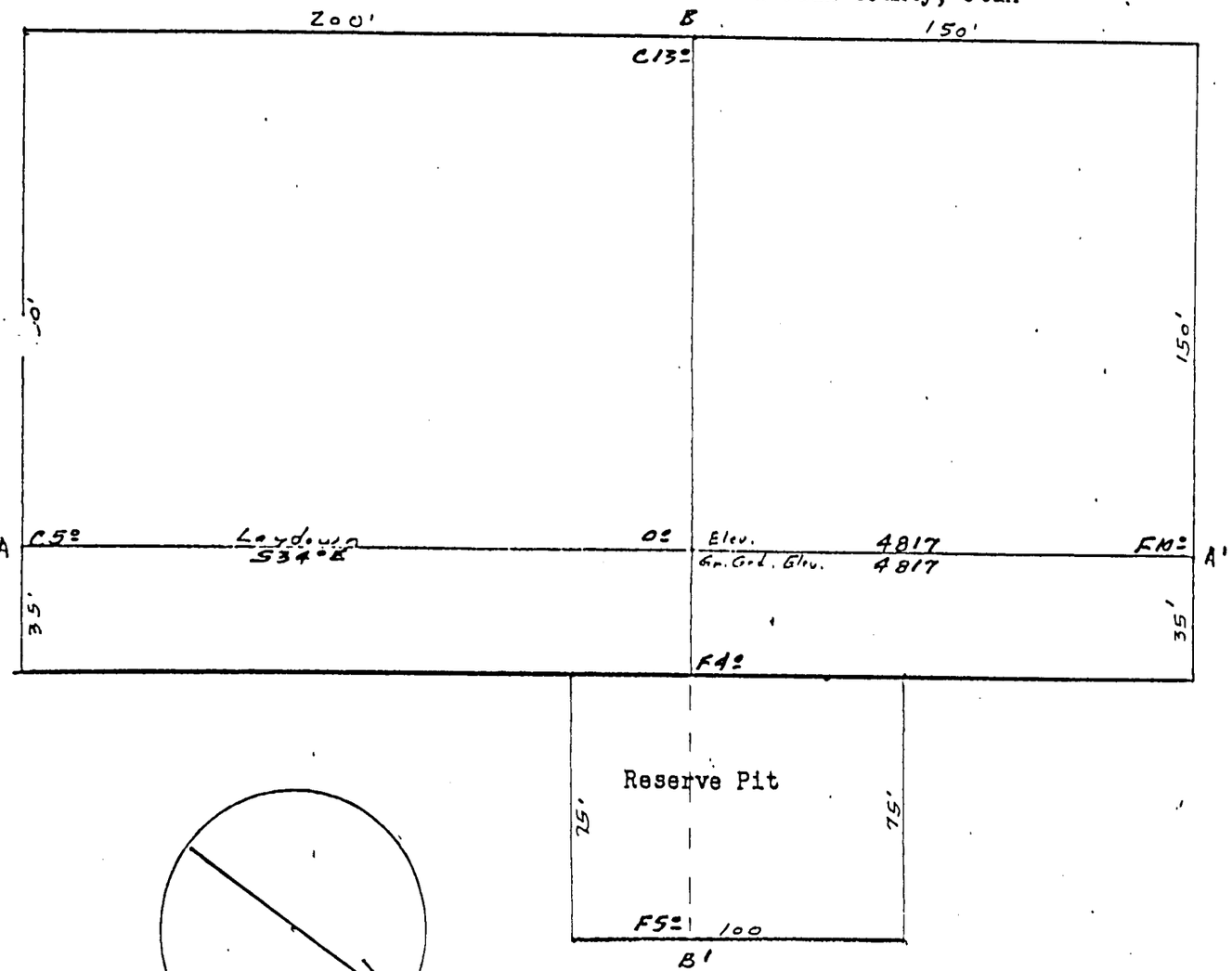
SURVEYED February 1, 19 82

FARMINGTON, N. M.

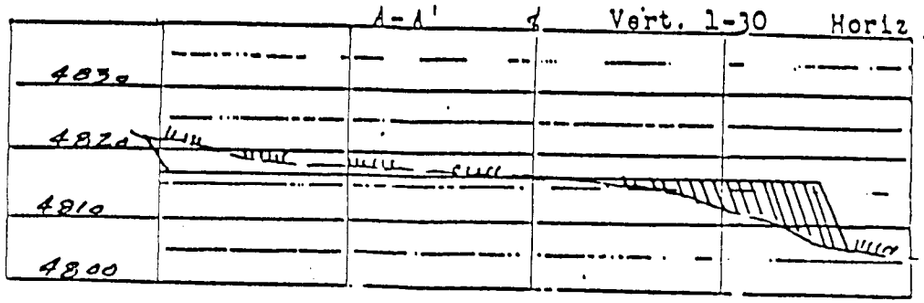


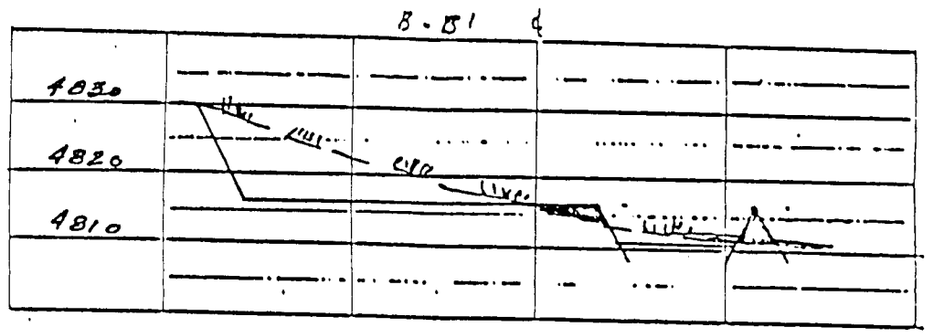
Vicinity Map for
Phillips Petroleum #20-44 Ratherford Unit
620'FS 760'FE Sec 20-T41S-R24E
San Juan County Utah

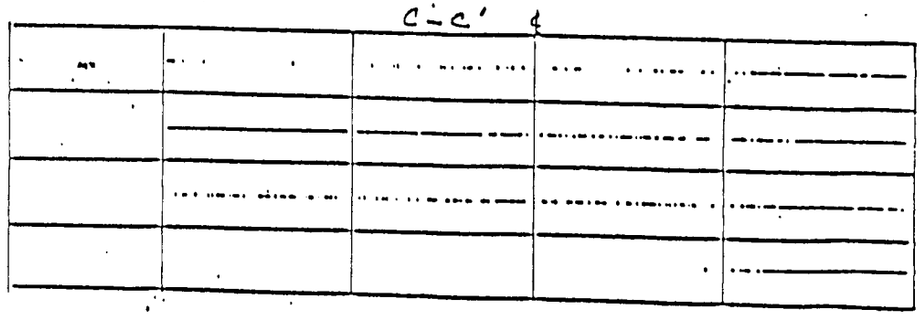
Profile for
Phillps Petroleum Co #20-44 Ratherford Unit
620'FSL 760'FEL Sec, 20-T41S-R24E
San Juan County, Utah



Date:
Kerr Land Surveying







Kerr Land Surveying Inc.

Date: Februry 1, 1982

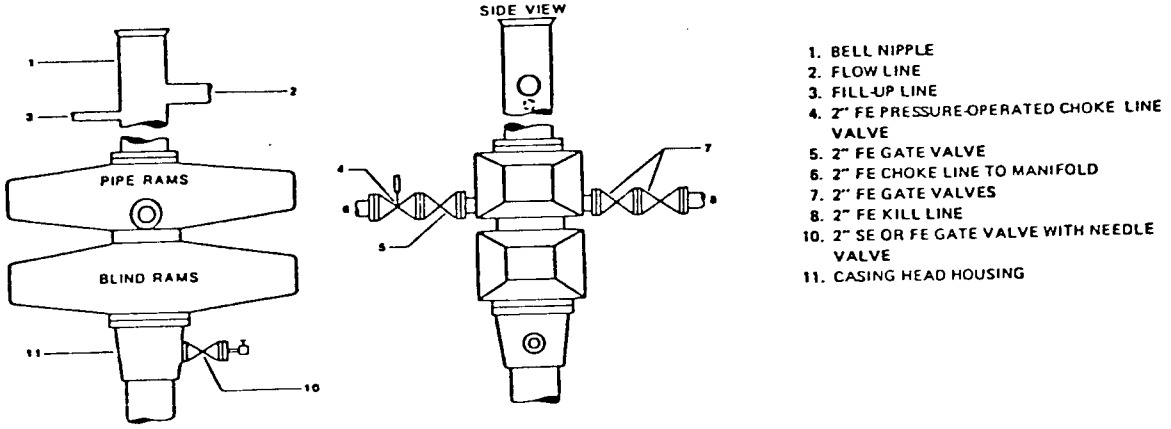


Figure 7-10. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

BLOWOUT PREVENTER TESTING PROCEDURE

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 - TWO RAM UNITS

After all blowout preventers, regular choke lines, valves, bell nipples, and flow lines are rigged up, the following steps are to be carried out with no exceptions: (Emergency choke and kill lines are not to be connected below the bottom preventer at this time.)

Preparations for Test Steps 1-9

1. Inspect all flanges to see if all bolts are in place and tight.
2. Check all opening and closing lines to preventers to see if they are correctly placed, hooked up, and tight.
3. Check to see that all control valves are properly marked.
4. Open bradenhead valves and wash inside of preventers with water from the top. No lines are to be connected to the bradenhead at this time.
5. Connect water into suction of mud pump and pump water through kill line and out bradenhead valves until water clears up.
6. Connect test line in place of kill line.

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 TWO RAM UNITS (Contd.)

7. Connect kill line to one bradenhead valve and open valve.

8. Close other bradenhead valve.

9. Fill preventers with water.

10. Close blind rams with 1,500 psi.

Casing Blind Ram and Bradenhead Test Steps 10-24

11. Check closing line and preventer for leaks.

12. Pressure up casing with mud pump to pressure required to test casing using water. Hold for 10 minutes.

13. Check bradenhead, bradenhead valve flanges, and blind rams for leaks.

14. Install a pressure gauge on the bradenhead valve opposite where the kill line is tied on.

15. Open bradenhead valve to read casing pressure.

16. Close bradenhead valve on side where kill line is tied on.

17. Release pressure on kill line.

18. Disconnect kill line from bradenhead valve.

19. Check bradenhead valve for leaks on the side where the kill line was disconnected. See that casing pressure has not dropped below the required test pressure.

20. Remove pressure gauge and bleed down casing.

21. Close bradenhead valve(s).

22. Open blind rams with 1,500 psi.

23. Check opening line and preventer for leaks.

24. Disconnect kill line from bradenhead valve and open both bradenhead valves.

BOP Stack and Choke Line Test Steps 25-38

25. Run test plug in on a joint of drill pipe, set in seat.

NOTE: Test plug to be fabricated so that there will be enough clearance between plug and pipe rams to clear tool joint when closed on joint of drill pipe made up in plug. The plug must be drilled so there is communication between inside of drill pipe and top of plug above seal surface.

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 TWO RAM UNITS (Contd.)

26. Install safety valve and kelly on top of drill pipe.

27. Fill preventers with water.

28. Open all valves on choke lines and check to see that water is flowing through each outlet. Let run until clear. Open valves on kill line side of spool.

29. Close outside valves on choke lines making sure they are full of water and have no trapped air.

30. Refill preventers if necessary.

31. If Hydril is used in place of upper ram type preventer, close 1" plug valve on closing line. Test to 1,500 psi. Inspect valve for leaks. Release pressure. Open valve.

32. Close pipe rams or Hydril with 1,500 psi.

33. Check closing line and preventer for leaks.

34. Open stand pipe valve, kelly cock, and safety valve, and fill kelly with water.

35. Close kelly cock.

36. If Hydril is used, reduce closing pressure to that recommended on page 56. Closing pressure may be increased as required to effect a seal up to a maximum of 1,500 psi.

37. Pressure up to working pressure of preventers through test line. For maximum Hydril packing unit life, as the test pressure builds up, reduce the closing pressure and later apply opening pressure per applicable schedule starting on page 57, provided a schedule is listed for the Hydril in use. Hold test pressure for 10 minutes.

38. Check all valves, flanges, and seals that are under pressure for leaks and tighten if necessary. Check test plug for leak.

Choke and Kill Valve Tests
Steps 39-55

39. Close second valve from hole on choke line. Open outside valve on full opening line. Hold pressure for one minute.

40. Check to see if valve leaks.

41. Close inside valve on choke line. Open second valve out on choke line. Hold pressure for one minute.

42. Check to see if valve leaks.

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 TWO RAM UNITS (Contd.)

43. Close safety valve and open kelly cock.

44. Check safety valve for leaks.

45. Close inside valve on kill line side. Open inside valve on choke line side. Hold pressure for one minute.

46. Check to see if valve leaks.

47. Close second valve out on kill line. Open inside valve on kill line. Hold pressure for one minute.

48. Check to see if valve leaks.

49. Open second valve out on kill line. Close inside valves on kill line and choke line.

50. Disconnect test line; connect kill line.

51. Open pipe rams (or Hydril) with 1,500 psi.

52. Check opening line and preventer for leaks.

53. Pull plug out of hole.

54. Close bradenhead valves.

55. Record test on drilling report.

B. RAM CHANGE TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 OR 8 - TWO RAM UNITS

If Hydril is used in place of upper ram type preventer, ram change test is not required since no change will be made in preventer assembly to run casing.

Preparations Steps 1-2

1. After getting out of hole, open choke line valves and drain mud out of preventers. No lines are to be connected to Figure 7 bradenhead valves at this time.

2. Wash inside of preventers from top with water.

Ram Change Steps 3-9

3. Close blind rams.

4. Open bonnets or doors on upper ram type preventer.

5. Remove drill pipe rams.

6. Install rams to fit casing.

B. RAM CHANGE TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 OR 8 - TWO RAM UNITS (contd.)

7. Close bonnets or doors, checking all seals and "O" rings.

8. Tighten up all bolts and inspect preventer to see that bonnets or doors are closed, steel to steel.

9. Open blind rams.

Casing Ram Test Steps 10-22

10. Install test plug and test line on extra joint of casing the same size that is to be run. Casing joint used must be of sufficient strength to withstand test pressures. The crossover connections used to get from casing joint to test plug must be short enough to permit the casing rams to close against casing.

11. Set test plug in casing spool.

12. Fill preventers with water.

13. Close casing rams.

14. Purge air from casing joint.

15. Pressure up through casing joint to working pressure of preventers. Hold for 10 minutes.

16. Check for leaks in all flanges and seals that hold pressure, especially bonnet or door seals on preventer changed.

17. Release pressure.

18. Open casing rams.

19. Pull test plug out of hole.

20. Close choke line valve.

21. Change sign on valve on blowout preventer closing manifold that controls casing rams to indicate casing rams instead of drill pipe rams.

22. Record test and ram changes in drilling report.

C. WEEKLY TEST PROCEDURE FOR INSTALLATIONS AS SHOWN ON FIGURE 7 - TWO RAM UNITS

Preparations for Test Steps 1-10

1. Inspect all flanges to see if all bolts are in place and tight.

2. Check all opening and closing lines to preventers to see if they are correctly placed, hooked up, and tight.

C. WEEKLY TEST PROCEDURE FOR INSTALLATIONS AS SHOWN ON FIGURE 7 - TWO RAM UNITS (contd.)

3. Remove kill line and install test line in flange outside of s... valve on the kill line side of the drilling spool.

4. Open valves on bradenhead and wash inside of preventers with water from the top. No lines are to be connected to the bradenhead at this time.

5. Run test plug in on a joint of drill pipe and set in seat.

6. Install safety valve and kelly on top of drill pipe.

7. Fill preventers with water.

8. Open all valves on choke lines and check to see that water is flowing through each choke line and full opening line. Let run until it clears up.

9. Close all outside valves on choke line, making sure they are full of water and do not have air trapped in them.

10. Refill preventers if necessary.

BOP Stack and Kelly Cock Test Steps 11-17

11. Close pipe rams (or Hydril, if used in place of upper ram type preventer).

12. Check closing line and preventer for leaks.

13. Open stand pipe valve, kelly cock, and safety valve, and fill kelly with water.

14. Close kelly cock.

15. If Hydril is used, reduce closing pressure to that listed on page 56. This may be increased as required up to a maximum of 1,500 psi.

16. Pressure up to 1/2 working pressure of preventers. For maximum Hydril packing unit life, as the test pressure builds up, reduce the closing pressure and later apply opening pressure per applicable schedule starting on page 57, provided a schedule is listed for the Hydril in use. Hold test pressure for 10 minutes.

Safety Valve Test Steps 18-24

17. Check for leaks.

18. Close safety valve and open kelly cock.

19. Check safety valve for leaks.

C. WEEKLY TEST PROCEDURE FOR INSTALLATIONS AS SHOWN ON FIGURE 7 - RAM UNITS (Contd.)

20. Release pressure.

21. Open pipe rams (or Hydril)

22. Pull plug out of hole.

23. Close bradenhead valves.

24. Record test on drilling report.

BLOWOUT PREVENTER TESTING PROCEDURE

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 8 TWO RAM UNITS - LOW SUBSTRUCTURE

After all blowout preventers, choke lines, valves, bell nipples, and flow lines are rigged up, the following steps are to be carried out with no exceptions:

Preparations Steps 1-10

1. Inspect all flanges to see if all bolts are in place and tight.

2. Check all opening and closing lines to preventers to see if they are correctly placed, hooked up, and tight.

3. Check to see that all control valves are properly marked.

4. Remove kill line and open all valves on bradenhead.

5. Open all valves on choke manifold and wash inside of preventers with water from the top. Check to see that water is flowing through each choke line and kill line.

6. Close outside valves on kill line side and on choke lines.

7. Install test line in flange on outside of second valve on kill line side of bradenhead.

8. Fill preventers.

9. Open outside valve on kill line side and pump through test line until all air is purged.

Kill Line Outlet Valves Test Steps 10-16

10. Close inside valve on kill line side.

11. Pressure up to working pressure of preventers. Hold for one minute.

12. Check for leaks.

OPERATOR Phillips Petroleum DATE 7-15-83

WELL NAME Rutherford Unit #20-44

SEC 5E56 20 T 41S R 24E COUNTY San Juan

43-037-30915
API NUMBER

Fee
TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX ☐ MAP ☐ HL

☐ NID ☐ ☐ PI

PROCESSING COMMENTS:

CHIEF PETROLEUM ENGINEER REVIEW:

✓ 7/15/83

APPROVAL LETTER:

SPACING: ☑ A-3 Rutherford Unit ☐ c-3-a
UNIT CAUSE NO. & DATE

☐ c-3-b ☐ c-3-c

SPECIAL LANGUAGE:
(Water) - OK

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [x] VERIFY ADEQUATE AND PROPER BONDING
- [ ] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [ ] ORDER _____
  - [x] UNIT Rutherford Unit
  - [ ] c-3-b
  - [ ] c-3-c
- [ ] CHECK DISTANCE TO NEAREST WELL.
- [ ] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- [x] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

July 15, 1983

Phillips Petroleum Company
P. O. Box 2920
Casper, Wyoming 82602

RE: Well No. Ratherford Unit 20-44
SESE Sec. 20, T. 41S, R. 24E
620' FSL, 760' FEL
San Juan County, Utah

Gentlmen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure. Prior to spudding, A copy of the Utah Division of Water Rights (801-533-6071) approval for use or purchase of drilling water must be submitted to this office, otherwise this approval is void.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30915.

Sincerely,

R. J. Firth
Chief Petroleum Engineer

RJF/as
cc: Oil & Gas Operations
Minerals Management Service
Bureau of Indian Affairs

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other leadline
2. NAME OF OPERATOR: Phillips Petroleum Company
3. ADDRESS OF OPERATOR: P.O. Box 2920, Casper, Wyoming 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
   AT SURFACE: (SE, SE) Sec. 20
   AT TOP PROD. INTERVAL:
   AT TOTAL DEPTH:
5. LEASE: 14-20-603-353
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
7. UNIT AGREEMENT NAME: SW - I - 4192
8. FARM OR LEASE NAME: Ratherford Unit
9. WELL NO.: 20-44
10. FIELD OR WILDCAT NAME: Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20, T41S - R24E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah
14. API NO.: 43-037-30915
15. ELEVATIONS (SHOW DF, KDB, AND WD)

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other) Install lead line			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Approval is requested to install a lead line as shown on the attached Plat A-2A. The lead line will connect the Ratherford Unit #20-44 well to Satellite 20, following existing roads. This proposed leadline routing is a revision from that shown in the approved APD.

DIVISION OF
GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

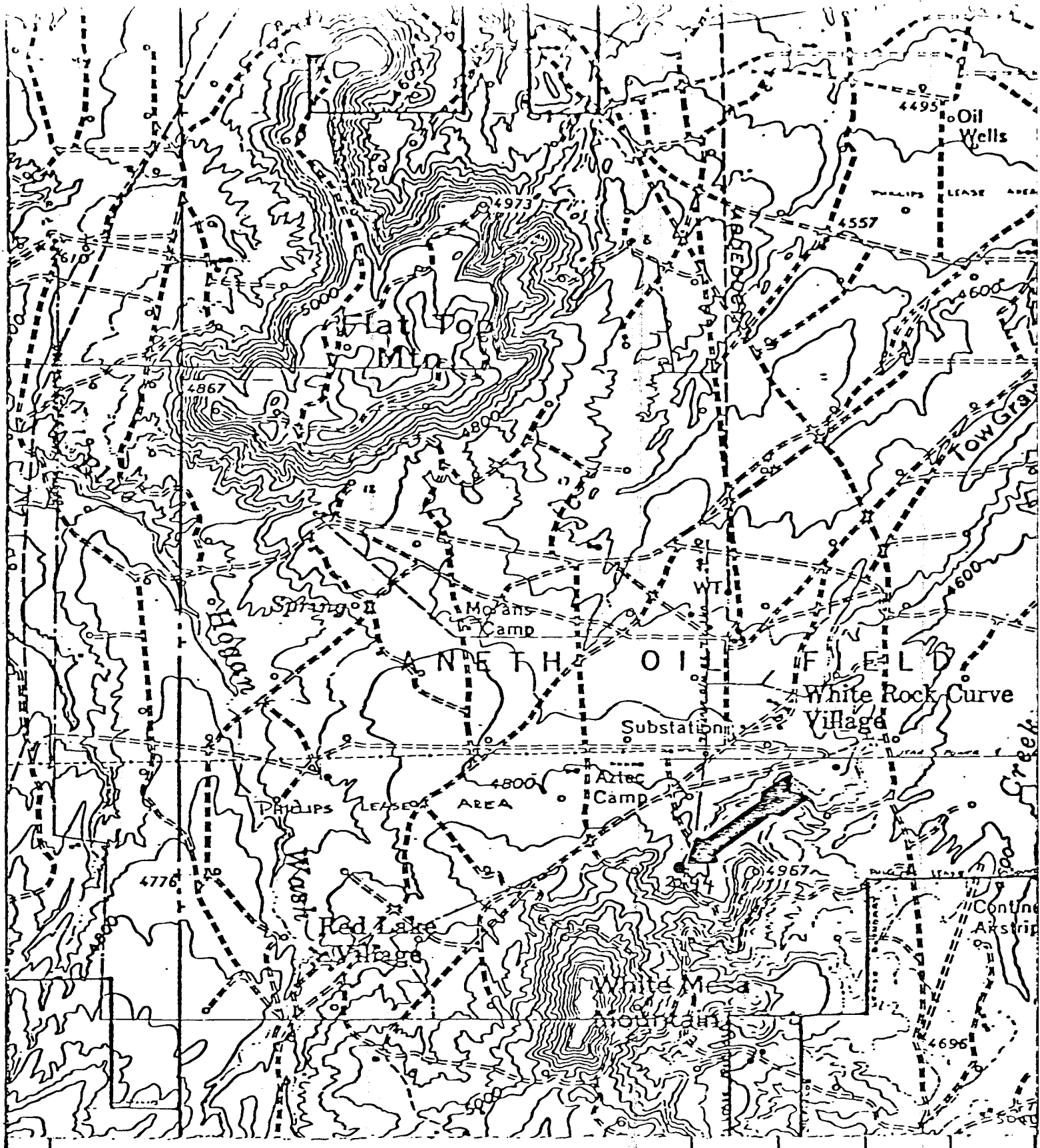
SIGNED A. E. Stuart TITLE Area Manager DATE Nov. 9, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

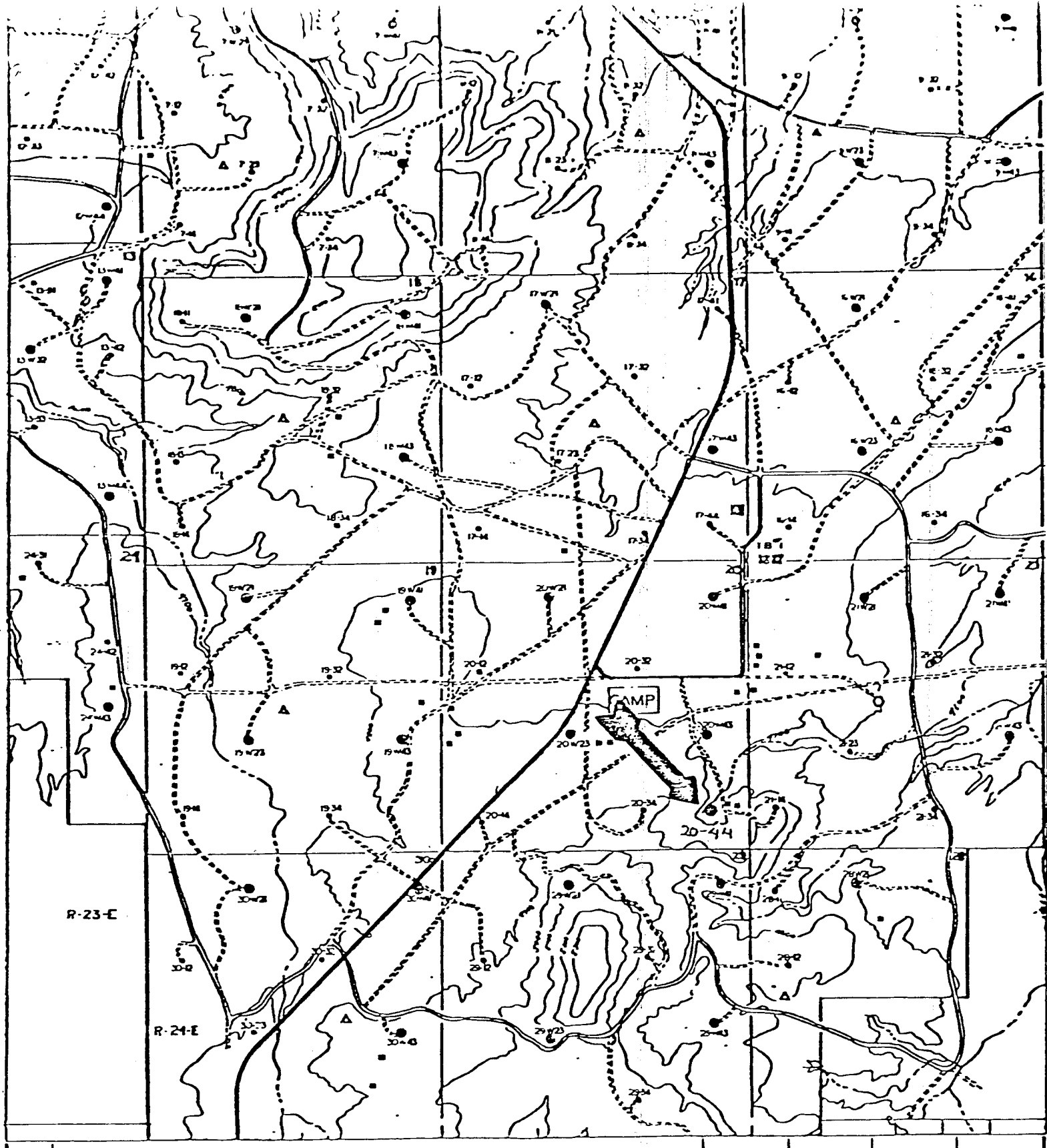
5-BLM-Farmington
1-Utah O&G cc - S.L.C. Utah
1-J. L. Whitmire (r) T. C. Doughty
1-G. W. Berk 1-File
1-T. M. Isaacs

*See Instructions on Reverse Side



NO.	REVISION	BY	DATE	CHKD	APP'D

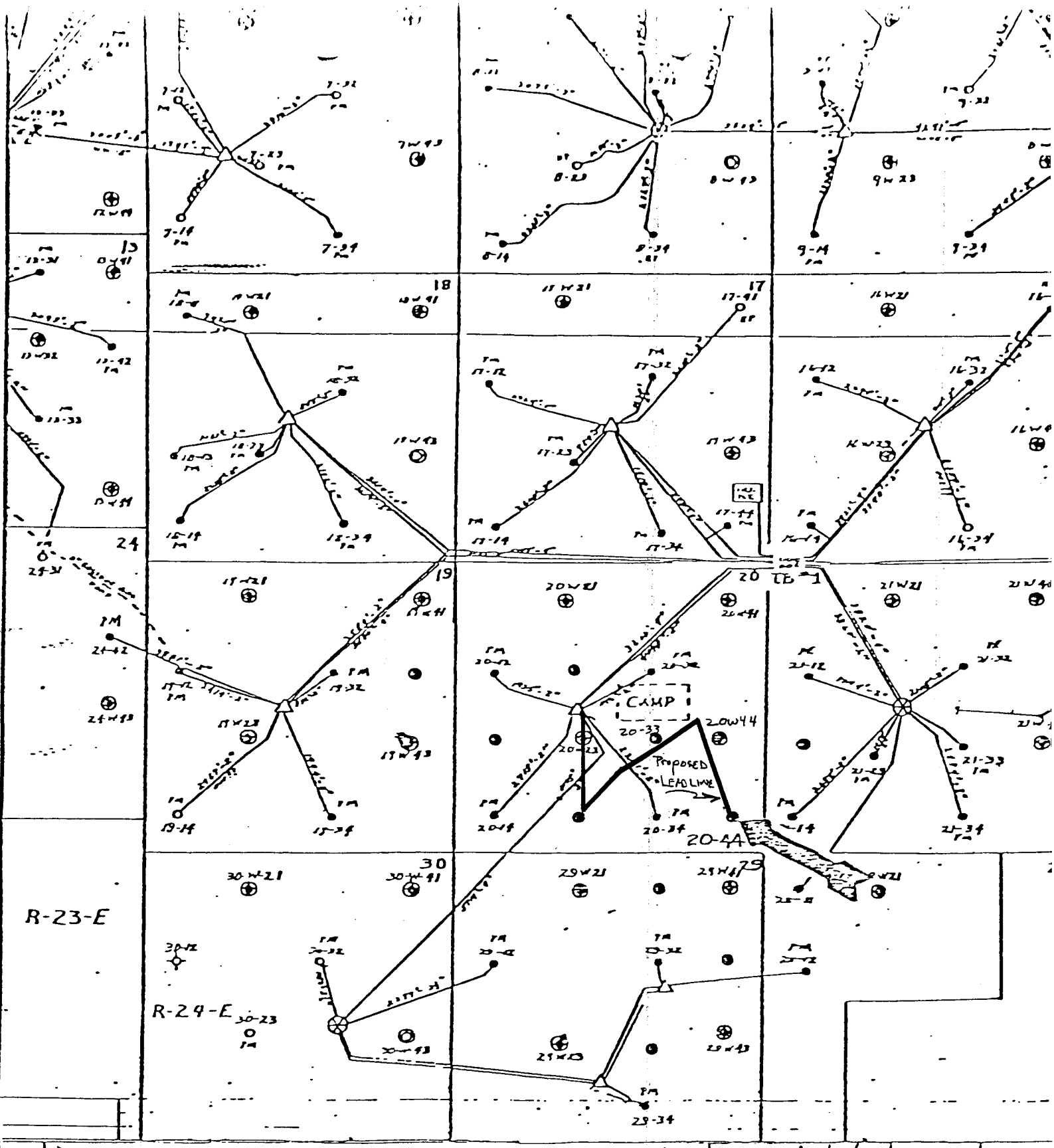
FOR BIDS	PHILLIPS PETROLEUM COMPANY	JA NO.	FILE CODE
FOR APPR		AFE NO.	SCALE 2¼" = 1 Mi.
FOR CONST	Rutherford Unit Well # 20-44		
DRAWN CJW	SESE Sec 20 R41S T24E	DWG NO.	
CHECKED	San Juan Co., Utah	SH NO.	
APP'D			



NO.	REVISION	BY	DATE	CHKD	APP'D

FOR BIDS	PHILLIPS PETROLEUM COMPANY	JA NO.	FILE CODE
FOR APPR		AFE NO.	SCALE 2¼" = 1mi
FOR CONST	Rutherford Unit Well # 20-44		
DRAWN CJW	SESE Sec 20 R41S T24E	DWG NO.	
CHECKED	San Juan Co., Utah	SH NO.	
APP'D			

FORM 1279-S 1-81



NO.	REVISION	BY	DATE	CHKD	APP'D
1	ROUTING OF LEADLINE CHANGED	BJM	11/7/83		

FOR BIDS
FOR APPR
FOR CONST

DRAWN CJW
CHECKED
APP'D

PHILLIPS PETROLEUM COMPANY

RATHERFORD UNIT WELL 20-44
PROPOSED LEADLINE (REVISED)
SE SE SEC. 20-T 41S-R 24E
SAN JUAN CO., UTAH

JA NO.
FILE COD
AFE NO.
SCALE 1/4" = 1M
DWG NO.
SH NO. A-2A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT OF OPERATIONS

Lease No. 14-20-603-353
Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Petroleum Company
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of October, 19 83

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
20-44	Sec 20 SE SE	41S	24E	DRG		INITIAL REPORT			

MI Dry Hole Digger 10/17/83. Drld 18" cond hole to 126'. Set 3 jts 13-3/8" R3 8Rd K-55 ST&C Csg at 126' GL. Cmtd w/150 sx Class B. Drop plug and displd w/17 BW. Circ 5 bbls good cmt. Left 2-1/2 bbls cmt in csg shoe. RD Dry Hole Digger 10/18/83. MI Four Corners, Rig #8, 10/19/83. Spudded 12-1/4" surface hole at 9:30 pm, 10/19/83. Drld to 1610'. Set 41 jts 9-5/8" 40# K-55 ST&C Csg at 1584', cmtd w/300 sx Class B, followed w/200 sx Class B. Displd w/119 BW. Bmpd Plug w/150 psi at 8:30 pm, 10/20/83. Circ thru out job, cmt did not circ. Fluid in annulus dropped after completing cmt job. From top, pmpd in 100 sx Class B Cmt in 3 stages. Annulus would fill, but would not stay full. Instld bradenhead, tested weld to 3000 psi, OK. NU BOP s. Tested blind rams and pipe rams to 3000 psi, OK. Drld plug, 42' cmt and 10' new hole. Run leakoff test to 11.5 ppg. Drld to 3655'. WIH w/8-3/4" bit and drld to TD 5706' at 3:00 pm, 10/30/83. Made 10 std wiper trip. Circ and cond mud. COOH, SLM OK. RU Schl., loggers TD 5706'. Ran DLL, MSFL, GR. 2nd Run, FDC-CNL-NGS.

Present Operation as of November 1, 1983 - TD 5706. Logging.

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

RECEIVED
NOV 15 1983
DIVISION OF OIL, GAS & MINING

Authorized Signature: A.E. Stuart Address: Box 2920, Casper, WY 82602
Title: Area Manager

Form 97 6M 8-59 Application No. 33773

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☒ Other Uses ☐
2. The name of the applicant is PHILLIPS PETROLEUM COMPANY
3. The Post Office address of the applicant is Bartlesville, Oklahoma
4. The quantity of water to be appropriated is -- 8 -- second-feet or ..... acre-feet
5. The water is to be used for See Explanatory (Major Purpose) from January 1 (Month) (Day) to December 31 (Month) (Day)

   other use period ..... (Minor Purpose) from ..... (Month) (Day) to ..... (Month) (Day)

   and stored each year (if stored) from ..... (Month) (Day) to ..... (Month) (Day)
6. The drainage area to which the direct source of supply belongs is ..... (Leave Blank)
7. The direct source of supply is* Underground water and subsurface flow of San Juan River (Name of stream or other source)

   which is tributary to Colorado River tributary to .....

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point* ~~See Explanatory~~ #1-S.1000 ft. and W. 150 ft.; #2-S.1000 ft. and W. 450 ft.; #3-S.1000 ft. and W. 750 ft.; #4-S.1000 ft. and W. 1050 ft.; #5-S.1000 ft. and W. 1350 ft.; #6-S.1000 ft. and W. 1650 ft.; #7-S.1000 ft. and W. 1950 ft.; #8-S.1000 ft. and W. 2250 ft.; #9-S.1000 ft. and W. 2550 ft.; and #10-S.1000 ft. and W. 2850 ft.; all from NE Cor. Sec. 5, T41S, R24E. SLB&M. (See letter of 3-16-61 attached

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of See Explanatory
10. If water is to be stored, give capacity of reservoir in acre-feet ..... height of dam ....., area inundated in acres ..... . legal subdivision of area inundated .....
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

    ..... Total ..... Acres
12. Is the land owned by the applicant? Yes..... No.....
13. Is this water to be used supplementally with other water rights? Yes..... No.....

    If "yes," identify other water rights under explanatory.
14. If application is for power purposes, describe type of plant, size and rated capacity.....
15. If application is for mining, the water will be used in Greater Aneth Area ~~(name of mine)~~ ~~the~~ oil field ~~mine~~, where the following ores are mined oil and gas
16. If application is for stockwatering purposes, number and kind of stock watered.....
17. If application is for domestic purposes, number of families to be served.....
18. If application is for municipal purposes, name of municipality .....
19. If application is for other uses, include general description of proposed uses.....
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. ~~See Explanatory~~.....
21. The use of water as set forth in this application will consume -- 8 -- second-feet of water and -- 0 -- second feet will be returned to the natural stream or source at a point described as follows:.....

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

ITEM 7

The water will be pumped from the diversion area to the oil field where the water will be injected under pressure through deep wells into the petroleum-bearing formations for pressure maintenance and secondary recovery purposes.

ITEM 8

The point or points of diversion from the source will be in Section 5, T41S, R24E SLM, San Juan County, situated as follows: From that point at which the south bank of the river channel intersects the east line of Section 5, T41S, R24E, to that point at which the South bank of river channel intersects the North line of Section 5, T41S, R24E.

Diversion will be from one or more wells or infiltration galleries to be drilled in the alluvial fill and to be located as close to the South bank of the river channel as is practical within the east-west limits as above defined. Specific location and number of diversion points will be determined by a hydrographic survey and/or producing characteristics of wells to be drilled. The aggregate withdrawal, the rate of which is not to exceed that specified in this application, will be commingled in a conveyance works described in greater detail herein.

ITEM 9

The diverting and carrying works will consist of 12-1/4" diameter wells, cased with 35 to 50 feet of 8-5/8 inch outside diameter pipe to be drilled to depths of from 35 feet to 50 feet and about 14,500 feet of 10-3/4 inch conveyance pipe to places of use.

ITEM 20

Township 41 South, Range 23 East, SLM

S/2 Sec. 1; SE/4 Sec. 2; E/2 Sec. 11; All Sec. 12; All Sec. 13, E/2 Sec. 14, NE/4 Sec. 24.

Township 41 South, Range 24 East, SLM

All Sections 3, 4, 5, 6, 7, 8, 9, 10; W/2 Sec. 11, W/2 Sec. 14; All Sections 15, 16, 17, 18, 19, 20, 21; NW/4, W/2 SW/4 Sec. 22; W/2 NE/4, NW/4, W/2 SW/4 Sec. 28; All Sections 29, 30; N/2 Sec. 31; N/2 Sec. 32.

Said described lands, which are in San Juan County, Utah, constitute the Ratherford portion of the Greater Aneth Area oil field.

Continued on page 4

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

PHILLIPS PETROLEUM COMPANY

By: L. E. Fitzgerald

Signature of Applicant*

VICE PRESIDENT OF PRODUCTION

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the ..... day of..... , 19..... personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

FEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.		Cost	
0.0	to 0.1	$ 10.00	
over 0.1	to 0.5	20.00	
over 0.5	to 1.0	30.00	
over 1.0	to 15.0	30.00	plus $5/cfs above 1.00 cfs.
over 15.0		100.00	
Storage — acre-feet			
0	to 20	15.00	
over 20	to 500	30.00	
over 500	to 7500	30.00	plus $5/500 a. f. above first 500
over 7500		100.00	

RECEIVED ... STATE ENGINEER ... OFFICE

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. Feb. 27, 1961 Application received ~~over counter~~ by mail in State Engineer's office by ....
2. .... Priority of Application brought down to, on account of ....
3. Feb. 27, 1961 Application fee, $ 15.00, received by .... Rec. No. 02265
4. Mar. 10, 1961 Application ~~copied in~~ PHOTOSTATED book 70-32, page 357, and indexed by ....
5. .... Application platted by .... aac-(5)abd-(6)abd-(7)abd-( )abc( )abc ( ) bad
6. April 7, 1961 Application examined by ....
7. .... Application returned, ... or corrected by office ....
8. .... Corrected Application resubmitted over counter / by mail to State Engineer's office.
9. April 7, 1961 Application approved for advertisement by ....
10. June 16, 1961 Notice to water users prepared by R. K. H.
11. June 29, 1961 Publication began; was completed July 13, 1961

Notice published in San Juan Record, Monticello, Utah

12. June 27, 1961 Proof slips checked by ....
13. ✓ .... Application protested by ....

July 25, 1961 Publisher paid ....

14. .... Hearing held by ....
15. .... Field examination by ....
16. Sept. 5, 1961 Application designated for approval ~~rejection~~ ....
17. Sept. 11, 1961 Application copied or photostated by T.E. proofread by ....
18. Sept. 11, 1961 Application approved ~~rejected~~
19. **Conditions:**

This Application is approved, subject to prior rights, as follows:

a. Actual construction work shall be diligently prosecuted to completion.

b. Proof of Appropriation shall be submitted to the State Engineer's office by Feb. 28, 1963

c. ....

Wayne D. Criddle

Wayne D. Criddle, State Engineer.

20. .... Time for making Proof of Appropriation extended to ....
21. .... Proof of Appropriation submitted.
22. .... Certificate of Appropriation, No. ...., issued

Application No. 32773

EXPLANATORY CONTINUED

The use of the applied for water for the planned pressure maintenance and secondary recovery operations will permit the recovery of substantial quantities of oil and gas which would otherwise not be recovered.

NOTICE TO APPLICANT

All waters in this state, whether above or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certficate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

November 21, 1983

Phillips Petroleum Company
P. O. Box 2920
Casper, Wyoming 82602

RE: Well No. Ratherford #20-44
SESE Sec. 20, T. 41S, R. 24E.
620' FSL, 760' FEL
San Juan County, Utah

Gentlemen:

We have received a copy of a "Monthly Report of Operations" on the above referred to well for the month of October 1983. In this report it was stated that this well was spudded on October 19, 1983.

This office has not received an official notification of this spud. Enclosed with this letter is a blank spud notice. We would appreciate your filling out this notice with the necessary information on this spud.

It is the correct procedure to telephone in the information to this office at the time the spudding occurs and then to follow that up with a written sundry notice.

Your prompt attention to this matter will be greatly appreciated.

Respectfully,

Claudia Jones

Claudia Jones
Well Records Specialist

CJ/cj

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 9-329-1 Rev. Feb 76
OMB 42-R0356

MONTHLY REPORT
OF
OPERATIONS
(Continued)

Lease No. 14-20-603-353

Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Petroleum Company

☐ Amended Report

The following is a continuation of the report of operations and production (including status of all unplugged wells) for the month of November, 19 83

(See Reverse of Form 9-329 for Instructions)

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
20-44		Continued From Page 1							
		gals/1000 bbls acid. Dropped 150 7/8" 1.3 SP ball sealers through middle 150 bbls acid. Slight ball action. Overdispld w/33 bbls SD. ISIP 2250 psi, 5 min 1800 psi, 10 min 1400 psi, 15 min 1300 psi. Flow back well on choke. RD and release rig 11/22/83. Well turned over to production..	W-250.1. Avg 5.8 BPM, 2700 psi. Max press 3000 psi.						

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT OF OPERATIONS

Lease No. 14-20 03-353
Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Petroleum Company
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of November, 1983

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
20-44	Sec. 20 SE SE	41S	24E	DRG					

Present Operation as of December 1, 1983 - PBTD 5642. Flwg on test

RD Schl. RU csg crew. Ran 28 jts 7" 26# K-55 Butt & 113 jts 7" 23# K-55 ST&C csg set at 5706', collar at 5662'. RU Dowell. Cmtd w/400 sx Class B w/20% Diacel-D, 10% salt, 1/4#/sx Celloflake & 10#/sx Colite. Tailed in w/350 sx Class B w/.75% D-59, 18% salt & 1/4#/sx Celloflake. Dropped plug. Bumped plug & press to 1500 psi, OK. Release press, float held. Good returns thru out job. Did not circ cmt. RD Dowell. Set slips & cut-off csg. NU tbghead. Released rig at 3:00 am, 11/1/83. MI Completion Unit 11/17/83. RU & tested csg packoff. Packoff rubber was pinched & lipped over into csg. Removed tbg spool. Bad cutoff on csg. Weld on new piece of 7" 26# csg. Made new cutoff. Passed 6-1/8" bit & scraper due to weld. NU tbg spool. Press test packoff to 2400 for 10 min. Held OK. NU 7" BOP's. Press tested pipe & blind rams to 3000 psi. 400 psi low press. Press test csg to 1500 psi. Held 20 min, OK. PU 6-1/8" bit, 7" csg scraper and 192 singles 2-7/8" tbg. Tagged cmt at 5642'. RU GO. Test lubricator to 1800 psi, OK. WIH w/CBL-VDL-GR-CCL. Logged 5638' to 2300'. TOC at 2350'. Ran log w/ 1800 psi on csg. WIH w/4" csg gun. Perf 5559-5570', 5570-5590', 5590-5610' in 3 runs w/23 gm DMLXXIII chgs .45" ent hole, 2 HPF, total 102 holes. RD GO, RU 7" Bkr R-3 pkr, SN, 4 jts tailpipe. WIH w/178 jts 2-7/8" tbg. TP at 5415'. RU Dowell. Spot acid on perfs, 190 gals 28% HCL. Pmpd 7312 gals 28% MSR w/2 gals/1000 A-250 and 4 (Cont'd)

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A.E. Stuart Address: P.O. Box 2920, Casper, WY 82602
Title: Area Manager

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT OF OPERATIONS

Lease No. 14-2 03-353
Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Petroleum Company
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of December, 19 83.

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
20-44	Sec. 20 SE SE	41S	24E	DRG					Present Operation as of January 1, 1984 - PBTD 5642. Flwg on test. Flow tested all month averaging 284 BOPD, 106 MCFGPD, 4 BWPD, 17/64" CK, FTP 400 psi.

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A.E. Stuart Address: P.O. Box 2920, Casper, WY 82602
Title: Area Manager

Form OGC-1b

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.: API 43037309 15

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME: Rutherford Unit

2. NAME OF OPERATOR: Phillips Pet. Co.

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: 8055 E. Tufts Ave. Parkway, Denver CO. 80237

9. WELL NO.: 20-44

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 620 FSL + 760 FEL

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SESE Sec 20-T41S-R24E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4817 ungraded GL

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other) Set 7" Csg.	[ ]			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Set 7" Prod Csg @ 5706'

Drilled by Four Corners Drlg Co.

DEC 22 1983

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

SIGNED Bobby Cuppa TITLE Staff Development Supv. DATE 12-15-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
8055 E Tufts Ave Pkwy; Denver, CO 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 620 FSL & 760 FEL (SE/SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.
20-44

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 20, T41S, R24E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30915

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4817 GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	[ ]		[ ]
FRACTURE TREAT	[ ]		[ ]
SHOOT OR ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
ABANDON*	[ ]		[ ]
(other)			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded well October 19, 1983, with Four Corners Rig #8. Drilled 12-1/4" hole to 1610'. Ran 1584' 40# K-55 surface casing. Cemented with 720 ft^3 (300 sx) Class B w/20% Diacel D, tailed w/240 ft^3 (200 sx) Class B. Cement did not circulate. Cemented annulus w/120 ft^3 (100 sx) Class B through 1" pipe. Job completed 10-20-83.
Drilled 8-3/4" hole to 5706. Ran 5706' 7" 23# and 26# K-55 casing. Cemented with 960 ft^3 (440 sx) Class B w/20% Diacel D, tailed with 420 ft^3 (350 sx) Class B w/18% salt. Pressure tested casing to 1500 psi. Job completed 11-1-83. TOC at 2350.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED _____ TITLE Drilling Manager DATE December 29, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY

*See Instructions on Reverse Side

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Phillips Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	[ ]		[ ]
FRACTURE TREAT	[ ]		[ ]
SHOOT OR ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
ABANDON*	[ ]		[ ]
(other) Change of Operator			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Effective December 1, 1983, Phillips Oil Company assumed operations from Phillips Petroleum Company. The following wells had Applications for Permits to Drill submitted under Phillips Petroleum Company:

Ratherford Unit #19-42, 20-13, 20-44, 20-22, 20-24, 20-33, 21-13, 29-42, 29-32, & 29-33. + 29-31

JAN 16 1984

DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED A. E. Stuart TITLE Area Manager DATE 1/13/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLIC. (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

16

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Phillips Oil Company

3. ADDRESS OF OPERATOR: P.O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 620' FSL & 760' FEL, SE SE
At top prod. interval reported below
At total depth

DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME: SW-I-4192

8. FARM OR LEASE NAME: Ratherford Unit

9. WELL NO.: 20-44

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 20-T41S-R24E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-037-30915	7/15/83	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10/19/83	10/30/83	11/23/83	GR 4820' DF 4832' RKB 4832'	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5706'	5642'	--	→	0 - 5706'	--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5559 - 5610' Desert Creek Zone I

25. WAS DIRECTIONAL SURVEY MADE: --

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL, MSFL, GR, FDC-CNL-NGS

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	126'	18"	150 sx Class B	--
9-5/8"	40#	1584'	12-1/4"	500 sx Class B	--
7"	23# & 26#	5706'	8-3/4"	750 sx Class B	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
--	--	--	--	--

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5277'	5277'

31. PERFORATION RECORD (*Interval, size and number*)

5559-5570', .45", 2 HPF
5570-5590', .45", 2 HPF
5590-5610', .45", 2 HPF
w/23 gm DMLXXIII chgs, 102 holes total

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5559-5610'	Spot 190 gals 28% HCL. Pmpd 7312 gals 28% MSR w/2 gal/1000 A-250 & 4 gals/1000 W-250. I. Dropped 150 7/8", 1.3 sp gr, ball sealers thru middle 150 bbls acid. Sli ball action. Over displd w/33 bbls.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
11/23/83	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11/26/83	24	17/64"	→	284	106	4	373

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL--BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
400	--	→	284	106	4	40

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Sold

TEST WITNESSED BY: --

35. LIST OF ATTACHMENTS: None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A.E. Stuart TITLE Area Manager DATE 1/10/84

(See Instructions and Spaces for Additional Data on Reverse Side)

3 - BLM, Farmington
2 - Utah O&GCC, SLC, Utah
1 - BIA, Shiprock NM
1 - Navajo Tribe, Window Rock
1 - B. Conner, B'Ville
1 - Whitmire, Denver
1 - Poling, Denver
1 - Fraser
1 - Coffelt
1 - W.I. Owners
1 - File

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
NO CORES OR DST'S RUN.			

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
	LOG TOPS	
Shinarump		2370'
DeChelly		2672'
Hermosa		4423'
Paradox		5420'

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

GPO 680-378

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 9-329 Rev. Feb 76
OMB 42-R0356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 20-603-353

Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Oil Company

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of January, 19 84

(See Reverse of Form for Instructions)

This report is required by Law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
20-44	Sec. 20 SE SE	41S	24E	DRG			FINAL REPORT TD 5706, PBTD 5642' Completed as a flwg oil well 11/23/83 from Desert Creek Zone I perfs 5559-5610' with a final test of 284 BOPD, 106 MCFGPD, 4 BWPD, GOR 373.		

*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A. E. Stuart Address: P.O. Box 2920, Casper, WY 82602

Title: Area Manager

Page 1 of 1

RECEIVED
DIVISION OF OIL, GAS & MINING

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
8055 E. Tufts Ave. Pkwy./Denver, CO. 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 620 FSL & 760 FEL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.
20-44

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 20-T41S-R24E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30915

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4832 RKB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	[ ]		[ ]
FRACTURE TREAT	[ ]		[ ]
SHOOT OR ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
ABANDON*	[ ]		[ ]
(other)			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drill 18" conductor hole to 126 ft. Ran 126 ft, 13-3/8" 54.5# K-55 conductor casing. Set casing at 126 ft. Cemented with 180 ft^3 (150 sx) class 'B' cement circulated to surface. Finished job and moved out rat hole driller 10-18-83. Moved in drilling rig to spud well [illegible] Sundry Notice dated 12-29-83. Reached TD of 5706 ft 10-30-83. Plug back total depth is 5642 ft.

RECEIVED
FEB - 8 1984
DIV. OF OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED [signature] TITLE Drilling Manager DATE 2-2-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

6 - BLM Farmington, NM.
2 - Utah Oil & Gas CC Salt Lake City
1 - File - RC
1 - Casper
1 - T. M. Issacs

*See Instructions on Reverse Side

Form 3160-4
(November 1983)
(formerly 9-330)

AMENDED REPORT
Tbg Correction

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

16

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME: SW-I-4192

8. FARM OR LEASE NAME: Ratherford Unit

9. WELL NO.: 20-44

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 20-T41S-R24E

1a. TYPE OF WELL: OIL WELL [XX] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Phillips Petroleum Company

3. ADDRESS OF OPERATOR: P.O. Box 2920, Casper, Wyoming 82602

RECEIVED
OCT 23 1985
DIVISION OF OIL GAS & MINING

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 620' FSL & 760' FEL, SE SE
At top prod. interval reported below
At total depth

14. PERMIT NO.: API #43-037-30915 — DATE ISSUED: --

12. COUNTY OR PARISH: San Juan — 13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10/19/83	10/30/83	11/23/83	GR 4820', RKB 4832'	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5706'	5642'	--	→	0 - 5706'	--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5559' - 5610' Desert Creek Zone I

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL, MSFL, GR, FDC-CNL-NGS

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	126'	18"	150 sx Class B	--
9-5/8"	40#	1584'	12-1/4"	500 sx Class B	--
7"	23# & 26#	5706'	8-3/4"	750 sx Class B	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
--	--	--	--	--

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5460'	5460'

31. PERFORATION RECORD (*Interval, size and number*)
5559-5570', .45", 2 HPF
5570-5590', .45", 2 HPF
5590-5610', .45", 2 HPF
w/23 gm DMLXXIII chgs, 102 holes total

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5559-5610'	Spot 190 gals 28% HCL. Pmpd 7312 gals 28% MSR w/2 gal/1000 A-250 & 4 gals/1000 W-250.1. Dropped 150 7/8", 1.3 sp gr, ball sealers thru middle 150 bbls acid. Sli ball action. Over displd w/33 bbls.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
11/23/83	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11/26/83	24	17/64"		284	106	4	373

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
400	--		284	106	4	40

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Sold

TEST WITNESSED BY: --

35. LIST OF ATTACHMENTS: None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED D. C. Gill for TITLE Area Manager DATE 10/18/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

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.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			NO CORES OR DST'S RUN.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
	LOG TOPS	
Shinarump		2370'
DeChelly		2672'
Hermosa		4423'
Paradox		5420'

DISTRIBUTION:

4 - BLM, Farmington, NM
~~2~~ - Utah O&G CC, Salt Lake City, UT
1 - The Navajo Nation, Window Rock, AZ
1 - R. Ewing, B'Ville
1 - L. Williamson r) G. W. Berk
1 - T. L. Carter r) P. Bertuzzi
1 - W.I. Owner
1 - File RC

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:
On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,

R. D. Baker
Environmental Regulatory Manager

CNE/rd
CNE8661

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

P J KONKEL
PHILLIPS PETROLEUM COMPANY
5525 HWY 64 NBU 3004
FARMINGTON NM 87401

RECEIVED
AUG 16 1993
DIVISION OF
OIL, GAS & MINING

UTAH ACCOUNT NUMBER: N0772

REPORT PERIOD (MONTH/YEAR): 6 / 93

AMENDED REPORT ☐ (Highlight Changes)

Well Name / API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
#21-23 4303713754	06280	41S 24E 21	DSCR	POW	29	1374	883	58
#3-44 4303715031	06280	41S 24E 3	DSCR	POW	30	111	94	2905
#3-14 4303715124	06280	41S 24E 3	DSCR	POW	30	67	23	302
#9-12 4303715126	06280	41S 24E 9	DSCR	POW	30	112	654	17363
#9-14 4303715127	06280	41S 24E 9	DSCR	POW	30	201	315	423
#28-12 4303715336	06280	41S 24E 28	PRDX	POW	29	112	47	2428
#29-12 4303715337	06280	41S 24E 29	PRDX	POW	29	56	0	672
#29-32 4303715339	06280	41S 24E 29	DSCR	POW	29	1402	287	2224
#29-34 4303715340	06280	41S 24E 29	DSCR	POW	29	757	48	0
#30-32 4303715342	06280	41S 24E 30	DSCR	POW	29	588	1049	3744
#3-12 4303715620	06280	41S 24E 3	DSCR	POW	30	268	11	363
#9-34 4303715711	06280	41S 24E 9	DSCR	POW	30	45	46	9800
#10-12 4303715712	06280	41S 24E 10	DSCR	POW	30	45	23	1088
					TOTALS	5138	3480	41370

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box 633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/11/93

Name and Signature: PAT KONKEL Pat Konkel Telephone Number: 505 599-3452

(6/93)

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO TRIBAL

1. OIL WELL ☐ GAS WELL ☐ OTHER

7. UNIT AGREEMENT NAME: RATHERFORD UNIT

2. NAME OF OPERATOR: MOBIL OIL CORPORATION

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR: P. O. BOX 633 MIDLAND, TX 79702

9. WELL NO.

RECEIVED
SEP 13 1993
DIVISION OF
OIL, GAS & MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

At proposed prod. zone

10. FIELD AND POOL, OR WILDCAT: GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

14. API NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY	13. STATE
		SAN JUAN	UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐
SHOOT OR ACIDIZE	☐	ABANDON	☐
REPAIR WELL	☐	CHANGE PLANS	☐
(Other)			

APPROX. DATE WORK WILL START _____

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
(Other) CHANGE OF OPERATOR			

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

DATE OF COMPLETION _____

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

AS OF JULY1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT. ATTACHED ARE THE INDIVIDUAL WELLS.

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

SIGNED Shirley Todd TITLE ENV. & REG TECHNICIAN DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

FORM 11

STATE OF UTAH
/ISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

LB Sheffield
~~BRIAN BERRY~~
~~M E P N A~~ MOBIL
~~POB 219031 1807A RENTWR~~ P.O. DRAWER G
DALLAS TX 75221-9031 CORTEZ, Co. 81321

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 7 / 93

AMENDED REPORT ☐ **(Highlight Changes)**

*931006 updated. fee

ENTITY NUMBER	PRODUCT	GRAVITY / BTU	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS				ENDING INVENTORY
					TRANSPORTED	USED ON SITE	FLARED/VENTED	OTHER	
05980	OIL			177609	177609	0			
	GAS			72101	66216	5885			
11174	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	TOTALS			249710	243825	5885			

RECEIVED
SEP 13 1993
DIVISION OF
OIL, GAS & MINING

COMMENTS: PLEASE NOTE ADDRESS CHANGE. MOBIL ~~USA~~ PRODUCTION REPORTS WILL BE COMPILED AND SENT FROM THE CORTEZ, Co. OFFICE IN THE FUTURE.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 9/6/93

Name and Signature: Lowell B Sheffield

Telephone Number 303 565 2212 ~~214 658 2538~~

(6/93)

FORM=NR0003.FRM 07/2

Sept 29, 1993

TO: Lisha Cordova - Utah Mining Oil & Gas

FROM: Janice Easley
BLM Farmington, NM
505 599-6355

Here is copy of Rutherford Unit Successor Operator.

4 pages including this one.

Re: Ratherford Unit (GC)

Navajo Area Office
P. O. Box 1060
Gallup, New Mexico 87305-1060

ARES/543

JUL 26 1993

Mr. G. D. Cox
Mobil Exploration and
Producing North America, Inc.
P. O. Box 633
Midland, Texas 79702

Dear Mr. Cox:

Enclosed for your information and use is the approved Designation of Operator between the Phillips Petroleum Company and Mobil Exploration and Producing North America, Inc. for the Ratherford Unit.

Please note that all other concerned parties will be furnished their copy of the approved document.

Sincerely,

ACTING Area Director

Enclosure

cc: Bureau of Land Management, Farmington District Office w/enc.
TNN, Director, Minerals Department w/enc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

DESIGNATION OF OPERATOR

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Ratherford Unit,

AREA OFFICE: Window Rock, Arizona
LEASE NO: Attached hereto as Exhibit "A"

and, pursuant to the terms of the Ratherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993, and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Ratherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702
Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Ratherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number 05202782 (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Ratherford Unit.

Phillips Petroleum Company

June 17, 1993

By: M. B. Frantz, Jr.
Attorney-in-Fact

Mobil Exploration and Producing
North America Inc.

June 11, 1993

By: B. D. Martiny
Attorney-in-Fact B.D. MARTINY

ACTING AREA DIRECTOR 7/9/93
APPROVED BY TITLE DATE

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.
This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

EXHIBIT "C"

Revised as of September 29, 1992)
SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

Tract Number	Description of Land	Serial Number and Effective Date of Lease	Tract Percentage Participation
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.M. San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 March 3, 1958	1.2587779
5	SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	.4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M. San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-S, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26,1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	.5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	.5449292
18	NW/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	.5482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	.4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482
100% Indian Lands		TOTAL 12,909.74	100.0000000

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[] Well File _____

_____

(Location) Sec___Twp___Rng___

(API No.) _____

[] Suspense

(Return Date) _____

(To - Initials) _____

XX [] Other

OPERATOR CHANGE

_____

_____

1. Date of Phone Call: 10-6-93 Time: 9:30

2. DOGM Employee (name) L. CORDOVA (Initiated Call XX)

Talked to:

Name GLEN COX (Initiated Call []) - Phone No. (915)688-2114

of (Company/Organization) MOBIL

3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".

(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation:

MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303)565-2212

*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATORED BY MEPNA, CURRENTLY REPORTED OUT OF DALLAS (MCELMO CREEK).

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:
1-VEC/DTS-SJ
2-DTS/SJ-RJF
3-VLC
4-RJF
5-IEC
6-PL

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XX Change of Operator (well sold)
☐ Designation of Operator
☐ Designation of Agent
☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-93)

TO (new operator) MEPNA
(address) PO DRAWER G
CORTEZ, CO 81321
GLEN COX (915)688-2114
phone (303) 565-2212
account no. N7370

FROM (former operator) PHILLIPS PETROLEUM COMPANY
(address) 5525 HWY 64 NBU 3004
FARMINGTON, NM 87401
PAT KONKEL
phone (505) 599-3452
account no. N0772(A)

Well(s) (attach additional page if needed): *RATHERFORD UNIT (NAVAJO)

Name: **SEE ATTACHED**	API: 43-037-30915	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

Lec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Req. 8-20-93) (6/93 Prod. Rpt. 8-16-93)

Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Req. 8-31-93) (Rec'd 9-14-93)

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

Lec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (WIW's 10-26-93)

Lec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (WIW's 10-26-93)

Lec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (WIW's 10-26-93)

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

PERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A , item is not applicable.

NTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

OND VERIFICATION (Fee wells only)

Lec/N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

__ 2. A copy of this form has been placed in the new and former operators' bond files.

__ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

EASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
VTS 11-10-93

N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

__ 1. All attachments to this form have been microfilmed. Date: 11-17 1993.

FILING

Lec 1. Copies of all attachments to this form have been filed in each well file.

Lec 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

931006 BIA/Bkm Approved 7-9-93.

19W-21	43-037-15741	14-20-603-353	SEC. 19, T41S, R24E	NE/NW 660' FNL 1860' FWL
19-22	43-037-31046	14-20-603-353	SEC. 19, T41S, R24E	SE/NW 1840' FNL; 1980' FWL
19W-23	43-037-15742	14-20-603-353	SEC. 19, T41S, R24E	NE/SW 2080' FSL; 1860' FWL
19-31	43-037-31047	14-20-603-353	SEC. 19, T41S, R24E	NW/NE 510' FNL; 1980' FEL
19-32	43-037-15743	14-20-603-353	SEC. 19, T41S, R24E	SW/NE 1980' FNL; 1980' FEL
19-33	43-037-31048	14-20-603-353	SEC. 19, T41S, R24E	NW/SE 1980' FSL; 1980' FEL
19-34	43-037-15744	14-20-603-353	SEC. 19, T41S, R24E	SW/SE 660' FSL; 1980' FEL
19W-41	43-037-15745	14-20-603-353	SEC. 19, T41S, R24E	NE/NE 660' FNL; 660' FEL
19-42	43-037-30916	14-20-603-353	SEC. 19, T41S, R24E	SE/NE 1880' FNL, 660' FEL
19W-43	43-037-16420	14-20-603-353	SEC. 19, T41S, R24E	NE/SE 1980' FSL; 760' FEL
19-44	43-037-31081	14-20-603-353	SEC. 19, T41S, R24E	SE/SE 660' FSL; 660' FEL
19-97	43-037-31596	14-20-603-353	SEC. 19, T41S, R24E	2562' FNL, 30' FEL
20-11	43-037-31049	14-20-603-353	SEC. 20, T41S, R24E	NW/NW 500' FNL; 660' FWL
20-12	43-037-15746	14-20-603-353	SEC. 20, T41S, R24E	1980' FNL, 660' FWL
20-13	43-037-30917	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2140' FSL, 500' FWL
20-14	43-037-15747	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 660' FWL
20W-21	43-037-16423	14-20-603-353	SEC. 20, T41S, R24E	660' FNL; 1880' FWL
20-22	43-037-30930	14-20-603-353	SEC. 20, T41S, R24E	SE/NW 2020' FNL; 2090' FWL
20W-23	43-037-15748	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2080; 2120' FWL
20-24	43-037-30918	14-20-603-353	SEC. 20, T41S, R24E	SE/SW 820' FSL; 1820' FWL
20-31	43-037-31050	14-20-603-353	SEC. 20, T41S, R24E	NW/NE 660' FNL; 1880' FEL
20-32	43-037-15749	14-20-603-353	SEC. 20, T41S, R24E	SW/NE 1980' FNL, 1980' FEL
20-33	43-037-30931	14-20-603-353	SEC. 20, T41S, R24E	NW/SE 1910' FSL; 2140' FEL
20-34	43-037-15750	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 1850' FEL
20W-41	43-037-15751	14-20-603-353	SEC. 20, T41S, R24E	NE/NE 660' FNL; 660' FEL — PA'd
20-42	43-037-31051	14-20-603-353	SEC. 20, T41S, R24E	SE/NE 1980 ' FNL; 660' FEL
20W-43	43-037-16424	14-20-603-353	SEC. 20, T41S, R24E	2070' FSL; 810' FEL
20-44	43-037-30915	14-20-603-353	SEC. 20, T41S, R24E	SE/SE 620' FSL; 760' FEL
20-66	43-037-31592	14-20-603-353	SEC. 20, T41S, R24E	SW/NW 1221' FWL; 1369' FNL
21-11	43-037-31052	14-20-603-355	SEC. 21, T41S, R24E	NW/NW 660' FNL; 660 FWL
21-12	43-037-15752	14-20-603-355	SEC. 21, T41S, R24E	2080' FNL; 660' FWL
21-13	43-037-30921	14-20-603-355	SEC. 21, T41S, R24E	NW/SW 2030' FSL; 515' FWL
21-14	43-037-15753	14-20-603-355	SEC. 21, T41S, R24E	SW/SW 660' FSL; 460' FWL
21W-21	43-037-16425	14-20-603-355	SEC. 21, T41S, R24E	NE/NW 660' FNL; 2030' FWL
21-32	43-037-15755	14-20-603-355	SEC. 21, T41S, R24E	SW/NE 1880' FNL; 1980' FEL
~~21-33~~	~~NA~~	~~14-20-603-355~~	~~SEC. 21, T41S, R24E~~	~~2000 FSL, 1860' FEL~~
21-34	43-037-15756	14-20-603-355	SEC. 21, T41S, R24E	SW/SE 660' FSL; 1980' FEL
21W-41	43-037-16426	14-20-603-355	SEC. 21, T41S, R24E	660' FNL; 810' FEL — PA'd
21W-43	43-037-16427	14-20-603-355	SEC. 21, T41S, R24E	NE/NE 1980' FSL; 660' FEL
24-11	43-037-15861	14-20-603-247A	SEC. 24, T41S, R24E	510' FNL; 810' FWL — PA'd
24W-21	43-037-16429	14-20-603-247	SEC. 24, T41S, R24E	4695' FSL; 3300' FEL — PA'd
24W-43	43-037-16430	14-20-603-247	SEC. 24, T41S, R24E	2080' FSL; 660' FEL
24-31W	43-037-15862	14-20-603-247A	SEC. 24, T41S, R24E	NW/NE 560' FNL; 1830' FEL
24-32	43-037-31593	14-20-603-247A	SEC. 24, T41S, R24E	SW/NE 2121' FNL; 1846' FEL
24-41	43-037-31132	14-20-603-247A	SEC. 24, T41S, R24E	NE/NE 660' FNL; 710' FEL
24W-42	43-037-15863	14-20-603-247A	SEC. 24, T41S, R24E	660' FSL; 1980' FNL
28-11	43-037-30446	14-20-603-409	SEC. 28, T41S, R24E	NW/NW 520' FNL; 620' FWL
28-12	43-037-15336	14-20-603-409B	SEC. 28, T41S, R24E	SW/SE/NW 2121' FNL; 623' FWL
29-11	43-037-31053	14-20-603-407	SEC. 29, T41S, R24E	NW/NW 770' FNL; 585' FWL
29W-21	43-037-16432	14-20-603-407	SEC. 29, T41S, R24E	NE/NW 667' FNL; 2122' FWL
29-22	43-037-31082	14-20-603-407	SEC. 29, T41S, R24E	SE/NW 2130' FNL; 1370' FWL
29W-23	43-037-15338	14-20-603-407	SEC. 29, T41S, R24E	NE/SW 1846' FSL; 1832' FWL
29-31	43-037-30914	14-20-603-407	SEC. 29, T41S, R24E	NW/NE 700' FNL; 2140' FEL
29-32	43-037-15339	14-20-603-407	SEC. 29, T41S, R24E	1951' FNL; 1755' FEL
29-33	43-037-30932	14-20-603-407	SEC. 29, T41S, R24E	NW/SE 1860' FSL; 1820' FEL
29-34	43-037-15340	14-20-603-407	SEC. 29, T41S, R24E	817 FSL; 2096' FEL
29W-41	43-037-16433	14-20-603-407	SEC. 29, T41S, R24E	557' FNL; 591' FEL
29W-42	43-037-30937	14-20-603-407	SEC. 29, T41S, R24E	SE/NE 1850' FNL; 660' FEL
29W-43	43-037-16434	14-20-603-407	SEC. 29, T41S, R24E	NE/SE 1980' FSL; 660' FEL
30-21W	43-037-16435	14-20-603-407	SEC. 30, T41S, R24E	660' FNL; 1920' FWL
30-32	43-037-15342	14-20-603-407	SEC. 30, T41S, R24E	SW/NE 1975' FNL; 2010' FEL
30W-41	43-037-15343	14-20-603-407	SEC. 30, T41S, R24E	NE/NE 660' FNL; 660' FEL
9-34	NA 43037157II	NA 1420603404B	NA Sec. 9, T. 41S, R. 24E	NA SWSE 660'FSL 1980 FEL
12-43	43-307-31202	14-20-603-246	SEC. 12. T41S. R23E	2100' FSL;660 FEL
12W31	43-037-15847	14-20-603-246	SEC. 12, T41S, R23E	661' FNL;, 1981' FEL
13W24	43-037-15853	14-20-603-247	SEC. 13, T41S, R23E	SE/SW 660' FSL;3300'FEL
15W23	43-037-16412	14-20-603-355	SEC. 15, T41S, R24E	2140' FSL;1820' FWL
17-24	43-037-31044	14-20-603-353	SEC. 17, T41S, R24E	SE/SW 720' FSL; 1980' FWL
18-13	43-037-15734	14-20-603-353	SEC. 18, T41S, R24E	NW/NW 1980' FSL;500' FWL
18W32	43-037-15736	14-20-603-353	SEC. 18, T41S, R24E	SW/NE2140'FNL;1830' FEL
20-68	43-037-31591	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 1276' FWL;1615' FSL
21-23	43-037-13754	14-20-603-355	SEC. 21, T41S, R24E	NE/SW 1740 FSL 1740 FWL
28W21	43-037-16431	14-20-603-409	SEC.29, T41S, R24E	660' FNL; 2022' FWL

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
14-20-603-353

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
RATHERFORD UNIT

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
RATHERFORD UNIT 20-44

2. Name of Operator
MOBIL EXPLORATION & PRODUCING US, AS AGENT FOR MEPNA

9. API Well No.
43-037-30915

3. Address and Telephone No.
P. O. BOX 633, MIDLAND, TX 79702 **(915) 688-2585**

10. Field and Pool, or exploratory Area
GREATER ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
620' FSL, 760' FEL; SEC 20, T41S, R24E

11. County or Parish, State
SAN JUAN, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other SIDETRACK	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

***** SEE ATTACHED PROCEDURE *****

RECEIVED
AUG - 1 1994

8/5/94
Matthews
R649-2-3

14. I hereby certify that the foregoing is true and correct
Signed D Jim for Shirley Todd Title **ENV. & REG. TECHNICIAN** Date **07/27/94**

(This space for Federal or State office use)
Approved by 43-037-30915 Title _____ Date _____
Conditions of approval, if any:

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.

* See Instruction on Reverse Side

Generic Ratherford Unit
Horizontal Drilling Procedure

The objective of this procedure is to prepare this wellbore for sidetracking, sidetrack the subject well and drill a short radius horizontal well with a 1000' lateral.

1. Prepare location and dig working pit.

2. MIRU DDPU (daylight workover rig), reverse unit and H2S equipment.

3. TOH and LD rods.

4. ND wellhead, release TAC, and NU BOPs.

5. TIH with bit and casing scraper to PBTD. TOH with bit and scraper.

6. Attempt to load hole and establish an injection rate (if the injection pressure is > 500 psi, a packer should be run to establish an injection rate).

7. MIRU wireline truck. Run gauge ring and junk basket to PBTD. Run a gyro survey from PBTD to surface. Run and set a cement retainer ±100' above the top perforation. RD wireline truck.

8. TIH with star guide and stop ±30' above the cement retainer. Circulate until well is static and free of oil and gas. Sting into cement retainer and establish injection rate. Pressure annulus to 500 psi. Squeeze cement the existing Desert Creek perforations. Pull out of retainer leaving 1 bbl of cement on top of the retainer and reverse out. TOH with star guide laying down tubing.

9. TIH with bit and drill collars picking up 2 7/8" 10.40 ppf E-75 AOH workstring. Drill cement retainer and cement to the original PBTD. Circulate hole clean and them mud-up system until a yield point of 40-50 is obtained. TOH with bit.

10. TIH with section mill dressed with cutter arms for 5 1/2" or 7" casing. Mill a 30' section in the casing just below the Gothic shale. Circulate the hole clean and TOH with section mill.

11. TIH with bit and clean out to TD. Circulate hole clean and TOH with bit.

12. TIH with 10 jts 2 3/8" tubing on 2 7/8" DP to TD. Circulate the well until static and free of oil and gas. Spot a balanced cement kick-off plug. TOH with workstring. WOC a minimum of 12 hours.

13. TIH and tag cement plug and re-spot plug if the top is to low. TOH and LD workstring . ND BOPs and NU wellhead. RDMO daylight workover rig.

14. MIRU 24 hour DDPU with drilling package. TIH with MT bit, DCs, and 2 7/8". 10.4 ppf, AOH drillpipe.

15. Dress off cement plug to the kick off point. Treat water and mud up. POOH.

16. PU curve drilling assembly and TIH on 2 7/8" DP to PBTD.

17. RU power swivel and wireline. Latch into gyro tool and orient BHA.

18. Sidetrack wellbore using gyro orientation. Switch to Magnetic steering tool when free of magnetic interference from casing.

19. Drill curve section using steering tool for orientation. POOH and LD curve drilling motor.

20. PU lateral drilling motor and new bit.

21. TIH with lateral drilling assembly. Steer assembly as necessary with steering tool to reach target. Make bit trips as necessary. Circulate wellbore clean and POOH.

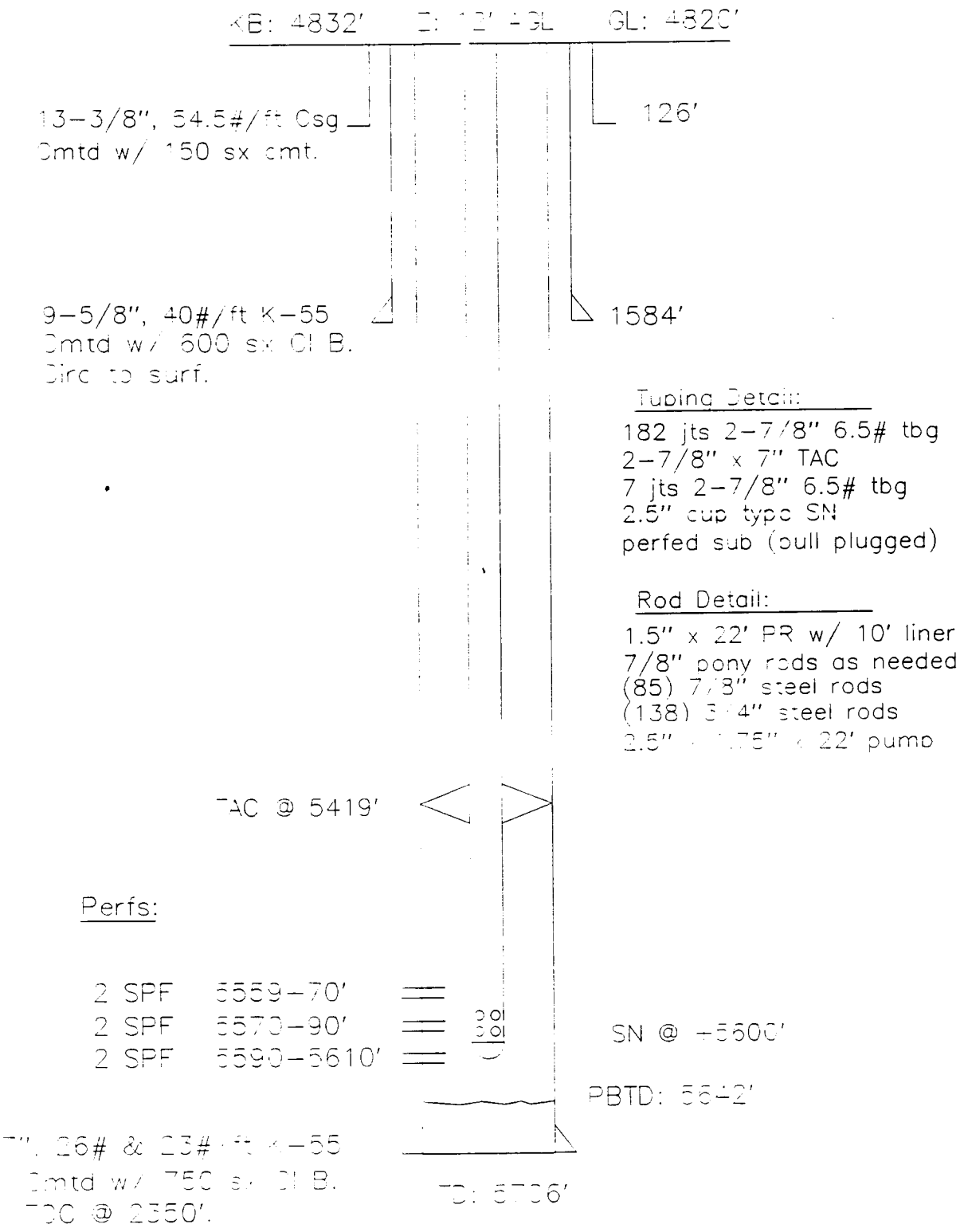
22. Complete well as per operations Engineering.

Exhibit 2GQ

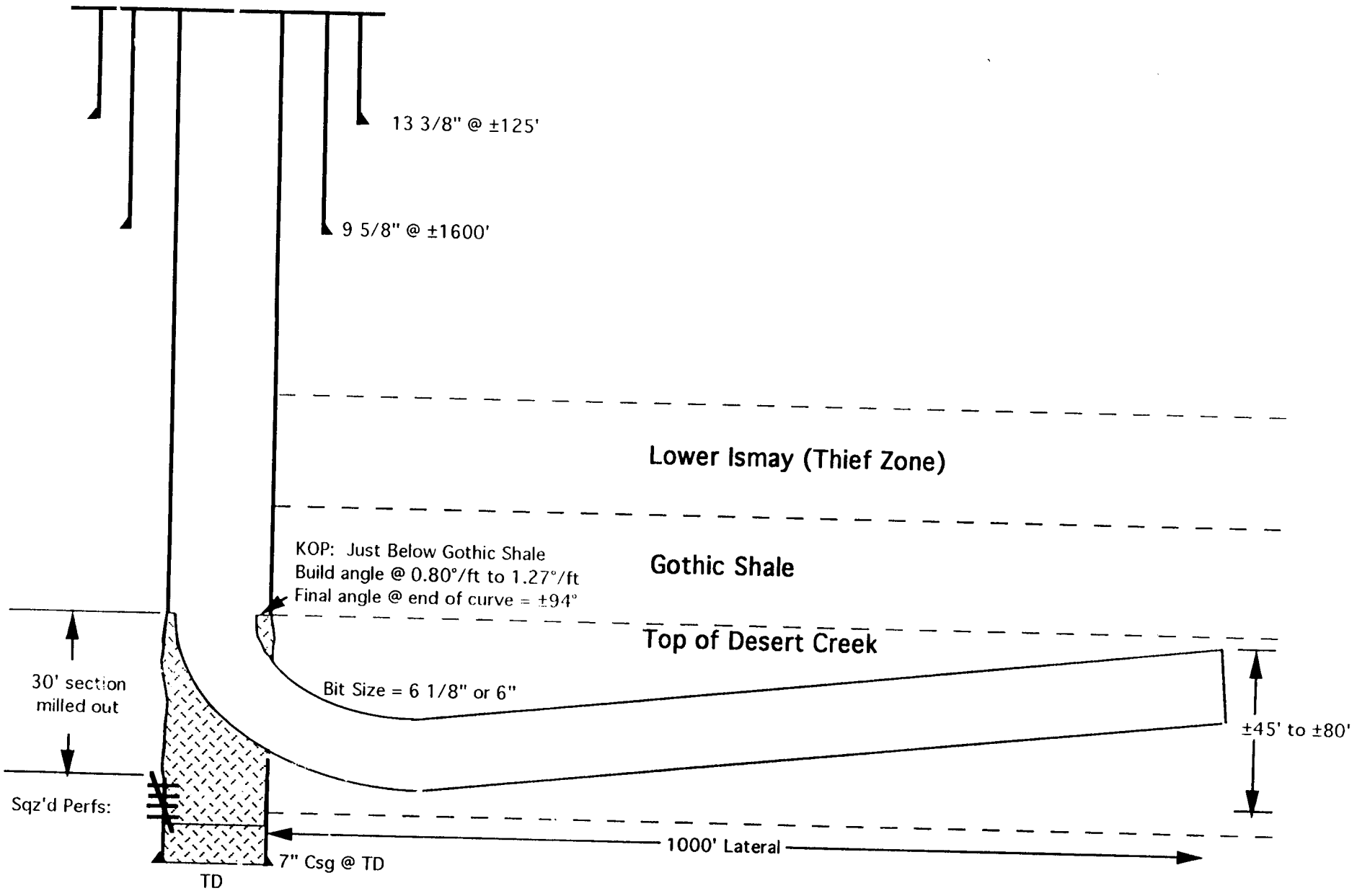
PRODUCER
7-22-93
TVE

Federal Unit 20-44

Present Setting



GENERIC HORIZONTAL
RATHERFORD UNIT PRODUCER
WITH 7" CASING



Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator
MOBIL EXPLORATION & PRODUCING US, AS AGENT FOR MEPNA

3. Address and Telephone No.
P. O. BOX 633, MIDLAND, TX 79702 **(915) 688-2585**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
620' FSL, 760' FEL; SEC 20, T41S, R24E

5. Lease Designation and Serial No.
14-20-603-353

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
RATHERFORD UNIT

8. Well Name and No.
RATHERFORD UNIT 20-44

9. API Well No.
43-037-30915

10. Field and Pool, or exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other **SIDETRACK**	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

***** SEE ATTACHED PROCEDURE *****

8/5/94
JBM Matthews
R649-2-3

RECEIVED
AUG - 1 1994
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed for Shirley Todd Title **ENV. & REG. TECHNICIAN** Date **07/27/94**

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

* See Instruction on Reverse Side

Generic Ratherford Unit
Horizontal Drilling Procedure

The objective of this procedure is to prepare this wellbore for sidetracking, sidetrack the subject well and drill a short radius horizontal well with a 1000' lateral.

1. Prepare location and dig working pit.

2. MIRU DDPU (daylight workover rig), reverse unit and H2S equipment.

3. TOH and LD rods.

4. ND wellhead, release TAC, and NU BOPs.

5. TIH with bit and casing scraper to PBTD. TOH with bit and scraper.

6. Attempt to load hole and establish an injection rate (if the injection pressure is > 500 psi, a packer should be run to establish an injection rate).

7. MIRU wireline truck. Run gauge ring and junk basket to PBTD. Run a gyro survey from PBTD to surface. Run and set a cement retainer ±100' above the top perforation. RD wireline truck.

8. TIH with star guide and stop ±30' above the cement retainer. Circulate until well is static and free of oil and gas. Sting into cement retainer and establish injection rate. Pressure annulus to 500 psi. Squeeze cement the existing Desert Creek perforations. Pull out of retainer leaving 1 bbl of cement on top of the retainer and reverse out. TOH with star guide laying down tubing.

9. TIH with bit and drill collars picking up 2 7/8" 10.40 ppf E-75 AOH workstring. Drill cement retainer and cement to the original PBTD. Circulate hole clean and them mud-up system until a yield point of 40-50 is obtained. TOH with bit.

10. TIH with section mill dressed with cutter arms for 5 1/2" or 7" casing. Mill a 30' section in the casing just below the Gothic shale. Circulate the hole clean and TOH with section mill.

11. TIH with bit and clean out to TD. Circulate hole clean and TOH with bit.

12. TIH with 10 jts 2 3/8" tubing on 2 7/8" DP to TD. Circulate the well until static and free of oil and gas. Spot a balanced cement kick-off plug. TOH with workstring. WOC a minimum of 12 hours.

13. TIH and tag cement plug and re-spot plug if the top is to low. TOH and LD workstring . ND BOPs and NU wellhead. RDMO daylight workover rig.

14. MIRU 24 hour DDPU with drilling package. TIH with MT bit, DCs, and 2 7/8", 10.4 ppf, AOH drillpipe.

15. Dress off cement plug to the kick off point. Treat water and mud up. POOH.

16. PU curve drilling assembly and TIH on 2 7/8" DP to PBTD.

17. RU power swivel and wireline. Latch into gyro tool and orient BHA.

18. Sidetrack wellbore using gyro orientation. Switch to Magnetic steering tool when free of magnetic interference from casing.

19. Drill curve section using steering tool for orientation. POOH and LD curve drilling motor.

20. PU lateral drilling motor and new bit.

21. TIH with lateral drilling assembly. Steer assembly as necessary with steering tool to reach target. Make bit trips as necessary. Circulate wellbore clean and POOH.

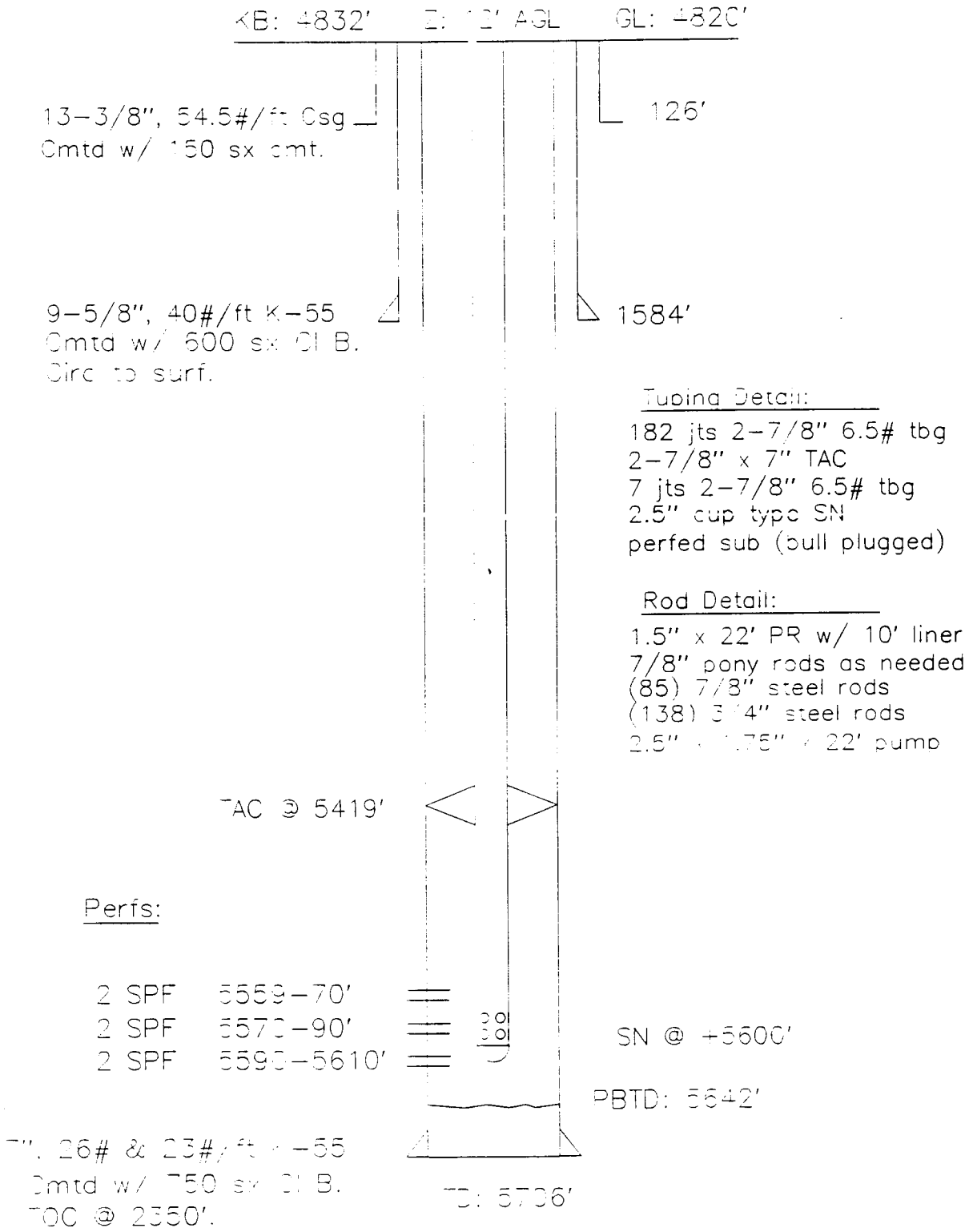
22. Complete well as per operations Engineering.

Exhibit 2GQ

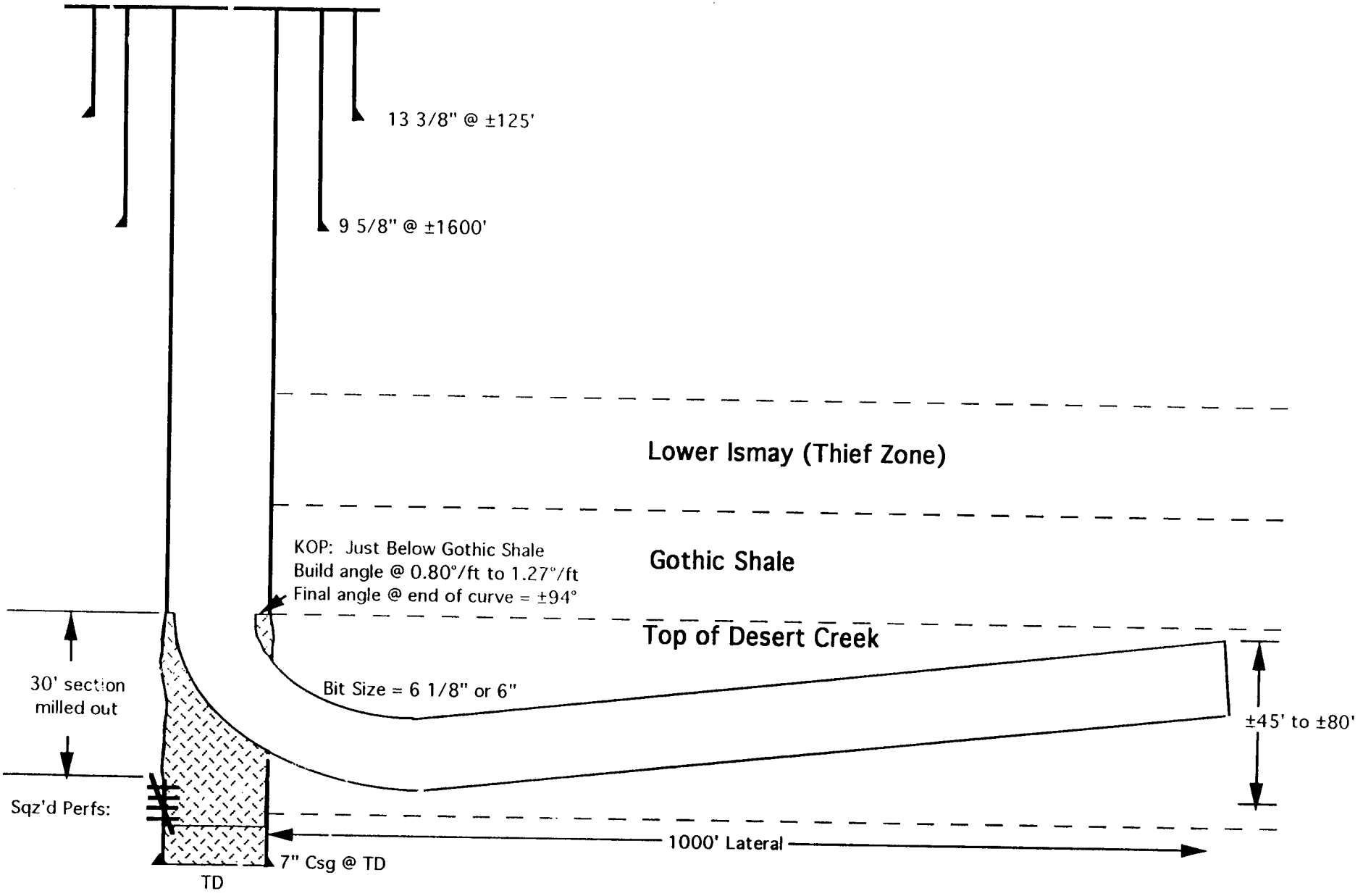
PRODUCER
7-22-93
TVE

Perforated Unit 20-44

Present Setting



GENERIC HORIZONTAL
RATHERFORD UNIT PRODUCER
WITH 7" CASING



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/01/94

API NO. ASSIGNED: 43-037-30915

WELL NAME: RU 20-44 (RE-ENTRY)
OPERATOR: MOBIL EXPL & PROD (N7370)

PROPOSED LOCATION:
SESE 20 - T41S - R24E
SURFACE: 0620-FSL-0760-FEL
BOTTOM:
SAN JUAN COUNTY
GREATER ANETH FIELD (365)

LEASE TYPE: IND
LEASE NUMBER: 14-20-603-353

PROPOSED PRODUCING FORMATION: DSCR

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

- ✓ Plat
- ✓ Bond: Federal[✓] State[ ] Fee[ ]
  (Number _____)
- N Potash (Y/N)
- N Oil shale (Y/N)
- ___ Water permit
  (Number _____)
- N RDCC Review (Y/N)
  (Date: _____)

LOCATION AND SITING:

- ✓ R649-2-3. Unit: _____
- ___ R649-3-2. General.
- ___ R649-3-3. Exception.
- ___ Drilling Unit.
  Board Cause no: _____
  Date: _____

COMMENTS: _____

STIPULATIONS: 1- Need BHL location on well when finished drilling

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 5, 1994

Mobil Exploration & Producing U.S., As Agent for MEPNA
P.O. Box 633
Midland, Texas 79702

Re: Ratherford Unit 20-44 Well, 620' FSL, 760' FEL, SE SE, Sec. 20, T. 41 S., R. 24 E., San Juan County, Utah

Gentlemen:

Pursuant to Utah Code Ann.§ 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to reenter and drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.

2. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.

3. Notification to the Division within 24 hours after drilling operations commence.

4. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.

5. Submittal of the Report of Water Encountered During Drilling, Form 7.

6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.

7. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-037-30915.

Sincerely,

R.J. Firth
Associate Director

ldc
Enclosures
cc: San Juan County Assessor
Bureau of Land Management, Moab District Office
WOI1

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
14-20-603-353

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
RATHERFORD UNIT

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
RATHERFORD 20-44

2. Name of Operator
Mobil Exploration & Producing U.S. Inc.
as Agent for Mobil Producing TX & NM Inc.

9. API Well No.
43-037-30915

3. Address and Telephone No.
P.O. Box 633, Midland, TX 79702 915-688-2585

10. Field and Pool, or exploratory Area
GREATER ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
620' FSL, 760'FEL
SEC.20, T41S,R24E
BHL 656'FNL, 755' FWL

11. County or Parish, State
SAN JUAN UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other SIDETRACK	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHMENT

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

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

Signed Shirley Robertson Title ENV. & REG. TECHNICIAN Date 5-1-95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

* See Instruction on Reverse Side

Generic Ratherford Unit
Horizontal Drilling Procedure

The objective of this procedure is to prepare this wellbore for sidetracking, sidetrack the subject well and drill a short radius horizontal well with a 1000' lateral.

1. Prepare location and dig working pit.

2. MIRU DDPU (daylight workover rig), reverse unit and H2S equipment.

3. TOH and LD rods.

4. ND wellhead, release TAC, and NU BOPs.

5. TIH with full gauge bit and casing scraper to PBTD. TOH with bit and scraper.

6. Attempt to load hole and establish an injection rate (if the injection pressure is > 500 psi, a packer should be run to establish an injection rate).

7. MIRU wireline truck. Run gauge ring and junk basket to PBTD. Run a gyro survey from PBTD to surface. Run and set a cement retainer ±100' above the top perforation. RD wireline truck.

8. TIH with star guide and stop 30' above the cement retainer. Circulate until well is static and free of oil and gas. Sting into cement retainer and establish injection rate. Pressure annulus to 500 psi. Squeeze cement the existing Desert Creek perforations. Pull out of retainer leaving 1 bbl of cement on top of the retainer and reverse out. TOH with star guide laying down tubing.

9. TIH with 4 3/4" bit and drill collars picking up 2 7/8" 10.40 ppf E-75 AOH workstring. Drill cement retainer and cement to original PBTD. Circulate hole clean and them mud-up system until a yield point of 40-50 is obtained. TOH with bit.

10. TIH with 4 1/2" section mill dressed with cutter arms for casing size to 2' below the Gothic Shale. Mill 25' section in casing . Circulate the hole clean and TOH with section mill.

11. TIH with gauge bit and clean out to TD. Circulate hole clean and TOH with bit.

12. TIH with 10 jts 2 3/8" tubing on 2 7/8" DP to TD. Circulate the well until static and free of oil and gas. Spot a balanced cement kick-off plug. TOH with workstring. WOC a minimum of 12 hours.

13. TIH and tag cement plug and re-spot plug if the top is to low. TOH and LD workstring . ND BOPs and NU wellhead. RDMO daylight workover rig.

14. MIRU 24 hour DDPU with drilling package. TIH with gauge MT bit, DCs, and 2 7/8", 10.4ppf, AOH drillpipe.

15. Dress off cement plug to the kick off point 3' below the casing section. Treat water and mud up with XC polymer. POOH.

16. PU curve drilling assembly and TIH on 2 7/8" DP to PBTD.

17. RU power swivel and wireline. Latch into gyro tool and orient BHA.

18. Sidetrack wellbore using gyro orientation. Switch to Magnetic steering tool when free of magnetic interference from casing.

19. Drill curve section using steering tool for orientation. POOH and LD curve drilling motor.

20. PU lateral drilling motor and new bit.

21. TIH with lateral drilling assembly. Steer assembly as necessary with steering tool to reach target. Make bit trips as necessary. Circulate wellbore clean and POOH.

22. Complete well as per operations Engineering.

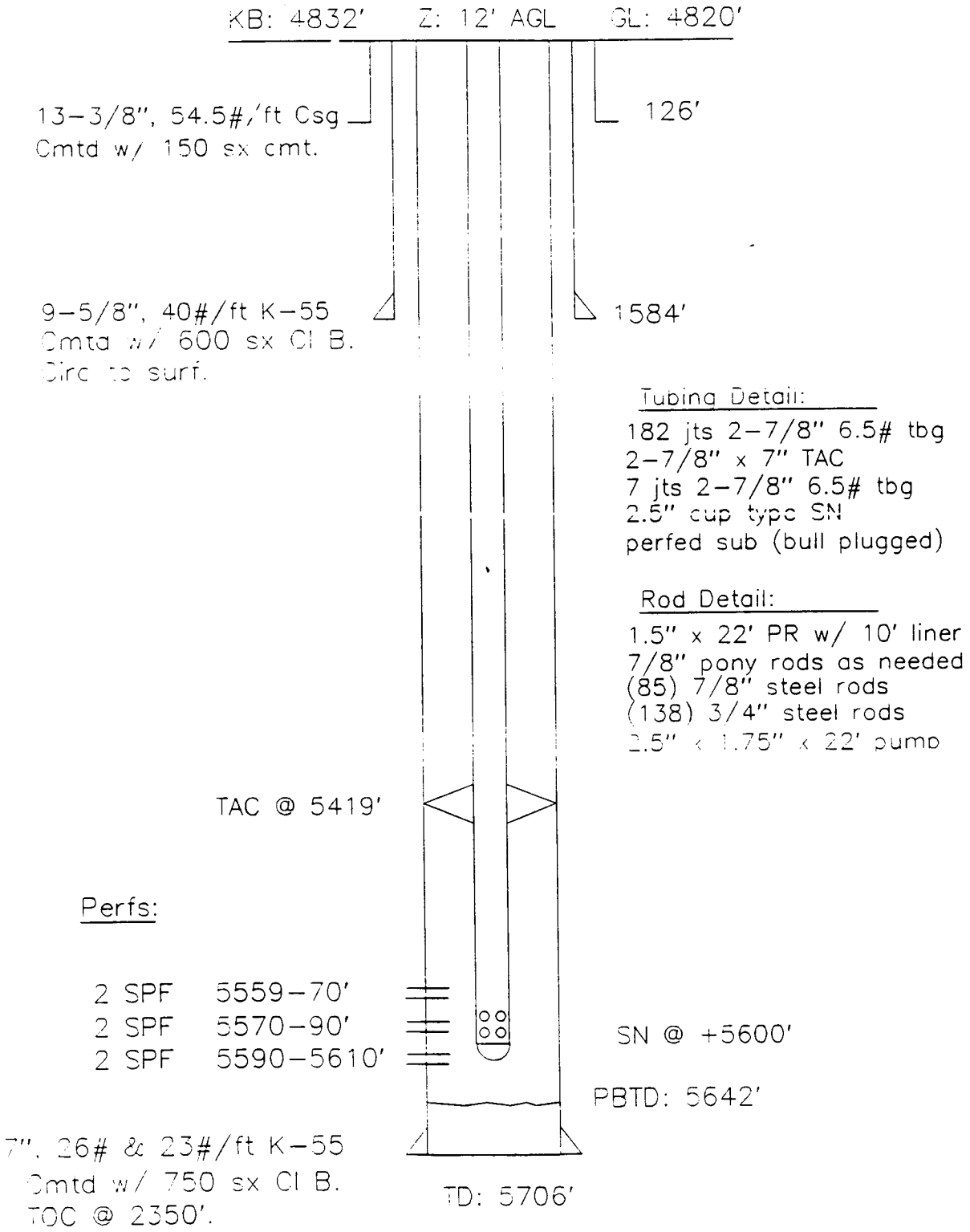
Exhibit 2GQ

RU # 20-44

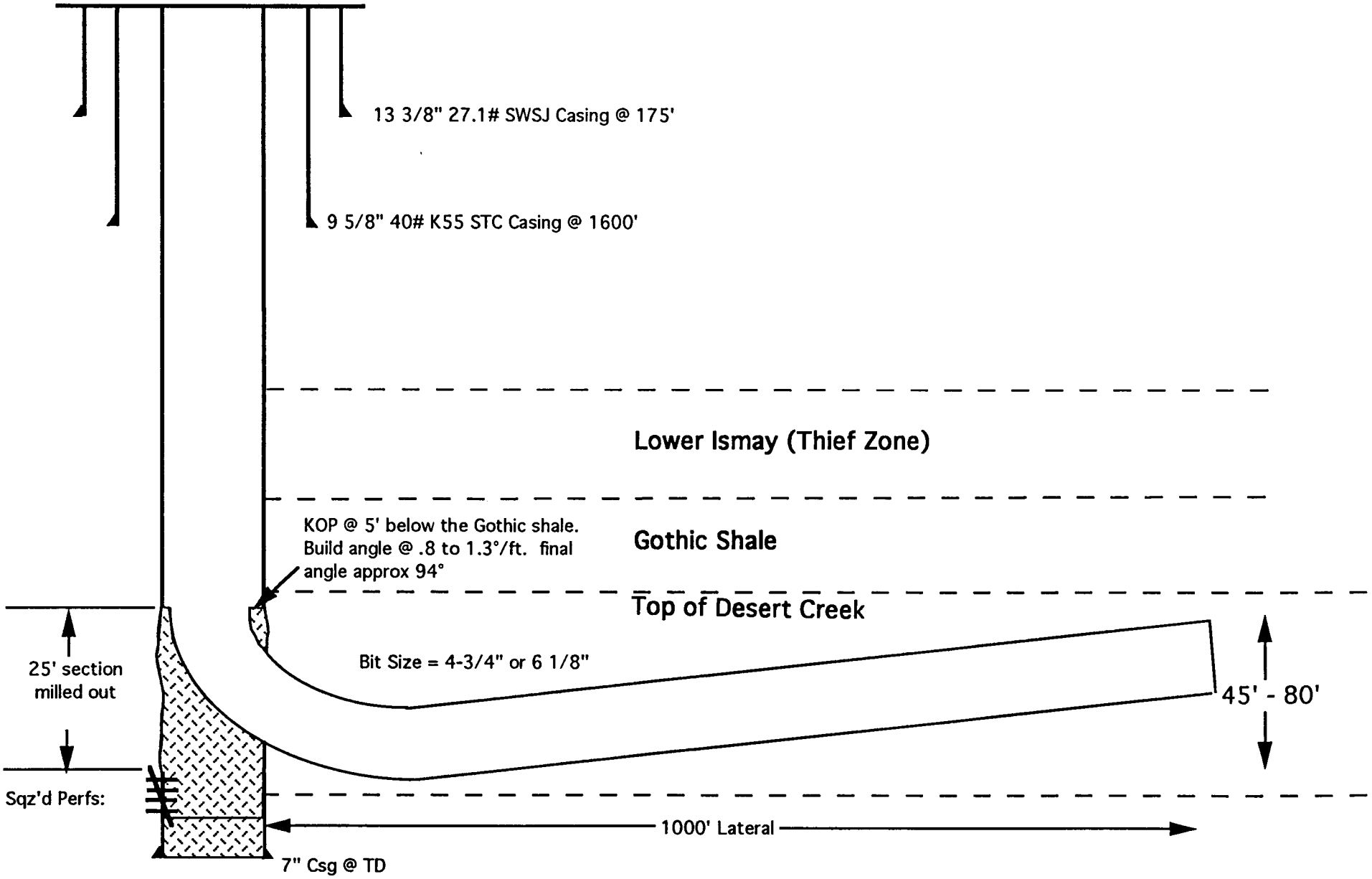
Rutherford Unit 20-44

PRODUCER
7-22-93
TVE

Present Setting



PROPOSED GENERIC HORIZONTAL SIDETRACK RE-ENTRY RATHERFORD UNIT



Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUL 03 1995
DIV. OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
14-20-603-353

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
RATHERFORD UNIT

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
RATHERFORD 20-44

2. Name of Operator
Mobil Exploration & Producing U.S. Inc.
as Agent for Mobil Producing TX & NM Inc.

9. API Well No.
43-037-30915

3. Address and Telephone No.
P.O. Box 633, Midland, TX 79702 (915) 688-2585

10. Field and Pool, or exploratory Area
GREATER ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
620' FSL, 760' FEL
SEC. 20, T41S, R24E
BHL 869 N., 833 W FROM SURFACE LOCATION

11. County or Parish, State
SAN JUAN UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other SIDETRACK	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

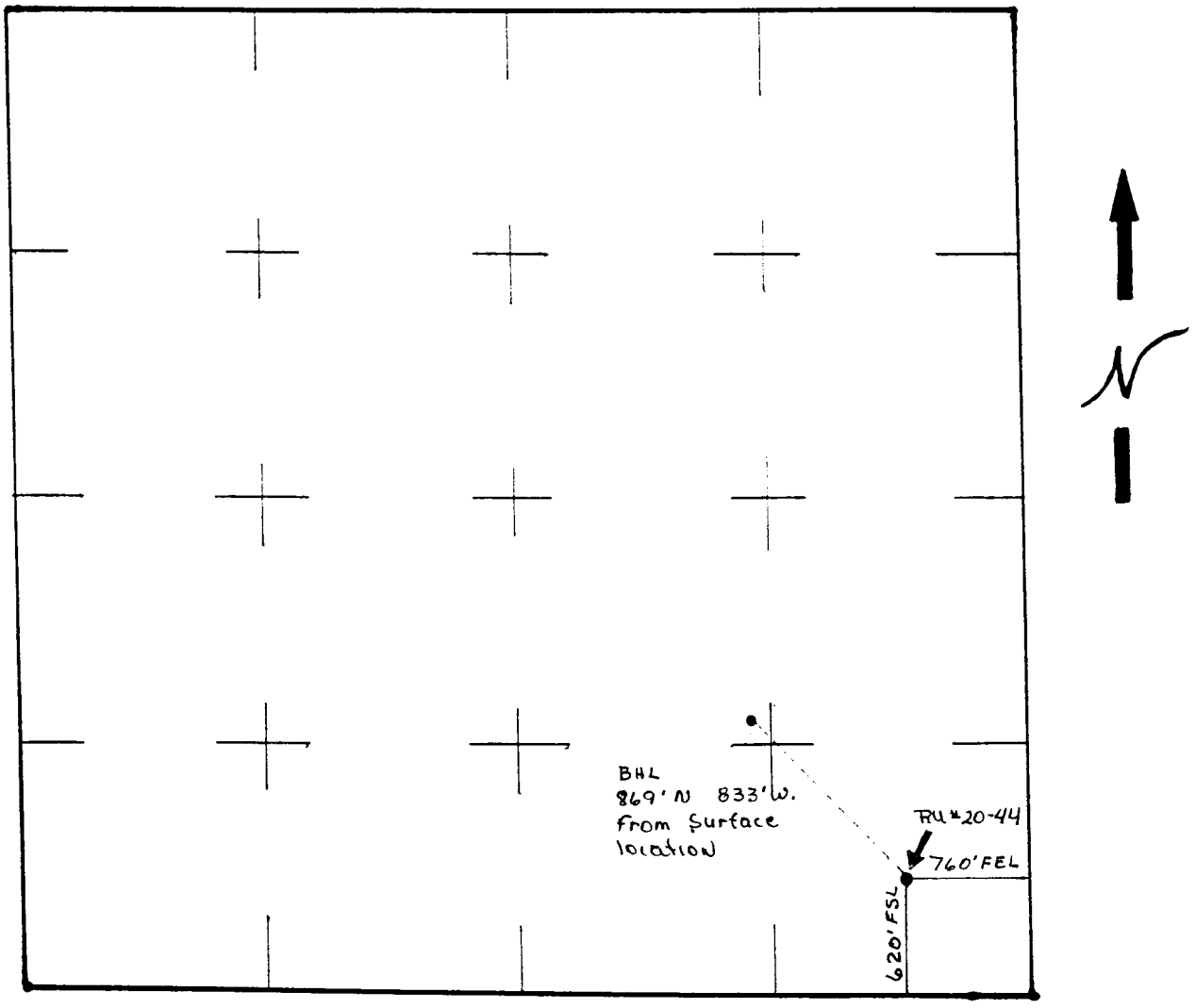
05-20-95 MIRU
05-21-95 TIH W/MILL
05-22-95 MILL WINDOW F/5558-5582
05-23-95 MIL FROM 5541-5542 AND 5576'. PUMP 150 SX CL G CMT + 2.5 PPS MICROBOND + 0.05% CF.
05-24-95 DRILL CMT AT 5439' CICR SET AT 5448'. DRILL TO 5481', 5544'.
05-25-95 DRILL CMT TO KOP 5561'. DRILL F/5561-5575.
05-26-95 DRILL F/5575-5583'. DRILL F/5583-5672.
05-27-95 PUMPED 50SX CL G CMT W/2.5# PPS MICRO-BOND. .5% CFR-3 AT 17 #PPG AND SPOT F/5605-5380 (9 BBLS. SLURRY)
05-28-95 TAG CMT AT 5386'. CIRC. HOLE CLEAN.
05-29-95 FISH FROM 5432-5441. CIRC. HOLE CLEAN
05-30-95 WASH 25' TO 5508', 5527, 5556', 5553-5555'.
05-31-95 TAG FISH AT 5556'. MILL F/5556-5559', 5560', 5564',5567'. DRILLED CMT TO 5575'.
06-01-95 TOP OF WINDOW AT 5556' -5557'. PUMP 13.5 SX (120 GAL) 15.5 PPG CL B CMT.
06-02-95 SPOT BALANCED PLUG F/APPROX 5300'-5574'. PUMPED 50X CL G NEAT CMT W/0.5 % CFR3, 0.98 YIELD 17.1 PPG 8.7 BBLS. DRESS KO PLUG TO 5559'.
06-05-95 DRILL 4 3/4 LATERAL HOLE F/5673'-6390'. CONTINUED ON BACK

14. I hereby certify that the foregoing is true and correct
Signed Shirley Robertson Title ENV. & REG. TECHNICIAN Date 6-27-95

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

* See Instruction on Reverse Side

MOBIL EXPLORATION & PRODUCING U.S. INC.
as Agent for MEPNA & Mobil Oil Corp.



RATHERFORD UNIT #20-44
Sec. 20, T41S, T24E
620 FSL, 760 FEL
BHL - 869 N. 833 W. from Surf Location
San Juan County, Utah

Scale 1" = 1,000'

BECFIELD SURVEY CALCULATION PROGRAM

OPERATOR: Mobil Exploration and Production
WELL: Ratherford Unit No. 20-44
JOB NO: 253076
FIELD: Greater Aneth
LOCATION: San Juan County, Utah

DATE: 06/04
TIME: 05:54
Information provided by:

DIP1	-0.60 °	-1.04 °/100'	
top of DC 1A	5,558.0		
@ VS	0.0		
DIP2	-0.06 °	-0.10 °/100'	
TOP 1B	5,619.0		
@ VS	0.0		

TERM I1 = 93.00
TERM I2 = 93.00

PROPOSED DIRECTION: 311.00 °(TRUE)

NO.	MD	INC.	AZ	DLS/ 100	inc chg °/100 ft	5 survey moving avg delta inc	BUR REQ'D	TVD	TOP 1B	above(+) below(-)	SECT	right(+) left(-)	N-S	E-W
tie in	5,537	1.3	261.0	0.52			67.8	5,536.64	5,619	82.4	-6.91	11.2	3.89	12.54
1	5,560	9.8	339.0	22.35	19.67		119.8	5,579.4	5,619	39.6	-3.3	12	0.0	0.0
2	5,585	13.7	339.0	78.00	78.00	78.0	125.7	5,584.3	5,619	34.7	-2.5	13	8.2	10.4
3	5,590	17.8	339.0	82.00	82.00	80.0	132.7	5,589.1	5,619	29.9	-1.3	14	9.5	9.9
4	5,595	22.3	339.0	90.00	90.00	83.3	140.7	5,593.8	5,619	25.2	0.3	14	11.1	9.3
5	5,600	26.7	339.0	88.00	88.00	84.5	152.3	5,598.4	5,619	20.6	2.1	15	13.0	8.5
6	5,605	31.4	339.0	94.00	94.00	86.4	167.9	5,602.7	5,619	16.3	4.2	17	15.3	7.6
7	5,610	36.7	339.0	106.00	106.00	92.0	189.1	5,606.9	5,619	12.1	6.7	18	17.9	6.6
8	5,615	41.9	339.0	104.00	104.00	96.4	228.9	5,610.7	5,619	8.3	9.5	19	20.8	5.5
9	5,620	47.7	339.0	116.00	116.00	101.6	313.7	5,614.3	5,619	4.7	12.6	21	24.1	4.3
10	5,625	53.5	338.9	116.01	116.00	107.2	718.2	5,617.5	5,619	1.5	16.0	23	27.7	2.9
11	5,630	59.0	337.9	111.25	110.00	110.4	-659.1	5,620.2	5,619	-1.2	19.7	25	31.6	1.3
12	5,635	64.8	336.7	117.91	116.00	112.4	-149.6	5,622.6	5,619	-3.6	23.7	27	35.6	-0.4
13	5,640	70.1	335.6	107.93	106.00	112.8	-60.5	5,624.5	5,619	-5.5	27.8	29	39.9	-2.2
BIT	5,660	91.3	331.5	107.93	106.00		0.8	5,627.7	5,619	-8.7	46.0	36	57.4	-11.0

OUTLINED AZIMUTHS ARE PLUGGED DUE TO MAG INTERFERENCE

BECFIELD SURVEY CALCULATION PROGRAM

OPERATOR: Mobil Exploration and Production
WELL: Ratherford Unit No. 20-44
JOB NO: 253076
FIELD: Greater Aneth
LOCATION: San Juan County, Utah

DATE: 06/05
TIME: 05:45
Information provided by:

DIP1	-0.60 °	-1.04 °/100'	TERM I1 = 94.00
top of DC 1A	5,558.0		TERM I2 = 94.00
@ VS	0.0		
DIP2	-0.06 °	-0.10 °/100'	PROPOSED DIRECTION: 311.00 °(TRUE)
TOP 1B	5,619.0		
@ VS	0.0		

NO.	MD	INC.	AZ	TVD	TOP DC 1B	above(+) below(-)	SECT	right(+) left(-)	N-S	E-W	DLS/ 100
13	5,640	70.1	335.6	5,624.5	5,619.0	-5.5	27.8	29	39.9	-2.2	107.93
14	5,650	80.5	334.8	5,627.1	5,619.0	-8.0	36.7	33	46.6	-6.3	104.29
15	5,660	90.1	332.7	5,627.9	5,619.0	-8.8	45.8	36	57.6	-10.7	98.25
16	5,670	94.2	331.3	5,627.5	5,619.1	-8.4	55.2	40	66.4	-15.4	43.92
17	5,680	97.2	330.2	5,626.5	5,619.1	-7.4	64.5	43	75.1	-20.2	31.93
18	5,690	100.2	329.7	5,625.0	5,619.1	-5.9	73.9	47	83.9	-25.2	30.40
19	5,700	101.7	329.6	5,623.1	5,619.1	-4.0	83.2	50	92.1	-30.2	15.03
20	5,710	102.0	329.6	5,621.0	5,619.1	-1.9	92.4	53	100.5	-35.1	3.58
21	5,720	102.3	329.7	5,618.9	5,619.1	0.2	101.7	56	109.0	-40.0	3.16
22	5,730	101.4	329.4	5,616.9	5,619.1	2.2	111.0	59	117.4	-45.0	9.47
23	5,740	99.2	328.5	5,615.1	5,619.1	4.0	120.3	62	125.9	-50.1	23.71
24	5,750	97.5	328.4	5,613.6	5,619.1	5.5	129.6	65	134.3	-55.2	17.03
25	5,760	97.4	328.1	5,612.3	5,619.1	6.8	139.2	68	142.7	-60.4	3.14
26	5,770	97.9	327.9	5,611.0	5,619.2	8.1	148.7	71	151.1	-65.7	2.82
27	5,780	97.4	328.4	5,609.7	5,619.2	9.4	158.2	74	159.5	-70.9	5.35
28	5,790	94.6	327.1	5,608.7	5,619.2	10.5	167.7	77	168.0	-76.2	30.64
29	5,800	93.1	326.2	5,608.0	5,619.2	11.2	177.3	79	176.3	-81.7	17.48
30	5,810	92.6	325.9	5,607.5	5,619.2	11.7	187.0	82	184.6	-87.3	5.83
31	5,820	92.7	325.5	5,607.1	5,619.2	12.2	196.6	85	192.8	-92.9	4.12
32	5,830	93.0	325.6	5,606.6	5,619.2	12.7	206.3	87	201.1	-98.6	3.16
33	5,840	93.2	325.5	5,606.0	5,619.2	13.2	216.0	90	209.3	-104.2	2.24
34	5,850	93.8	326.0	5,605.4	5,619.2	13.8	225.6	92	217.5	-109.8	7.80
35	5,860	94.3	326.5	5,604.7	5,619.2	14.5	235.2	95	225.8	-115.4	7.06
36	5,870	94.3	326.5	5,603.9	5,619.3	15.3	244.9	97	234.2	-120.9	0.00
37	5,880	93.6	326.4	5,603.3	5,619.3	16.0	254.5	100	242.5	-126.4	7.07
38	5,890	93.0	326.5	5,602.7	5,619.3	16.6	264.1	103	250.8	-131.9	6.08
39	5,900	93.1	326.7	5,602.2	5,619.3	17.1	273.7	105	259.1	-137.4	2.23
40	5,910	93.1	327.1	5,601.6	5,619.3	17.7	283.3	108	267.5	-142.9	3.99
41	5,920	93.1	327.5	5,601.1	5,619.3	18.2	292.9	111	275.9	-148.3	3.99
42	5,930	92.6	327.7	5,600.6	5,619.3	18.7	302.5	114	284.3	-153.6	5.36
43	5,940	92.5	328.3	5,600.1	5,619.3	19.2	312.0	117	292.6	-158.9	6.08
44	5,950	92.6	328.5	5,599.7	5,619.3	19.7	321.6	120	301.3	-164.1	2.23
45	5,960	92.5	328.6	5,599.2	5,619.3	20.1	331.1	123	309.6	-169.4	1.41
46	5,970	92.0	326.6	5,598.8	5,619.4	20.5	340.7	126	318.3	-174.7	20.60
47	5,980	91.2	323.6	5,598.5	5,619.4	20.8	350.4	128	326.5	-180.4	31.04
48	5,990	90.6	321.8	5,598.4	5,619.4	21.0	360.1	130	334.4	-186.5	18.97
49	6,000	89.6	321.7	5,598.4	5,619.4	21.0	370.0	132	342.3	-192.7	10.05
50	6,010	89.3	321.5	5,598.5	5,619.4	20.9	379.8	134	350.1	-198.9	3.61
51	6,020	90.3	321.6	5,598.5	5,619.4	20.9	389.6	136	357.9	-205.1	10.05
52	6,030	91.5	321.7	5,598.4	5,619.4	21.1	399.5	137	365.8	-211.3	12.04
53	6,040	92.3	322.1	5,598.0	5,619.4	21.4	409.3	139	373.6	-217.5	8.94
54	6,050	92.4	322.2	5,597.6	5,619.4	21.8	419.1	141	381.5	-223.6	1.41
55	6,060	91.9	322.3	5,597.2	5,619.4	22.2	428.9	143	389.4	-229.7	5.10
56	6,070	91.2	322.5	5,597.0	5,619.5	22.5	438.7	145	397.4	-235.8	7.28
57	6,080	91.1	322.5	5,596.8	5,619.5	22.7	448.5	147	405.3	-241.9	1.00
58	6,090	91.7	322.0	5,596.5	5,619.5	22.9	458.3	149	413.2	-248.0	7.81
bit	6,111	93.0	320.9	5,595.7	5,619.5	23.8	478.9	153	429.6	-261.1	7.81

BECFIELD SURVEY CALCULATION PROGRAM

OPERATOR: Mobil Exploration and Production
WELL: Ratherford Unit No. 20-44
JOB NO: 253076
FIELD: Greater Aneth
LOCATION: San Juan County, Utah

DATE: 06/06
TIME: 05:42
Information provided by:

DIP1	-0.06 °	-0.10 '/100'
TOP 1B	5,619.0	
@ VS	0.0	
DIP2	-0.60 °	-1.04 '/100'
top of DC 1A	5,558.0	
@ VS	0.0	

TERM I1 = 94.00
TERM I2 = 94.00

PROPOSED DIRECTION: 311.00 °(TRUE)

NO.	MD	INC.	AZ	TVD	TOP DC 1A	above(+) below(-)	SECT	right(+) left(-)	N-S	E-W	DLS/ 100
58	6,090	91.7	322.0	5,596.5	5,562.8	-33.8	459.3	149	413.2	-248.0	7.81
59	6,100	92.1	321.3	5,596.2	5,562.9	-33.3	468.1	151	421.0	-254.2	8.06
60	6,110	92.4	321.1	5,595.8	5,563.0	-32.8	477.9	153	428.8	-260.5	3.60
61	6,120	92.8	321.0	5,595.4	5,563.1	-32.3	487.8	154	436.6	-266.8	4.12
62	6,130	93.1	321.4	5,594.8	5,563.2	-31.6	497.6	156	444.4	-273.0	5.00
63	6,140	93.3	321.7	5,594.3	5,563.3	-31.0	507.4	158	452.2	-279.2	3.60
64	6,150	93.2	321.7	5,593.7	5,563.4	-30.3	517.2	160	460.0	-285.4	1.00
65	6,160	93.0	321.3	5,593.2	5,563.5	-29.7	527.0	162	467.8	-291.7	4.47
66	6,170	92.9	321.1	5,592.7	5,563.6	-29.1	536.9	164	475.6	-297.9	2.23
67	6,180	93.4	320.0	5,592.1	5,563.7	-28.4	546.7	165	483.3	-304.3	12.07
68	6,190	94.0	318.7	5,591.5	5,563.8	-27.7	556.6	167	490.9	-310.8	14.29
69	6,200	93.9	318.0	5,590.8	5,563.9	-26.9	566.5	168	498.4	-317.4	7.05
70	6,210	93.0	316.4	5,590.2	5,564.0	-26.2	576.4	169	505.7	-324.2	18.33
71	6,220	92.0	317.2	5,589.7	5,564.1	-25.6	586.3	170	513.0	-331.0	12.80
72	6,230	91.3	314.4	5,589.5	5,564.2	-25.2	596.3	171	520.1	-338.0	28.85
73	6,240	90.4	314.0	5,589.3	5,564.3	-25.0	606.3	171	527.1	-345.1	9.85
74	6,250	89.7	313.6	5,589.3	5,564.4	-24.9	616.3	172	534.0	-352.4	8.06
75	6,260	89.1	313.2	5,589.4	5,564.5	-24.9	626.3	172	540.9	-359.6	7.21
76	6,270	89.7	312.7	5,589.5	5,564.6	-24.9	636.3	173	547.7	-366.9	7.81
77	6,280	90.0	312.4	5,589.5	5,564.7	-24.8	646.3	173	554.5	-374.3	4.24
78	6,290	89.7	312.2	5,589.6	5,564.9	-24.7	656.3	173	561.2	-381.7	3.61
79	6,300	89.1	311.8	5,589.7	5,565.0	-24.7	666.3	173	567.9	-389.1	7.21
80	6,310	88.4	311.6	5,589.9	5,565.1	-24.8	676.2	173	574.5	-396.6	7.28
81	6,320	88.7	310.8	5,590.1	5,565.2	-25.0	686.2	173	581.1	-404.1	8.54
82	6,330	89.9	310.2	5,590.3	5,565.3	-25.0	696.2	173	587.6	-411.7	13.42
83	6,340	90.6	309.7	5,590.2	5,565.4	-24.8	706.2	173	594.0	-419.4	8.60
84	6,350	90.4	309.7	5,590.1	5,565.5	-24.6	716.2	173	600.4	-427.1	2.00
85	6,360	90.8	309.2	5,590.0	5,565.6	-24.4	726.2	173	606.8	-434.8	6.40
86	6,370	92.0	308.1	5,589.8	5,565.7	-24.1	736.2	172	613.0	-442.6	16.28
87	6,380	93.0	306.9	5,589.3	5,565.8	-23.5	746.2	172	619.1	-450.5	15.61
88	6,390	93.0	306.3	5,588.8	5,565.9	-22.9	756.2	171	625.1	-458.6	5.99
89	6,400	93.0	305.7	5,588.3	5,566.0	-22.3	766.1	170	630.9	-466.6	5.99
90	6,410	93.9	305.5	5,587.7	5,566.1	-21.6	776.0	169	636.7	-474.8	9.22
91	6,420	94.7	305.5	5,586.9	5,566.2	-20.7	786.0	168	642.5	-482.9	8.00
92	6,430	94.8	305.4	5,586.1	5,566.3	-19.8	795.9	167	648.3	-491.0	1.41
93	6,440	94.8	305.2	5,585.3	5,566.4	-18.9	805.8	166	654.1	-499.1	1.99
94	6,450	94.4	305.0	5,584.5	5,566.5	-18.0	815.7	165	659.8	-507.3	4.47

BECFIELD . RVEY CALCULATION PROGRAM

OPERATOR: Mobil Exploration and Production
WELL: Ratherford Unit No. 20-44
JOB NO: 253076
FIELD: Greater Aneth
LOCATION: San Juan County, Utah

DATE: 06/06
TIME: 05:42
Information provided by:

DIP1	-0.06 °	-0.10 '/100'
TOP 1B	5,619.0	
@ VS	0.0	
DIP2	-0.60 °	-1.04 '/100'
top of DC 1A	5,558.0	
@ VS	0.0	

TERM I1 = 94.00
TERM I2 = 94.00

PROPOSED DIRECTION: 311.00 °(TRUE)

NO.	MD	INC.	AZ	TVD	TOP DC 1A	above(+) below(-)	SECT	right(+) left(-)	N-S	E-W	DLS/ 100
95	6,460	93.4	304.7	5,583.8	5,566.6	-17.2	825.6	164	665.5	-515.5	10.44
96	6,470	92.7	304.3	5,583.3	5,566.7	-16.5	835.6	163	671.2	-523.7	8.06
97	6,480	92.4	304.1	5,582.8	5,566.8	-16.0	845.5	162	676.8	-532.0	3.60
98	6,490	92.9	304.0	5,582.4	5,566.9	-15.4	855.4	161	682.4	-540.2	5.10
99	6,500	94.0	304.7	5,581.8	5,567.0	-14.7	865.3	159	688.0	-548.5	13.03
100	6,510	94.4	305.2	5,581.0	5,567.1	-13.9	875.2	158	693.7	-556.6	6.39
101	6,520	94.4	305.3	5,580.3	5,567.2	-13.0	885.1	157	699.5	-564.8	1.00
102	6,530	94.1	305.3	5,579.5	5,567.3	-12.2	895.1	156	705.2	-572.9	3.00
103	6,540	93.9	305.2	5,578.8	5,567.4	-11.4	905.0	155	711.0	-581.1	2.23
104	6,550	93.6	305.0	5,578.2	5,567.6	-10.6	914.9	154	716.7	-589.2	3.60
105	6,560	93.9	305.0	5,577.5	5,567.7	-9.9	924.8	153	722.4	-597.4	3.00
106	6,570	93.4	304.6	5,576.9	5,567.8	-9.1	934.8	152	728.1	-605.6	6.40
107	6,580	91.6	304.2	5,576.4	5,567.9	-8.6	944.7	151	733.8	-613.9	18.44
108	6,590	88.9	303.7	5,576.4	5,568.0	-8.4	954.6	150	739.4	-622.1	27.46
109	6,600	86.7	303.3	5,576.8	5,568.1	-8.7	964.5	149	744.9	-630.5	22.36
110	6,610	86.4	302.9	5,577.4	5,568.2	-9.2	974.4	147	750.3	-638.8	4.99
111	6,620	86.8	302.6	5,578.0	5,568.3	-9.7	984.3	146	755.7	-647.2	5.00
112	6,630	86.8	302.1	5,578.5	5,568.4	-10.1	994.2	144	761.1	-655.7	4.99
113	6,640	87.1	301.9	5,579.1	5,568.5	-10.6	1,004.0	143	766.4	-664.1	3.60
114	6,650	88.2	302.0	5,579.5	5,568.6	-10.9	1,013.9	141	771.7	-672.6	11.05
115	6,660	89.6	302.3	5,579.7	5,568.7	-11.0	1,023.8	140	777.0	-681.1	14.32
116	6,670	90.2	302.5	5,579.7	5,568.8	-10.9	1,033.6	138	782.3	-689.5	6.32
117	6,680	89.3	302.4	5,579.7	5,568.9	-10.8	1,043.5	137	787.7	-698.0	9.06
118	6,690	88.3	301.9	5,579.9	5,569.0	-10.9	1,053.4	135	793.0	-706.4	11.18
119	6,700	88.0	301.8	5,580.3	5,569.1	-11.2	1,063.3	133	798.3	-714.9	3.16
120	6,710	88.2	301.8	5,580.6	5,569.2	-11.4	1,073.1	132	803.6	-723.4	2.00
121	6,720	88.3	301.6	5,580.9	5,569.3	-11.6	1,083.0	130	808.8	-731.9	2.24
122	6,730	87.3	301.2	5,581.3	5,569.4	-11.9	1,092.9	129	814.0	-740.4	10.77
123	6,740	86.6	301.1	5,581.8	5,569.5	-12.3	1,102.7	127	819.2	-749.0	7.07
124	6,750	85.8	300.9	5,582.5	5,569.6	-12.9	1,112.5	125	824.3	-757.5	8.25
125	6,760	85.4	300.8	5,583.2	5,569.7	-13.5	1,122.3	123	829.4	-766.1	4.12
126	6,770	85.2	300.8	5,584.1	5,569.8	-14.2	1,132.2	122	834.5	-774.7	2.00
bit	6,796	84.7	300.8	5,586.3	5,570.1	-16.3	1,157.6	117	847.8	-796.9	2.00

BECFIELD SURVEY CALCULATION PROGRAM

OPERATOR: Mobil Exploration and Production
WELL: Ratherford Unit No. 20-44
JOB NO: 253076
FIELD: Greater Aneth
LOCATION: San Juan County, Utah

START: 05/24/95
FINISH: 06/06/95
COORDINATOR
W.E. Sheridan
Ken Maddux

Survey No. 0 is a tie-in to a
SCIENTIFIC DRILLING INTERNATIONAL
FINDER gyro survey run on 5/25/95.

EAST
DECLINATION: 12.3

PROPOSED
DIRECTION: 311.00

MINIMUM CURVATURE CALCULATIONS (SPE-3362)

NO.	MD	INC.	TRUE AZIMUTH	TVD	N-S	E-W	SECT.	DLS/ 100
105	6,560	93.9	305.0	5,577.5	722.4	-597.4	924.8	3.00
106	6,570	93.4	304.6	5,576.9	728.1	-605.6	934.8	6.40
107	6,580	91.6	304.2	5,576.4	733.8	-613.9	944.7	18.44
108	6,590	88.9	303.7	5,576.4	739.4	-622.1	954.6	27.46
109	6,600	86.7	303.3	5,576.8	744.9	-630.5	964.5	22.36
110	6,610	86.4	302.9	5,577.4	750.3	-638.8	974.4	4.99
111	6,620	86.8	302.6	5,578.0	755.7	-647.2	984.3	5.00
112	6,630	86.8	302.1	5,578.5	761.1	-655.7	994.2	4.99
113	6,640	87.1	301.9	5,579.1	766.4	-664.1	1004.0	3.60
114	6,650	88.2	302.0	5,579.5	771.7	-672.6	1013.9	11.05
115	6,660	89.6	302.3	5,579.7	777.0	-681.1	1023.8	14.32
116	6,670	90.2	302.5	5,579.7	782.3	-689.5	1033.6	6.32
117	6,680	89.3	302.4	5,579.7	787.7	-698.0	1043.5	9.06
118	6,690	88.3	301.9	5,579.9	793.0	-706.4	1053.4	11.18
119	6,700	88.0	301.8	5,580.3	798.3	-714.9	1063.3	3.16
120	6,710	88.2	301.8	5,580.6	803.6	-723.4	1073.1	2.00
121	6,720	88.3	301.6	5,580.9	808.8	-731.9	1083.0	2.24
122	6,730	87.3	301.2	5,581.3	814.0	-740.4	1092.9	10.77
123	6,740	86.6	301.1	5,581.8	819.2	-749.0	1102.7	7.07
124	6,750	85.8	300.9	5,582.5	824.3	-757.5	1112.5	8.25
125	6,760	85.4	300.8	5,583.2	829.4	-766.1	1122.3	4.12
126	6,770	85.2	300.8	5,584.1	834.5	-774.7	1132.2	2.00
127	6,780	84.9	300.8	5,584.9	839.6	-783.2	1142.0	3.00
128	6,790	84.4	300.9	5,585.9	844.7	-791.8	1151.8	5.10
129	6,800	83.9	300.9	5,586.9	849.9	-800.3	1161.6	5.00
130	6,838	82.0	300.9	5,591.5	869.2	-832.7	1198.7	5.00

Survey No.'s 1-129 BY TENSOR STEERING TOOL
Survey No. 130 is a projection to TD.
Bottom Hole Location (from Surface Location) :
Horizontal Displacement = 1203.7 feet
Displacement Bearing = North 43.8° West (TRUE)
Displacement Azimuth = 316.2° (TRUE)

Form 3160-4
(July 1992)

UNITE STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO TRIBAL

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other SIDETRACK

7. UNIT AGREEMENT NAME: RATHERFORD UNIT

8. FARM OR LEASE NAME, WELL NO.: RATHERFORD 20-44

2. NAME OF OPERATOR: Mobil Exploration & Producing U.S. Inc. as Agent for Mobil Producing TX & NM Inc.

9. API WELL NO.: 43-037-30915

3. ADDRESS AND TELEPHONE NO.: P.O. Box 633, Midland, TX 79702 (915) 688-2585

10. FIELD AND POOL, OR WILDCAT: GREATER ANETH

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements)**
At surface: 620' FSL, 760' FEL
At top prod. interval reported below: 1489'FSL, 1593' FEL
At total depth: BHL 869'N., 833'W F/SURF. LOC.

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SEC. 20, T41S, R24E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
NA	NA	SAN JUAN	UT

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
NA	6-5-1995	6-14-95	GL: 4820'	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
TVD 5706'	6838'		→		

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*: 5568-6838 DESERT CREEK

25. WAS DIRECTIONAL SURVEY MADE:

26. TYPE ELECTRIC AND OTHER LOGS RUN:

27. WAS WELL CORED:

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.5	126'	NA	150 SX SURF	NONE
9 5/8	40	1584	NA	600SX SURF	NONE
7	26 & 23	5706	NA	750SX TOC 5419'	NONE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	SN @5524'	

31. PERFORATION RECORD (*Interval, size and number*): 5568-6838 OH

RECEIVED
JUL 14 1995
GAS & MINING

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5558-5582	MILL WINDOW
5451	PUMP 150SX CL G CMT + 2.5 PP
5448	DRILL CICR
5561	KOP CONTINUED ON BACK

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping - size and type of pump*)	WELL STATUS (*Producing or shut-in*)
	2 1/2 X 1 3/4 X 23 1/2	PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO
7-7-95	24			127	56	225	441

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)
155	65					

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*):

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS:

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Shirley Robertson TITLE ENV. & REG. TECHNICIAN DATE 7-10-95

***(See Instructions and Spaces for Additional Data on Reverse Side)**

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 jurisdicton.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			# 32 CONT. 5605 -5380 PUMP 50X CL G CMT W/ 2.5# PPS MICRO-BOND., .5% CFR-3 AT 17.1# PPG (9BBLS SLURRY) 5494 PUMP 13.5SX 15.5 PPG CL B CMT. 5300-5574 SPOT BALANCED PLUG PUMPED 50SX C CL G NEAT CMT W/0.5% CFR3 0.98 YIELD 17.1PP 8.7 BBLS 5680-6838 ACDZ. W/15570 GAL 15% HCL

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

U.S. GOVERNMENT PRINTING OFFICE: 1992-774-672

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

C/O MOBIL OIL CORP
M E P N A
PO DRAWER G
CORTEZ CO 81321

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 6 / 95

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
4-14 4303716163	06280	41S 24E 4	IS-DC					
4-34 4303716164	06280	41S 24E 4	IS-DC					
#10-34 4303716166	06280	41S 24E 10	DSCR					
#11-14 4303716167	06280	41S 24E 11	DSCR					
RATHERFORD UNIT 1-34 4303716385	06280	41S 23E 1	IS-DC					
NORTH DESERT CR 32-13 (13-32) 4303716406	06280	41S 23E 13	DSCR					
THERFORD UNIT 28-11 4303730446	06280	41S 24E 28	DSCR					
#15-42 4303730448	06280	41S 24E 15	DSCR					
#15-22 4303730449	06280	41S 24E 15	DSCR					
#10-44 4303730451	06280	41S 24E 10	DSCR					
RATHERFORD UNIT 29-31 4303730914	06280	41S 24E 29	DSCR					
RATHERFORD UNIT 20-44 4303730915	06280	41S 24E 20	DSCR					
#19-42 4303730916	06280	41S 24E 19	DSCR					
					TOTALS			

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____

Name and Signature: _____ Telephone Number: _____

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[ ] **Well File** _____

(Location) Sec___Twp___Rng___

(API No.) _____

[ ] Suspense

(Return Date) _____

(To - Initials) _____

[XXX] Other

OPER NM CHG

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call [ ])

Talked to:

Name R. J. FIRTH (Initiated Call [XX]) - Phone No. ( )

of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation:

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:

1- LEC	7-PL ✓
2- LWP	8-SJ ✓
3- ~~DTS~~	9-FILE
4- VLC ✓	
5- RJF ✓	
6- LWP ✓	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator XXX Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: **8-2-95**)

TO (new operator) **MOBIL EXPLOR & PROD**
(address) **C/O MOBIL OIL CORP**
PO DRAWER G
CORTEZ CO 81321
phone (303) 564-5212
account no. N7370

FROM (former operator) **M E P N A**
(address) **C/O MOBIL OIL CORP**
PO DRAWER G
CORTEZ CO 81321
phone (303)564-5212
account no. N7370

Well(s) (attach additional page if needed):

Name: ** SEE ATTACHED **	API: 037 30915	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	

OPERATOR CHANGE DOCUMENTATION

N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).

N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

N/A 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)

LWP 6. Cardex file has been updated for each well listed above. 8-31-95

LWP 7. Well file labels have been updated for each well listed above. 9-28-95

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OVER

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

LEC 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) * No Fee Lease Wells at this time!

N/A/LEC 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases.**

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: October 6 1995.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 UIC F5/Not necessary!

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-603-353
6. If Indian, Allottee or Tribe Name: NAVAJO TRIBAL
7. If Unit or CA, Agreement Designation: RATHERFORD UNIT
8. Well Name and No.: RATHERFORD 20-44
9. API Well No.: 43-037-30915
10. Field and Pool, or exploratory Area: GREATER ANETH
11. County or Parish, State: SAN JUAN UT

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other SIDETRACK
2. Name of Operator: Mobil Exploration & Producing U.S. Inc. as Agent for Mobil Producing TX & NM Inc.
3. Address and Telephone No.: P.O. Box 633, Midland, TX 79702 915-688-2585
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1984 620' FSL & 760 FEL 231
SEC.20, T41S, R24E

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other SIDETRACK	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BHL: LATERAL #1 - 1005' SOUTH & 1115' EAST F/SURFACE SPOT (ZONE 1a)
306 339

452, 337.69 FWL
286.68 FNL
942 2182'S

SEE ATTACHED PROCEDURE.

RECEIVED
SEP 1997
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Shirley Todhunter Title ENV. & REG. TECHNICIAN Date 08-27-97

(This space for Federal or State office use)
Approved by John K. Baza Title Associate Director Date 9/10/97
Conditions of approval, if any:

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.

* See Instruction on Reverse Side

Ratherford Unit Well #20-44
Horizontal Drilling Procedure

The objective of this procedure is to prepare this wellbore for sidetracking, sidetrack the subject well and short radius horizontal lateral (1600 ft).

1. Prepare location and dig working pit.

2. MIRU WSU, reverse unit, and H_2S equipment. Bullhead kill weight fluid down tubing.

3. Release packer, and pick up on wellhead to remove. ND wellhead and NU BOP's. Pressure test BOP's.

4. Continue to POH with tubing.

5. TIH with full gauge bit and casing scraper to PBTD. TOH with bit and scraper.

6. Ensure well will circulate, and set RTBP above perfs. **Pressure test casing to 1000 psi.**

7. RDMO WSU.

8. MIRU 24 hr WSU.

9. PU tubing, drill collars, and drill pipe in derrick and run in hole. Then POH and stand back.

10. Run RTBP on wireline and set using GR/CCL log to correlate with. RD wireline.

11. PU drillpipe with UBHO sub and whipstock and starter mill.

12 Run gyro and obtain orientation of whipstock face. Set whipstock.

13. Shear pilot mill bolt and start milling window.

14. POH and PU window mill and watermelon mill to finish window and drill 2 ft of formation.

15. POH w/ mills and RBIH w/ new mills to clean up window.

16. PU drill pipe, MWD, and directional motors to drill curve. Use the gyro to drill until the inclination dictates that the gyro must be pulled.

17. Finish drilling the curve using the MWD.

18. POH once curve is finished and PU lateral motor to drill the lateral using MWD.

19. Once lateral TD is reached, POH w/ directional equipment.

20. PU RTBP and set at 5500'. RDMO.

WELL HISTORY

RATHERFORD UNIT #20-44
GREATER ANETH FIELD
620' FSL, 760' FEL
BHL: 869' N & 833' W of Surface Location
SEC 20, T41S, R24E

SAN JUAN COUNTY, UTAH

API# 43-037-30915
PRISM ID 0043106

KB: 4832' GL: 4820'
ORG TD: 5706' ORG PBTD: 5642'

NEW TD: 6830' MD ____' TVD

10-17-83 Drill 18" hole to 126' GL. Ran & set 3 jts 13-3/8", 54.5#/ft K-55 R-3 ST&C conductor pipe. Dowell cmtd w/ 150 sx Cl B + 3% CaCl2 + 1/4#/sk Celloflakes. Circulate to surface.

10-19-83 Spud well. Drill 12-1/4" hole to 1610'. Ran & set 41 jts 9-5/8", 40#/ft K-55 ST&C surface csg @ 1584'. Dowell cmtd w/ 300 sx Cl B + 20% Diacel D + 2% CaCl2 + 1/4#/sk Cello- flakes & tailed w/ 200 sx Cl B + 2% CaCl2 + 1/4#/sk Cello- flakes. Did not circulate. Cmtd annulus w/ 100 sx Cl B + 3% CaCl2 via 1" tbg.

10-21-83 Drill 8-3/4" hole to TD @ 5706'. Condition hole for logs. Schlumberger ran DLL/MSFL/GR & FDC/CNL logs. Next day- ran & set 28 jts (1109') 7", 26#/ft K-55 Buttress & 113 jts (4606') 7", 23#/ft K-55 ST&C production csg. Dowell cmtd w/ 400 sx Cl B + 20% Diacel D + 10% salt + 1/4#/sk Cello-flakes & tailed w/ 350 sx Cl B + .75% D-59 + 18% salt + 1/4#/sk Celloflakes. Tested csg to 1500#. TOC at 2350' CBL.

11-1-93 Ran temp survey: TOC @ 2350'.

11-21-83 Initial completion. MIRU WO unit & test BOP & csg. GIH w/ 6-1/8" bit & 7" CS on 2-7/8" tbg. Tag cmt @ **5642' (PBTD)**. POOH w/ tools. Geosource WL ran CBL/VDL/GR logs & had tool problems. Next day- Gearhart WL ran CBL/VDL w/GR/CCL & **perfed 5559-70', 5570-90', & 5590-5610' w/ 4" HSC CG w/ 2 SPF 120 deg phasing**. RIH w/ 4 jts tailpipe, SN, 7" Baker R-3 pkr, & 178 jts 2-7/8" tbg. Set pkr @ 5415'.

11-22-83 Dowell spot 190 gals 28% HCl, set pkr @ 5277' w/ tailpipe to 5408', & acidized perfs w/ 7312 gals 28% HCl + (150) 7/8" 1.3 SG ballsealers (1/bbl). AIR 5.8 BPM @ 2900#. ISIP 2250#, 5 min 1600#, 10 min 1400#, 15 min 1300#. Total load: 298.4 bbls. Flowed back 72 BW. Turned over to prod.

11-26-83 **IP: Fl 284 BO + 4 BW + 106 Mcf, GOR 373, 17/64" chk, 400# FTP**

12-24-83 Tefteller, Inc ran 115 hr BHP build-up: initial: 1815# & final/BHP: 2137# @ 5380' (.310 gradient). Put back on production. Well flowing. **Test: Fl 63 BO + 3 BW, 14/64" chk, 270# FTP** (1-7-84)

5-14-84 Install artificial lift. MIRU WO unit & POOH w/ tbg & pkr. GIH w/ SN, TAC, & 184 jts 2-7/8" tbg. Ran 2.5" x 1.75" x 18' pump, (133) 3/4" SR, & (81) 7/8" SR.

TVE 7-21-93
Checked by LA Tucker 7-26-96

6-14-95 **HORIZONTAL SIDETRACK**: TAG FILL AT 5636'. MILL WINDOW IN CSG 5558-82'. SET

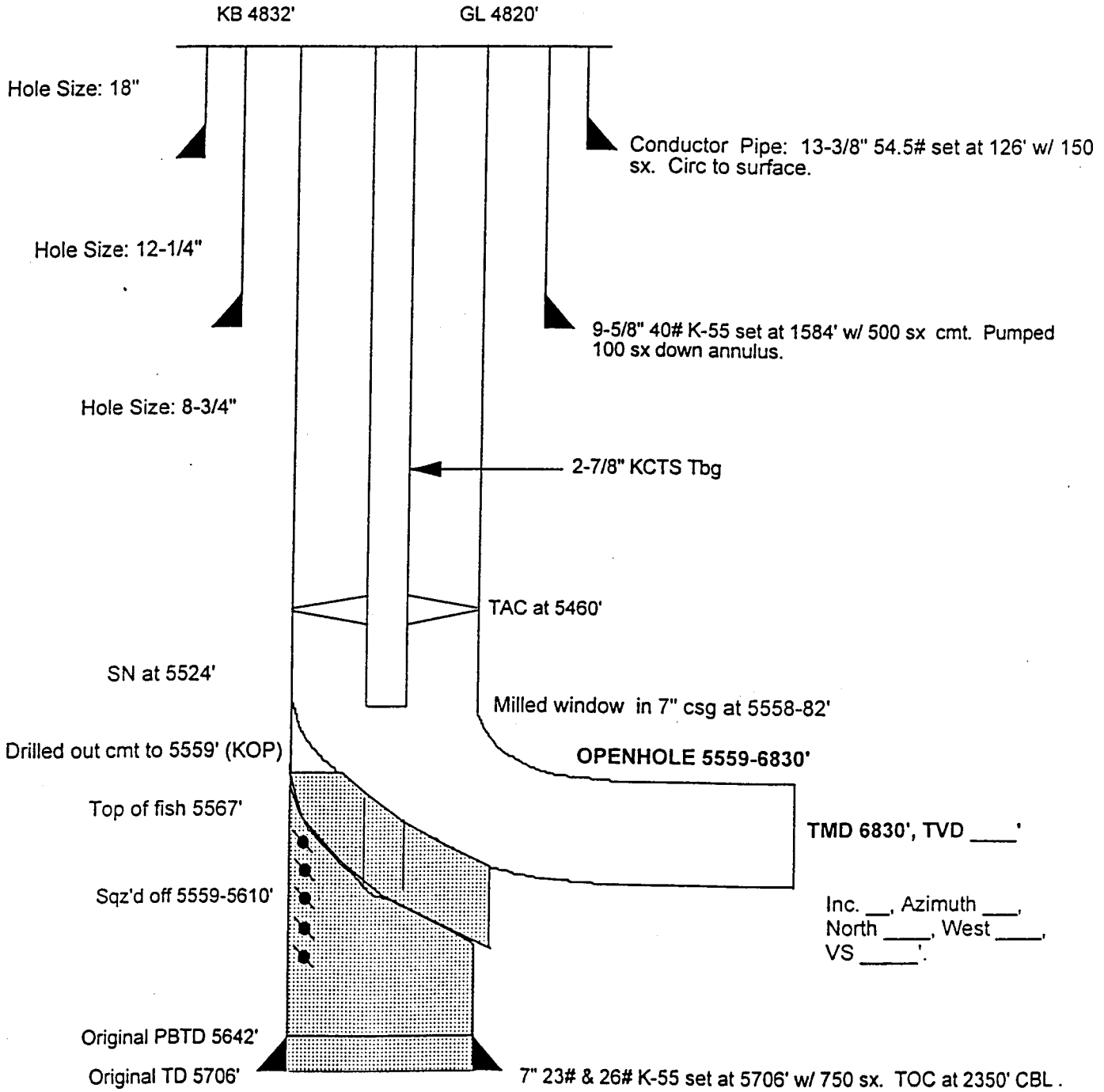
CICR AT 5451'. PUMPED 150 SX CMT TO SQZ OFF PERFS. D.O. CMT TO 5561' (KOP). DRILL CURVE 5561-83'. SPOT 50 SX CMT 5605-5380'. CMT FLASH SET - TBG STUCK. WASHOVER AND RECOVER PART OF FISH. TOP OF FISH IN HOLE AT 5567'. TOP OF WINDOW AT 5556-57'. RIH W/ DUMP BAILER. DUMPED 13.5 SX CMT. SPOT ANOTHER 50 SK PLUG 5574-5300'. D.O. CMT TO 5559'. BEGIN DRILLING 5559-63'. COULDN'T GET PAST JUNK. MILLED JUNK 5563-65'. CONTINUE DRILLING CURVE 5568-5660'. DRILL LATERAL HOLE 5660-6830' TD. SET RBP AT 5000'. TEST CSG TO 1000# FOR 15 MIN -OK. ATTEMPT TO RUN LOGS - LOGGING TOOL TOO LONG TO GO THRU CURVE. SET PKR AT 5421'. USED C.T. TO ACIDIZE OPEN HOLE W/ 15570 GAL 15% HCL. FLOWED AND SWABBED. RIH W/ PROD. EQUIPMENT. TAC AT 5460', SN AT 5524'. 2-7/8" TBG. RWTP. **BHL: 869' N AND 833' W FROM SURFACE LOCATION.**

LAT 7-26-96

RATHERFORD UNIT # 20-44

INJECTOR

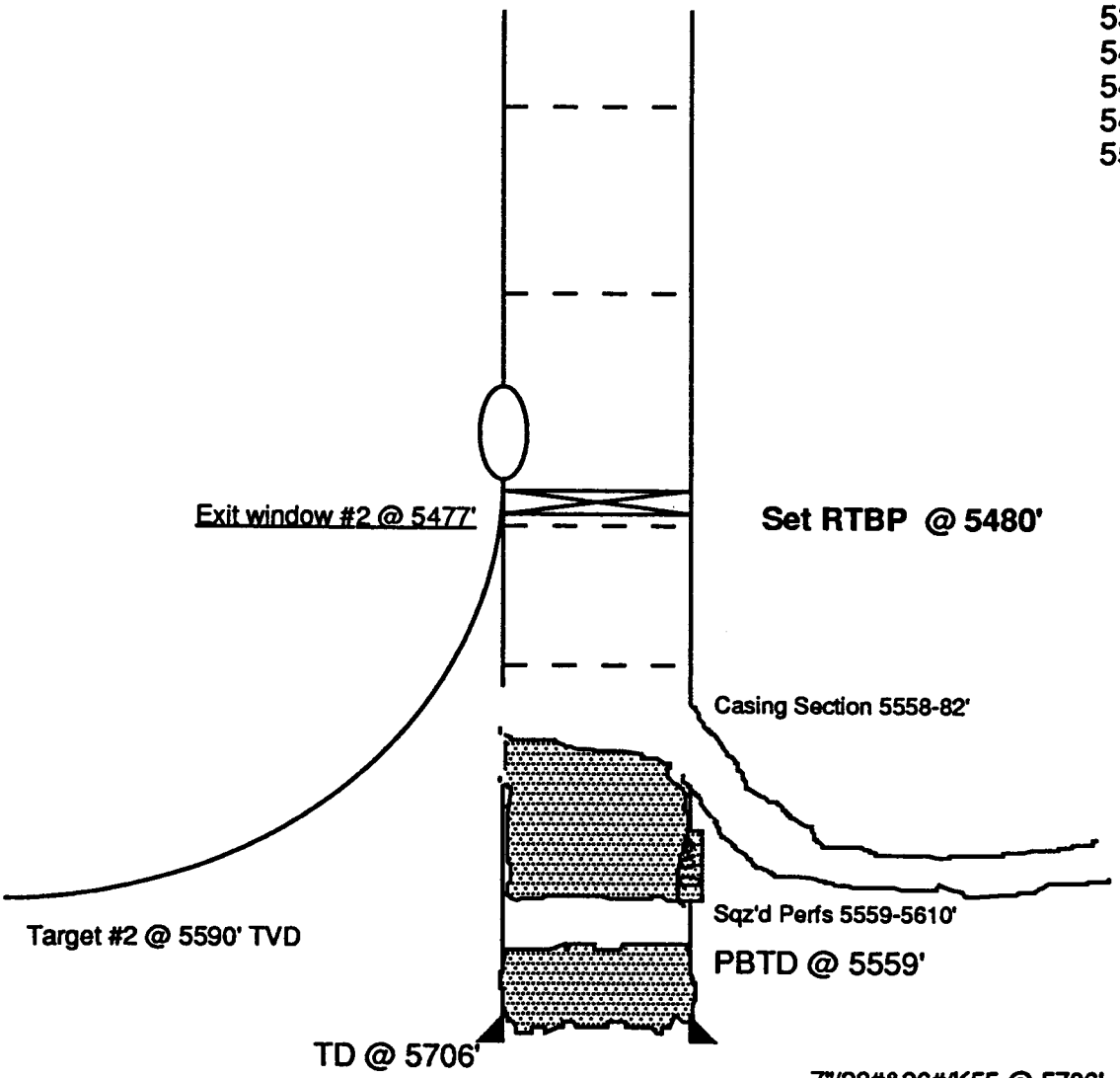
GREATER ANETH FIELD
Surface Location: 620' FSL, 760' FEL
BH Location: 869' N & 833' W of Surf. Loc.
SEC 20-T41S-R23E
SAN JUAN COUNTY, UTAH
API 43-037-30915
PRISM 0043106



L. A. TUCKER 7-26-96 R.U. # 20-44

Whipstock plan for Ratherford #20-44

Casing collars@
5365',
5406',
5444',
5484',
5525'



7"/23#&26#/K55 @ 5706' cmt'd w/ 750 sx cmt
TOC @ 2350' CBL

Casing (btm to top)

28 jts 7"/26#/K55/BTC 1109'
113 jts 7"/23#/K55/STC 4606'

Window	Btm-Top of window	Extension length	Curve radius	Bearing	Horiz Displ
2	5477-69	-	113	127	1600

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/02/97

API NO. ASSIGNED: 43-037-30915

WELL NAME: RATHERFORD 20-44 (RE-ENTRY)
OPERATOR: MOBIL EXPL & PROD (N7370)

PROPOSED LOCATION:
SESE 20 - T41S - R24E
SURFACE: 0620-FSL-0760-FEL
BOTTOM: 0942-FNL-0452-FWL
SAN JUAN COUNTY
GREATER ANETH FIELD (365)

LEASE TYPE: IND
LEASE NUMBER: 14-20-603-353

PROPOSED PRODUCING FORMATION: DSCR

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

- ✓ Plat
- ✓ Bond: Federal [✓] State [] Fee []
  (Number UNKNOWN)
- N Potash (Y/N)
- N Oil shale (Y/N)
- ✓ Water permit
  (Number NAVAJO ALLOTMENT)
- N RDCC Review (Y/N)
  (Date: _____)

LOCATION AND SITING:

- ✓ R649-2-3. Unit: RATHERFORD
- ___ R649-3-2. General.
- ___ R649-3-3. Exception.
- ___ Drilling Unit.
  Board Cause no: _____
  Date: _____

COMMENTS: _____

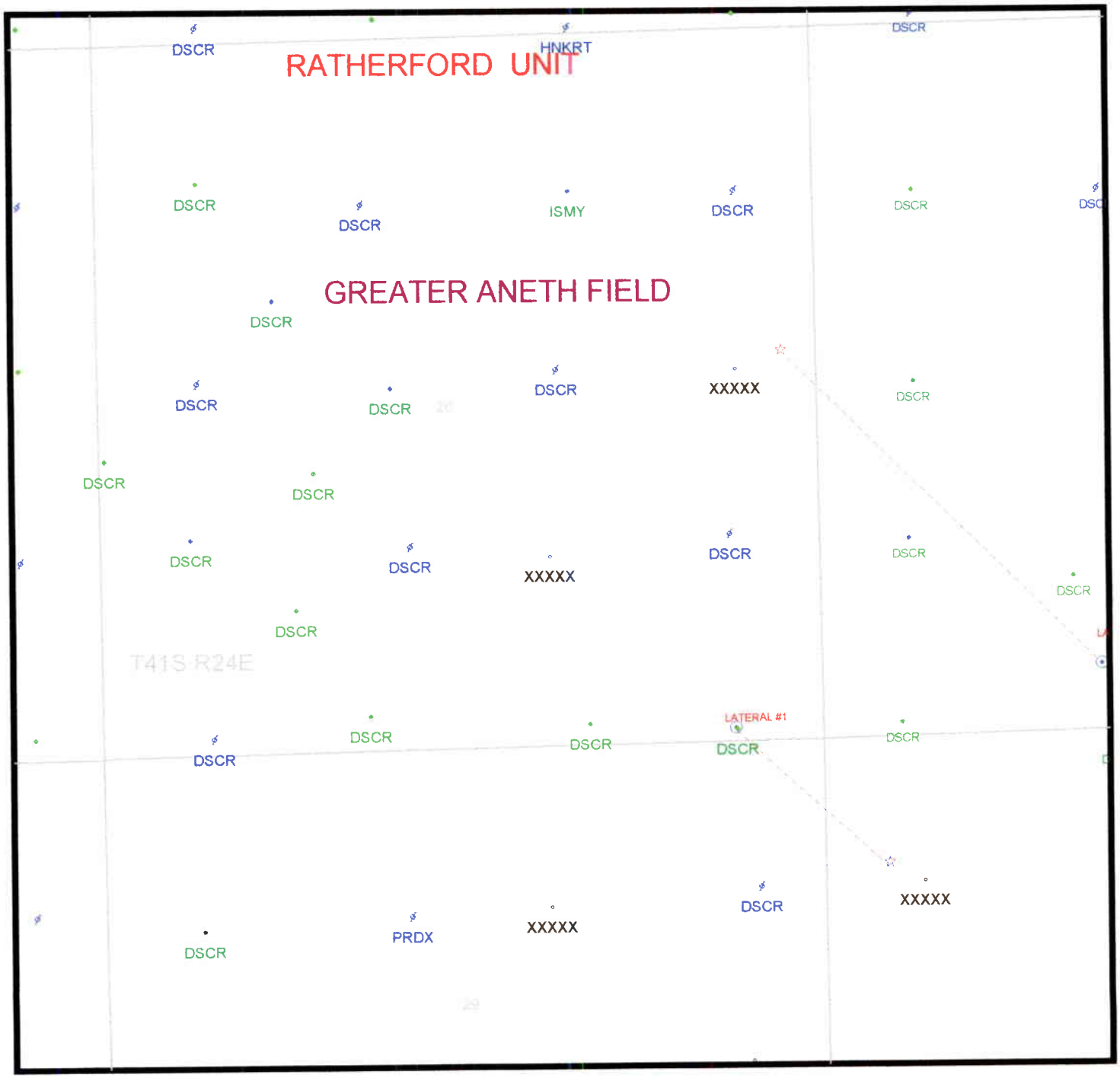
STIPULATIONS: 1- Directional Drilling

OPERATOR: MOBIL EXPL & PROD (N7370)

FIELD: GREATER ANETH (365)

SEC, TWP, RNG: SEC. 2.0, T41S, R24E

COUNTY: SAN JUAN UAC: R649-2-3 RATHERFORD



PREPARED:
DATE: 8-SEP-97

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

September 10, 1997

Mobil Exploration & Producing U.S., Inc.
P.O. Box 633
Midland, Texas 79702

Re: Ratherford 20-44 (Re-entry) Well, 620' FSL, 760' FEL, SE SE, Sec. 20, T. 41 S., R. 24 E., San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to re-enter and drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-30915.

Sincerely,

John R. Baza
Associate Director

lwp
Enclosures
cc: San Juan County Assessor
Bureau of Land Management, Moab District Office

Operator: Mobil Exploration & Producing U.S., Inc.

Well Name & Number: Ratherford 20-44 (Re-entry)

API Number: 43-037-30915

Lease: 14-20-603-353

Location: SE SE **Sec.** 20 **T.** 41 S. **R.** 24 E.

Conditions of Approval

1. General
   Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements
   Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

   Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

3. Reporting Requirements
   All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-603-353
6. If Indian, Allottee or Tribe Name: NAVAJO TRIBAL
7. If Unit or CA, Agreement Designation: RATHERFORD UNIT
8. Well Name and No.: RATHERFORD 20-44
9. API Well No.: 43-037-30915
10. Field and Pool, or exploratory Area: GREATER ANETH
11. County or Parish, State: SAN JUAN UT

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other SIDETRACK
2. Name of Operator: Mobil Exploration & Producing U.S. Inc. as Agent for Mobil Producing TX & NM Inc.
3. Address and Telephone No.: P.O. Box 633, Midland, TX 79702 915-688-2585
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
620' FSL & 760 FEL
SEC.20, T41S, R24E
BHL: LATERAL #1 869' FNL & 833' FWL/SURFACE LOCATION (TD 6838)

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other SIDETRACK	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BHL: LATERAL #2 - 1005' SOUTH & 1115' EAST F/SURFACE SPOT (ZONE 1a)

SUNDRY FILED TO CORRECT LATERAL NUMBER.

RECEIVED
SEP 29 1997
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Sue Moseley for SHIRLEY HOUCHINS Title ENV. & REG. TECHNICIAN Date 09-26-97

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

* See Instruction on Reverse Side

ROCKY MOUNTAIN GEO-ENGINEERING
Well Logging • Consulting Geology • Coal Bed Methane Services • Computerized Logging Equipment & Software
ROCKY MOUNTAIN GEO-ENGINEERING CORP.
2450 INDUSTRIAL BLVD. • GRAND JUNCTION, CO 81505
(970) 243-3044 • (FAX) 241-1085

Tuesday, November 11, 1997

Division of Oil & Gas Mining
State of Utah
1636 W. North Temple
Salt Lake City, UT 84116

Re: Ratherford Unit #20-44 Leg 2
Sec. 20, T41S, R24E
San Juan County, Utah
43037309 15
DRL

Dear Sirs:

Enclosed are the final computer colored logs and geology reports for the above referenced well.
ID LOG FILE

We appreciate the opportunity to be of service to you and look forward to working with you again in the near future.

If you have any questions regarding the enclosed data, please contact us.

Sincerely,

Bill Nagel
Senior Geologist

BN/dn

Enc. 1 Final Computer Colored Log & 1 Geology Report

cc Letter Only; Dana Larson; Mobil E & P U.S., Inc.; Midland, TX

MOBIL

RATHERFORD UNIT #20-44
SE HORIZONTAL LATERAL LEG #2
1-A POROSITY BENCH
DESERT CREEK MEMBER
PARADOX FORMATION
SECTION 1, T41S, R23E
SAN JUAN, UTAH

GEOLOGY REPORT
by
DAVE MEADE / MARVIN ROANHORSE
ROCKY MOUNTAIN GEO-ENGINEERING CORP.
GRAND JUNCTION, COLORADO
(970) 243-3044

TABLE OF CONTENTS

WELL SUMMARY

OPERATOR:	MOBIL EXPLORATION & PRODUCTION U.S. INC.
NAME:	RATHERFORD UNIT #20-44 SE HORIZONTAL LATERAL LEG #2 IN 1-A POROSITY BENCH, DESERT CREEK
LOCATION:	SECTION 20, T41S, R24E
COUNTY/STATE:	SAN JUAN, UTAH
ELEVATION:	KB: 4832' GL: 4820'
SPUD DATE:	10/30/97
COMPLETION DATE:	11/03/97
DRILLING ENGINEER:	BENNY BRIGGS
WELLSITE GEOLOGY:	DAVE MEADE
MUDLOGGING ENGINEERS:	DAVE MEADE / MARVIN ROANHORSE
CONTRACTOR: **TOOLPUSHER:**	BIG "A" RIG 25 J. DEES
HOLE SIZE:	4 3/4"
CASING RECORD:	KICK OFF POINT IN WINDOW AT 5463' MEASURED DEPTH
DRILLING MUD: **ENGINEER:** **MUD TYPE:**	M-I RONNIE WESTENBURG FRESH WATER & BRINE WATER W/ POLYMER SWEEPS
DIRECTIONAL DRILLING CO:	SPERRY-SUN
ELECTICAL LOGGING:	NA
TOTAL DEPTH:	7050' MEASURED DEPTH; 5603.2' TVD
STATUS:	TOH TO WINDOW & KILL WELL PRIOR TO LAYING DOWN TOOLS - PREPARE FOR RIG MOVE

DRILLING CHRONOLOGY
RATHERFORD UNIT #20-44
1-A SE HORIZONTAL LATERAL LEG #2

DATE	DEPTH	DAILY	ACTIVITY
10/29/97	5454'	0'	MOVE RIG & RIG UP-SET & PRES TEST BP & RAMS-TIH W/COLLARS
10/30/97	5454'	5'	PICK UP & STRAP AOH DP-TIH-CIR-RIG UP GYRO DATA & RUN GYRO-ORIENT & SET WHIPSTOCK-PULL GYRO-MILL W/ STARTER MILL-5454'-5455'-CIR & PUMP BRINE WATER-TOH-LAY DOWN STARTER MILL-P.U. WINDOW & WATERMELLON MILLS-TIH-MILL 7" CASING FROM 5454'-5459'
10/31/97	5459'	31'	MILL 7" CASING FROM 5459'-5463'-PUMP SWEEP & CIR OUT-TOH-L.D. MILLS-P.U. CURVE ASSEMBLY & BIT #1 (RR)-ORIENT & TEST MUD MOTOR & MWD-TIH-CIR-RIG UP GYRO DATA & RUN GYRO-TIME DRLG @ 2 MIN/IN 5463'-5467'-DIR DRLG & WIRELINE SURVEYS TO 5490'-PULL GYRO & RIG DOWN GYRO DATA -MWD QUITS-TOOH
11/01/97	5490'	178'	TOOH-CHANGE MWD & TEST-TIH-P.U. SWIVEL & BREAK CIR-DIR DRLG CURVE & SURVEYS T0 TD OF 5668'-PUMP 10 BBL SWEEP & CIR OUT SMPLS-PUMP 300 STRK BRINE WATER-L.D. 53 JNTS AOH D.P.-TOOH-
11/02/97	5668'	1255'	L.D. CURVE ASSEMBLY- P.U. LATERAL ASSEMBLY/NB #2 & ORIENT-TIH W/ LATERAL ASSEMBLY TO WINDOW-CIR GAS OUT THRU CHOKE-TIH,BREAK CIR-DIR DRLG & SURVEYS
11/03/97	6923'	127'	DIR DRLG & SURVEYS TO TD OF 7050'-MWD FAILS AT 7018' MD-PUMP 10 BBL SWEEP & SMPLS OUT-TOH TO WINDOW,(51 JNTS)-CIR GAS OUT THRU CHOKE-SHUT IN WELL-1000 PSI PRESSURE ON CHOKE-MIX MUD & KILL WELL-TOH-LAY DOWN LATERAL ASSEMBLY-TIH TO RETRIEVE WHIPSTOCK & PREPARE TO MOVE RIG

DAILY ACTIVITY

Operator: MOBIL
Well Name: RATHERFORD UNIT #20-44 SE 1-A HORIZONTAL LATERAL LEG #2

DATE	DEPTH	DAILY	DATE	DEPTH	DAILY
10/29/97	5454'	0'			
10/30/97	5454'	0'			
10/31/97	5459'	5'			
11/01/97	5490'	178'			
11/02/97	5668'	1255'			
11/03/97	6923'	127'			
TD	7050'				

BIT RECORD

OPERATOR: MOBIL
WELL NAME: RATHERFORD UNIT #20-44 SE 1-A HORIZONTAL LATERAL LEG #2

RUN	SIZE	MAKE	TYPE	IN/OUT	FTG	HRS	FT/HR
#1 RR	4 3/4"	HTC	STR-20	5463'/ 5668 '	205'	12	17.1
#2	4 3/4"	HTC	STR-20	5668'/ 7050'	1382'	22	62.8

SPERRY-SUN DRILLING SERVICES
SURVEY DATA

Customer ... : MOBIL (UTAH)
Platform ... : MOBIL (UTAH)
Slot/Well .. : BA25/20-44, 2A1

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	TVD	NORTHINGS FEET	EASTINGS FEET	VERTICAL SECTION	DOG LEG
5400.00	1.21	247.90	5399.68	4.53 N	15.31 E	9.50	0.00
5454.00	1.16	255.54	5453.67	4.18 N	14.25 E	8.87	0.31
5463.00	3.20	127.50	5462.66	4.01 N	14.36 E	9.06	44.67
5473.00	6.90	127.63	5472.62	3.47 N	15.06 E	9.94	37.00
5483.00	11.40	127.67	5482.49	2.50 N	16.32 E	11.53	45.00
5493.00	16.60	127.69	5492.19	1.02 N	18.23 E	13.95	52.00
5503.00	21.60	127.70	5501.64	0.98 S	20.82 E	17.22	50.00
5513.00	26.20	130.10	5510.78	3.53 S	23.97 E	21.27	47.01
5523.00	29.80	128.50	5519.61	6.50 S	27.60 E	25.96	36.77
5533.00	33.60	129.20	5528.12	9.80 S	31.69 E	31.21	38.18
5543.00	37.10	124.10	5536.27	13.24 S	36.34 E	36.99	45.75
5553.00	41.60	122.80	5544.00	16.73 S	41.63 E	43.31	45.75
5563.00	45.60	123.00	5551.24	20.47 S	47.42 E	50.19	40.02
5573.00	50.10	123.70	5557.95	24.55 S	53.61 E	57.59	45.30
5583.00	55.00	124.10	5564.03	28.98 S	60.20 E	65.51	49.10
5593.00	59.30	126.00	5569.45	33.80 S	67.07 E	73.91	45.86
5603.00	62.80	129.00	5574.30	39.13 S	74.01 E	82.65	43.75
5613.00	66.10	132.50	5578.61	45.02 S	80.84 E	91.65	45.67
5623.00	68.60	135.90	5582.46	51.46 S	87.45 E	100.81	40.12
5633.00	72.90	135.90	5585.76	58.23 S	94.02 E	110.13	43.00
5643.00	77.90	135.00	5588.28	65.13 S	100.80 E	119.70	50.75
5668.00	85.80	132.50	5591.82	82.22 S	118.67 E	144.26	33.11
5688.56	84.30	130.30	5593.59	95.77 S	134.03 E	164.68	12.92
5720.41	86.20	128.40	5596.23	115.89 S	158.58 E	196.39	8.42
5752.19	87.40	124.90	5598.00	134.83 S	184.03 E	228.11	11.63
5784.04	89.10	122.60	5598.98	152.51 S	210.50 E	259.89	8.98
5815.90	90.30	121.90	5599.14	169.51 S	237.44 E	291.64	4.36
5847.74	91.10	122.80	5598.76	186.55 S	264.34 E	323.38	3.78
5879.45	90.50	126.50	5598.31	204.57 S	290.41 E	355.05	11.82
5911.17	89.70	129.50	5598.26	224.10 S	315.41 E	386.76	9.79
5942.26	90.30	129.70	5598.26	243.92 S	339.36 E	417.82	2.03
5974.12	90.20	129.10	5598.12	264.14 S	363.98 E	449.65	1.91
6005.91	90.50	128.40	5597.92	284.04 S	388.77 E	481.42	2.40
6037.76	91.00	127.50	5597.51	303.62 S	413.89 E	513.27	3.23
6069.48	91.60	127.70	5596.79	322.97 S	439.01 E	544.98	1.99
6100.45	91.20	128.20	5596.03	342.01 S	463.42 E	575.93	2.07
6132.26	91.60	128.10	5595.25	361.65 S	488.43 E	607.73	1.30
6164.06	89.60	129.10	5594.92	381.49 S	513.28 E	639.51	7.03

SPERRY-SUN DRILLING SERVICES
SURVEY DATA

Customer ... : MOBIL (UTAH)
Platform ... : MOBIL (UTAH)
Slot/Well .. : BA25/20-44, 2A1

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	TVD	NORTHINGS FEET	EASTINGS FEET	VERTICAL SECTION	DOG LEG
6195.01	89.60	129.30	5595.14	401.05 S	537.27 E	670.44	0.65
6226.75	87.60	130.00	5595.91	421.30 S	561.70 E	702.13	6.68
6258.50	87.70	129.70	5597.21	441.62 S	586.05 E	733.82	1.00
6289.50	87.30	126.30	5598.57	460.69 S	610.45 E	764.78	11.03
6321.25	87.20	125.30	5600.09	479.24 S	636.17 E	796.48	3.16
6353.01	88.90	124.00	5601.17	497.29 S	662.28 E	828.20	6.74
6384.91	89.80	123.90	5601.53	515.10 S	688.74 E	860.05	2.84
6416.68	89.80	124.00	5601.64	532.84 S	715.10 E	891.77	0.31
6447.51	88.90	123.70	5601.99	550.01 S	740.70 E	922.55	3.08
6479.35	88.70	123.30	5602.66	567.58 S	767.24 E	954.33	1.40
6510.52	90.40	124.40	5602.90	584.94 S	793.13 E	985.45	6.50
6542.32	90.10	124.20	5602.77	602.86 S	819.40 E	1017.21	1.13
6574.03	90.30	123.90	5602.65	620.62 S	845.67 E	1048.88	1.14
6605.85	90.50	124.40	5602.43	638.48 S	872.00 E	1080.66	1.69
6637.61	91.20	124.00	5601.96	656.33 S	898.27 E	1112.38	2.54
6668.66	91.40	124.40	5601.26	673.78 S	923.94 E	1143.38	1.44
6700.39	92.20	124.90	5600.26	691.81 S	950.03 E	1175.07	2.97
6732.06	91.70	127.50	5599.18	710.50 S	975.57 E	1206.72	8.36
6763.88	90.40	129.80	5598.60	730.37 S	1000.42 E	1238.52	8.30
6795.69	91.20	130.40	5598.15	750.86 S	1024.75 E	1270.28	3.14
6826.75	92.50	130.40	5597.15	770.98 S	1048.39 E	1301.26	4.19
6858.50	90.50	131.20	5596.32	791.72 S	1072.41 E	1332.93	6.78
6889.28	87.50	129.70	5596.86	811.68 S	1095.83 E	1363.65	10.90
6921.04	87.50	129.80	5598.24	831.97 S	1120.22 E	1395.34	0.31
6952.75	87.60	128.80	5599.60	852.03 S	1144.74 E	1427.00	3.17
* 7050.00	88.20	126.40	5603.16	911.33 S	1221.73 E	1524.17	2.54 *

THE DOGLEG SEVERITY IS IN DEGREES PER 100.00 FEET.
N/E COORDINATE VALUES GIVEN RELATIVE TO WELL SYSTEM REFERENCE POINT.
TVD COORDINATE VALUES GIVEN RELATIVE TO WELL HEAD.
THE VERTICAL SECTION ORIGIN IS WELL HEAD.
THE VERTICAL SECTION WAS COMPUTED ALONG 127.00 (TRUE).
CALCULATION METHOD: MINIMUM CURVATURE.

*7050'BIT PROJECTION,5400'GYRO TIEON,5454'INTERPOLE
GYRO,5463'MWD ANGLE & GYRO TF FOR AZI
5473-5493'INTREPOLATE AZ,5503-5533 AZI MAG INTERFER

MUD REPORT

OPERATOR: MOBIL
WELL NAME: RATHERFORD UNIT #20-44 SE 1-A HORIZONTAL LATERAL LEG #2

DATE	DEPTH	WT	VIS	PLS	YLD	GEL	pH	WL	CK	CHL	CA	SD	OIL	WTR
10/30/97	5454'	8.8	27	–	–	–	8.5	–	–	58 K	2400	–	0%	100%
10/31/97	5612'	8.8	27	–	–	–	11.0	–	–	62 K	2400	–	0%	100%
11/01/97	5508'	8.6	26	–	–	–	11.6	–	–	30 K	2400	–	0%	100%
11/02/97	5786'	8.5	26	–	–	–	11.0	–	–	31 K	2800	–	20%	80%

SAMPLE DESCRIPTIONS

OPERATOR: MOBIL
WELL NAME: RATHERFORD UNIT #20-44 SE 1-A HORIZONTAL LATERAL LEG #2

DEPTH	LITHOLOGY

5460.00 5470.00 "LS ltbrngy-tan-crm,wh,occ ltbrn,crpxl-sl micxl,v chky-plty,sl anhy,sl arg ip,cln,NFSOC,scat blk carb SH frag,prob cvgs"

5470.00 5480.00 "LS crm-ltbrngy-wh,occ tan-ltbrn,crpxl-occ micxl,v chky-plty,sl anhy,v sl arg ip,tr blk SH strk,NFSOC/vrr ltbrn micxl DOL frag,NFSOC"

5480.00 5490.00 "LS AA,occ brn,v sl micsuc,chty ip,v sl dol,tt-v rr intxl POR,NFSOC,w/v thn scat ltbrn-gybrn,crpxl-micxl,arg DOL,tt,NFSOC,scat brn CHT frag,v rr scat CMT frag after trip"

5490.00 5500.00 "LS tan-brn,occ wh-crm,crpxl-micxl,v sl micsuc,rthy-arg,plty,occ chk,sl chty,v sl dol,anhy-v rr ANHY incl,tt-v rr intxl POR,NFSOC,w/thn DOL & scat CHT AA"

5500.00 5510.00 "LS AA,micxl,v arg-sl dol,NFSOC,w/thn intbd ltbrn micxl sl lmy DOL tt NFSOC & tr brn CHT frag"

5510.00 5530.00 "LS crm-tan-brn-gybrn,crpxl-micxl,cln-v arg,sl mrly,dol ip,occ grdg to v lmy MRLST,,tt-v rr intxl POR,NFSOC,scat brn v shy micxl arg calc DOL & brn-trnsl CHT frag,incr amnts gy-dkgy occ blk sbblky-plty dol-calc mica v sl carb SH"

5530.00 5540.00 "LS AA,decr mrly,tt-v rr intxl POR,NFSOC,w/scat brn-trnsl occ mot CHT frag,tr thn intbd DOL brn-mbrn-gybrn micxl arg sl lmy shy ip,tt NFSOC & gy-dkgy calc-sl dol mica SH"

5540.00 5550.00 "LS crm-tan wh,ltbrn ip,crpxl-micxl,arg,anhy-tr ANHY incl,chty,slty,tt,NFSOC,grdg to ltgy sl sdy v lmy mica SLTST,w/thn intbd DOL & SH AA,tr clr-trnsl-rr ltbrn CHT frag"

5550.00 5560.00 "LS AA,mrly-slty ip,rr ANHY incl,tt-v rr intxl POR,NFSOC,w/DOL brn-gybrn bcmg v shy,tt,NFSOC,scat clr-trnsl CHT frag & SH blk sbblky-sbplty,calc-dol,carb sl mica"

5560.00 5570.00 "SH blk-dkgy,sbblky-sbplty,calc-dol,carb,mica,slty-v slty ip,w/v rr thn crm-tan fos LS AA & brn-mbrn arg sl fos DOL AA,rr CHT FRAG"

5570.00 5580.00 "LS crm-tan,occ brn,crpxl-micxl,v rr vfxl-micsuc,arg,v sl chty,anhy ip,sl dol,v sl slty,tt-v rr intxl POR,NFSOC,w/v thn micxl arg lmy tt DOL NFSOC,thn SH AA,rr CHT frag"

5580.00 5600.00 "LS wh-crm-tan,brn-mbrn ip,crpxl-vfxl,dns-gran,micsuc ip,pred ool-sl oom GRNST, w/scat sl ool PKST,v sl chty-rr trnsl-crl CHT frag,occ anhy,DOL cmt-rr mixcl DOL lams-incl,v rr mic fos,tt-g ool-intxl POR,tr spty-g dull-bri yel FLOR,rr-g brn STN,g fast CUT"

5600.00 5620.00 "LS AA,pred ooc-sl oom GRNST,w/scat sl ool PKST,chty,dol ip-occ DOL rich cmt,fr-g intxl-ool POR,fr-mg bri-tr dull yel FLOR,fr brn STN-rr blk dd o STN,fr-g mod fast-fast stmg CUT,w/scat v rr trnsl-brn CHT frag-v rr brn-mbrn crpxl-micxl lmy DOL & SH CVGS "

DEPTH	LITHOLOGY

5620.00 5630.00 "LS tan-brn,occ crm-dkbrn,crpxl-vfxl,gran-micsuc,pred ooc-oom GRNST,scat sl ool chty PKST,v sl dol-occ DOL rich cmt,POR-FLOR-STN-CUT AA,w/v rr trnsl-brn CHT frag,v rr v lmy tt DOL incl & tr blk carb SH CVGS"

5630.00 5640.00 "LS AA,POR-FLOR-STN-CUT AA,scat CHT frag"

5640.00 5650.00 "LS AA,scat ltbrn-rr trnsl CHT frag AA"

5650.00 5668.00 "LS brn-mbrn,occ wh-crm-tan,crpxl-vfxl,gran-micsuc,pred ooc-oom GRNST,scat sl ool chk-dns PKST,occ DOL rich cmt,anhy ip,fr-g intxl-ool POR,fr-g bri yel FLOR,fr-g brn-mbrn STN,tr blk dd o STN,fr-g mod fast-fast stmg CUT"

5660.00 5680.00 "TR SH-DOL & CHT CVGS AFTER TRIP FR-G SPL"

5668.00 5680.00 "LS tan-brn-mbrn,occ crm-wh,crpxl-vfxl,gran-dns,micsuc ip,pred PKST(occ cvgs) w/scat ooc-oom GRNST,sl anhy,chty ip,occ dol-DOL rich cmt,tr intxl-ool POR,tr-fr bri-dull yel FLOR,tr brn STN,rr blk dd o STN,fr-g mod fast-fast stmg CUT "

5680.00 5690.00 "LS AA,incr ooc-oom GRNST,fr-g intxl-ool POR,fr-g bri-dull yel FLOR,g ltbrn-brn STN,rr-tr blk dd o STN,fr-g mod fast-fast stmg mlky CUT"

5690.00 5700.00 "LS AA,pred ooc-oom GRNST,v rr scat CHT frag,w/POR-FLOR-STN-CUT AA"

5700.00 5730.00 "LS lt-mbrn,rr crm-wh,micxl-vfxl,gran-micsuc,rr crpxl,pred ooc-oom GRNST w/rr scat sl ool PKST,dol ip-occ DOL rich cmt,v rr trnsl-bf CHT frag,sl anhy-rr ANHY xl-incl,fr-g intxl-ool POR,g bri-dull FLOR,g lt-dkbrn STN,tr blk dd o STN,fr-g mod fast-fast CUT"

5730.00 5750.00 "LS AA,POR-FLOR-STN-CUT AA"

5750.00 5770.00 "LS lt-mbrn,rr crm-wh,micxl-vfxl,gran-micsuc,rr crpxl,pred ooc-oom GRNST w/rr scat sl ool PKST,dol ip-occ DOL rich cmt,v rr trnsl-bf CHT frag,sl anhy-rr ANHY xl-incl,fr-g intxl-ool POR,g bri-dull FLOR,g lt-dkbrn STN,tr blk dd o STN,fr-g mod fast-fast CUT"

5770.00 5780.00 "LS AA,v sl incr trnsl CHT frag,v rr ANHY fl POR,POR-FLOR-STN-CUT AA"

5780.00 5810.00 "LS ltbrn-brn,occ m-dkbrn,v rr crm,micxl-vfxl,occ crpxl,gran-micsuc,pred ooc-oom GRNST,rr scat sl ool dns PKST,v rr trnsl-clr CHT frag,occ DOL rich cmt,sl anhy,fr-g ool-tr intxl POR,fr-g bri yel FLOR,g brn-tr blk STN,fr-g mod fast-fast stmg CUT"

5810.00 5830.00 "LS AA,sl incr micsuc GRNST,occ suc ip,n-v rr ANHY fl POR,fr-g intxl-ool POR,fr-g bri-tr dull yel FLOR,fr-g ltbrn-brn STN,tr blk dd o STN,fr-g mod fast-fast stmg CUT"

5830.00 5850.00 "LS AA,POR-FLOR-STN-CUT AA"

5850.00 5860.00 "LS AA,rr ANHY incl-v rr POR FL,POR-FLOR-STN-CUT AA"

5860.00 5880.00 "LS ltbrn-brn,occ m-dkbrn,v rr crm,micxl-vfxl,occ crpxl,gran-micsuc,pred ooc-oom GRNST,rr scat sl ool dns PKST,v rr trnsl CHT frag,occ DOL rich cmt,sl anhy,fr-g ool-tr intxl POR,fr-g bri yel FLOR,g brn-tr blk STN,fr-g mod fast-fast stmg CUT"

DEPTH	LITHOLOGY

5880.00 5900.00 "LS AA,rr ANHY incl-v rr POR FL,v sl incr clr CHT frag,POR-FLOR-STN-CUT AA"

5900.00 5920.00 "LS ltbrn-brn,occ m-dkbrn,v rr crm,micxl-vfxl,occ crpxl,gran-micsuc,pred ooc-oom GRNST,rr scat sl ool dns PKST,n-v rr bf CHT frag,occ DOL rich cmt,sl anhy-v rr ANHY xl,fr-g ool-tr intxl POR,fr-g bri yel FLOR,g brn-tr blk STN,fr-g mod fast-fast stmg CUT"

5920.00 5940.00 "LS ltbrn,m-dkbrn ip,v rr crm,micxl-vfxl,occ crpxl,gran-micsuc,pred ooc-oom GRNST,rr scat sl ool dns PKST,n-v rr bf CHT frag,occ DOL rich cmt,sl anhy-v rr ANHY xl,g ool-fr intxl POR,fr-g bri yel FLOR,g brn STN-tr blk dd o STN,fr-g mod fast-fast stmg CUT"

5940.00 5960.00 "LS ltbrn,decr m-dkbrn,v rr crm,crpxl-vfxl,gran-micsuc,occ suc,pred ooc-oom GRNST,rr scat sl ool dns PKST,n-v rr bf CHT frag,occ DOL rich cmt,sl anhy-v rr ANHY xl-incl,fr-g ool-tr intxl POR,fr-g bri yel FLOR,g brn-tr blk STN,fr-g mod fast-fast stmg CUT"

5960.00 5980.00 "LS AA,POR-FLOR-STN-CUT AA"

5980.00 6000.00 "LS lt-mbrn,occ dkbrn,AA,v rr scat ANHY fl POR,n-v rr scat bf-dk brn CHT frag,POR-FLOR-STN-CUT AA"

6000.00 6030.00 "LS ltbrn-brn,mgybrn ip,v rr crm,crpxl-vfxl,gran-micsuc,occ suc,pred ooc-oom GRNST,rr scat sl ool dns PKST,n-v sl chty,occ DOL rich cmt,sl anhy-v rr ANHY xl-incl,fr-g ool-tr intxl POR,fr-g bri yel FLOR,g ltbrn-brn-tr blk STN,fr-g mod fast-fast stmg CUT"

6030.00 6070.00 "LS AA,rr scat ltbrn-crm-rr wh occ plty ool ip occ chk PKST,POR-FLOR-STN-CUT AA"

6070.00 6100.00 "LS AA,v sl incr ool ltbrn-brn PKST,POR-FLOR-STN-CUT AA"

6100.00 6130.00 "LS ltbrn-brn,rr mbrn-gybrn,v rr crm,crpxl-vfxl,gran-micsuc,occ suc,pred ooc-oom GRNST,rr scat sl ool dns PKST,v sl chty,occ DOL rich cmt,sl anhy-v rr ANHY xl-incl,fr-g ool-tr intxl POR,fr-g bri yel FLOR,g ltbrn-brn-tr blk STN,fr-g mod fast-fast stmg CUT"

6130.00 6170.00 "LS AA,v sl incr ool ltbrn-brn PKST,POR-FLOR-STN-CUT AA"

6170.00 6210.00 "LS ltbrn-brn,rr mbrn-gybrn,v rr crm,crpxl-vfxl,gran-micsuc,occ suc,pred ooc-oom GRNST,rr scat sl ool dns PKST,v sl chty,occ DOL rich cmt,sl anhy-v rr ANHY xl-incl,fr-g ool-tr intxl POR,fr-g bri yel FLOR,g ltbrn-brn-tr blk STN,fr-g mod fast-fast stmg CUT"

6210.00 6250.00 "LS pred ltbrn-brn,occ mbrn-gybrn,AA,POR-FLOR-STN-CUT AA"

6250.00 6280.00 "LS AA,rr scat ltbrn-crm-rr wh occ plty ool ip occ chk PKST,POR-FLOR-STN-CUT AA"

6280.00 6300.00 "LS AA,POR-FLOR-STN-CUT AA"

6300.00 6320.00 "LS ltbrn-brn,rr mbrn-gybrn,v rr crm,crpxl-vfxl,gran-micsuc,occ suc,pred ooc-oom GRNST,rr scat sl ool dns PKST,v sl chty,occ DOL rich cmt,sl anhy-v rr ANHY xl-incl,fr-g ool-tr intxl POR,fr-g bri yel FLOR,g ltbrn-brn-tr blk STN,fr-g mod fast-fast stmg CUT"

6320.00 6340.00 "LS AA,v sl incr ool ltbrn-brn PKST,POR-FLOR-STN-CUT AA"

DEPTH	LITHOLOGY

6340.00 6370.00 "LS ltbrn-brn,occ mbrn-gybrn,wh-crm,crpxl-vfxl,gran-micsuc,occ suc,pred ooc-oom GRNST,rr scat PKST AA,v sl chty,occ DOL rich cmt,sl anhy-v rr ANHY xl-incl,fr-g ool-tr intxl POR,fr-g bri yel FLOR,g ltbrn-brn-tr blk STN,fr-g mod fast-fast stmg CUT"

6370.00 6410.00 "LS lt-mbrn,occ dkbrn,ltbrngy-tan,vfxl-gran,micxl-micsuc,occ suc,ool-oom GRNST,tr intbd-scat dns sl ool PCKST,sl chky-anhy/rrxln ANHY incl,sl dol/tr DOL cmt,g ool-oom-tr inxl POR/rr fl,g even mod bri/scat bri yel FLOR,g ltbrn-brn/occ blk STN,g mod fast/tr fast stmg mlky CUT"

6410.00 6450.00 "LS AA,pred ool-oom GRNST,sl incr scat-intbd dns sl ool PCKST,sl chky/occ v chky-anhy strk,tr xln ANHY incl,tr dol strk-incl/occ DOL rich cmt,g-fr ool-oom-intxl POR,g even mod bri/sl incr scat bri yel FLOR,STN AA,g fast stmg-blooming mlky CUT"

6450.00 6490.00 "LS lt-mbrn,occ dkbrn,ltbrngy-tan,vfxl-gran-crpxl,micxl-micsuc,ool-oom GRNST/incr scat-intbd dns sl ool PCKST,sl chky-anhy/rrxln ANHY incl,sl dol/tr DOL cmt,sl chty,g ool-oom-tr inxl POR/tr fl,g even mod bri/scat bri yel FLOR,g ltbrn-brn/occ blk dd o STN,g mod fast-slow blooming mlky CUT"

6490.00 6510.00 "LS AA,vfxl-gran-micsuc,micxl-suc,crpxl,ool-oom GRNST,rr-tr scat-intbd dns PCKST,sl chky-anhy/tr xln ANHY,sl dol,g ool-oom-intxl POR,g even mod bri-scat bri yel FLOR,g ltbr-brn/scat dkbrn & blk STN,g fast-mod fast stmg mlky CUT"

6510.00 6540.00 "LS lt-mbrn,ltbrngy-tan,occ dkbrn,trnsl,vfxl-gran-micsuc,micxl-crpxl,suc,ool-oom GRNST/tr scat-intbd PCKST AA,chky/tr v chky strk,anhy/tr xln ANHY incl,v sl dol & chty,g ool-oom-tr inxl POR/tr fl,g even mod bri/scat bri yel FLOR,g ltbrn- brn/occ scat dkbrn & tr blk dd o STN,g fast-mod fast stmg mlky CUT"

6540.00 6570.00 "LS AA,sl incr ool ltbrn-brn & ltgy-wh chky plty PKST,POR-FLOR-STN-CUT AA"

6570.00 6600.00 "LS lt-mbrn,occ dkbrn,tan,rr ltgy,vfxl-micsuc-gran,micxl-crpxl,occ suc,ool-oom GRNST,tr scat-intbd dns sl ool-chky plty PCKST,sl anhy/rr xl ANHY frag,v sl dol,g ool-oom-tr intxl POR,g even mod bri-scat bri yel FLOR,g ltbrn-brn/scat dkbrn & blk STN, g mod fast-slow blooming mlky CUT"

6600.00 6630.00 "LS AA,pred ool-oom GRNST/scat-intbd dns-tr chky plty PCKST,sl anhy,v sl chty ip,PRO-FLOR-STN-CUT AA"

6630.00 6670.00 "LS lt-mbrn,tan-ltgybrn,occ dkbrn,ltgy,vfxl-micsuc-gran,micxl-suc-crpxl,pred oom-ool-occ ooc GRNST intbd/dns sl ool-tr chky plty PCKST,sl anhy/rr xl ANHY frag,g-fr ooc-oom/tr intxl POR,tr chky-sl anhy POR fl,g mod bri-scat bri yel FLOR,g lt-m brn/scat dkbrn & blk STN,g mod fast blooming-fast stmg mlky CUT"

6670.00 6700.00 "LS AA,pred GRNST AA/scat-intbd dns-tr chky plty PCKST,sl anhy/rr xln ANHY,g ool-oom-ooc ooc/fr-tr intxl POR,g even mod bri-scat bri yel FLOR,g lt-mbrn/scat dkbrn & blk STN,g mod fast blooming-fast stmg mlky CUT"

6700.00 6740.00 "LS m-ltbrn,tan,occ dkbrn,ltbrngy,vfxl-micsuc-gran,micxl-suc,crpxl,ool-ooc-occ oom GRNST/intbd-scat dns sl ool-rr chky plty PCKST,sl anhy/vrr xl ANHY incl,occ v chky strk,g ooc-oom-intxl POR/tr chky-sl anhy POR fl,FLOR AA,g brn-ltbrn/scat dkbrn & tr blk STN,g mod fast blooming-fast stmg mlky CUT "

6740.00 6760.00 "LS AA,pred ool-ooc-occ oom GRNST/scat dns sl ool PCKST incl-frag,v sl chky-anhy,v rr chky plty PCKST frag,POR-FLOR-STN AA,g mod fast-fast stmg mlky CUT"

DEPTH	LITHOLOGY

6760.00 6800.00 "LS lt-mbrn,tan,occ dkbrn,sl ltbrngy,vfxl-gran,micxl-micsuc-crpxl,pred ooc-ool-occ oom GRNST intbd/dns chky sl ool PCKST,vrr chky plty PCKST frag,sl anhy/rr xl ANHY frag & POR fl,v sl dol,g-fr ooc-oom-intxl POR,g even mod bri-scat bri yel FLOR, g lt-m brn/sl incr dkbrn & blk STN,g fast stmg mlky CUT"

6800.00 6830.00 "LS AA,pred ooc-ool-occ oom GRNST/tr dns sl ool PCKST incl-frag,v sl chky-anhy,v rr chky plty PCKST frag,sl dol,g ooc-ool-tr oom & intxl POR,g even mod bri-scat bri yel FLOR,g lt-mbrn/scat dkbrn & blk STN,g mod fast blooming-fast stmg mlky CUT"

6830.00 6860.00 "LS ltbrn,tan,mbrn,occ dkbrn,ltbrngy,vfxl-gran-micsuc,micxl-suc,crpxl,pred ooc-occ oom GRNST/occ chky-anhy strk,tr intbd dns chky v sl ool PCKST,rr chky plty PCKST frag,sl anhy/tr POR fl,v sl dol,g-fr ooc-oom-intxl POR,FLOR-STN AA,g fast dif/tr mod fast stmg mlky CUT"

6860.00 6890.00 "LS AA,ooc-ool-oom GRNST/tr scat-intbd dns sl ool PCKST,v sl chky-anhy/vrr xl ANHY,,v rr chky plty PCKST frag,sl dol,v sl chty,POR AA/rr POR fl,g even mod bri-scat bri yel FLOR,g lt-mbrn/scat dkbrn & blk STN,g mod fast blooming-fast stmg mlky CUT"

6890.00 6910.00 "LS AA,POR-FLOR-STN-CUT AA"

6910.00 6940.00 "LS lt-mbrn,tan,occ dkbrn,sl ltbrngy,vfxl-gran,micxl-micsuc-crpxl,pred ooc-ool-occ oom GRNST intbd/dns chky sl ool PCKST,vrr chky plty PCKST frag,sl anhy/rr xl ANHY frag & POR fl,v sl dol,POR-FLOR-STN-CUT AA"

6940.00 6960.00 "LS m-ltbrn,occ dkbrn,tr tan & ltgybrn incl-strk,vfxl-micsuc-gran,micxl-crpxl,ooc-oom-sl ool GRNST,scat dns-chky PCKST frag-incl/tr ool incl,sl anhy/tr POR fl,POR AA,FLOR AA,g brn-ltbrn/sl incr dkbrn STN,tr scat blk STN,g mod fast blooming-fast stmg CUT"

6960.00 7000.00 "LS ltbrn/ltgybrn incl-strk,mbrn,tan,occ dkbrn,vfxl-gran,micsuc-micxl,crpxl,pred ooc-ool-oom GRNST,scat-intbd dns PCKST AA,sl anhy/rr xl ANHY frag,g-fr ooc-oom-intxl POR,FLOR AA,g m-ltbrn/scat dkbrn STN,g mod fast-fast stmg mlky CUT"

7000.00 7020.00 "LS AA,pred ooc-ool-sl oom GRNST,tr scat-intbd dns sl ool PCKST,sl chky-anhy/tr POR fl,v sl dol ip,g ooc-oom-intxl POR,g even mod bri/incr scat bri yel FLOR,g lt-mbrn-scat dkbrn & tr blk STN,g fast stmg-blooming mlky CUT"

7020.00 7050.00 "LS lt-mbrn,tan,occ dkbrn,tr ltgybrn strk-incl,vfxl-micxl-gran,micsuc,crpxl,ooc-sl oom-ool GRNST,sl incr scat-intbd dns PCKST/tr ool incl,sl chky/rr plty prtgs,v sl anhy/vrr xl ANHY-POR fl,g-fr ooc-oom/fr intxl POR,g even mod bri-bri yel FLOR,g lt-mbrn/scat dkbrn STN,tr scat blk STN,g blooming-fast stmg mlky CUT"

FORMATION TOPS

OPERATOR: MOBIL
WELL NAME: RATHERFORD UNIT #20-44 SE 1-A HORIZONTAL LATERAL LEG #2

FORMATION NAME		SAMPLES MEASURED DEPTH	SAMPLES TRUE VERTICAL DEPTH	DATUM KB:4832'
LOWER ISMAY		5528'	5524'	-692'
GOTHIC SHALE		5557'	5547'	-715'
DESERT CREEK		5569'	5554'	-722'
DC 1-A ZONE		5575'	5559'	-727'

GEOLOGICAL SUMMARY

AND

ZONES OF INTEREST

The Mobil Exploration and Production U.S. Inc., Ratherford Unit #20-44 Southeast Horizontal Lateral Leg 2 was a re-entry of the Mobil Ratherford Unit #20-44 located in Section 20, T41S, R24E. The southwest Lateral Leg #2 was begun on October 31, 1997', with lateral leg #1 being drilled in June of 1995. The curve section was completed on November 1, 1997 at a measured depth of 5669', 5591' true vertical depth, 32 feet into the 1-A porosity and the lateral section was begun in the 1-A porosity zone. The lateral reached a measured depth of 7050', true vertical depth of 5603', with a horizontal displacement of 1524.2' and true vertical plane of 126.4 degrees, on November 3, 1997 in the upper Desert Creek 1-A zone. There were two minor problems encountered while drilling this lateral. Both were MWD tool failures, the first occurred at a measured depth of 5491', and at 7050', at which time the lateral was terminated. Up penetrating the 1-A porosity zone while drilling the curve section, the well began flowing oil and gas with minor amounts of water. The well flowed at a rate of approximately 10 barrels of fluid per hour, with up to 1000 psi of pressure on the choke when the well was shut in at total depth. This lateral used primarily production and fresh water with polymer sweeps as the drilling fluid, and as the lateral continued, up to a 20% oil and 80% water emulation. The background gases noted on the accompanying mud log were rather erratic due to the flow fluctuating through the lateral section. The samples had good oil shows through out the 1-A zone drilled.

The primary objective of the Ratherford Unit #20-44 Leg 2 horizontal lateral was the effective porosity, staining and reservoir properties in the 1-A zone of the Desert Creek Member of the Upper Paradox Formation. The very basal portion of the Upper Ismay, the Lower Ismay, the Gothic Shale and the transition zone at the top of the Desert Creek were penetrated while drilling the curve section. The curve was landed feet into the 1-A porosity horizon. Kick off point for this lateral was at a measured depth of 5463', 5462.7' true vertical depth, near the base of the Upper Ismay member of the Paradox Formation.

The Upper Ismay seen in the curve section of this well was predominately light gray brown to tan to brown, occasionally white to cream, cryptocrystalline to microcrystalline, with very rare scattered very fine crystalline streaks, chalky to clean and slightly argillaceous to occasionally silty limestone with scattered anhydrite crystals and occasional fracture filling. Through out the Upper Ismay were thin interbedded brown, microcrystalline, limy, argillaceous to clean dolomites. Dark brown to smoky gray chert fragments and thin interbeds of dark gray to black shale were also noted in Upper Ismay. No visible staining or gas increases and only mineral fluorescence were noted in the scattered very thin porosity streaks. The Hovenweep marker between the Upper Ismay and Lower Ismay was very poorly developed in this lateral.

The top of the Lower Ismay was picked at 5528' measured depth, 5424' true vertical depth, and was based primarily on the slight change in lithology as well as comparison to the well log for the original well bore. The Lower Ismay was predominately limestone, gray brown to brown to cream, micro to cryptocrystalline, dense to slightly chalky, slightly fossiliferous and slightly silty. Scattered through out the Lower Isamy were brown to translucent chert and rare black carbonaceous shale partings. No shows were noted in these limestones. In the limestones of the Lower Ismay, cream to light gray, slightly sandy, very limy siltstones were noted as very thin interbeds and laminations. These

siltstones had a very limestone rich cement and graded to a very silty to very slightly sandy limestone but displayed no shows. The basal portion of the Lower Ismay from 5550' to the top of the Gothic Shale was a interbedded light to medium gray brown to medium gray, dense, slightly anhydritic, dolomitic limestone with interbedded and grading to dark brown to gray brown, cryptocrystalline, very argillaceous to clean, dense dolomite with no sample shows.

The top of the Gothic Shale was encountered at 5557' measured depth, 5547' true vertical depth and was predominantly gray brown to black, silty, carbonaceous, soft to moderately firm, calcareous to slightly dolomitic and slightly micaceous. Scattered within the Gothic were very thin, cryptocrystalline to microcrystalline, earthy, limestone and dolomite partings and inclusions, with very rare scattered anhydrite crystals. The top of the Gothic was a fairly gradational contact with no visible decrease or increase in penetration rate noted. The base of the Gothic was marked by an abrupt decrease in penetration rate as well as a sharp lithology change. The top of the Gothic was marked by a slight increase in shale in the samples

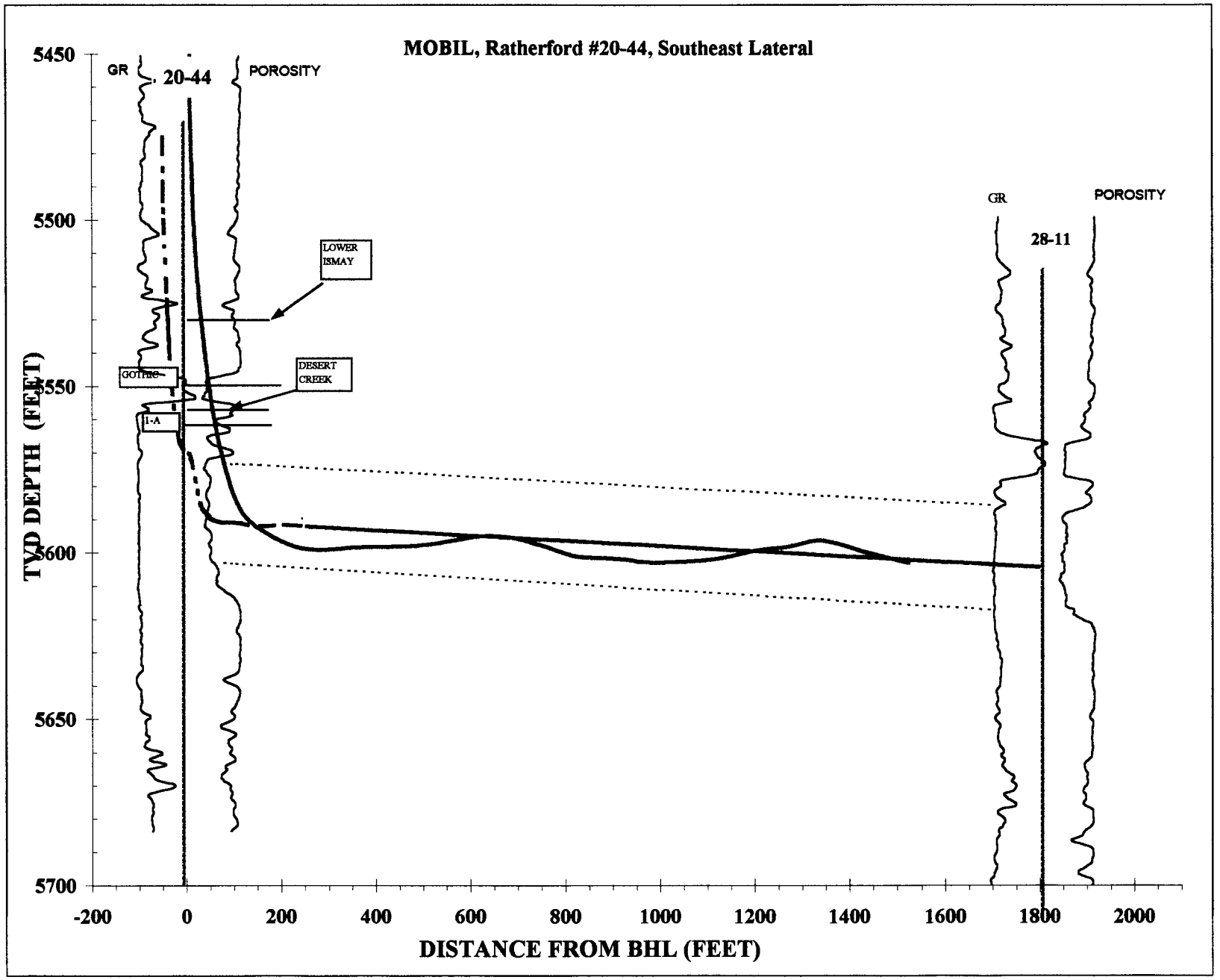
The top of the Desert Creek is commonly picked at the Gothic Shale to transition zone facies change, which in this lateral occurred at a measured depth of 5569' and a true vertical depth of 5554' and was marked by a significant decrease in penetration rate and marked increase in limestones and dolomites in the samples. The lithology of the transition zone in this well was primarily limestone, light gray to cream to tan, mottled, cryptocrystalline to microcrystalline, platy, argillaceous to very slightly silty in part, slightly anhydritic with occasional carbonaceous shale partings. Also thin interbedded light brown to brown, cryptocrystalline to microcrystalline, argillaceous, very limy dolomites and rare scattered were seen. Only very minor intercrystalline porosity was noted, with only very weak mineral fluorescence and a significant gas increase noted at the base of the transition zone, just above the 1-A porosity zone.

The top of the Desert Creek 1-A zone was picked at 5575' measured depth, 5559' true vertical depth and was based on sample identification as well as the significant increase in the penetration rate. The top of the 1-A zone was approximately 1' low to the top on the porosity log for this well. The porosity of the 1-A zone was in an oolicastic to oomoldic limestone grainstone, which was tan to brown to medium brown, very rarely cream to white, very fine to cryptocrystalline, with a granular to microsucrosic texture, rare scattered translucent to brown chert fragments, rare anhydrite crystals and inclusions, with a dolomite rich cement and had a well developed oomoldic to oolicastic to intercrystalline porosity development. Dark brown to brown stain, with abundant black bitchimum (dead oil staining) staining was noted in the samples along with a good yellow gold fluorescence and a moderately fast to fast streaming to milky cut was noted through out most of the length of the lateral. As the lateral was continued, the amounts of bitchimum (dead oil staining) appeared to decrease slightly. Scattered with in the very good, porous oolitic grainstones were thin, tight, dense, slightly oolictic limestone packstones, white to cream with no to visible porosity development and had no visible sample show.

The curve section was completed at a measured depth of 5669', 5591' true vertical depth, and a vertical section (horizontal displacement) of 1443', in the oolicastic to oolmoldic limestone grainstone porosity, approximately 1' below the proposed target line, with an 86 degree angle. The well bore was slowly turned toward a 90 degree angle and then turned upward to acquire the proposed target line. The lateral section was drilled through out its length in the porosity zone of the 1-A. The lithology of the 1-A porosity zone through out its length in the lateral remained fairly consistent with only very minor variations in porosity type being noted. The lithology of the 1-A was a light to medium brown, occasionally dark brown, microcrystalline to very finely crystalline, microsucrosic, oolicastic to oomoldic limestone grainstone, with very rare scattered anhydrite crystals to inclusions, slightly dolomitic, with a dolomite rich cement, and very thin, scattered cream to tan, cryptocrystalline, occasionally oolitic to very slightly fossiliferous limestone packstone inclusions to laminations.

The 1-A porosity zone had good visible porosity and a good sample show through its length. Of note was that the well made approximately 1000 barrels of oil while drilling the lateral, beginning almost as soon as the top of the 1-A zone was penetrated. After landing the curve, the lateral section of the 1-A, the well flowed oil, gas and a minor amount of water, at a rate of approximately 10 barrels per hour. At a measure depth of 5590', 5568' true vertical depth, with a horizontal displacement of 70', oil was noticed forming on the pits. The background gas in the lateral, as was noticed in the curve, was rather erratic, with the background gases reflecting the erratic flow. When the rate of flow increased the background gases decreased, and conversely when the flow slowed the gases increased. Through out the length of the lateral drilled in the 1-A, the oolicastic to oolimoldic limestone grainstones were consistent with the top and base of the 1-A zone not encountered while drilling the lateral. The lateral was terminated, at a measured depth of 7050', 5603.2' true vertical depth and a horizontal displacement of 1524.2' on November 3, 1997.

In tracking the well bore through the 1-A porosity bench, the intercrystalline to oolicastic to oolmoldic and minor algal porosity was very good with only very minor changes in rock classification, from predominately intercrystalline and oolitic porosities in the limestone grainstones to very rare, scattered tight limestone packstones in thin laminations and inclusions with in the 1-A porosity zone. Sample shows were predominated good and stayed consistent throughout the length of the lateral, except on rare occasions when the water flow increased significantly. The background gases began low in the curve section and increased rapidly upon penetrating the 1-A zone prior to landing the curve, and began high in the lateral section, and remained high through out. The gas was very erratic through out the lateral. The effective or best porosity was associated with the oolicastic and oolmoldic to very minor algal limestone grainstone facies, which had fair to good intercrystalline to oolitic porosities. Minor anhydrite plugging was noted throughout. The well produced significant amounts of oil and gas with minor amounts of water while drilling the 1-A zone.


MOBIL, Ratherford #20-44, Southeast Lateral
GR
20-44
POROSITY
GR
28-11
POROSITY
LOWER ISMAY
DESERT CREEK
GOTHIC
1-A
TVD DEPTH (FEET)
5450
5500
5550
5600
5650
5700
-200
0
200
400
600
800
1000
1200
1400
1600
1800
2000
DISTANCE FROM BHL (FEET)

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: MOBIL E & P

Well Name: RATHERFORD UNIT 20-44

Api No. 43-037-30915

Section: 20 Township: 41S Range: 24E County: SAN JUAN

Drilling Contractor: BIG "A"

Rig # 25

SPUDDED:

Date: 10/29/97

Time:

How: ROTARY

Drilling will commence:

Reported by: BENNY BRIGGS

Telephone NO.:

Date: 10/29/97 Signed: JLT

Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO TRIBAL

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other X SIDETRACK

7. UNIT AGREEMENT NAME: RATHERFORD UNIT

8. FARM OR LEASE NAME, WELL NO.: RATHERFORD 20-44

2. NAME OF OPERATOR: MOBIL PRODUCING TX & NM INC.*
*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

9. API WELL NO.: 43-037-30915

3. ADDRESS AND TELEPHONE NO.: P.O. Box 633, Midland TX 79702 (915) 688-2585

10. FIELD AND POOL, OR WILDCAT: GREATER ANETH

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 620' FSL & 760' FEL
At top prod. interval reported below: BHL: LAT 1 869' FNL & 833' FWL/SURF LOC/6838' TD
At total depth: BHL: LAT 2 911' S & 1222' E/SURF SPO

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC. 20, T41S, R24E

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: SAN JUAN | 13. STATE: UT

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-26-97	11-07-97	01-08-98	4832' RKB	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
			→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*: DSCR

25. WAS DIRECTIONAL SURVEY MADE: YES

26. TYPE ELECTRIC AND OTHER LOGS RUN: NO

27. WAS WELL CORED: NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8", K-55	54.5#	126'	18"	SURFACE 150 SXS	
9 5/8", K-55	40#	1584'	12 1/4"	1" PIPE 600 SXS	
7" K-55	23"	5706'	8 3/4"	CIRC 790 SXS	
ORIGINAL	CASING	UNDISTURBED			

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5381'	

RECEIVED
MAR 24 1998
DIV. OF OIL, GAS & MINING

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NA	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	WELL STATUS (Producing or shut-in)
1-9-98	SUB-PUMP	PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO
1-9-98	24			213	129	313	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS: DIRECTIONAL SURVEY

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Lee Mosley for TITLE SHIRLEY HOUCHINS/ENV & REG TECH DATE 3-19-98

*(See Instructions and Spaces for Additional Data on Reverse Side)

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 jurisdicton.

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-603-353

6. If Indian, Allottee or Tribe Name: NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation: RATHERFORD UNIT

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: RATHERFORD 20-44

2. Name of Operator: MOBIL PRODUCING TX & NM INC.*
*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

9. API Well No.: 43-037-30915

3. Address and Telephone No.: P.O. Box 633, Midland TX 79702 (915) 688-2585

10. Field and Pool, or exploratory Area: GREATER ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
620' FSL & 760' FEL
SEC. 20, T41S, R24E
BHL: LATERAL #1, 869' FNL & 833' FWL/SURF. LOCATION (TD 6838')

11. County or Parish, State: SAN JUAN UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other SIDETRACK	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BHL: LATERAL #2 911' SOUTH & 1222' EAST F/SURFACE SPOT (ZONE 1a).
(5454-7050' TMD)(5454-5603' TVD)

SEE ATTACHED 10-26-97 / 01-08-98

RECEIVED
MAR 24 1998
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Sue Moseley for Title SHIRLEY HOUCHINS/ENV & REG TECH Date 3-18-98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

* See Instruction on Reverse Side

03/27/98
JRB

DRILLED FOOTAGE CALCULATION FOR DIRECTIONAL AND HORIZONTAL WELLS

Well Name: Ratherford Unit 20-44
Surface Location: 620' FSL, 760' FEL, Sec. 20, T. 41S, R. 24E

First leg description: Leg #2

KOP MD:	5454.00
KOP TVD:	5453.67
EOL MD:	7050.00
EOL TVD:	5603.16
Footage drilled:	1596.00

Second leg description:

KOP MD:	
KOP TVD:	
EOL MD:	
EOL TVD:	
Footage drilled:	

Third leg description:

KOP MD:	
KOP TVD:	
EOL MD:	
EOL TVD:	
Footage drilled:	

Fourth leg description:

KOP MD:	
KOP TVD:	
EOL MD:	
EOL TVD:	
Footage drilled:	

Fifth leg description:

KOP MD:	
KOP TVD:	
EOL MD:	
EOL TVD:	
Footage drilled:	

Total Footage Drilled (MD):	***1596.00***
Deepest point (TVD):	***5602.90***

ATTACHMENT - FORM 3160-5
RATHERFORD UNIT - WELL #20-44
14-20-603-353
NAVAJO TRIBAL
SAN JUAN, UTAH

10-26-97	CALL NAVAJO EPA @ 8:30 ON 10-23-97, MELVIN CAPITAN INFORMED OF INTENT TO DIG SURFACE PIT AND LINE. OK. CALL TO BLM @ 9:08 ON 10-23-97, MARK KELLY INFORMED OF INTENT TO PREP WELL FOR DRLG. RIG. OK. WELL ON PUMP. SDP, TBG & CSG PRESSURE @ 7:30 AM WAS 0 PSI, MIRU NAVAJO WEST RIG #15. RIG DOWN PUMP JACK HEAD, UNSEAT PUMP, POH, LAY DOWN RODS & PUMP, RIG DOWN PUMP WELL HEAD, NUP, RELEASE TBG ANCHOR. POH W 2 7/8" TBG, LAY DN MUD ANCHOR, SIFN.
10-27-97	SICP @ 7:30 WAS 150 PSI, RIG UP BASIN WIRE LINE UT, RIH W/OD GUAGE RING TO 5500'. POH, RIH W/CCL & GAMMA RAY LOG, LOG F/5552-4927'. POH. RIH W/BRIDGE PLUG AND SET @ 5480'. POH RIG DN MO. RIH W/TBG & POH AND LAY DOWN.
10-28-97	SIP @ 7:30 WAS 0 PSI., FINISH OUT OF HOLE W 2 7/8" TBG LD. NIPPLE UP 3000# TBG HD, TEST TO 1400 PSI. 30 MIN. OK., RDMO NAVAJO WEST RIG #15. FINAL PREP REPORT, TURN WELL OVER TO DRLG. TOOLS.
10-29-97	WAIT ON DAYLIGHT, MIRU NAVAJO WEST #25., NOTIFIED JIM THOMPSON W/STATE OF UTAH ABOUT STARTING HORIZONTAL WELL @ 2:30, 10-29-97.
10-30-97	FIN. RIGGING UP., NU, BOP, PRESSURE TESTED BOP'S, CHOKE TO 2000# HIGH & 250# LOW. FINAL REPORT FOR RE-ENTRY.
10-30-97	RIH W/WHIPSTOCK, SET TOP @ 5454', CUT WINDOW F/5454-5456'. CIRC CLEAN.
10-31-97	POH W/STARTER MILL, RIH W INSERT WINDOW & WATERMELLON MILLS ON SAME BHA., CUT WINDOW F/5454-5464' & FORMATION TO 5465', PUMPED SWEEP & CIRC HOLE CLEAN. POH W/MILLS, RIH W/CURVE ASSY.
11-01-97	RIH W/CURVE BHA ON 2 7/8" AOHDP TO 5465'., RIH W/GYRO, DRILL CURVE TO 5490', CHANGE MWD PROBE, RIH, DRILLED CURVE F/5490-5632'.
11-02-97	SLIDE DRILL CURVE 2A1 F/5632-5668', LANDED CURVE @ 90 DEG. 135 AZ, TVD 5591, VS 133'. PUMPED SWEEP & CIRC HOLE CLEAN. POOH & LD CURVE ASSY, WELL STARTED FLOWING., CIRC OUT GAS & OIL, FIN RIH TO 5668', SLIDE & ROTATE DRILL LATERAL 2A1 F/5668-6323',
11-03-97	SLIDE & ROTAGE DRILL LATERAL #2A1 F/6323-7050'. STOP WORKING TD WELL @ 7050' TMD, 88 DEG ANGLE, 126 AZ, 5603' TVD, 1524' VS, WELL FLOWING, POOH W/AOHDP TO TOP OF WINDOW 5450'. WO/KILL MUD.
11-04-97	DISPLACE HOLE W/HEAVIER MUD. POOH/LAY DN SPERRY SUN TOOLS, RIH W/ARROW PKR, SET @ 5365'. DISPLACE MUD W/10# BRINE. POOH LD DRILL STRING. (PH-6, AOHDP, DC'S)
11-05-97	FIN LD DC'S. ND UPPER BOP STACK, PU RIH W/ON/OFF TOOL ON 2 7/8" TBG, LATCH ON/OFF INTO PKR. SPACE OUT. ND, BOP, PULL 10-K TENSION ON PKR. FLANGE WELL HEAD. START RIGGING DOWN FOR MOVE TO NEXT LOCATION.
11-06-97	CONTINUE TO RIG DOWN ROTARY RIG.
11-07-97	CLEAN LOCATION. PULL BLANKING PLUG F/PROFILE ON PKR. RELEASE TO PRODUCTION DEPARTMENT. FINAL REPORT PENDING COMPLETION.

ATTACHMENT - FORM 3160-5
RATHERFORD UNIT - WELL #20-44
14-20-603-353
NAVAJO TRIBAL
SAN JUAN, UTAH
PAGE 2

COMPLETION

12-31-97	WHP=325, KILL WELL W/32 BBLS B/W-TBG. LOAD ANN W/60 BBLS, UNSET PKR,TOH W/TBG WELL CAME BACK IN TBG TO 1300#, CIRC HOLE W/O MUD. TIE WELL BACK TO F/L LEFT FLOWING, SD UNIT FOR NEW YEAR.
01-02-98	TBG=80, CSG=0 PUMP 15 BBLS BW, THEN 20 BBLS 14# TO KILL TBG. FIN. TOH W/PKR STRAPPING TBG, LATCH ON TO WHIPSTOCK, JAR MAX, CAME LOOSE OR SHEARED, TOH W/TBG SI & SDFN.
01-03-98	TBG & CSG DEAD FIN. TOH W/TOP PART OF W/S TIH W O/S COULD NOT LATCH ON W/S WAIT ON TOOLS THEN RUN KILL STRING SDFN.
01-04-98	WHP=0, PICK U W/O SHOE & EXT, TIH WASH & MILL 2' OVER FISHING NECK OF W/S CIRC CLEAN TOH, LD SHOE, P/U O/S, TIH W/TBG 85' ABOVE WINDOW, SI & SDFN.
01-05-98	FISHING, NO JARRING, TOH CHECKING TO ENSURE FISH ON L/D FISH TIH W/KILL STRING, SI & SDFN.
01-06-98	WHP=70#, BLED TO SLIGHT BLOW, CIRC. 30 BW, WELL DEAD, TOH W K/S TIH W O/S, LATCH ON RBP, RELEASE TOH W/TBG, DEAD ANN FLOWING 100#, RIG UP CHOKE ON ANN. TO F/L PSI TO 360#, NOTIFY PRODUCTION. F/L LEFT DOWN 32/64TH CHOKE LEFT ON.
01-07-98	CSG FLOWING=280#, TBG=0, RIG UP TANK, RIG UP W/L TIH & SHOOT 2 CIRC HOLES @ 4179', KILL WELL. L/D W/S, SI & SDFN.
01-08-98	FINISH TIH W/SUB PUMP, NDBOP, NUWH, TURNED WELL OVER TO PRODUCTION FOR FLOW LINE HOOK-UP., 5380.97'.

sperry-sun

DRILLING SERVICES

A DRESSER INDUSTRIES, INC. COMPANY

Mobil
San Juan County
Utah
Ratherford Unit
R.U. 20-44 Leg #2 - MWD Survey

SURVEY REPORT

1 December, 1997

Survey Ref: svy2192

Sperry-Sun Drilling Services

Survey Report for R.U. 20-44 Leg #2

Mobil
San Juan County

Utah
Ratherford Unit

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
Gyro							
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
100.00	0.050	348.360	100.00	0.04 N	0.01 W	-0.03	0.050
200.00	0.050	329.860	200.00	0.12 N	0.04 W	-0.11	0.016
300.00	0.100	327.370	300.00	0.23 N	0.11 W	-0.23	0.050
400.00	0.210	13.830	400.00	0.49 N	0.11 W	-0.38	0.159
500.00	0.260	33.460	500.00	0.85 N	0.06 E	-0.47	0.094
600.00	0.250	49.590	600.00	1.18 N	0.35 E	-0.43	0.072
700.00	0.240	352.350	700.00	1.53 N	0.49 E	-0.53	0.235
800.00	0.120	44.200	800.00	1.82 N	0.53 E	-0.67	0.191
900.00	0.380	12.140	900.00	2.21 N	0.67 E	-0.79	0.285
1000.00	0.220	66.880	999.99	2.61 N	0.92 E	-0.84	0.310
1100.00	0.420	27.320	1099.99	3.02 N	1.27 E	-0.80	0.287
1200.00	0.270	99.710	1199.99	3.30 N	1.67 E	-0.66	0.425
1300.00	0.450	77.850	1299.99	3.34 N	2.28 E	-0.19	0.223
1400.00	0.190	73.430	1399.99	3.47 N	2.82 E	0.17	0.261
1500.00	0.570	24.750	1499.99	3.97 N	3.19 E	0.16	0.467
1600.00	0.520	352.740	1599.98	4.87 N	3.34 E	-0.26	0.304
1700.00	0.530	18.360	1699.98	5.76 N	3.43 E	-0.73	0.233
1800.00	0.380	4.600	1799.97	6.53 N	3.60 E	-1.05	0.185
1900.00	0.540	19.960	1899.97	7.31 N	3.79 E	-1.37	0.201
2000.00	0.340	9.540	1999.97	8.04 N	4.00 E	-1.64	0.215
2100.00	0.420	347.480	2099.97	8.69 N	3.97 E	-2.06	0.165
2200.00	0.470	337.150	2199.96	9.43 N	3.73 E	-2.69	0.094
2300.00	0.300	332.490	2299.96	10.04 N	3.45 E	-3.28	0.173
2400.00	0.560	37.950	2399.96	10.66 N	3.63 E	-3.51	0.514
2500.00	0.740	78.540	2499.95	11.17 N	4.56 E	-3.08	0.481
2600.00	0.800	63.170	2599.94	11.61 N	5.82 E	-2.34	0.214
2700.00	0.830	76.270	2699.93	12.10 N	7.15 E	-1.57	0.188
2800.00	1.290	76.580	2799.92	12.53 N	8.95 E	-0.40	0.460
2900.00	1.510	87.750	2899.89	12.85 N	11.36 E	1.34	0.350
3000.00	1.540	76.590	2999.85	13.21 N	13.98 E	3.22	0.298
3100.00	1.390	83.200	3099.82	13.67 N	16.49 E	4.95	0.226
3200.00	1.150	82.680	3199.79	13.94 N	18.69 E	6.54	0.240
3300.00	1.040	97.610	3299.78	13.94 N	20.59 E	8.05	0.305
3400.00	0.760	96.140	3399.76	13.75 N	22.15 E	9.41	0.281
3500.00	0.710	112.160	3499.75	13.45 N	23.38 E	10.58	0.211
3600.00	0.470	91.960	3599.75	13.20 N	24.36 E	11.51	0.314
3700.00	0.360	159.450	3699.75	12.89 N	24.88 E	12.11	0.470
3800.00	0.330	133.940	3799.75	12.40 N	25.20 E	12.66	0.155
3900.00	0.340	192.840	3899.74	11.91 N	25.34 E	13.07	0.330

Continued...

Sperry-Sun Drilling Services

Survey Report for R.U. 20-44 Leg #2

Mobil
San Juan County

Utah
Ratherford Unit

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4000.00	0.480	196.640	3999.74	11.22 N	25.16 E	13.34	0.143
4100.00	0.450	236.820	4099.74	10.60 N	24.71 E	13.35	0.321
4200.00	0.380	260.030	4199.74	10.33 N	24.05 E	12.99	0.180
4300.00	0.490	223.140	4299.73	9.96 N	23.43 E	12.72	0.294
4400.00	0.500	226.380	4399.73	9.35 N	22.83 E	12.60	0.030
4500.00	0.400	258.750	4499.73	8.98 N	22.17 E	12.30	0.269
4600.00	0.470	243.160	4599.72	8.73 N	21.46 E	11.89	0.137
4700.00	0.560	217.500	4699.72	8.15 N	20.80 E	11.70	0.245
4800.00	0.450	199.540	4799.72	7.39 N	20.37 E	11.81	0.191
4900.00	0.300	177.220	4899.71	6.76 N	20.25 E	12.10	0.207
5000.00	0.640	233.860	4999.71	6.17 N	19.81 E	12.11	0.537
5100.00	0.580	247.500	5099.71	5.65 N	18.89 E	11.69	0.157
5200.00	0.560	253.990	5199.70	5.32 N	17.95 E	11.14	0.068
5300.00	0.700	257.940	5299.69	5.06 N	16.89 E	10.44	0.147
5400.00	1.210	247.900	5399.68	4.53 N	15.31 E	9.50	0.535
MWD Survey							
5454.00	1.160	255.540	5453.67	4.18 N	14.25 E	8.87	0.307
5463.00	3.200	127.500	5462.66	4.01 N	14.36 E	9.06	44.665
5473.00	6.900	127.630	5472.62	3.47 N	15.06 E	9.94	37.000
5483.00	11.400	127.670	5482.49	2.50 N	16.32 E	11.53	45.000
5493.00	16.600	127.690	5492.19	1.02 N	18.23 E	13.95	52.000
5503.00	21.600	127.700	5501.64	0.98 S	20.82 E	17.22	50.000
5513.00	26.200	130.100	5510.78	3.53 S	23.97 E	21.27	47.008
5523.00	29.800	128.500	5519.61	6.50 S	27.60 E	25.96	36.772
5533.00	33.600	129.200	5528.12	9.80 S	31.69 E	31.21	38.177
5543.00	37.100	124.100	5536.27	13.24 S	36.34 E	36.99	45.754
5553.00	41.600	122.800	5544.00	16.73 S	41.63 E	43.31	45.747
5563.00	45.600	123.000	5551.24	20.47 S	47.42 E	50.19	40.024
5573.00	50.100	123.700	5557.95	24.55 S	53.61 E	57.59	45.298
5583.00	55.000	124.100	5564.03	28.98 S	60.19 E	65.51	49.103
5593.00	59.300	126.000	5569.45	33.80 S	67.07 E	73.91	45.864
5603.00	62.800	129.000	5574.30	39.13 S	74.01 E	82.65	43.746
5613.00	66.100	132.500	5578.61	45.02 S	80.84 E	91.65	45.668
5623.00	68.600	135.900	5582.46	51.45 S	87.45 E	100.81	40.116
5633.00	72.900	135.900	5585.76	58.23 S	94.02 E	110.13	43.000
5643.00	77.900	135.000	5588.28	65.13 S	100.80 E	119.70	50.752
5668.00	85.800	132.500	5591.82	82.22 S	118.67 E	144.25	33.112
5688.56	84.300	130.300	5593.59	95.77 S	134.03 E	164.68	12.918
5720.41	86.200	128.400	5596.23	115.89 S	158.57 E	196.39	8.422
5752.19	87.400	124.900	5598.00	134.83 S	184.03 E	228.11	11.626
5784.04	89.100	122.600	5598.98	152.51 S	210.50 E	259.89	8.977

Continued...

Sperry-Sun Drilling Services

Survey Report for R.U. 20-44 Leg #2

Mobil
San Juan County

Utah
Ratherford Unit

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
5815.90	90.300	121.900	5599.14	169.51 S	237.44 E	291.64	4.360
5847.74	91.100	122.800	5598.76	186.55 S	264.34 E	323.37	3.782
5879.45	90.500	126.500	5598.31	204.57 S	290.41 E	355.05	11.819
5911.17	89.700	129.500	5598.26	224.10 S	315.41 E	386.76	9.788
5942.26	90.300	129.700	5598.26	243.91 S	339.36 E	417.82	2.034
5974.12	90.200	129.100	5598.12	264.14 S	363.98 E	449.65	1.909
6005.91	90.500	128.400	5597.92	284.03 S	388.77 E	481.42	2.396
6037.76	91.000	127.500	5597.51	303.62 S	413.89 E	513.27	3.232
6069.48	91.600	127.700	5596.79	322.97 S	439.01 E	544.98	1.994
6100.45	91.200	128.200	5596.03	342.01 S	463.42 E	575.93	2.067
6132.26	91.600	128.100	5595.25	361.65 S	488.43 E	607.73	1.296
6164.06	89.600	129.100	5594.92	381.49 S	513.28 E	639.51	7.032
6195.01	89.600	129.300	5595.14	401.05 S	537.26 E	670.44	0.646
6226.75	87.600	130.000	5595.91	421.30 S	561.69 E	702.13	6.676
6258.50	87.700	129.700	5597.21	441.62 S	586.05 E	733.82	0.995
6289.50	87.300	126.300	5598.57	460.69 S	610.45 E	764.78	11.033
6321.25	87.200	125.300	5600.09	479.24 S	636.17 E	796.48	3.162
6353.01	88.900	124.000	5601.17	497.28 S	662.28 E	828.20	6.737
6384.91	89.800	123.900	5601.53	515.10 S	688.74 E	860.05	2.839
6416.68	89.800	124.000	5601.64	532.84 S	715.10 E	891.77	0.315
6447.51	88.900	123.700	5601.99	550.01 S	740.70 E	922.55	3.077
6479.35	88.700	123.300	5602.66	567.58 S	767.24 E	954.33	1.404
6510.52	90.400	124.400	5602.90	584.94 S	793.13 E	985.45	6.496
6542.32	90.100	124.200	5602.77	602.86 S	819.40 E	1017.21	1.134
6574.03	90.300	123.900	5602.66	620.62 S	845.67 E	1048.88	1.137
6605.85	90.500	124.400	5602.43	638.48 S	872.00 E	1080.66	1.692
6637.61	91.200	124.000	5601.96	656.33 S	898.27 E	1112.38	2.538
6668.66	91.400	124.400	5601.26	673.78 S	923.94 E	1143.38	1.440
6700.39	92.200	124.900	5600.26	691.81 S	950.03 E	1175.07	2.973
6732.06	91.700	127.500	5599.18	710.50 S	975.57 E	1206.72	8.355
6763.88	90.400	129.800	5598.60	730.37 S	1000.42 E	1238.51	8.302
6795.69	91.200	130.400	5598.16	750.86 S	1024.74 E	1270.27	3.144
6826.75	92.500	130.400	5597.15	770.98 S	1048.39 E	1301.26	4.185
6858.50	90.500	131.200	5596.32	791.71 S	1072.41 E	1332.93	6.784
6889.28	87.500	129.700	5596.86	811.68 S	1095.83 E	1363.65	10.896
6921.04	87.500	129.800	5598.24	831.97 S	1120.22 E	1395.34	0.315
6952.75	87.600	128.800	5599.60	852.03 S	1144.74 E	1426.99	3.166
7050.00	88.200	126.400	5603.16	911.32 S	1221.73 E	1524.17	2.542

Continued...

Sperry-Sun Drilling Services

Survey Report for R.U. 20-44 Leg #2

Mobil **Utah**
San Juan County **Ratherford Unit**

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100ft.
Vertical Section is from Well and calculated along an Azimuth of 127.000° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 7050.00ft.,
The Bottom Hole Displacement is 1524.18ft., in the Direction of 126.720° (True).

Comments

Measured Depth (ft)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Comment
5400.00	5399.68	4.53 N	15.31 E	Gyro Tie-on
7050.00	5603.16	911.32 S	1221.73 E	Bit Projection

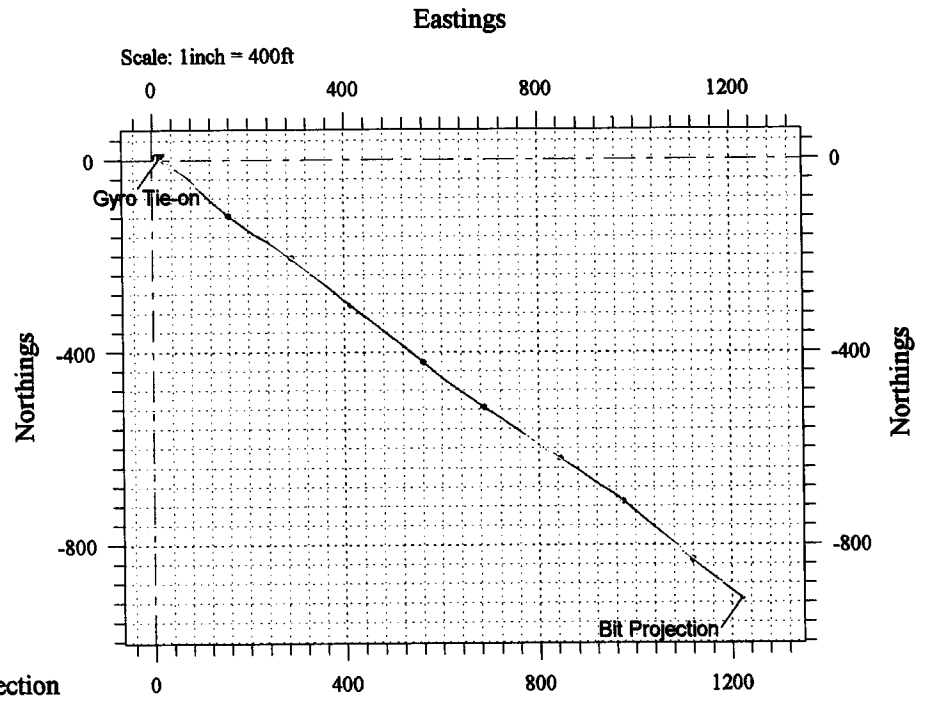
sperry-sun DRILLING SERVICES

Well: R.U. 20-44 Leg #2

DrillQuest

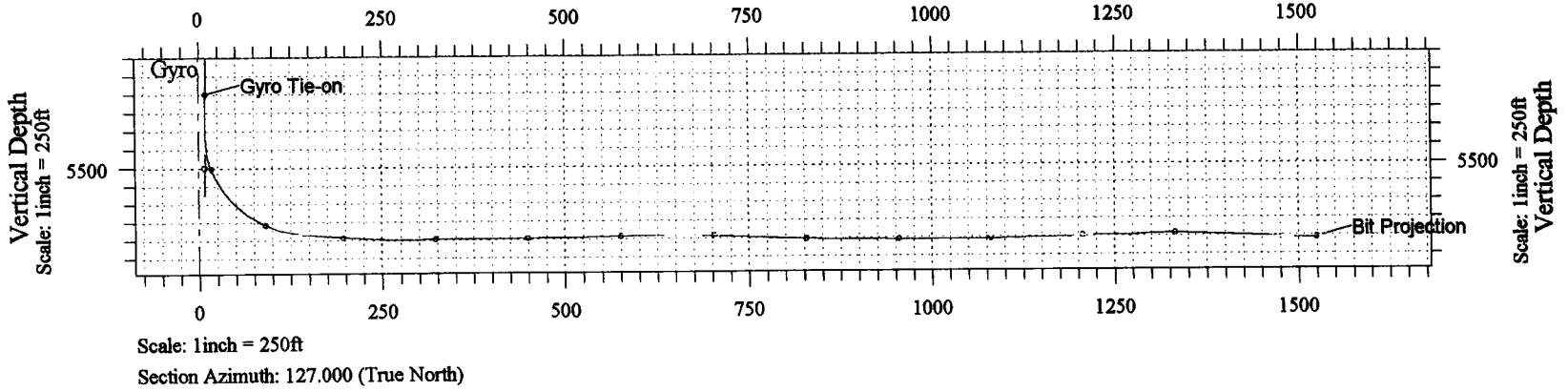
Customer: Mobil
Folder: Mobil
Field: San Juan County
Project: Utah
Structure: Ratherford Unit
Well: R.U. 20-44 Leg #2

Mobil



Vertical Section

Scale: 1inch = 400ft
Reference is True North



Scale: 1inch = 250ft
Section Azimuth: 127.000 (True North)

Vertical Section

Prepared:	Checked:	Approved:

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-603-353
6. If Indian, Allottee or Tribe Name: NAVAJO TRIBAL
7. If Unit or CA, Agreement Designation: RATHERFORD UNIT

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other
8. Well Name and No.: RATHERFORD 20-44
2. Name of Operator: MOBIL PRODUCING TX & NM INC.*
*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM
9. API Well No.: 43-037-30915
3. Address and Telephone No.: P.O. Box 633, Midland TX 79702 (915) 688-2585
10. Field and Pool, or exploratory Area: GREATER ANETH
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC. 20, T41S, R24E
620' FSL & 760' FEL
11. County or Parish, State: SAN JUAN UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other SIDETRACK	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BHL:

LATERAL #1; 869' NORTH & 833' WEST FROM SURFACE SPOT 6838' TD.
LATERAL #2; 911' SOUTH & 1222' EAST FROM SURFACE SPOT.

SEE ATTACHED.

ACIDIZE 5-11-98 / 5-19-98

RECEIVED
JUN 25 1998
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Sue Moseley for Title SHIRLEY HOUCHINS/ENV & REG TECH Date 6-22-98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

*** See Instruction on Reverse Side**

ATTACHMENT - FORM 3160-5
RATHERFORD UNIT - WELL #20-44
14-20-603-353
NAVAJO TRIBAL
SAN JUAN, UTAH

COMPLETION

12-31-97/1-8-98

COMPLETION CONTINUED:

05-11-98	MIRU NAVAJO WEST RIG #15, CALLED NAVAJO EPA @ 8:20 ON 5-07-98 (CHARMAINE HESTEEN), INFORMED OF INTENT TO DIG & LINE GROUND PIT. OK SIP @ 7:30 WAS 700 PSI. OPEN TO PIT KILL WELL, ND WH, NU BOPE. RU E.S.P. POOH, TALLY, SPOOL ELECTRIC LINE. SIFN.
05-12-98	SIP @ 7:30 WAS 300 PSI. ON ANN. O ON TBG. RU & KILL WELL, RIH W/ PH-6N TBG, SET PKR @ 5374', EOT @ 5663' SIFN.
05-13-98	MIRU DOWELL COILED TBG. UT. SIP @ 6:30 WAS 0 PSI. RIH W/COILED TBG TO 6838 (LATERAL 1A1) ACIDIZE W/16296 GALS 15% HCL ACID F/5660-6838'. SIFN.
05-14-98	SITP @ 7:30 WAS 450 PSI. RU, KILL WELL, RELEASE PKR. WORD END OF TBG INTO LATERAL #2A1, SET NEW PKR @ 5550'. SIFN.
05-15-98	SIP @ 7:30 WAS 450 PSI. KILL WELL, WORK TAIL PIPE INTO LATERAL 2A1 F/5668-7050', ACIDIZE W/19152 GALS 15% HCL ACID., RD, FLOW WELL, SIFN.
05-16-98	SIP @ 6:30 WAS 750 PSI. RU, KILL WELL, RELEASE PKR. POOH, LD PKR, PH-6 TAIL PIPE & TBG. RIH TO 5290' SIFN.
05-18-98	SIP=450#, RU & KILL WELL, RU E.S.P P/U SUB PUMP TIH, KILL WELL, SLIGHT BLOW, SIFN.
05-19-98	SITP=800, SICP=500, KILL WELL, STRIP OFF BOP, STRIP ON TBG HEAD, INSTALL CABLE, LAND TBG TEST PUMP TO PIT, HOOK UP F/L, RIG DOWN AUX EQUIP. SD. WELL TURN TO PRODUCTION.

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-603-353
6. If Indian, Allottee or Tribe Name: NAVAJO TRIBAL
7. If Unit or CA, Agreement Designation: RATHERFORD UNIT
1. Type of Well: [ ] Oil Well [ ] Gas Well [X] Other
8. Well Name and No.: RATHERFORD 20-44
2. Name of Operator: MOBIL PRODUCING TX & NM INC.*
*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM
9. API Well No.: 43-037-30915
3. Address and Telephone No.: P.O. Box 633, Midland TX 79702 (915) 688-2585
10. Field and Pool, or exploratory Area: GREATER ANETH
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC. 20, T41S, R24E
620' FSL & 760' FEL
11. County or Parish, State: SAN JUAN UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other SIDETRACK	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BHL:

LATERAL #1: 869' NORTH & 833' WEST FROM SURFACE SPOT.
LATERAL #2: 911' SOUTH & 1222' EAST FROM SURFACE SPOT.

10-26-97 -- 1-08-98 HORIZONTAL RECOMPLETION

SEE ATTACHED FORM 15

RECEIVED
FEB 01 1999
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Kim Mosley for Title SHIRLEY HOUCHINS/ENV & REG TECH Date 1-28-99

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

* See Instruction on Reverse Side

WTC 225-99

ExxonMobil Production Comp
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

June 27, 2001

ExxonMobil
Production

Mr. Jim Thompson
State of Utah, Division of Oil, Gas and Mining
1549 West North Temple
Suite 1210
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,

Charlotte H. Harper
Permitting Supervisor

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

United States Department of the Interior

IN REPLY REFER TO:

BUREAU OF INDIAN AFFAIRS
~~XXXXXXXXXXXXXXX~~
Navajo Area Office
NAVAJO REGION
P.O. Box 1060
Gallup, New Mexico 87305-1060

AUG 3 0 2001

RRES/543

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor
Exxon Mobil Production Company
U. S. West
P. O. Box 4358
Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of $75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DENNIS DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures
Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES
ADM
NATV AM MIN COORD
SOLID MIN TEAM
PETRO MGMT TEAM
O & G INSPECT TEAM
ALL TEAM LEADERS
LAND RESOURCES
ENVIRONMENT
FILES

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

PR 7/12/01 GN 543 file

June 27, 2001

ExxonMobil *Production*

Certified Mail
Return Receipt Requested

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543

Change of Name –
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of $75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

If you have any questions , please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isaac

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	F.A. Risch	Address	5959 Las Colinas Blvd. Irving, TX 75039
Vice President	K.T. Koonce	Address	800 Bell Street Houston, TX 77002
Secretary	F.L. Reid	Address	5959 Las Colinas Blvd. Irving, TX 75039
Treasure	B.A. Maher	Address	5959 Las Colinas Blvd. Irving, TX 75039

DIRECTORS

Name	D.D. Humphreys	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	P.A. Hanson	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	T.P. Townsend	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	B.A. Maher	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	F.A. Risch	Address	5959 Las Colinas Blvd. Irving, TX 75039

Sincerely,

Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is trust and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800, whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218

(CORPORATE SEAL)

Signature

AGENT AND ATTORNEY IN FACT
Title

SAL

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

S. A. Millican
Assistant Secretary

COUNTY OF DALLAS)
STATE OF TEXAS)
UNITED STATES OF AMERICA)
Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

Janice M. Phillips
Notary Public

LISTING OF LEASES OF MOBIL OIL CORPORATION

	Lease Number
1)	14-20-0603-6504
2)	14-20-0603-6505
3)	14-20-0603-6506
4)	14-20-0603-6508
5)	14-20-0603-6509
6)	14-20-0603-6510
7)	14-20-0603-7171
8)	14-20-0603-7172A
9)	14-20-600-3530
10)	14-20-603-359
11)	14-20-603-368
12)	14-20-603-370
13)	14-20-603-370A
14)	14-20-603-372
15)	14-20-603-372A
16)	14-20-603-4495
17)	14-20-603-5447
18)	14-20-603-5448
19)	14-20-603-5449
20)	14-20-603-5450
21)	14-20-603-5451

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

[illegible] South, Suite [illegible], Houston, Texas [illegible]
[illegible] (713) 297-4600 • Facsimile: (713) 297-4750

NW Bond

FEDERAL INSURANCE COMPANY RIDER
to be attached to and form a part of

BOND NO 8027 31 97
wherein
Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is named as Principal and

FEDERAL INSURANCE COMPANY AS SURETY,

in favor of United States of America, Department of the Interior Bureau of Indian Affairs

in the amount of **$150,000.00**
bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective **June 1, 2001** the name of the Principal is changed

FROM: **Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.**

TO : **ExxonMobil Oil Corporation**

All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12th of June, 2001.

ExxonMobil Oil Corporation

By : _____

FEDERAL INSURANCE COMPANY

By: Mary Pierson
Mary Pierson, Attorney-in-fact

Chubb Surety	POWER OF ATTORNEY	Federal Insurance Company Vigilant Insurance Company Pacific Indemnity Company	Attn.: Surety Department 15 Mountain View Road Warren, NJ 07059

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint R.F. Bobo, Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas----------

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson, Vice President

STATE OF NEW JERSEY }
County of Somerset } ss.

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Boards and in deponent's presence.

Karen A. Price
Notary Public State of New Jersey
No. 2231647
Commission Expires Oct. 28, 2004

Notary Public

CERTIFICATION

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

(i) the foregoing extract of the By-Laws of the Companies is true and correct,
(ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
(iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001.

Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY
Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

15-10-0225 (Ed. 4-99) CONSENT

F010601000187

CSC 45

CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION

OF

MOBIL OIL CORPORATION

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st: The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.

F. A. Risch, President

STATE OF TEXAS)
COUNTY OF DALLAS)

F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]

NOTARY PUBLIC, STATE OF TEXAS

JANICE M. PHILLIPS
MY COMMISSION EXPIRES
May 16, 2002

CSC
CSC 5184334741 06/01 '01 09:01 NO.411 02/02
06/01 '01 09:06 NO.133 04/04

F010601000187

CSC 45

CERTIFICATE OF AMENDMENT

OF

MOBIL OIL CORPORATION

Under Section 805 of the Business Corporation Law

SAC

100 cc

STATE OF NEW YORK
DEPARTMENT OF STATE
FILED JUN 01 2001
TAX $
BY: SAC

Filed by: EXXONMOBIL CORPORATION
(Name)

5959 Las Colinas Blvd.
(Mailing address)

Irving, TX 75039-2298
(City, State and Zip code)

NY Albany

Cust Ref # 1655781MPT

RECEIVED
JUL 05 2001
CORPORATION & REAL ESTATE SERVICES

010601000195

State of New York }
Department of State } *ss:*

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on JUN 01 2001

STATE OF NEW YORK ★ DEPARTMENT OF STATE ★

Special Deputy Secretary of State

DOS-1266 (7/00)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent

X Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

FROM: (Old Operator):	**TO:** (New Operator):
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

CA No. **Unit:** **RATHERFORD**

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
RATHERFORD UNIT 19-13	19-41S-24E	43-037-31719	6280	INDIAN	OW	P
RATHERFORD UNIT 19-24 (MULTI-LEG)	19-41S-24E	43-037-31754	6280	INDIAN	OW	P
RATHERFORD UNIT 20-44	20-41S-24E	43-037-30915	6280	INDIAN	OW	P
20-13	20-41S-24E	43-037-30917	6280	INDIAN	OW	P
20-24	20-41S-24E	43-037-30918	6280	INDIAN	OW	P
20-22	20-41S-24E	43-037-30930	6280	INDIAN	OW	P
RATHERFORD UNIT 20-33	20-41S-24E	43-037-30931	6280	INDIAN	OW	S
RATHERFORD UNIT 20-11	20-41S-24E	43-037-31049	6280	INDIAN	OW	S
RATHERFORD UNIT 20-31	20-41S-24E	43-037-31050	6280	INDIAN	OW	P
RATHERFORD UNIT 20-42	20-41S-24E	43-037-31051	6280	INDIAN	OW	P
RATHERFORD 20-68	20-41S-24E	43-037-31591	6280	INDIAN	OW	P
RATHERFORD 20-66	20-41S-24E	43-037-31592	6280	INDIAN	OW	P
21-23	21-41S-24E	43-037-13754	6280	INDIAN	OW	S
21-32	21-41S-24E	43-037-15755	6280	INDIAN	OW	S
21-34	21-41S-24E	43-037-15756	6280	INDIAN	OW	S
RATHERFORD UNIT 21-11	21-41S-24E	43-037-31052	6280	INDIAN	OW	S
RATHERFORD UNIT 21-24	21-41S-24E	43-037-31720	6280	INDIAN	OW	P
RATHERFORD UNIT 21-77	21-41S-24E	43-037-31758	6280	INDIAN	OW	S
RATHERFORD UNIT 28-11	28-41S-24E	43-037-30446	6280	INDIAN	OW	P
29-34	29-41S-24E	43-037-15340	6280	INDIAN	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 04/15/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 04/15/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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.

1. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other
2. Name of Operator: **Exxon Mobil Oil Corporation**
3a. Address: **P.O. Box 4358, Houston, TX 77210-4358**
3b. Phone No. *(include area code)*: **281-654-1936**
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*: **SE/SE 0620' FSL & 0760' FEL, Sec 20, T41S, R24E**
5. Lease Serial No.: **1420603353**
6. If Indian, Allottee or Tribe Name: **Ship Rock**
7. If Unit or CA/Agreement, Name and/or No.: **UTU68931A**
8. Well Name and No.: **Ratherford 20-44**
9. API Well No.: **43-037-30915-01-S1**
10. Field and Pool, or Exploratory Area: **Aneth**
11. County or Parish, State: **San Juan County, UT**

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.)

Well was returned to production 10/05. Latest 24 hr well test was 3/09/06: 62 bopd, 208 bwpd, 36 mcfg/d.

RECEIVED
APR 2 8 2006
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*: **Tiffany Stebbins** Title: **Staff Office Assistant**
Signature: Tiffany Stebbins Date: **04/21/2006**

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 and Title 43 U.S.C. Section 1212, make 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 page 2)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **6/1/2006**

FROM: (Old Operator):	**TO:** (New Operator):
N1855-ExxonMobil Oil Corporation	N2700-Resolute Natural Resources Company
PO Box 4358	1675 Broadway, Suite 1950
Houston, TX 77210-4358	Denver, CO 80202
Phone: 1 (281) 654-1936	Phone: 1 (303) 534-4600

CA No. **Unit:** **RATHERFORD**

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: requested

6b. Inspections of LA PA state/fee well sites complete on: n/a

6c. Reports current for Production/Disposition & Sundries on: ok

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
8. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):** The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/22/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/22/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: 6/22/2006
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: PA002769
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

a. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:	See attached list
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	Navajo Tribe
7. UNIT or CA AGREEMENT NAME:	Ratherford Unit
8. WELL NAME and NUMBER:	See attached list
9. API NUMBER:	Attached
10. FIELD AND POOL, OR WILDCAT:	Greater Aneth

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Unit Agreement

2. NAME OF OPERATOR: Resolute Natural Resources Company N2700

3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 534-4600

4. LOCATION OF WELL
FOOTAGES AT SURFACE: See attached list COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
_____	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the Ratherford Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the Ratherford Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) Dwight E Mallory TITLE Regulatory Coordinator

SIGNATURE Dwight E Mallory DATE 4/20/2006

(This space for State use only)

APPROVED 6/27/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
APR 24 2006
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ship Rock

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UTU68931A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Ratherford

2. NAME OF OPERATOR: ExxonMobil Oil Corporation N1855

9. API NUMBER: attached

3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358

PHONE NUMBER: (281) 654-1936

10. FIELD AND POOL, OR WILDCAT: Aneth

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/1/2006	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
Date of work completion:	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, Ratherford lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of producers and water source wells included in the transfer.

NAME (PLEASE PRINT) Laurie Kilbride TITLE Permitting Supervisor

SIGNATURE Laurie B. Kilbride DATE 4/19/2006

(This space for State use only)

APPROVED 6/27/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
APR 21 2006
DIV. OF OIL, GAS & MINING

(5/2000)

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	01-14	430373116200S1	Producing	1420603246A	1	41S	23E	SWSW	0660FSL	0660FWL
Ratherford	01-34	430371638501S1	SI	1420603246A	1	41S	23E	SWSE	1133FSL	1980FEL
Ratherford	11-41	430373154400S1	Producing	1420603246A	11	41S	23E	NENE	0860FNL	0350FEL
Ratherford	11-43	430373162201S1	Producing	1420603246A	11	41S	23E	NESE	1980FSL	0660FEL
Ratherford	12-12	430373119000S1	Producing	1420603246A	12	41S	23E	SWNW	1850FNL	0660FWL
Ratherford	12-14	430371584400S1	SI	1420603246A	12	41S	23E	SWSW	0660FSL	4622FEL
Ratherford	12-21	430373120100S1	Producing	1420603246A	12	41S	23E	NENW	0660FNL	1980FWL
Ratherford	12-23	430371584601S1	Producing	1420603246A	12	41S	23E	NESW	1958FSL	3300FEL
Ratherford	12-32	430373120300S1	Producing	1420603246A	12	41S	23E	SWNE	1820FNL	1820FEL
Ratherford	12-34	430373112600S1	Producing	1420603246A	12	41S	23E	SWSE	0675FSL	1905FEL
Ratherford	12-43	430373120200S1	SI	1420603246A	12	41S	23E	NESE	2100FSL	0660FEL
Ratherford	13-12	430373112701S1	Producing	1420603247A	13	41S	23E	SWNW	1705FNL	0640FWL
Ratherford	13-14	430373158900S1	Producing	1420603247A	13	41S	23E	SWSW	0660FSL	0660FWL
Ratherford	13-21	430373112801S1	SI	1420603247A	13	41S	23E	NENW	0660FNL	1920FWL
Ratherford	13-23	430373112900S1	Producing	1420603247A	13	41S	23E	NESW	1980FSL	1930FWL
Ratherford	13-34	430373113001S1	Producing	1420603247A	13	41S	23E	SWSE	0660FSL	1980FEL
Ratherford	13-41	430371585601S1	Producing	1420603247A	13	41S	23E	NENE	660FNL	660FEL
Ratherford	13-43	430373113100S1	Producing	1420603247A	13	41S	23E	NESE	1700FSL	0960FEL
Ratherford	14-32	430371585801S1	Producing	1420603247A	14	41S	23E	SWNE	2130FNL	1830FEL
Ratherford	14-41	430373162300S1	Producing	1420603247A	14	41S	23E	NENE	0521FNL	0810FEL
Ratherford	24-32	430373159300S1	Producing	1420603247A	24	41S	23E	SWNE	2121FNL	1846FEL
Ratherford	24-41	430373113200S1	Producing	1420603247A	24	41S	23E	NENE	0660FNL	0710FEL
Ratherford	17-11	430373116900S1	Producing	1420603353	17	41S	24E	NWNW	1075FNL	0800FWL
Ratherford	17-13	430373113301S1	Producing	1420603353	17	41S	24E	NWSW	2100FSL	0660FWL
Ratherford	17-22	430373117001S1	Producing	1420603353	17	41S	24E	SENW	1882FNL	1910FWL
Ratherford	17-24	430373104400S1	Producing	1420603353	17	41S	24E	SESW	0720FSL	1980FWL
Ratherford	17-31	430373117800S1	Producing	1420603353	17	41S	24E	NWNE	0500FNL	1980FEL
Ratherford	17-33	430373113400S1	Producing	1420603353	17	41S	24E	NWSE	1980FSL	1845FEL
Ratherford	17-42	430373117700S1	Producing	1420603353	17	41S	24E	SENE	1980FNL	0660FEL
Ratherford	17-44	430371573201S1	Producing	1420603353	17	41S	24E	SESE	0660FSL	0660FEL
Ratherford	18-11	430371573300S1	SI	1420603353	18	41S	24E	NWNW	0720FNL	0730FWL
Ratherford	18-13	430371573401S1	Producing	1420603353	18	41S	24E	NWSW	1980FSL	0500FWL
Ratherford	18-22	430373123600S1	Producing	1420603353	18	41S	24E	SENW	2200FNL	2210FWL
Ratherford	18-24	430373107900S1	Producing	1420603353	18	41S	24E	SESW	0760FSL	1980FWL
Ratherford	18-31	430373118101S1	Producing	1420603353	18	41S	24E	NWNE	0795FNL	2090FEL
Ratherford	18-33	430373113501S1	Producing	1420603353	18	41S	24E	NWSE	1870FSL	1980FEL
Ratherford	18-42	430373118200S1	Producing	1420603353	18	41S	24E	SENE	2120FNL	0745FEL
Ratherford	18-44	430373104500S1	SI	1420603353	18	41S	24E	SESE	0660FSL	0660FEL
Ratherford	19-11	430373108000S1	Producing	1420603353	19	41S	24E	NWNW	0660FNL	0660FWL
Ratherford	19-13	430373171900S1	Producing	1420603353	19	41S	24E	NWSW	1980FSL	0660FWL
Ratherford	19-22	430373104601S1	Producing	1420603353	19	41S	24E	SENW	1840FNL	1980FWL
Ratherford	19-24	430373175401S1	Producing	1420603353	19	41S	24E	SESW	0600FSL	1980FWL
Ratherford	19-31	430373104701S1	Producing	1420603353	19	41S	24E	NWNE	510FNL	1980FEL
Ratherford	19-33	430373104800S1	Producing	1420603353	19	41S	24E	NWSE	1980FSL	1980FEL
Ratherford	19-42	430373091600S1	Producing	1420603353	19	41S	24E	SENE	1880FNL	0660FEL
Ratherford	19-44	430373108100S1	Producing	1420603353	19	41S	24E	SESE	0660FSL	0660FEL
Ratherford	19-97	430373159600S1	Producing	1420603353	19	41S	24E	SENE	2562FNL	0030FEL
Ratherford	20-11	430373104900S1	Producing	1420603353	20	41S	24E	NWNW	0500FNL	0660FWL
Ratherford	20-13	430373091700S1	Producing	1420603353	20	41S	24E	NWSW	2140FSL	0500FWL
Ratherford	20-22	430373093000S1	Producing	1420603353	20	41S	24E	SENW	2020FNL	2090FWL
Ratherford	20-24	430373091800S1	Producing	1420603353	20	41S	24E	SESW	0820FSL	1820FWL

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	20-31	430373105001S1	Producing	1420603353	20	41S	24E	NWNE	0660FNL	1880FEL
Ratherford	20-33	430373093100S1	Producing	1420603353	20	41S	24E	NWSE	1910FSL	2140FEL
Ratherford	20-42	430373105100S1	Producing	1420603353	20	41S	24E	SENE	1980FNL	0660FEL
Ratherford	20-44	430373091501S1	Producing	1420603353	20	41S	24E	SESE	0620FSL	0760FEL
Ratherford	20-66	430373159201S1	Producing	1420603353	20	41S	24E	SWNW	1369FNL	1221FWL
Ratherford	20-68	430373159100S1	Producing	1420603353	20	41S	24E	NWSW	1615FSL	1276FWL
Ratherford	15-12	430371571501S1	Producing	1420603355	15	41S	24E	SWNW	1820FNL	0500FWL
Ratherford	15-22	430373044900S1	SI	1420603355	15	41S	24E	SENW	1980FNL	2050FWL
Ratherford	15-32	430371571700S1	Producing	1420603355	15	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	15-33	430371571800S1	Producing	1420603355	15	41S	24E	NWSE	1650FSL	1980FEL
Ratherford	15-41	430371571900S1	TA	1420603355	15	41S	24E	NENE	0660FNL	0660FEL
Ratherford	15-42	430373044800S1	Producing	1420603355	15	41S	24E	SENE	2020FNL	0820FEL
Ratherford	16-13	430373116801S1	Producing	1420603355	16	41S	24E	NWSW	1980FSL	660FWL
Ratherford	16-32	430371572300S1	Producing	1420603355	16	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	16-41	430371572500S1	Producing	1420603355	16	41S	24E	NENE	0660FNL	0660FEL
Ratherford	16-77	430373176800S1	Producing	1420603355	16	41S	24E	NESW	2587FSL	2410FWL
Ratherford	21-23	430371375400S1	Producing	1420603355	21	41S	24E	NESW	1740FSL	1740FWL
Ratherford	21-24	430373172001S1	SI	1420603355	21	41S	24E	SESW	487FSL	2064FWL
Ratherford	21-32	430371575500S1	SI	1420603355	21	41S	24E	SWNE	1880FNL	1980FEL
Ratherford	21-77	430373175801S1	SI	1420603355	21	41S	24E	NWSE	2511FSL	2446FEL
Ratherford	07-11	430373116300S1	Producing	1420603368	7	41S	24E	NWNW	0660FNL	0710FWL
Ratherford	07-13	430373116400S1	Producing	1420603368	7	41S	24E	NWSW	2110FSL	0740FWL
Ratherford	07-22	430373116500S1	Producing	1420603368	7	41S	24E	SENW	1980FNL	1980FWL
Ratherford	07-24	430373116600S1	Producing	1420603368	7	41S	24E	SESW	0880FSL	2414FWL
Ratherford	07-44	430373118900S1	SI	1420603368	7	41S	24E	SESE	0737FSL	0555FEL
Ratherford	08-12	430371599100S1	Producing	1420603368	8	41S	24E	SWNW	1909FNL	0520FWL
Ratherford	08-21	430371599300S1	Producing	1420603368	8	41S	24E	NENW	0616FNL	1911FWL
Ratherford	08-23	430371599400S1	Producing	1420603368	8	41S	24E	NESW	1920FSL	2055FWL
Ratherford	08-32	430371599500S1	Producing	1420603368	8	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	08-34	430371599600S1	Producing	1420603368	8	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	04-34	430371616400S1	Producing	14206034035	4	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	11-14	430371616700S1	Producing	14206034037	11	41S	24E	SWSW	0660FSL	0660FWL
Ratherford	09-34	430371571100S1	SI	14206034043	9	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	10-12	430371571200S1	Producing	14206034043	10	41S	24E	SWNW	1980FNL	0660FWL
Ratherford	10-14	430371571300S1	Producing	14206034043	10	41S	24E	SWSW	0510FSL	0710FWL
Ratherford	10-32	430371571400S1	TA	14206034043	10	41S	24E	SWNE	2080FNL	1910FEL
Ratherford	10-44	430373045100S1	TA	14206034043	10	41S	24E	SESE	0820FSL	0510FEL
Ratherford	29-11	430373105300S1	Producing	1420603407	29	41S	24E	NWNW	0770FNL	0585FWL
Ratherford	29-22	430373108200S1	Producing	1420603407	29	41S	24E	SENW	2130FNL	1370FWL
Ratherford	29-31	430373091401S1	Producing	1420603407	29	41S	24E	NWNE	0700FNL	2140FEL
Ratherford	29-33	430373093200S1	SI	1420603407	29	41S	24E	NWSE	1860FSL	1820FEL
Ratherford	29-34	430371534000S1	SI	1420603407	29	41S	24E	SWSE	0817FSL	2096FEL
Ratherford	29-42	430373093700S1	SI	1420603407	29	41S	24E	SENE	1850FNL	0660FEL
Ratherford	30-32	430371534200S1	Producing	1420603407	30	41S	24E	SWNE	1975FNL	2010FEL
Ratherford	28-11	430373044600S1	Producing	1420603409	28	41S	24E	NWNW	0520FNL	0620FWL

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	09-12	430371512600S1	Producing	14206035045	9	41S	24E	SWNW	1865FNL	0780FWL
Ratherford	09-14	430371512700S1	Producing	14206035046	9	41S	24E	SWSW	0695FSL	0695FWL
Ratherford	04-14	430371616300S1	Producing	14206035446	4	41S	24E	SWSW	0500FSL	0660FWL
Ratherford	03-12	430371562000S1	Producing	14206036506	3	41S	24E	SWNW	2140FNL	0660FWL

Water Source Wells (Feb 2006)

RU	S1	4303700001	Active
RU	S2	4303700002	Active
RU	S3	4303700003	Active
RU	S4	4303700004	Active
RU	S5	4303700005	Active
RU	S6	4303700006	Active
RU	S7	4303700007	Active
RU	S8	4303700008	Active
RU	S9	4303700009	Active
RU	S10	4303700010	Active
RU	S11	4303700011	Active
RU	S12	4303700012	Active
RU	S13	4303700013	Active
RU	S14	4303700014	Active
RU	S16	4303700016	Active
RU	S17	4303700017	Active