

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 S1M, 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 12,000 feet of 10-3/4 inch conveyance pipe to places of use.

ITEM 20

Township 41 South, Range 23 East, S1M

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, S1M

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 Rutherford 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:

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, } as
County of.....

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

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 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 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.



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, 1961
Expiration Date: April 30, 1962

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 water was to have been diverted from ten 12.75-inch O.D. wells located within $\frac{1}{2}$ N $\frac{1}{2}$ NE $\frac{1}{4}$ and SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec. 5, T41S, R24E, SLB&M. It is now proposed to divert the 8.0 sec.-ft. of water from a total of 31 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 NW $\frac{1}{4}$ Sec. 3, S $\frac{1}{2}$ Sec. 4, NW $\frac{1}{4}$ 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 wells.

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

RECEIVED

ds

1961

SENIOR

*Lewis
file/S*

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 Rutherford 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 Rutherford 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 ✓

RECEIVED

3 Copies
Transmitted
Chairman
10-13-67
P.S. - will

STAMP

Legal

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.

- The name of the applicant is Phillips Petroleum Company
- The post-office address of the applicant is Bartlesville, Oklahoma
- †The flow of water which ~~has been or~~ was to have been used in second-feet is 8
- †The quantity of water which has been or was to have been used in acre-feet is XX
- †The water ~~has been or~~ was to have been used each year from January 1 to December 31 incl.
(Month) (Day) (Month) (Day)
- †The water has been or was to have been stored each year from XX to XX incl.
(Month) (Day) (Month) (Day)
- The drainage area to which source of supply belongs is.....
(Leave blank)
- The direct source of supply is Underground water and subsurface flow of San Juan River
in San Juan County.
- †The point^s of diversion as described in the original Application ~~or the point at which the water has been diverted if~~ ^{are} situated at points in Section 5, T. 41S., R. 24E as more particularly set out in the original Application No. 32773.

- †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.

- †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

- The flow of water to be changed in cubic feet per second is No change
- The quantity of water to be changed in acre-feet is XX
- The water will be used each year from January 1 to December 31 incl.
(Month) (Day) (Month) (Day)
- The water will be stored each year from XX to XX incl.
(Month) (Day) (Month) (Day)
- 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.

- The proposed diverting and conveying works will consist of wells and conveyance pipe as explained in original Application No. 32773

- The cross-section of the diverting channel will be. XXXXXXXXXX O
(Strike out ones not needed)

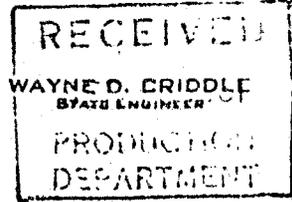
- The nature of the diverting channel will be: earth, wood, iron, concrete.
(Strike out the ones not needed)

†Strike out written matter not needed.



S. Smith

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
Oct 9/1961*

Yours truly,

Wayne D. Criddle

ADDRESS ALL COMMUNICATIONS TO:

Wayne D. Criddle
STATE ENGINEER
STATE CAPITOL BUILDING
SALT LAKE CITY, UTAH

js
Encl: Copy of 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.

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:

<u>Diversion Point</u>	<u>From West Line</u>	<u>From North Line</u>	<u>Subdivision</u>
1	100'	1780'	SW $\frac{1}{2}$ NW $\frac{1}{2}$
2	365'	1780'	"
3	630'	1770'	"
4	900'	1620'	"
5	1170'	1620'	"
6	1400'	1600'	SE $\frac{1}{2}$ NW $\frac{1}{2}$
7	1530'	1600'	"
8	1900'	1600'	"
9	2150'	1620'	"
10	2400'	1700'	"
11	2640'	1750'	"
12	2900'	1810'	SW $\frac{1}{2}$ NE $\frac{1}{2}$
13	3180'	1900'	"
14	3400'	1950'	"
15	3650'	2050'	"
16	3870'	2225'	"
17	4100'	2450'	SE $\frac{1}{2}$ NE $\frac{1}{2}$
18	4250'	2700'	NE $\frac{1}{2}$ SE $\frac{1}{2}$
19	4380'	2975'	"
20	4420'	3250'	"

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

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 1980' FNL, 660' FEL (SE NE)
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 4 miles south of Montezuma Creek, Utah

16. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
 660' West of Ratherford Unit Lease Line

17. NO. OF ACRES IN LEASE TO THIS WELL
 2534 Acres

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1230' north of #20-43

19. PROPOSED DEPTH
 5700'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4770' ungraded ground

22. APPROX. DATE WORK WILL START*
 As soon as BLM approval is secured

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.
 #20-42

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

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 (Circ to surface)
12-1/4"	9-5/8"	36#	1600'	800 sx (Circ to surface)
8-1/2"	7"	23#, & 26#	5700'	1000 sx est. (T.O.C. approx 2,000)

Approval is requested to drill Ratherford Unit #20-42, 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 16 1984

DIVISION OF OIL
GAS & MINING

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 7/27/84
BY: [Signature]

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 [Signature] Area Manager TITLE _____ DATE July 6, 1984

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

- 5-BLM, Farmington, NM
 - 12-Utah O&GCC S.L.C. Utah
 - 1-LeRoy Williamson (r) T.C. Doughty
 - 1- G.W. Berk
 - 1- J.R. Weichbrodt
 - 1- File
 - 1-Chevron - Denver
 - 1-Superior Denver
 - 1-Texaco Denver
- *See Instructions On Reverse Side
 Form 9-331C & Location Plat Only - B. Conner
 R. M. Coffect, P. J. Adamson

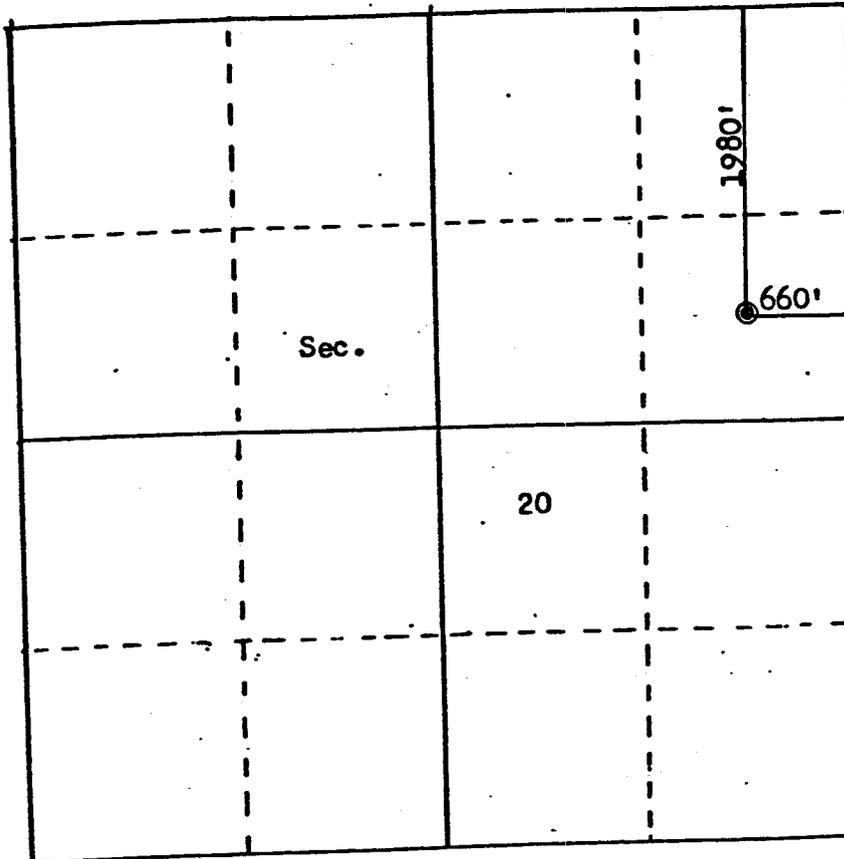
COMPANY PHILIPS OIL COMPANY

LEASE RATHERFORD UNIT WELL NO. 20-42

SEC. 20, T. 41S, R. 24E
San Juan County, Utah

LOCATION 1980'FNL 660'FEL

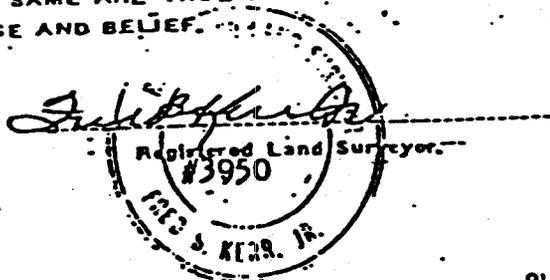
ELEVATION 4770 ungraded ground



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.

SEALS

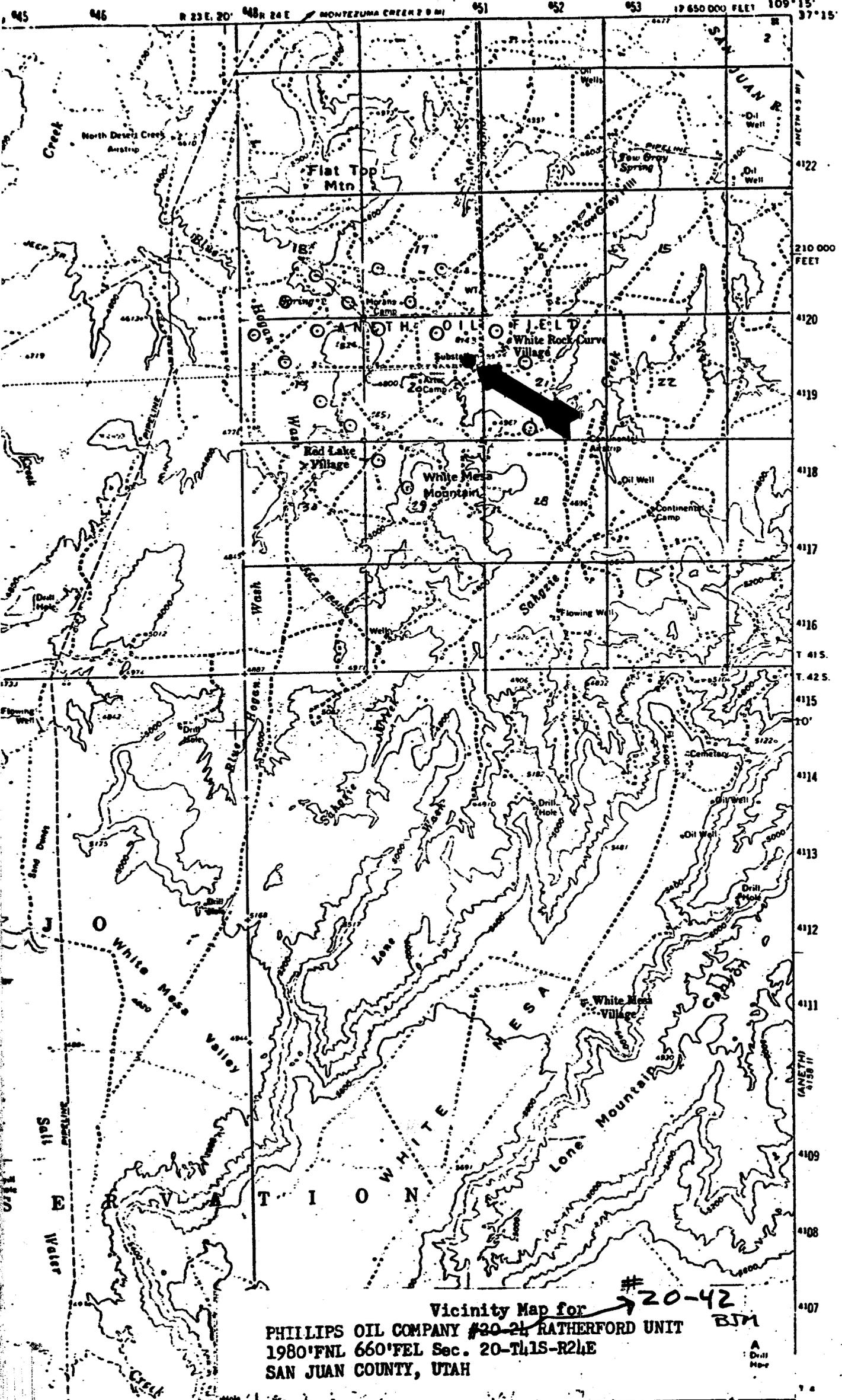


SURVEYED May 14 1984

FARMINGTON, N. M.

WHITE MESA VILLAGE QUADRANGLE
UTAH
15 MINUTE SERIES (TOPOGRAPHIC)

5149
CAJON NF 541

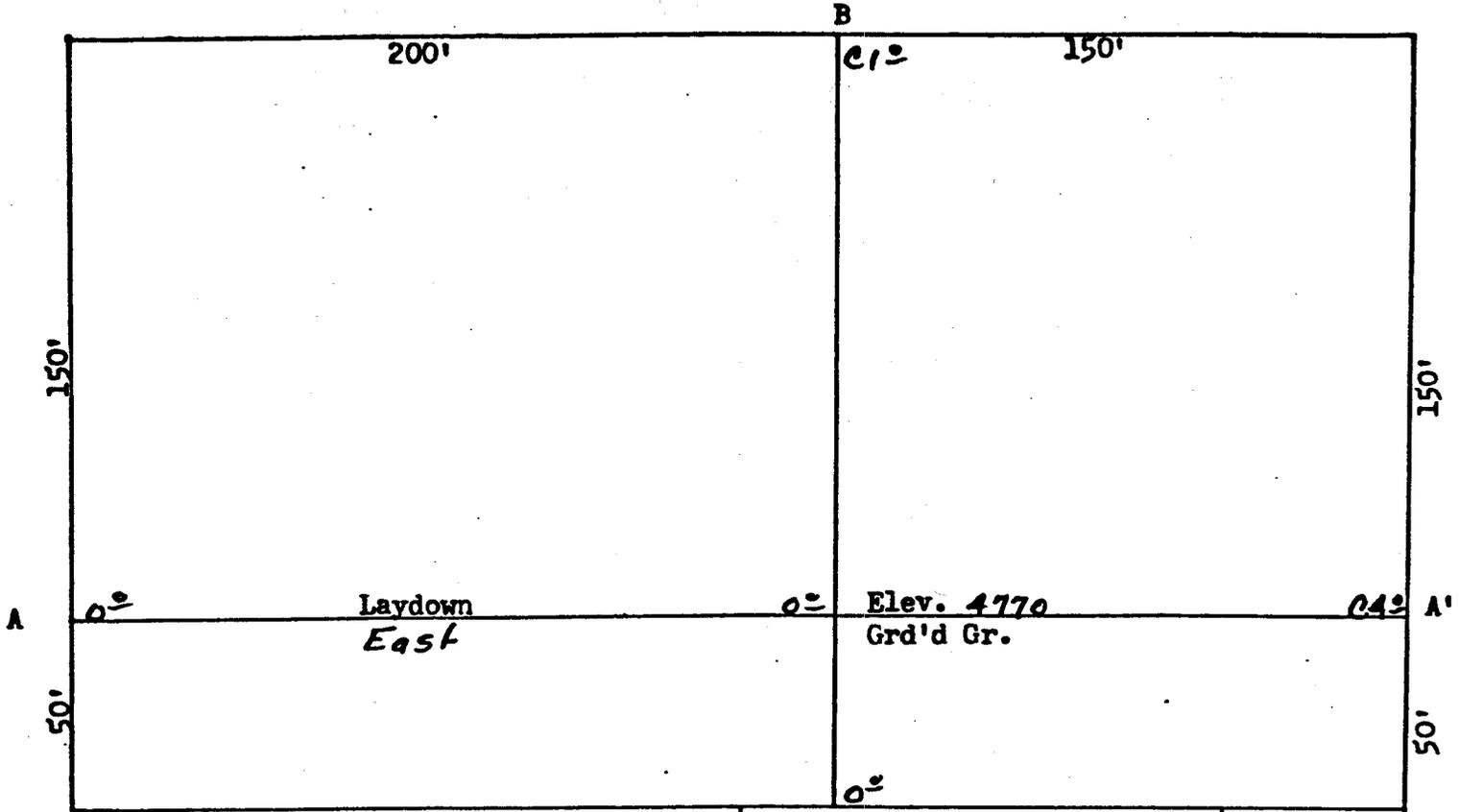


Vicinity Map for **#20-42**
PHILLIPS OIL COMPANY **RATHERFORD UNIT**
1980'FNL 660'FEL Sec. 20-T41S-R24E
SAN JUAN COUNTY, UTAH

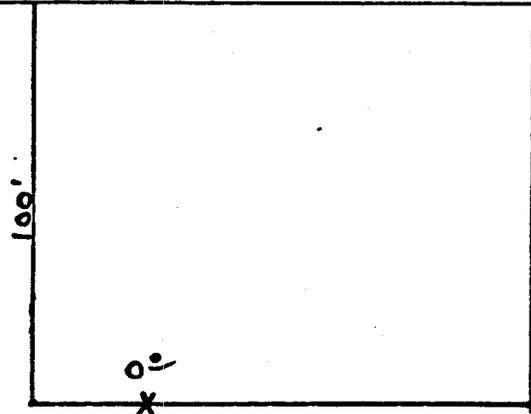
A
Drill
Hole

4107
4108
4109
4110
4111
4112
4113
4114
4115
4116
4117
4118
4119
4120
4122

Profile for
 PHILLIPS OIL COMPANY #20-42 RATHERFORD UNIT
 1980'FNL 660'FEL Sec. 20-T41S-R24E
 SAN JUAN COUNTY, UTAH



Scale: 1"=50'



B' 125'

A-A' Vert: 1"=30' Horiz: 1"=100' C-L

4780				
4770				
4760				

B-B' C-L

4780				
4770				
4760				

MEMORANDUM

TO: Dr. Mark Henderson, B.I.A. Archaeologist
FROM: Kristin Langenfeld, Archaeologist *KML*
DATE: June 12, 1984
SUBJECT: Erratum to Report 84-SJC-071A

Please note the following changes in Report 84-SJC-071A:

Pg. 16, Line 9 reads: ... "NW 1/4 of SE 1/4 of Section 17";
this should read: ... "NW 1/4 of SE 1/4 of Section 18".

Pg. 27, Line 4 reads: ... "NE 1/4 of Section 17";
this should read: ... "NE 1/4 of Section 20".

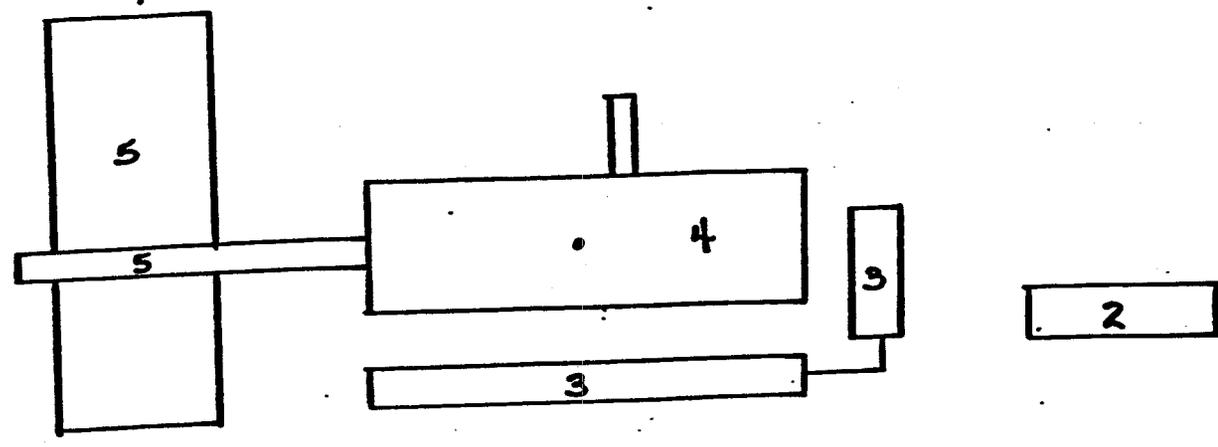
These errors were pointed out by Mr. Max Isaacs in a phone conversation on June 8, 1984. I regret any inconvenience these errors may have caused.

/cap

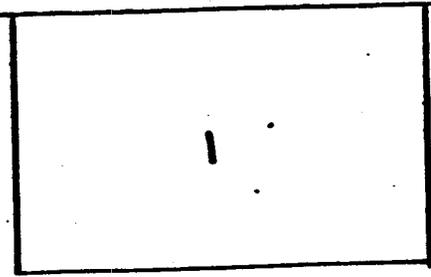
cc: *✓* Mr. Max Isaacs, Phillips Petroleum, Cortez, CO
Mr. Bill Bingham, U.S. Bureau of Land Management, Farmington, NM
Mr. Jerry Elwood, Office of Navajo Land Administration,
Crownpoint, NM
Mr. Randy Cornett, Bureau of Indian Affairs, Shiprock, NM
Ms. Nellie Jackson, Navajo Nation, Montezuma Creek, UT

RATHERFORD UNIT #20-42
SE NE SEC. 20 T41S-R24E

N ↓



- 1. RESERVE PIT
- 2. TRASH PIT
- 3. CIR. PITS & PUMP
- 4. RIG
- 5. CAT WALK & PIPE RACKS
- 6. TRAILERS

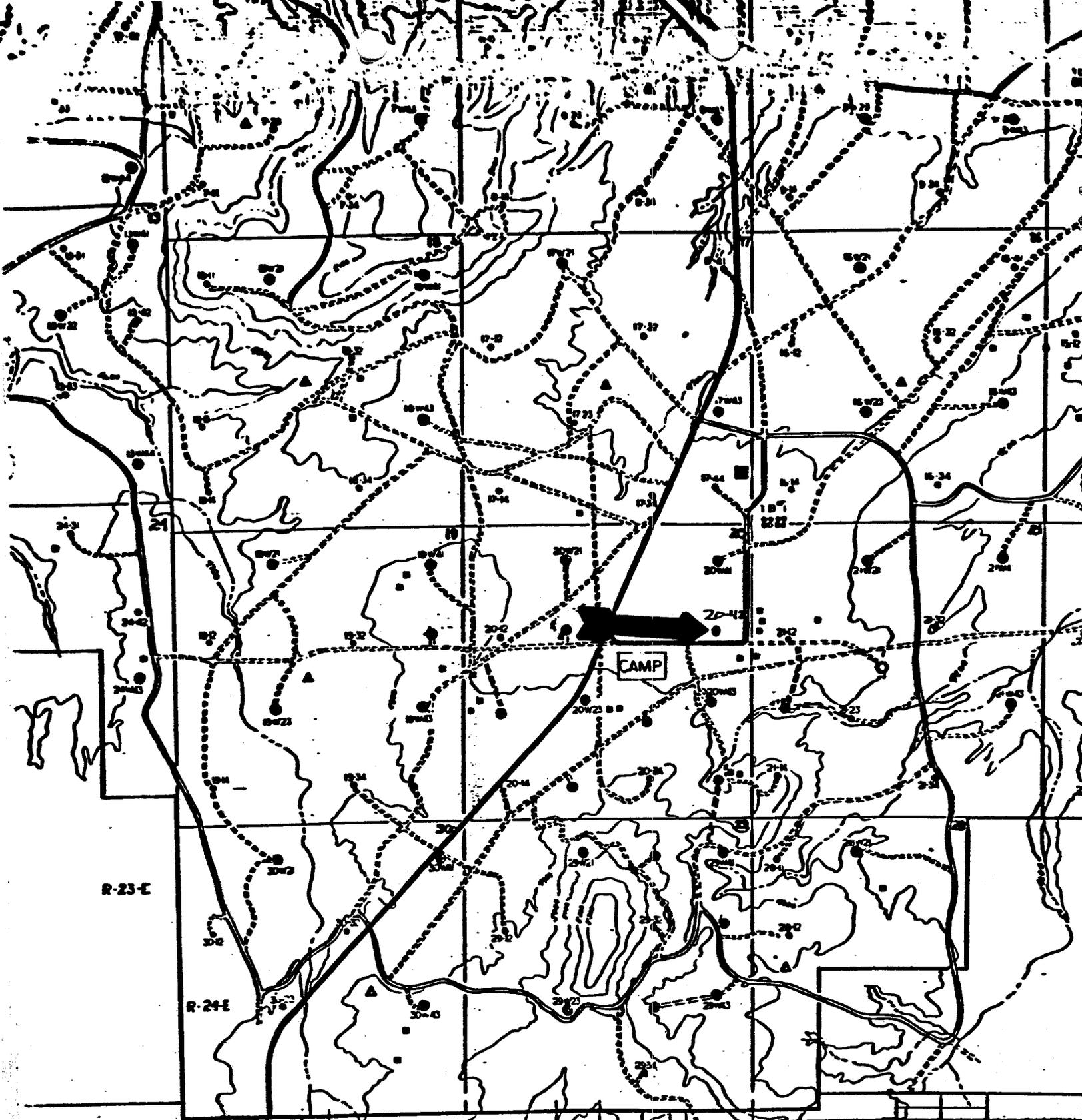


DRILLING RIG LAYOUT

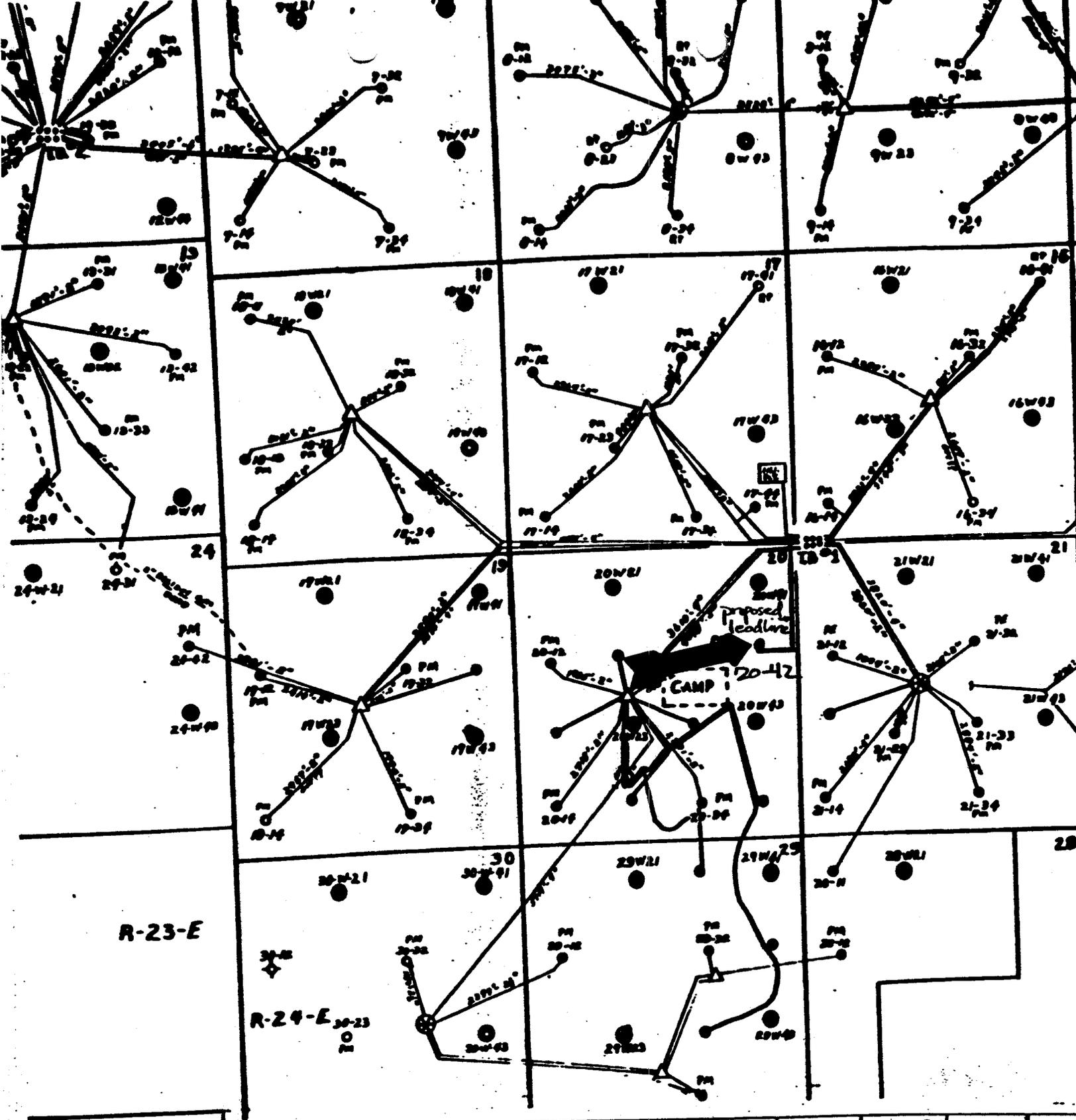
OUTLINE OF LOCATION APPROXIMATELY 300' x 350'



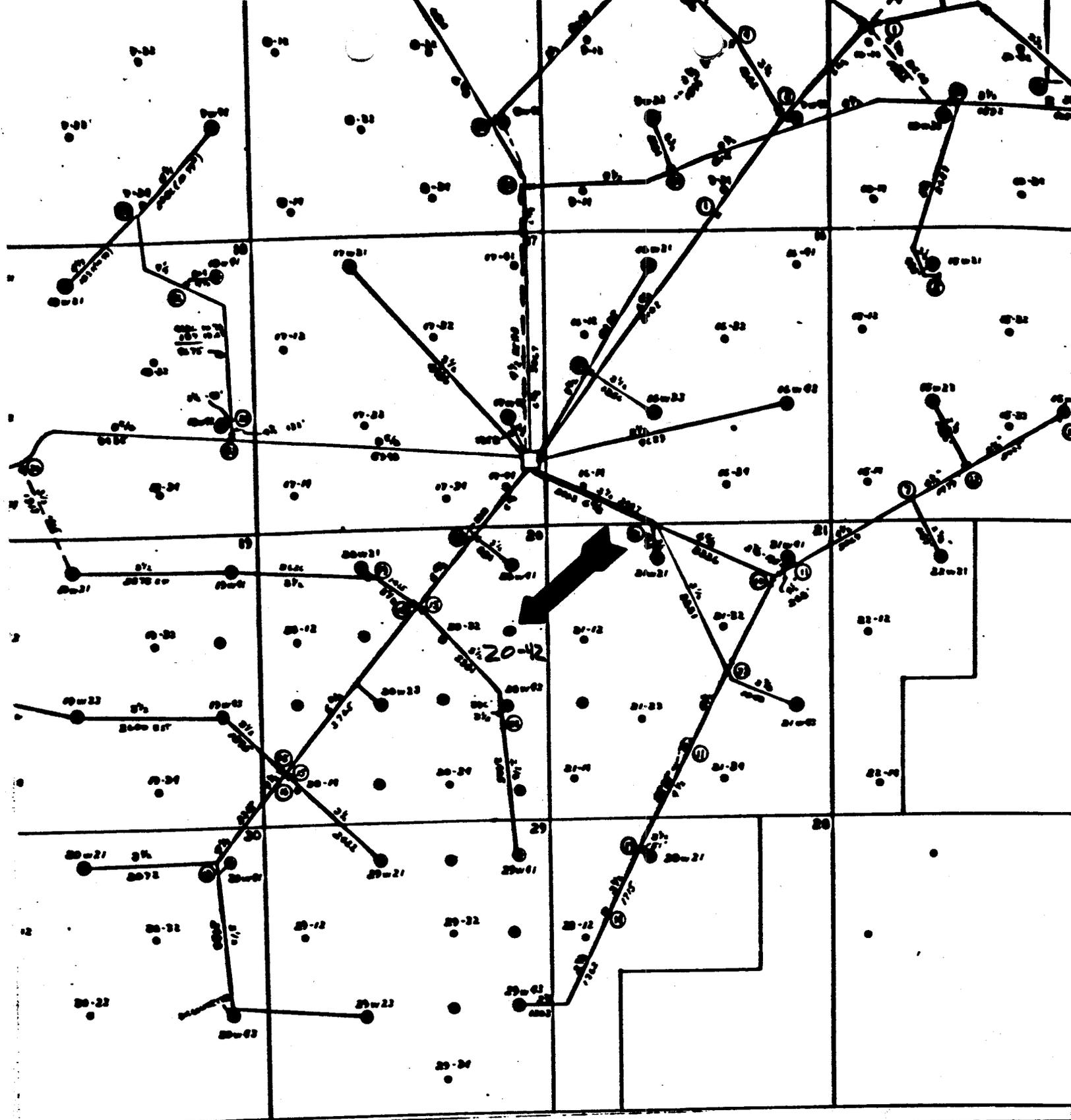
NO.	REVISION	BY	DATE	CHKD	APPR
FOR BIDS	 PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA		JA NO.	FILE CO.	
FOR APPR			APE NO.	SCALE	
FOR CONST			22" = 1"		
DRAWN 3-13-64 BJM	RATHERFORD UNIT WELL 20-42 PROPOSED SE NE SEC 20 T41S-R24E SAN JUAN CO., UTAH		DWG NO.	SH NO.	
CHECKED					
APPD					



NO.	REVISION	BY	DATE	CHKD	APP'D
FOR BIDS	 PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA			44 NO. FILE CODE	
FOR APPL				AFE NO.	SCALE $2.2'' = 1m$
FOR CONST	RATHERFORD UNIT WELL 20-42 PROPOSED ROAD PLAT SE NE SEC 20 T41S-R24E SAN JUAN CO., UTAH			DWG NO.	SH NO.
DRAWN 3-13-84 BJM					
CHECKED					
APP'D					



1		Relocation of leadline		BJM	7-6-84		
NO.	REVISION			BY	DATE	CHKD	APP
FOR BIDS	PHILLIPS PETROLEUM COMPANY			BARTLESVILLE, OKLAHOMA		JA NO.	FILE CO.
FOR APPR	RATHERFORD UNIT WELL 20-42			PROPOSED LEADLINE PLAT		AFE NO.	SCALE
FOR CONST	SE NE SEC 20 T41S-R24E			SAN JUAN CO., UTAH		DWG NO.	27'
DRAWN	3-13-84	BJM				SH NO.	
CHECKED							
APP'D							



NO.	REVISION	BY	DATE	CHKD	APPD
FOR BIDS	 PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA		JA NO.	FILE CODE	
FOR APPR			AFE NO.	SCALE 2.2" = 1/4"	
FOR CONST			DWG NO. SH NO.		
DRAWN 7-6-84 BJM	RATHERFORD UNIT WELL 20-42 INJECTION LINES SE NE SEC. 20 T41S-R24E SAN JUAN CO., UTAH				
CHECKED					
APP'D					

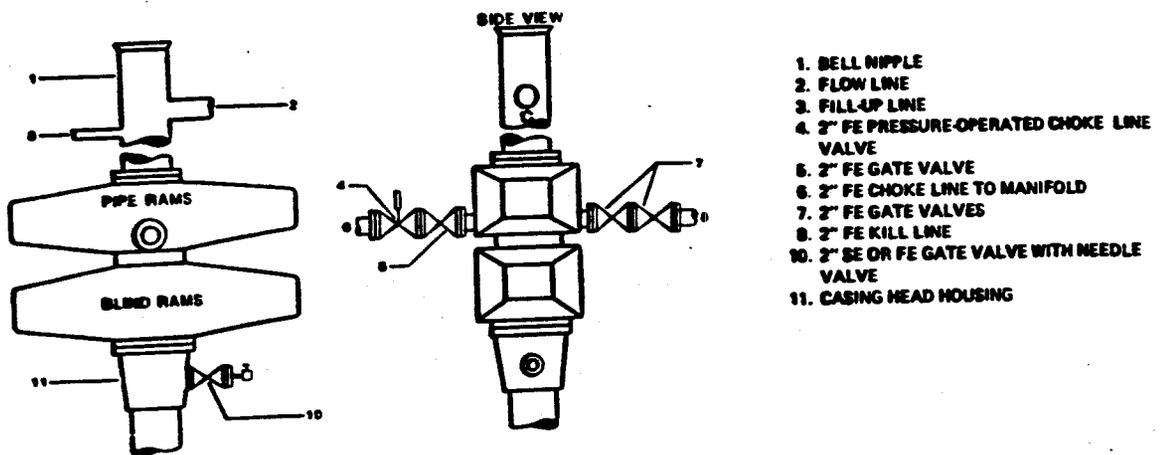


Figure 7-10. Standard Hydraulic Blowout Preventer Assembly
 (2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

Well Control 4
 January/83

PHILLIPS PETROLEUM COMPANY



Page 251
 Section II

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:ga
Attach.

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

12/8/65
HSC

HSC

fu

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

RECEIVED
APR 22 1962
PRODUCTION
DEPARTMENT

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
403 STATE CAPITOL
SALT LAKE CITY, UTAH

ADDRESS ALL COMMUNICATIONS TO:

js
Encl: Copy of approved application

CHANGE APPLICATION APPROVED

(Form for pending original Application)

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER _____

UNIT Rathewood

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

July 27, 1984

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

RE: Well No. Rutherford Unit 20-42
SENE Sec. 20, T. 41S, R. 24E
1980' FHL, 660' FEL
San Juan County, Utah

Gentlemen:

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

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

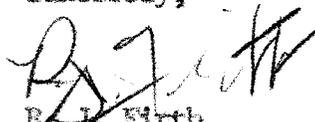
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2
Phillips Oil Company
Well No. Rutherford Unit 20-42
July 27, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31051.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

RJF/as

cc: Branch of Fluid Minerals
Bureau of Indian Affairs

Enclosures

**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

2. NAME OF OPERATOR
Phillips Oil 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: 1980' FNL/ 660' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
14-20-603-407

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.
#20-42

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 | 13. STATE
San Juan | Utah

14. API NO.
43-037-31051

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4770' 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	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other)	<input type="checkbox"/>	<input type="checkbox"/>

(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.)*

Drilled 17½" conductor hole to 116' on 9-4-84. Ran 115.55' 13-3/8" 54.5# K-55 Buttress conductor casing. Set @ 115.55' cemented with 177 cu.ft. (150 sx) Class B to surface. Finished job and moved out rat hole driller 9-5-84.

Spudded well 9-7-84 with Energy Search Drlg Rig #2. Drilled 12½" hole to 1599'. Ran 1598.89' 9-5/8" 36# K-55 ST&C surface casing. Cemented w/726 cu.ft. (300 sx) Class B w/20% Diacel D; tailed with 354 cu.ft. (300 sx) Class B. Cemented annulus with 53 cu.ft. (45 sx) Class B through 1" pipe. Job complete 9-8-84.

Drilled 8-3/4" hole to 5650'. Ran 5650' 7" 23# & 26# K-55 LT&C; cemented with 1144 cu.ft. (400 sx) Class B w/20% Diacel; tailed with 360 cu.ft. (300 sx) Class B with 18% salt. Pressure tested casing to 1500 psi. Job complete 9-28-84. Plug back total depth 5614'. TOC @ 1720'.

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 10-25-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

- CONDITIONS OF APPROVAL, IF ANY:
- 6 - BLM, Farmington, NM
 - 2 - Utah O&GCC, SLC
 - 1 - Casper
 - 1 - File (RC)
 - 1 - J. Weichbrodt

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

2. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RENVR. Other _____

3. NAME OF OPERATOR
Phillips Oil Company

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

5. LOCATION OF WELL (Report location clearly and in accordance with any State Regulations)
At surface 1980' FNL & 660' FEL, SE NE

At top prod. interval reported below

At total depth
API No. 43-037-31051

14. PERMIT NO. --- DATE ISSUED 17-27-84

15. DATE SPUNDED 9/7/84 16. DATE T.D. REACHED 9/20/84 17. DATE COMPL. (Ready to prod.) 10/11/84 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) GR 4770' RKB 4783.5' 19. ELEV. CASINGHEAD ---

20. TOTAL DEPTH, MD & TVD 5650' 21. PLUG, BACK T.D., MD & TVD 5614' 22. IF MULTIPLE COMPL., HOW MANY? --- 23. INTERVALS DRILLED BY --- ROTARY TOOLS 0 - 5650' CABLE TOOLS ---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5560-5570' Desert Creek Zone I 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN FDC-CNL, DLL, Spectral-GR 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#	115'	17-1/2"	79 ft ³ Class B	---
9-5/8"	36#	1599'	12-1/4"	738 ft ³ Class B	---
7"	26# & 23#	5650'	8-3/4"	1314 ft ³ Class B	---

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
---	---	---	---	---	2-7/8"	5292'	5292'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5560-5570'	Acidized w/4000 gal 28% FE Acid, w/rock salt & benzoic acid flakes as divertant.

31. PERFORATION RECORD (Interval, size and number)
5560-5570', 2 SPF w/4" Hollow Steel Carrier Gun.

32. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
10/11/84	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/16/84	24	20/64"	---	151	82	0	543

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
200	---	---	151	82	0	40

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

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 October 24, 1984

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(New info on reverse side)

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

8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

2. TYPE OF COMPLETION: NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. REMVR. Other _____

3. NAME OF OPERATOR
Phillips Oil Company

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

5. LOCATION OF WELL (Report location clearly and in accordance with the State local regulations)
At surface 1980' FNL & 660' FEL, SE NE
At top prod. interval reported below
At total depth

6. PERMIT NO. API #43-037-31051
DATE ISSUED 17-27-84

7. ELEVATIONS (OF, RKB, RT, GR, ETC.)*
GR 4770' RKB 4783.5'

8. TOTAL DEPTH, MD & TVD 5650'
9. PLUG BACK T.D., MD & TVD 5622'

10. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5560-5586' Desert Creek Zone I

11. TYPE ELECTRIC AND OTHER LOGS RUN
RDC-CNB, DLB, Spectral-GR, CBI

12. 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#	115'	17-1/2"	177 ft ³ Class B	--
9-5/8"	36#	1599'	12-1/4"	1133 ft ³ Class B	--
7"	26# & 23#	5650'	8-3/4"	1504 ft ³ Class B	--

13. LINER RECORD

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

14. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5292'	5292'

15. PERFORATION RECORD (Interval, size and number)

5570-5586', 2 SPF, 4" Hollow Steel Carrier Gun.
5560-5570', 2 SPF, 4" Hollow Steel Carrier Gun.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5560-5586'	Acidized w/4000 gal 28% FE Acid, w/rock salt & benzoic acid flakes as divertant.

17. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
10/11/84	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/16/84	24	20/64"	→	151	82	0	543

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
200	--	→	151	82	0	40

18. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Sold

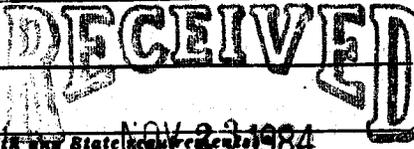
19. LIST OF ATTACHMENTS
None

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

SIGNED A. F. Stuart TITLE Area Manager DATE 11/20/84

(DIST. ON BACK) *(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.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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.
20-42

9. API Well No.
43-037-31051

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN, UT

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 SEP 20 1993

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
MOBIL EXPLORATION & PRODUCING US AS AGENT FOR MPTM/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)
1980 FNL; 660 FEL SE/NE SEC.20, T41, R24E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <u>WORKOVER</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)*

9-09-93 MIRU POOH W/RODS NU BOP POOH W/PROD TBG.
9-10-93 PERF 7 CSG W/4 SPF 5586 - 5610, 5560 - 86. PKR SET AT 5500. ACDZ PERFS 5560 - 5610 W/5000 GAL 15% HCL.
9-11-93 ND BOP SET TAC AT 5375. & SN AT 5563'. RDMO.

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

Signed Shirley Todd SHIRLEY TODD Title ENV. & REG TECHNICIAN Date 9-14-93

(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.

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

ACCOUNT NUMBER: N0772

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

RECEIVED

AUG 16 1993

REPORT PERIOD (MONTH/YEAR):

6 / 93

DIVISION OF
OIL, GAS & MINING

AMENDED REPORT (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entry	Location				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 Konkell

Telephone Number: 505 599-3452

✓ 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
✓ 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
✓ 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
✓ 24W-21	43-037-16429	14-20-603-247	SEC. 24, T41S, R24E	4695' FSL; 3300' FEL
✓ 24W-23	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
✓ 3-34	NA 4302715711	NA 14206034043	NA sec. 9, T. 41S, R. 24E	NA SW/SE 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/NE 2140' 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

paid

paid

paid

paid

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

<p>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.)</p>		<p>5. LEASE DESIGNATION & SERIAL NO.</p>
<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO TRIBAL</p>
<p>2. NAME OF OPERATOR MOBIL OIL CORPORATION</p>		<p>7. UNIT AGREEMENT NAME RATHERFORD UNIT</p>
<p>3. ADDRESS OF OPERATOR P. O. BOX 633 MIDLAND, TX 79702</p>		<p>8. FARM OR LEASE NAME</p>
<p>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</p>		<p>9. WELL NO.</p>
<p>14. API NO.</p>		<p>10. FIELD AND POOL, OR WILDCAT GREATER ANETH</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</p>
<p>12. COUNTY SAN JUAN</p>		<p>13. STATE UTAH</p>

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SEP 13 1993
DIVISION OF OIL, GAS & MINING

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:																				
<table style="width:100%;"> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> </tr> <tr> <td>(Other) <input type="checkbox"/></td> <td></td> </tr> </table>	TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		<table style="width:100%;"> <tr> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td colspan="2">(Other) <u>CHANGE OF OPERATOR</u> <input type="checkbox"/></td> </tr> <tr> <td colspan="2">(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</td> </tr> </table>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	(Other) <u>CHANGE OF OPERATOR</u> <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>																				
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SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>																				
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SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>																				
(Other) <u>CHANGE OF OPERATOR</u> <input type="checkbox"/>																					
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)																					
<p>APPROX. DATE WORK WILL START _____</p>	<p>DATE OF COMPLETION _____</p>																				

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:

MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

L.S. SHEFFIELD
~~BRIAN BERRY~~
~~MEPNA MOBIL~~
~~POB 219031 1807A RENTWY~~ *P.O. DRAWER 6*
 DALLAS TX 75221-9031 *CORTEZ, Co. 81321*

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 7 / 93

AMENDED REPORT (Highlight Changes)

**931006 updated. jlc*

ENTITY NUMBER	PRODUCT	GRAVITY	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS				ENDING INVENTORY
		BTU			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								
	OIL								
	GAS								
TOTALS				249710	243825	5885			

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SEP 13 1993

DIVISION OF OIL, GAS & MINING

COMMENTS: *PLEASE NOTE ADDRESS change. MOBIL ASSOC 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.

Name and Signature: *L. S. Sheffield*

Date: *9/5/93*
 Telephone Number: *303 565 2212*
244 588 2578

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.

File Ratherford Unit (GC)

RECEIVED
BLM

JUL 27 AM 11:44

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

070 FARMINGTON, NM

ARES/543

JUL 26 1993

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

MINERAL	182
NO.	
DATE	
BY	
CLASS.	
FILE	
ALL COPY	
FILE	

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

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BLM

DESIGNATION OF OPERATOR

JUN 27 11:44

070 FARMINGTON, NM

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. [Signature]
Attorney-in-Fact

Mobil Exploration and Producing
North America Inc.

June 11, 1993

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

[Signature] ACTING AREA DIRECTOR
APPROVED BY TITLE DATE
7/9/93

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

<u>Tract Number</u>	<u>Description of Land</u>	<u>Serial Number and Effective Date of Lease</u>	<u>Tract Percentage Participation</u>
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

100.000000

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) _____

Other
OPERATOR CHANGE

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

2. DOGM Employee (name) L. CORDOVA (Initiated Call
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 OPERATED BY MEPNA, CURRENTLY

REPORTED OUT OF DALLAS (MCELMO CREEK).

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1	VFC/017-93
2	DES 58-111
3	VLC
4	RJFY
5	JFK
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.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

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

TO (new operator) M E P N A
 (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: <u>43037-31051</u>	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

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Reg. 8-20-93) (6/93 Prod. Rpt. 8-16-93)*
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Reg. 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: _____.
- Sec 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.
- Sec 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)*
- Sec 6. Cardex file has been updated for each well listed above. *(O&G wells 10-6-93) (Wiw's 10-26-93)*
- Sec 7. Well file labels have been updated for each well listed above. *(O&G wells 10-6-93) (Wiw's 10-26-93)*
- Sec 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)*
- Sec 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.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 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) no. Today's date _____ 1993. If yes, division response was made by letter dated _____ 1993.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 1993, 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.
- 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

- 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

931006 BIA/B/m Approved 7-9-93.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

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 20-42

9. API Well No.
43-037-31051

10. Field and Pool, or exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN, UT

SUBMIT IN TRIPLICATE

1. Type of Well

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)

1980' FNL, 660' FEL SE/NE; SEC 20, T41S, R24E

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

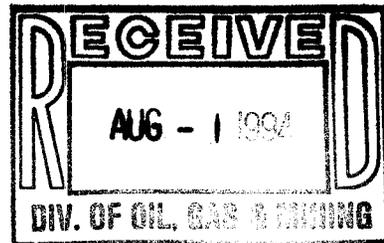
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other SIDETRACK
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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 ***

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8/5/94
BY: JAT Andrews
WELL SPACING: R649-2-3



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

Signed LO Sims for Shirley Joo 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 $\pm 100'$ above the top perforation. RD wireline truck.
8. TIH with star guide and stop $\pm 30'$ 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" DF 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.

Rutherford Unit 20-42

PRODUCER
7-22-93
TVE

Present Setting

<B: 4783.5' Z: 13.5' AGL GL: 4770'

13-3/8", 54.5#/ft Csg
Cmtd w/ 150 sx cmt.

115'

9-5/8", 36#/ft K-55
Cmtd w/ 645 sx CI B.
Circ to surf.

1599'

Tubing Detail:

162 jts 2-7/8" 6.5# tbg
2-7/8" x 7" TAC
7 jts 2-7/8" 6.5# tbg
2.5" cup type SN
perfed sub (bull plugged)

Rod Detail:

1.5" x 22' PR w/ 12' liner
7/8" pony rods as needed
(84) 7/8" steel rods
(138) 3/4" steel rods
2.5" x 1.75" x 18' pump

TAC @ 5390'

Perfs:

4 SPF 5560-70'

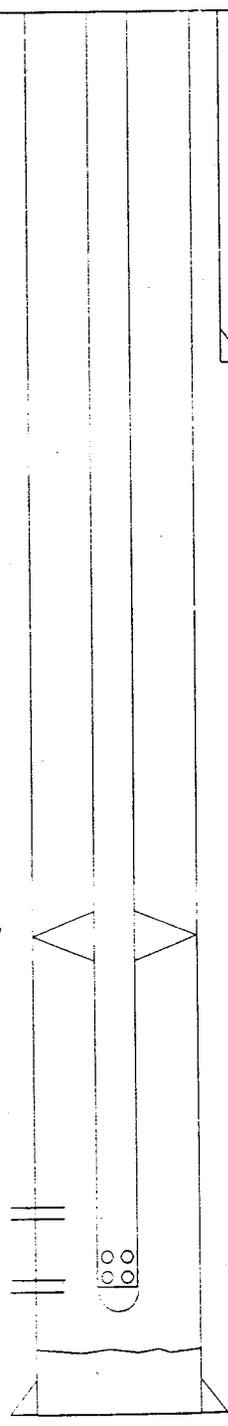
4 SPF 5570-86'

SN @ +5608'

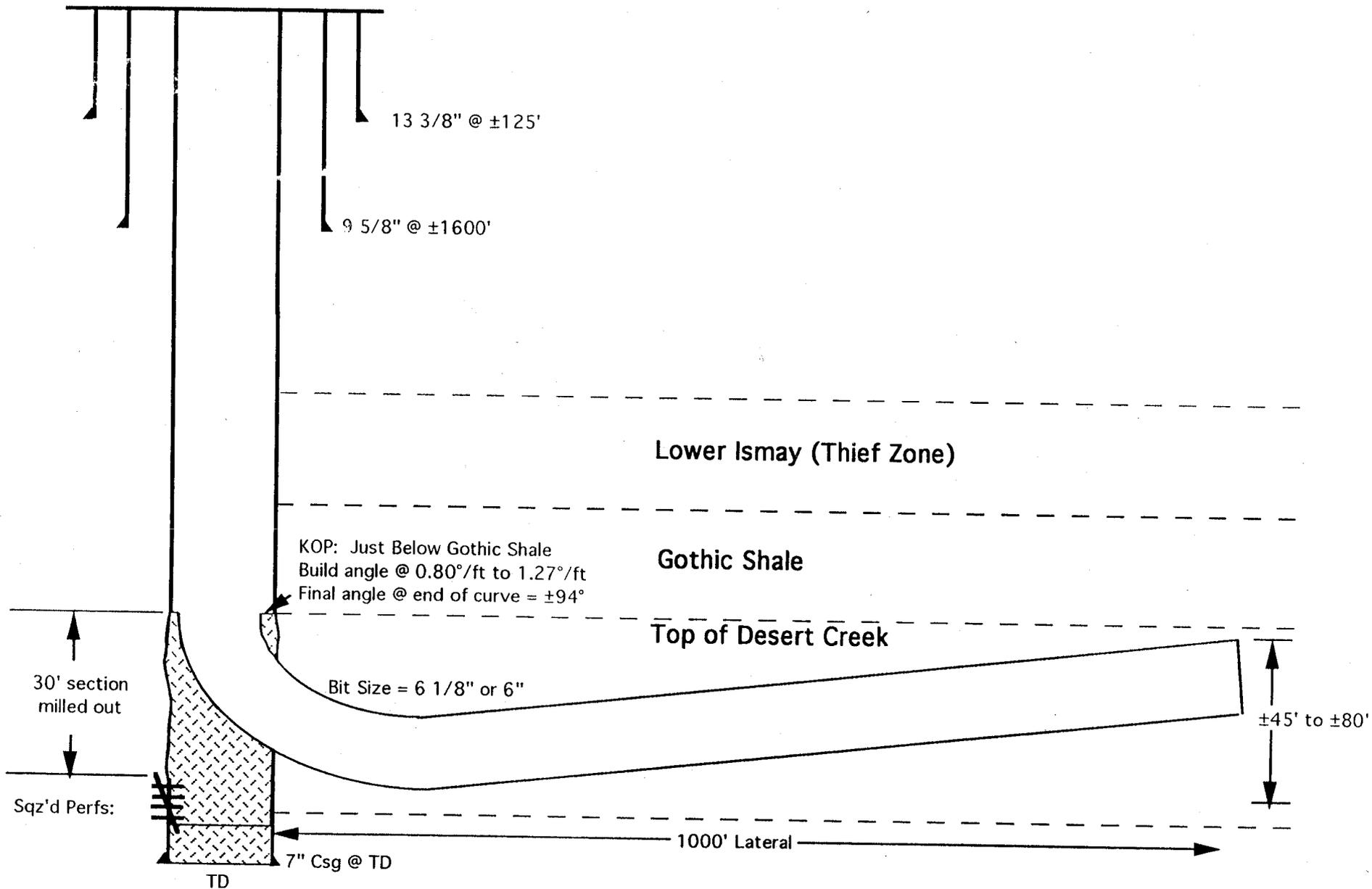
PBTD: 5622'

7", 26# & 23#/ft K-55
Cmtd w/ 700 sx CI B.

TD: 5650'



GENERIC HORIZONTAL RATHERFORD UNIT PRODUCER WITH 7" CASING



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Rutherford Unit 20-42

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7-22-93
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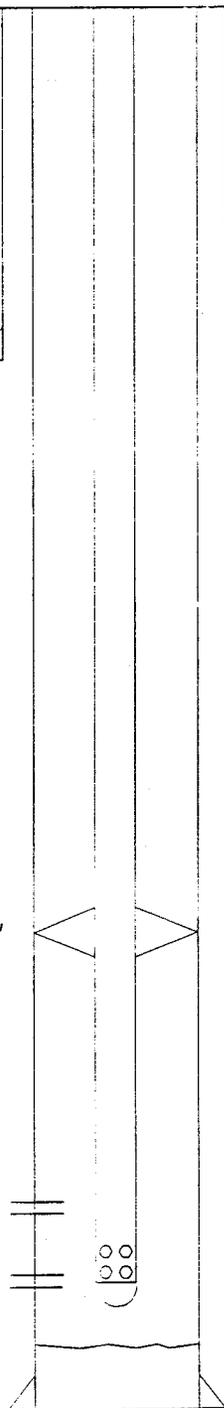
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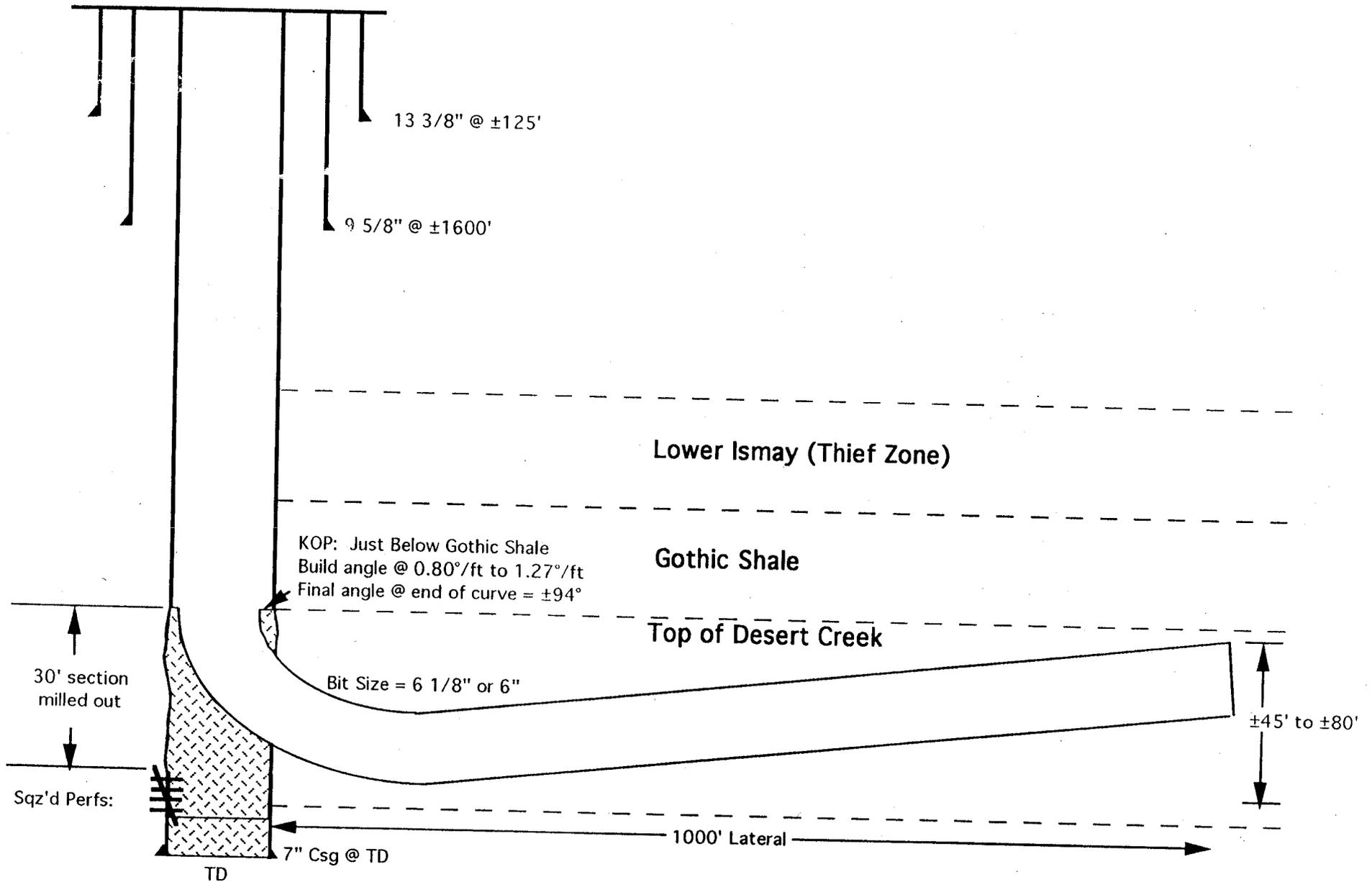
PBTD: 5622'

7", 26# & 23#/ft K-55
Cmtd w/ 700 sx CI B.

TD: 5650'



GENERIC HORIZONTAL RATHERFORD UNIT PRODUCER WITH 7" CASING



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/01/94

API NO. ASSIGNED: 43-037-31051

WELL NAME: RU 20-42 (RE-ENTRY)
OPERATOR: MOBIL EXPL & PROD CO. (N7370)

PROPOSED LOCATION:
SENE 20 - T41S - R24E
SURFACE: 1980-FNL-0660-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 _____)
 Potash (Y/N)
 Oil shale (Y/N)
 Water permit
(Number _____)
 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:

need BHL after drilling

STIPULATIONS:

1 BHL stipulation.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

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 20-42 Well, 1980' FNL, 660' FEL, SE NE, 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.



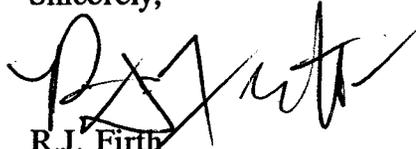
Page 2

Mobil Exploration & Producing U.S. As Agent for MEPNA
Ratherford Unit 20-42 Well
August 5, 1994

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 43-037-31051.

Sincerely,

A handwritten signature in black ink, appearing to read 'R.J. Firth', written over a printed name.

R.J. Firth
Associate Director

ldc

Enclosures

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

Record#	WELL_NAME	API_NUMBER	DATEAPPRVD	SPUD_DATE	COMPLTDATE	
✓ 2508	MCELMO CREEK O-10 (RE-ENTRY)	43-037-15967	06/28/95	1 1	1 1	Drl. & W1W
✓ 2509	MCELMO CREEK P-11 (RE-ENTRY)	43-037-15971	06/28/95	1 1	1 1	Drl. & W1W
✓ 2510	MCELMO CREEK Q-10 (RE-ENTRY)	43-037-15973	06/28/95	1 1	1 1	Drl. & W1W
✓ 2507	MCELMO CREEK P-09 (RE-ENTRY)	43-037-16367	06/28/95	1 1	1 1	Drl. & W1W
✓ 2143	RU 28-11 (RE-ENTRY)	43-037-30446	08/05/94	1 1	1 1	Drl. & POW
✓ 2144	RU 29-31 (RE-ENTRY)	43-037-30914	08/05/94	1 1	1 1	Drl. & POW
✓ 2146	RU 20-33 (RE-ENTRY)	43-037-30931	08/05/94	1 1	1 1	Drl. & POW
✓ 2147	RU 29-42 (RE-ENTRY)	43-037-30937	08/05/94	1 1	1 1	Drl. & POW
✓ 2148	RU 20-42 (RE-ENTRY)	43-037-31051	08/05/94	1 1	1 1	Drl. & POW

APDs Approved
 - Not yet
 Spudded

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____
(Location) Sec ___ Twp ___ Rng ___
(API No.) _____

Suspense
(Return Date) _____
(To - Initials) _____

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) - 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).

Mobil Oil Corporation

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

May 14, 1986

RECEIVED
MAY 16 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

DIVISION OF
OIL, GAS & MINING

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,



CNE/rd
CNE8661

R. D. Baker
Environmental Regulatory Manager

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing	
1- LVC	7-PL <i>del</i>
2-LWP	8-SJ
3- DTB	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) <u>MOBIL EXPLOR & PROD</u>	FROM (former operator) <u>M E P N A</u>
(address) <u>C/O MOBIL OIL CORP</u>	(address) <u>C/O MOBIL OIL CORP</u>
<u>PO DRAWER G</u>	<u>PO DRAWER G</u>
<u>CORTEZ CO 81321</u>	<u>CORTEZ CO 81321</u>
phone <u>(303) 564-5212</u>	phone <u>(303) 564-5212</u>
account no. <u>N7370</u>	account no. <u>N7370</u>

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

Name: <u>** SEE ATTACHED **</u>	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	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. *8-21-95*
- 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.

ENTITY REVIEW

- Lee* 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* *Lee* 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* *DTS* *8/5/95* 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

- KDR* 1. All attachments to this form have been microfilmed. Date: March 13 1996.

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 LIC F5/Not necessary!

3-5-96

DOG-m U
DATE

FEB 15 1996

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

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Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

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)
**1980' FNL, 660' FEL
SEC. 20, T41S, R24E**

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

6. If Indian, Allottee or Tribe Name
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7. If Unit or CA, Agreement Designation
RATHERFORD UNIT

8. Well Name and No.
20-42

9. API Well No.
43-037-31051

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
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other CANCEL SIDETRACK
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)*

CANCEL SIDETRACK WORKOVER APPROVED SEPTEMBER 15, 1995

14. I hereby certify that the foregoing is true and correct
Signed Shelley Robertson Title **ENV. & REG. TECHNICIAN** Date **2-9-96**

(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

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.

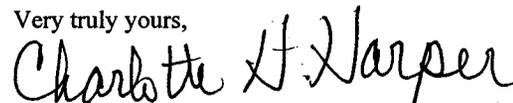
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

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

RECEIVED

JUN 29 2001

DIVISION OF
OIL, GAS AND MINING



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

~~XXXXXXXXXXXXXX~~
Navajo Area Office
NAVAJO REGION

P.O. Box 1060
Gallup, New Mexico 87305-1060

AUG 30 2001

IN REPLY REFER TO:

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,

DEAN 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 1	<i>DB/MC</i>
NATV AMM COORD	_____
SOLID MIN TEAM	_____
PERSONNEL TEAM	<i>2</i>
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

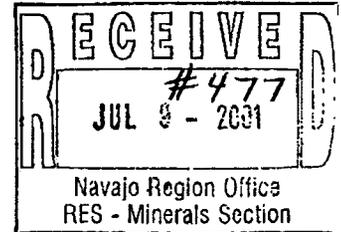
AS 7/12/2001
SH
543
File

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.

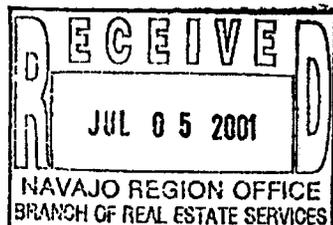
If you have any questions, please contact Alex Correa at (713) 431-1012.

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 Issa.

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	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Vice President	<u>K.T. Koonce</u>	Address <u>800 Bell Street Houston, TX 77002</u>
Secretary	<u>F.L. Reid</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Treasure	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

DIRECTORS

Name	<u>D.D. Humphreys</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>P.A. Hanson</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>T.P. Townsend</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>B.A. Maher</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>F.A. Risch</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>

Sincerely,



Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is true 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



Signature

AGENT AND ATTORNEY IN FACT

Title

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.

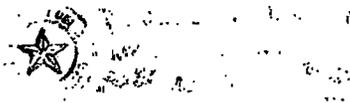
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

S. A. Sullivan
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

100 West Loop South, Suite 1900, Houston, Texas 77027-3301
Telephone: (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.

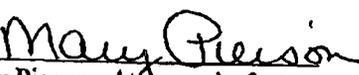
ExxonMobil Oil Corporation

By:



FEDERAL INSURANCE COMPANY

By:



Mary Pierson, Attorney-in-fact



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
Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson
Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.
County of Somerset

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, 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 Companies in the presence of said Notary Public.



Notary Public State of New Jersey
No. 2231647
Commission Expires Oct 28, 2004

Karen A. Price
Notary Public

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 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
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

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
MOBIL OIL CORPORATION

CSC 45

(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.

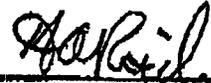
CSC
CSC

5184334741

06/01 '01 08:47 NO.410 04/05
06/01 '01 09:06 NO.133 03/04

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.

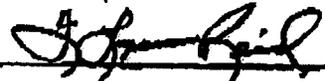
IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.



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.



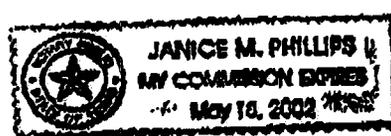
F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]



NOTARY PUBLIC, STATE OF TEXAS



CSC
CSC

5184334741

06/01 '01 09:01 NO.411 02/02
06/01 '01 09:06 NO.152 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 by: EXXONMOBIL CORPORATION
(Name)

FILED JUN 01 2001

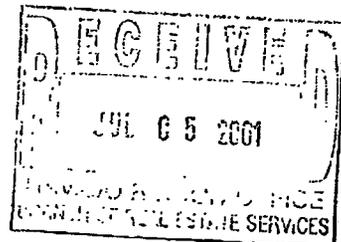
6959 Las Colinas Blvd.
(Mailing address)

TAX \$ _____
BY: *SAC*

Irving, TX 75039-2298
(City, State and Zip code)

ny / Albany

Cost Reg # 165578 MPJ



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**



A handwritten signature in black ink, appearing to read "J. Heub", with a long horizontal line extending to the right.

Special Deputy Secretary of State

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 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:

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: <u>6/1/2006</u>	
FROM: (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	TO: (New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600
CA No.	Unit: RATHERFORD

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
- If **NO**, the operator was contacted on:
- (R649-9-2) Waste Management Plan has been received on: requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- 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
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- 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:

- Changes entered in the **Oil and Gas Database** on: 6/22/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/22/2006
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: 6/22/2006
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: PA002769
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/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:

- (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:

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

FORM 9

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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>See attached list</u>
2. NAME OF OPERATOR: <u>Resolute Natural Resources Company</u> <u>N2700</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Navajo Tribe</u>
3. ADDRESS OF OPERATOR: <u>1675 Broadway, Suite 1950</u> CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		7. UNIT or CA AGREEMENT NAME: <u>Ratherford Unit</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>See attached list</u>		8. WELL NAME and NUMBER: <u>See attached list</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		9. API NUMBER: <u>Attached</u>
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: <u>Greater Aneth</u>
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

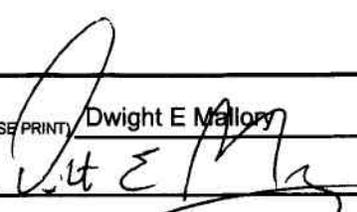
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> 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) <u>Dwight E Mallory</u>	TITLE <u>Regulatory Coordinator</u>
SIGNATURE 	DATE <u>4/20/2006</u>

(This space for State use only)

APPROVED 6127106
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
APR 24 2006
DIV. OF OIL, GAS & MINING

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

FORM 9

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: ExxonMobil Oil Corporation N1855		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ship Rock
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358		7. UNIT or CA AGREEMENT NAME: UTU68931A
4. LOCATION OF WELL FOOTAGES AT SURFACE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		8. WELL NAME and NUMBER: Ratherford 9. API NUMBER: attached
		10. FIELD AND POOL, OR WILDCAT: Aneth
		COUNTY: San Juan
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/1/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> 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) <u>Laurie Kilbride</u>	TITLE <u>Permitting Supervisor</u>
SIGNATURE	DATE <u>4/19/2006</u>

(This space for State use only) **APPROVED** 6/13/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
APR 21 2006
DIV. OF OIL, GAS & MINING

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	SENE	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	SENE	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	SENE	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	SENE	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	SENE	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	SENE	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	SENE	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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-353
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: RATHERFORD
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		8. WELL NAME and NUMBER: RATHERFORD UNIT 20-42
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		9. API NUMBER: 43037310510000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 0660 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 20 Township: 41.0S Range: 24.0E Meridian: S		9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		PHONE NUMBER: 303 534-4600 Ext

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/20/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute proposes to drill a horizontal lateral in the Ratherford Unit 20-42 from the current vertical wellbore to better drain the Desert Creek IA. The new lateral will be left open hole and will be produced commingled with perforations in the vertical wellbore. Attachment is the drilling plan, directional plan and plot, plat, wellbore diagrams and water permits.

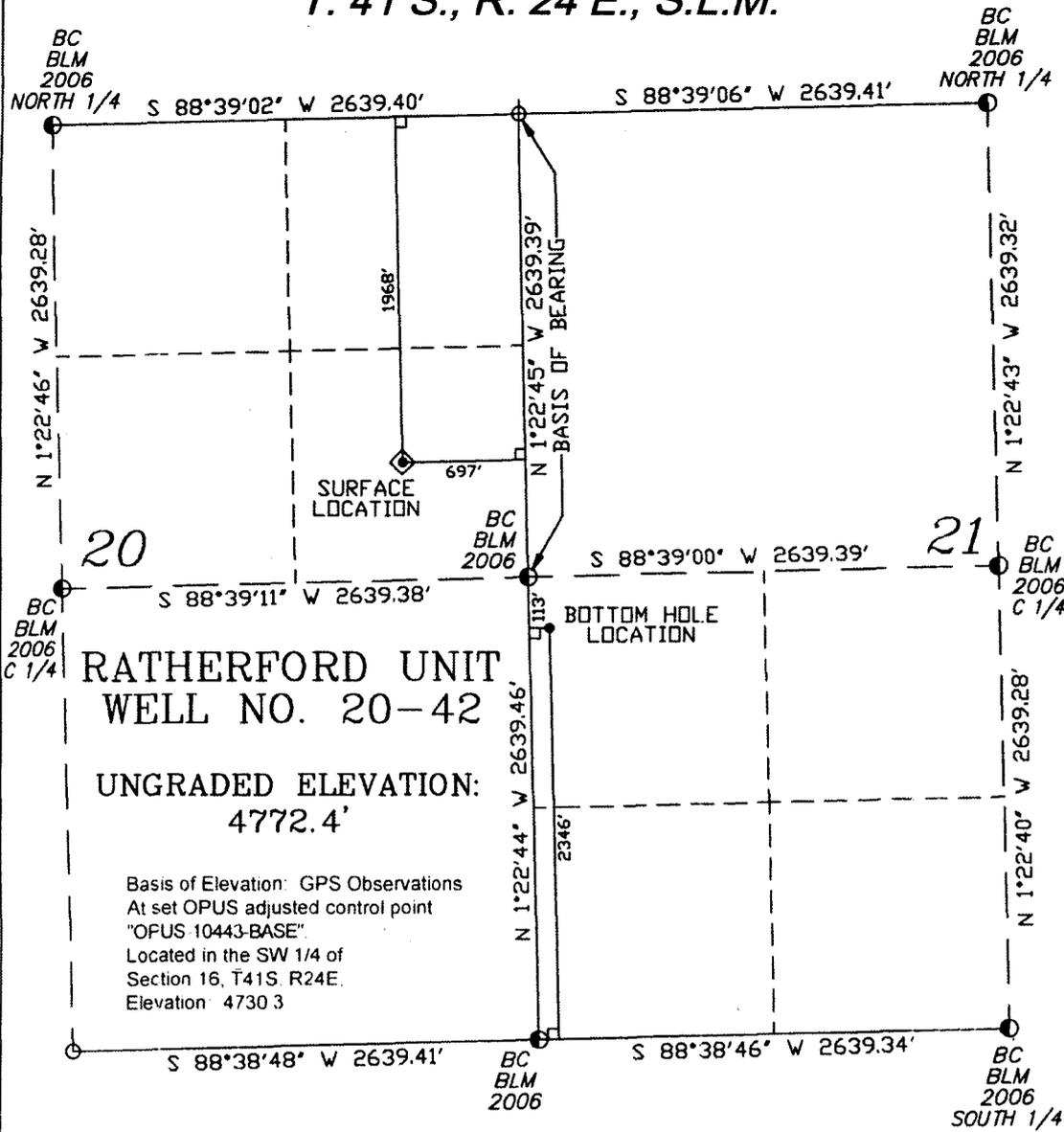
Approved by the Utah Division of Oil, Gas and Mining
 Date: 03-21-13
 By: *[Signature]*

BHL Sec. 2 Approval of this Action is Necessary
 4119189
 6512194
 37.206933
 -109.295891

Surr f
 4119481X
 6509664
 37.209609
 -109.298677

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 3/14/2013	

T. 41 S., R. 24 E., S.L.M.



SCALE: 1" = 1000'

GEO. SURFACE VALUES

LATITUDE (NAD 83)
NORTH 37.2096547°
LONGITUDE (NAD 83)
WEST 109.2987363°
LATITUDE (NAD 27)
NORTH 37.2096562°
LONGITUDE (NAD 27)
WEST 109.2980664°

NORTHING
205257.31
EASTING
2641223.49

GEO. BOTTOM HOLE VALUES

LATITUDE (NAD 83)
NORTH 37.2070061°
LONGITUDE (NAD 83)
WEST 109.2959512°
LATITUDE (NAD 27)
NORTH 37.2070076°
LONGITUDE (NAD 27)
WEST 109.2952814°

NORTHING
204312.30
EASTING
2642057.10

DATUM
UTAH SP SOUTH (1927)

**RATHERFORD UNIT
WELL NO. 20-42**

UNGRADED ELEVATION:
4772.4'

Basis of Elevation: GPS Observations
At set OPUS adjusted control point
"OPUS-10443-BASE"
Located in the SW 1/4 of
Section 16, T41S R24E.
Elevation: 4730.3

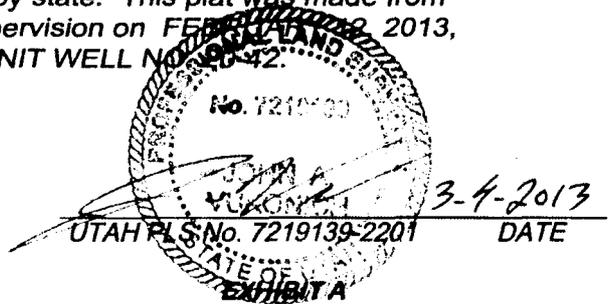


SURVEYOR'S STATEMENT:

I, John A. Vukonich, of Farmington, New Mexico, hereby state: This plat was made from notes taken during an actual survey under my direct supervision on FEBRUARY 2, 2013, and it correctly shows the location of RATHERFORD UNIT WELL NO. 20-42.

LEGEND

- ◆ SURFACE WELL LOCATION
- BOTTOM HOLE LOCATION
- CALCULATED POSITION
- ⊕ SECTION CORNER POSITION CALCULATED FROM WITNESS CORNER
- FOUND MONUMENT
- L DENOTES 90° TIE
- (C) CALCULATED



<p>UNITED FIELD SERVICES INC.</p>		<p>PLAT OF PROPOSED WELL LOCATION FOR RESOLUTE NATURAL RESOURCES COMPANY</p>
<p>P.O. BOX 3651 FARMINGTON, N.M. (505) 334-0408</p>	<p>SCALE: 1" = 1000'</p>	<p>SURFACE: 1968' F/NL & 697' F/EL, SECTION 20, BOTTOM HOLE: 2346' F/SL & 113' F/WL, SECTION 21, T. 41 S, R. 24 E, SALT LAKE MERIDIAN SAN JUAN COUNTY, UTAH</p>
	<p>JOB No. 10443</p>	
	<p>DATE: 02/25/13</p>	

ADDITIONAL SUPPORT INFORMATION
Sundry – Notice of Intent
Ratherford Unit 20-42H Producer
Drill Single Horizontal Lateral for DC-1A Reserves

1. Formation Tops

Existing Formation Tops (MD):

Upper Ismay:	5410'
Lower Ismay:	5497'
Gothic Shale:	5547'
Desert Creek IA	5559'

<u>Target Landing in IA</u>	5570'
Desert Creek IB est	5594'

2. Wellbore Diagrams –
 - Existing Wellbore Diagram – Attachment No. 1
 - Proposed Wellbore Diagram – Attachment No. 2
3. BOP Diagram and Equipment Description – Attachment No. 3
4. Directional Plan – Attachment No. 4
5. Drilling Mud Specifications
 - a. Proposed to drill lateral with N2 foamed fresh water fluid, in an underbalanced situation, or if conditions warrant,
 - b. CaCl₂ brine water will be used, and if this will not control formation pressure during the drilling operations,
 - c. Drilling mud with a salt polymer will be used if required for control of formation pressure during the drilling operations

Ratherford Unit 20-42H
1968' FNL & 697' FEL
Sec 20, T41S, R24E
San Juan County, Utah
API 43-037-31051

Job Scope – Drill a horizontal lateral from the current vertical wellbore to better drain the Desert Creek IA. The new lateral will be left open hole and will be produced commingled with perforations in the vertical wellbore.

Procedure: (Sundry Notice of Intent)

1. MIRU Well Service Unit.
2. Pull & LD rods & pump.
3. NU BOP, Pull production tubing & BHA.
4. Make cleanout trip to ~5622' with bit & scraper.
5. Run Casing Inspection and Cement Bond Logs from PBD to surface.
6. Set plug for KOP at ~5350'. (Exact depth to be determined from csg inspection and CBL logs.)
7. RIH & set whipstock on plug & orient same.
8. Mill ~7' window in 7" casing for 5342' KOP.
9. Drill the curve & 1280' x 6-1/8" lateral to the SE, Azimuth ~139 degrees.
10. Acid stimulate the lateral & flow back the acid load volume.
11. Retrieve the whipstock & plug below it.
12. Run production tubing & BHA.

Sundry Number: 35614 API Well Number: 43037310510000

13. Run rods & insert pump.
14. ND BOPE, NU Wellhead & flow line.
15. RDMO Drilling rig.

RECEIVED: Mar. 14, 2013



Resolute Natural Resources

Ratherford Unit
Ratherford Unit 20-42
20-42H

Wellbore #1

Plan: Design #2

Standard Planning Report

01 February, 2013

RESOLUTE

NATURAL RESOURCES



Mesa West Directional
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Ratherford Unit 20-42
Company:	Resolute Natural Resources	TVD Reference:	Est. KB @ 4784.0usft
Project:	Ratherford Unit	MD Reference:	Est. KB @ 4784.0usft
Site:	Ratherford Unit 20-42	North Reference:	Grid
Well:	20-42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1	Job #:	
Design:	Design #2		

Project	Ratherford Unit		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah South 4303		Using geodetic scale factor

Site	Ratherford Unit 20-42				
Site Position:		Northing:	205,284.16 usft	Latitude:	37° 12' 35.028 N
From:	Lat/Long	Easting:	2,641,221.80 usft	Longitude:	109° 17' 53.052 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.35 °

Well	20-42H					
Well Position	+N/-S	0.0 usft	Northing:	205,284.16 usft	Latitude:	37° 12' 35.028 N
	+E/-W	0.0 usft	Easting:	2,641,221.80 usft	Longitude:	109° 17' 53.052 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	4,770.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/03/2013	10.38	63.53	50,635

Design	Design #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	139.32

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,342.0	0.00	0.00	5,342.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,700.1	90.00	139.32	5,570.0	-172.9	148.6	25.13	25.13	0.00	139.32	D2_Landing Pt. (20-4)
5,710.1	90.00	139.32	5,570.0	-180.5	155.1	0.00	0.00	0.00	0.00	
5,726.7	90.33	139.32	5,570.0	-193.1	166.0	2.00	2.00	0.01	0.23	
6,753.6	90.33	139.32	5,564.0	-971.8	835.3	0.00	0.00	0.00	0.00	D2_Toe (20-42)



Mesa West Directional
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Rutherford Unit 20-42
Company:	Resolute Natural Resources	TVD Reference:	Est. KB @ 4784.0usft
Project:	Rutherford Unit	MD Reference:	Est. KB @ 4784.0usft
Site:	Rutherford Unit 20-42H	North Reference:	Grid
Well:	20-42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1	Job #:	
Design:	Design #2		

Planned Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (m)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
KOP at 5342 TVD, BUR = 25°/100'											
5,342.0	0.0	0.0	5,342.0	-558.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5,360.0	4.5	139.3	5,360.0	-576.0	-0.5	0.5	0.7	25.1	25.1	0.0	
Hatch											
5,375.1	8.3	139.3	5,375.0	-591.0	-1.8	1.6	2.4	25.1	25.1	0.0	
5,380.0	9.5	139.3	5,379.8	-595.8	-2.4	2.1	3.2	25.1	25.1	0.0	
5,400.0	14.6	139.3	5,399.4	-615.4	-5.6	4.8	7.3	25.1	25.1	0.0	
Upper Ismay											
5,411.1	17.4	139.3	5,410.0	-626.0	-7.9	6.8	10.4	25.1	25.1	0.0	
5,420.0	19.6	139.3	5,418.5	-634.5	-10.0	8.6	13.2	25.1	25.1	0.0	
5,440.0	24.6	139.3	5,437.0	-653.0	-15.7	13.5	20.7	25.1	25.1	0.0	
5,460.0	29.7	139.3	5,454.8	-670.8	-22.6	19.5	29.9	25.1	25.1	0.0	
5,480.0	34.7	139.3	5,471.7	-687.7	-30.7	26.4	40.5	25.1	25.1	0.0	
5,500.0	39.7	139.3	5,487.7	-703.7	-39.9	34.3	52.6	25.1	25.1	0.0	
Lower Ismay											
5,512.4	42.8	139.3	5,497.0	-713.0	-46.1	39.6	60.8	25.1	25.1	0.0	
5,520.0	44.7	139.3	5,502.5	-718.5	-50.1	43.0	66.0	25.1	25.1	0.0	
5,540.0	49.8	139.3	5,516.0	-732.0	-61.2	52.6	80.7	25.1	25.1	0.0	
5,560.0	54.8	139.3	5,528.3	-744.3	-73.2	62.9	96.5	25.1	25.1	0.0	
5,580.0	59.8	139.3	5,539.1	-755.1	-86.0	73.9	113.3	25.1	25.1	0.0	
Gothic											
5,596.8	64.0	139.3	5,547.0	-763.0	-97.2	83.6	128.2	25.1	25.1	0.0	
5,600.0	64.8	139.3	5,548.4	-764.4	-99.4	85.4	131.0	25.1	25.1	0.0	
Gothic LSW											
5,617.0	69.1	139.3	5,555.0	-771.0	-111.2	95.6	146.7	25.1	25.1	0.0	
5,620.0	69.9	139.3	5,556.1	-772.1	-113.4	97.4	149.5	25.1	25.1	0.0	
DC-1A (top of Desert Creek)											
5,629.0	72.1	139.3	5,559.0	-775.0	-119.8	103.0	158.0	25.1	25.1	0.0	
5,640.0	74.9	139.3	5,562.1	-778.1	-127.8	109.9	168.6	25.1	25.1	0.0	
5,660.0	79.9	139.3	5,566.5	-782.5	-142.6	122.6	188.1	25.1	25.1	0.0	
5,680.0	84.9	139.3	5,569.1	-785.1	-157.7	135.5	207.9	25.1	25.1	0.0	
Start 10.0 hold at 5700.1 MD - Target landing within DC-1A - D2_Landing Pt. (20-42)											
5,700.1	90.0	139.3	5,570.0	-786.0	-172.9	148.6	228.0	25.1	25.1	0.0	
Start DLS 2.0° at 2710.1 MD											
5,710.1	90.0	139.3	5,570.0	-786.0	-180.5	155.1	238.0	0.0	0.0	0.0	
Start 1026.9 hold at 5726.7 MD											
5,726.7	90.3	139.3	5,570.0	-786.0	-193.1	166.0	254.6	2.0	2.0	0.0	
5,800.0	90.3	139.3	5,569.5	-785.5	-248.6	213.7	327.9	0.0	0.0	0.0	
5,900.0	90.3	139.3	5,568.9	-784.9	-324.5	278.9	427.9	0.0	0.0	0.0	
6,000.0	90.3	139.3	5,568.4	-784.4	-400.3	344.1	527.9	0.0	0.0	0.0	
6,100.0	90.3	139.3	5,567.8	-783.8	-476.1	409.2	627.9	0.0	0.0	0.0	
6,200.0	90.3	139.3	5,567.2	-783.2	-552.0	474.4	727.9	0.0	0.0	0.0	



Mesa West Directional
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Rutherford Unit 20-42
Company:	Resolute Natural Resources	TVD Reference:	Est. KB @ 4784.0usft
Project:	Rutherford Unit	MD Reference:	Est. KB @ 4784.0usft
Site:	Rutherford Unit 20-42	North Reference:	Grid
Well:	20-42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1	Job #:	
Design:	Design #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (m)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,300.0	90.3	139.3	5,566.6	-782.6	-627.8	539.6	827.8	0.0	0.0	0.0
6,400.0	90.3	139.3	5,566.0	-782.0	-703.7	604.8	927.8	0.0	0.0	0.0
6,500.0	90.3	139.3	5,565.5	-781.5	-779.5	670.0	1,027.8	0.0	0.0	0.0
6,600.0	90.3	139.3	5,564.9	-780.9	-855.3	735.2	1,127.8	0.0	0.0	0.0
6,700.0	90.3	139.3	5,564.3	-780.3	-931.2	800.3	1,227.8	0.0	0.0	0.0
TD at 6753.6 MD, 5564.0 TVD - D2_Toe (20-42)										
6,753.6	90.3	139.3	5,564.0	-780.0	-971.8	835.3	1,281.5	0.0	0.0	0.0

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
D2_Landing Pt. (20-42)	0.00	0.00	5,570.0	-172.9	148.6	205,111.25	2,641,370.42	37° 12' 33.284 N	109° 17' 51.266 W	
- hit/miss target										
- plan hits target center										
- Point										
D2_Toe (20-42)	0.00	0.00	5,564.0	-971.8	835.3	204,312.33	2,642,057.08	37° 12' 25.227 N	109° 17' 43.013 W	
- plan hits target center										
- Point										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,508.0	1,508.0	Chinle estimate		0.00		
2,646.0	2,646.0	De Chelley		0.00		
2,810.0	2,810.0	Organ Rock		0.00		
5,375.1	5,375.0	Hatch		0.00		
5,411.1	5,410.0	Upper Ismay		0.00		
5,512.4	5,497.0	Lower Ismay		0.00		
5,596.8	5,547.0	Gothic		0.00		
5,617.0	5,555.0	Gothic LSW		0.00		
5,629.0	5,559.0	DC-IA (top of Desert Creek)		0.00		
5,700.1	5,570.0	Target landing within DC-IA		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
5,342.0	5,342.0	0.0	0.0	KOP at 5342 TVD, BUR = 25°/100'	
5,700.1	5,570.0	-172.9	148.6	Start 10.0 hold at 5700.1 MD	
5,710.1	5,570.0	-180.5	155.1	Start DLS 2.0° at 2710.1 MD	
5,726.7	5,570.0	-193.1	166.0	Start 1026.9 hold at 5726.7 MD	
6,753.6	5,564.0	-971.8	835.3	TD at 6753.6 MD, 5564.0 TVD	

Site: Ratherford Unit 20-42
 Well: 20-42H
 Wellbore: Wellbore #1
 Design: Design #2



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
5342.0	0.00	0.00	5342.0	0.0	0.0	0.00	0.00	0.0	KOP at 5342 TVD, BUR = 25°/100'
5700.1	90.00	139.32	5570.0	-172.9	148.6	25.13	139.32	228.0	Start 10.0 hold at 5700.1 MD
5710.1	90.00	139.32	5570.0	-180.5	155.1	0.00	0.00	238.0	Start DLS 2.0' at 2710.1 MD
5726.7	90.33	139.32	5570.0	-193.1	166.0	2.00	0.03	254.6	Start 1026.9 hold at 5726.7 MD
6753.6	90.33	139.32	5564.0	-871.8	838.3	0.00	0.00	1281.5	TD at 6753.6 MD, 5564.0 TVD

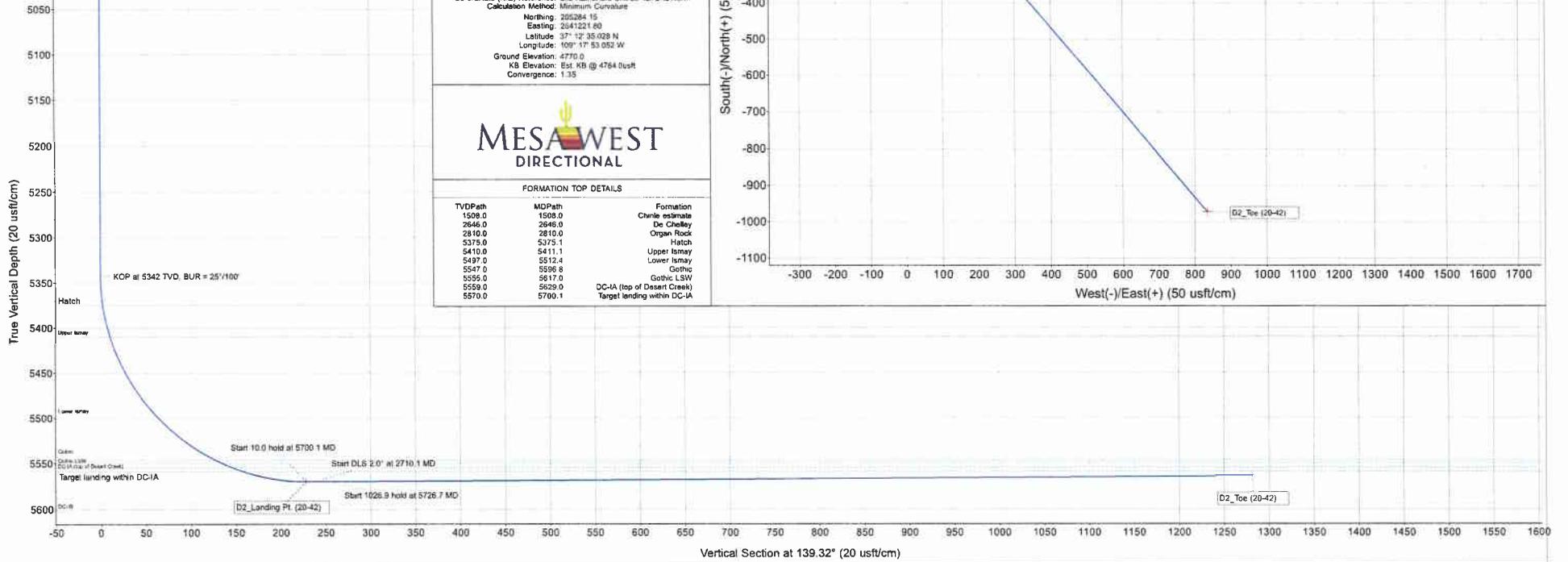
REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Site Ratherford Unit 20-42, Grid North
 Calculation Method: Minimum Curvature
 Northing: 205284.15
 Easting: 2641221.80
 Latitude: 37° 12' 35.028 N
 Longitude: 109° 17' 53.052 W
 Ground Elevation: 4770.0
 KB Elevation: Est KB @ 4764.0usft
 Convergence: 1.35

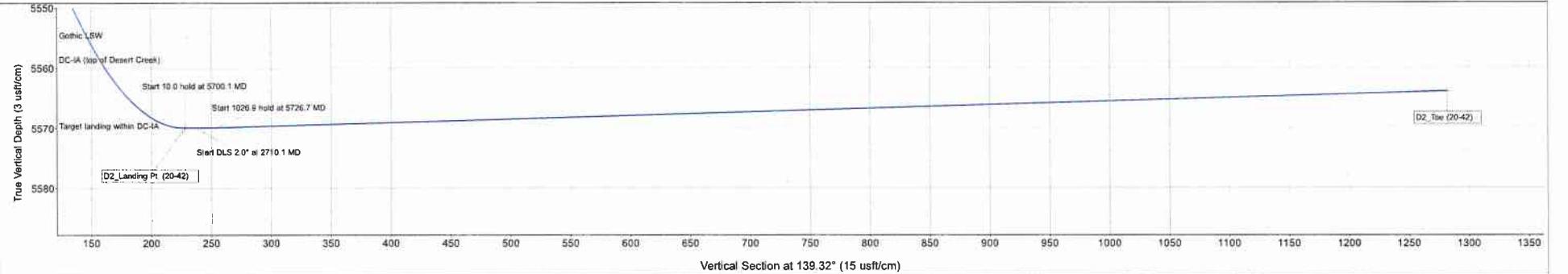


FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1508.0	1508.0	Chinle estimate
2846.0	2846.0	De Chelly
2810.0	2810.0	Organ Rock
5375.0	5375.1	Hatch
5410.0	5411.1	Upper Ismay
5497.0	5512.4	Lower Ismay
5547.0	5596.8	Gothic
5595.0	5617.0	Gothic LSW
5559.0	5629.0	DC-IA (top of Desert Creek)
5570.0	5700.1	Target landing within DC-IA



Vertical Section at 139.32° (20 usft/cm)



Vertical Section at 139.32° (15 usft/cm)

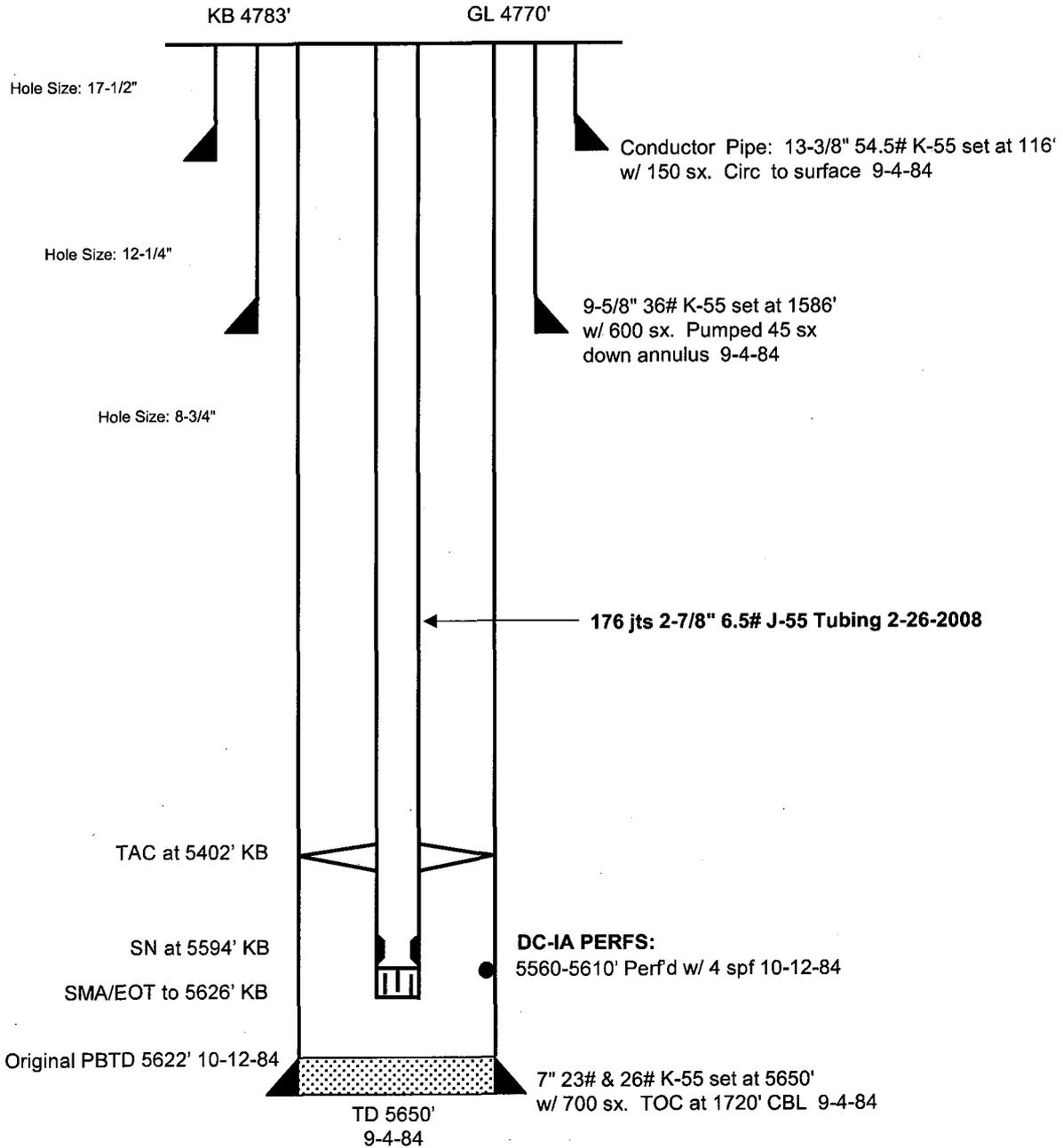


RATHERFORD UNIT # 20-42

PRODUCER

GREATER ANETH FIELD
1968' FNL & 697' FEL
SEC 20-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-31051
PRISM 0043104

Attachment 1 - Existing

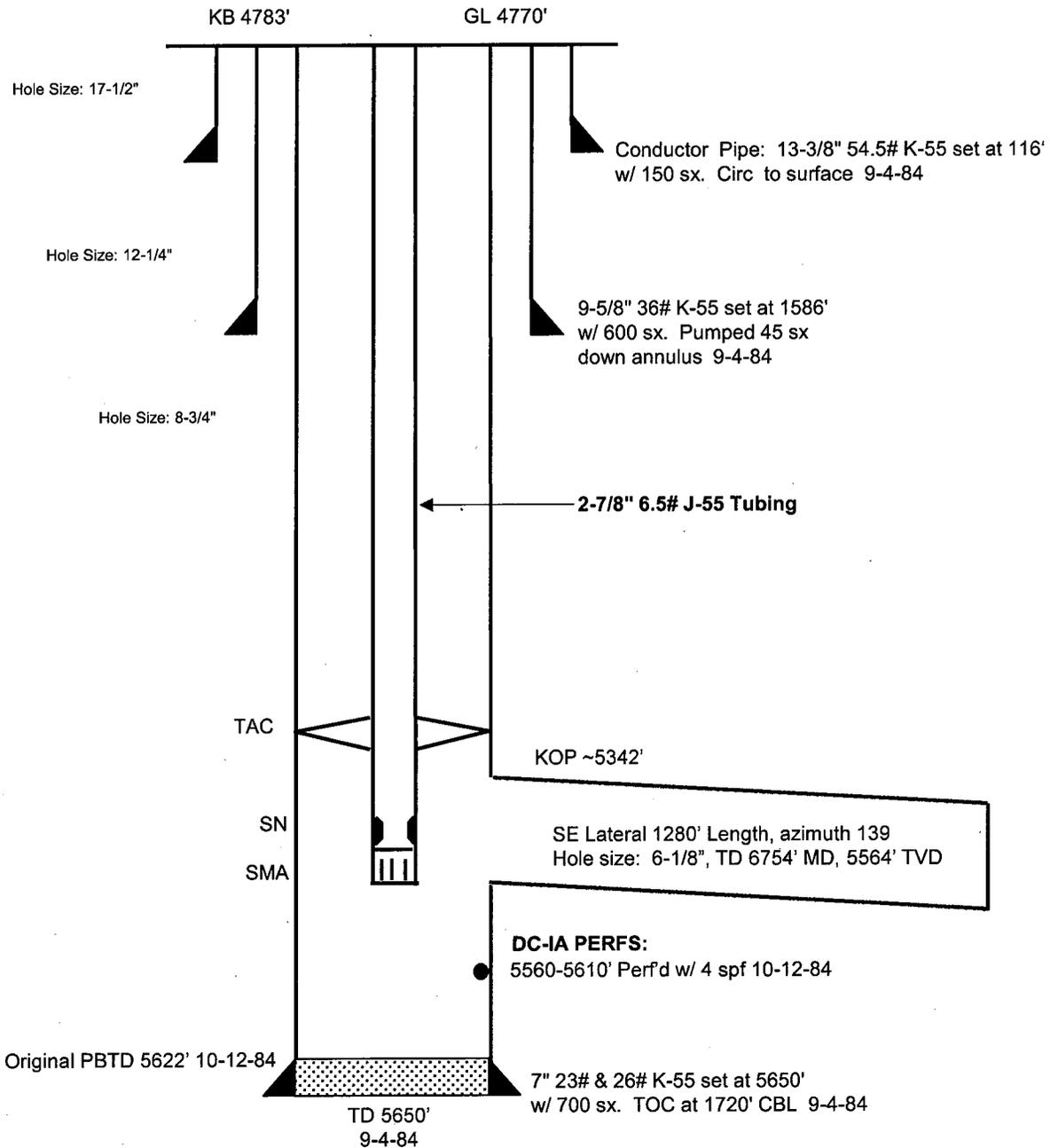


RATHERFORD UNIT # 20-42

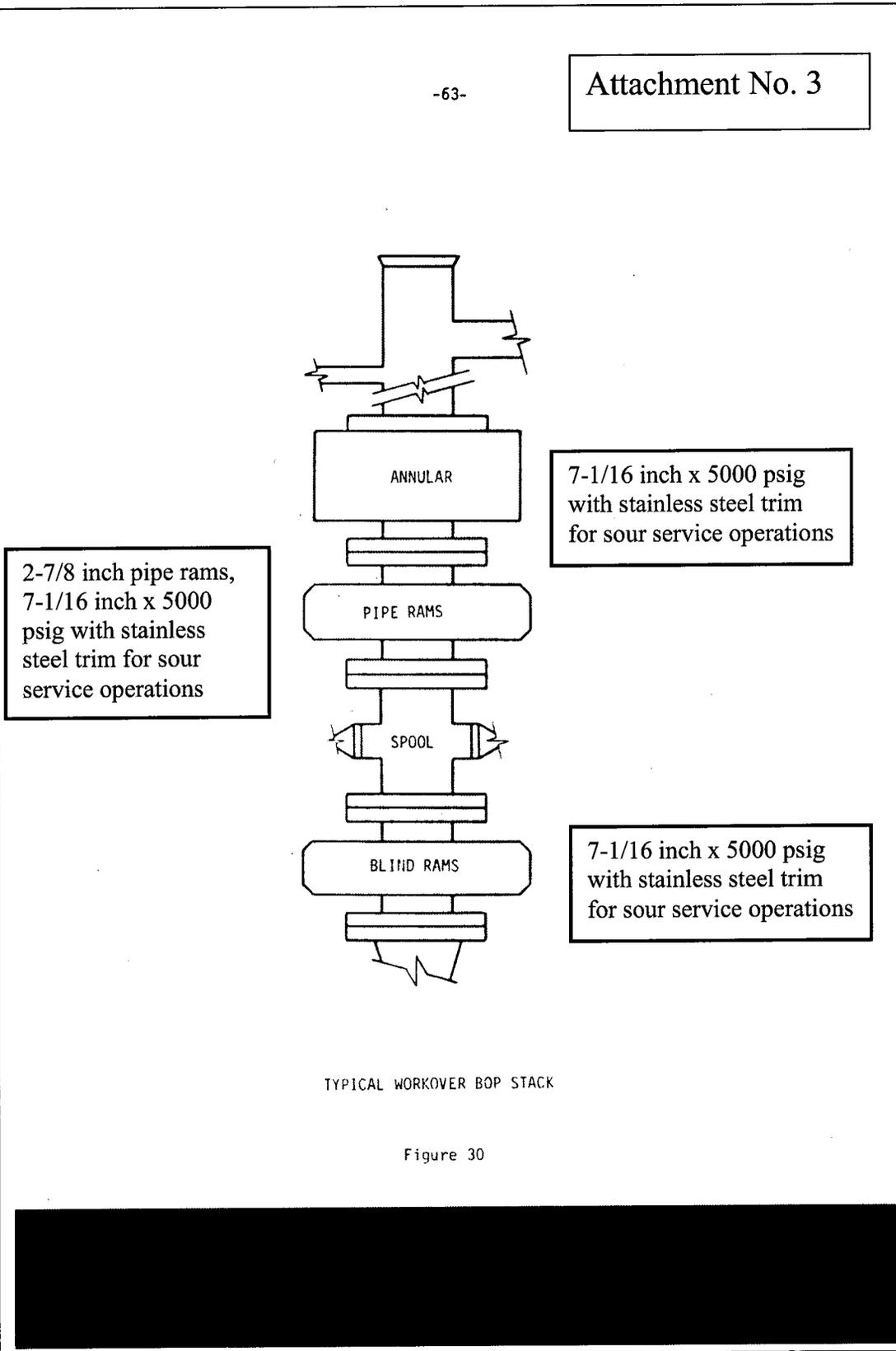
PRODUCER

GREATER ANETH FIELD
1968' FNL & 697' FEL
SEC 20-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-31051
PRISM 0043104

Attachment 2 - Proposed



Attachment No. 3



Sundry Number: 35614 API Well Number: 43037310510000

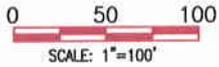
10/11/2006 10:44:00 AM

Well No.	WLF No.	WLF # Type	WLF # Type	Sec-1-Info	SFS Coordinates	Elev. (feet)	North (feet)	App #	Completed	Comments
Ratherford										
1	06-0614	96-496	97-224	5-41S-24E	37° 15' 31.5" N 109° 17' 56.5" W	66714E	412430	37-733	12/21/02	
2	06-0615	96-497	97-225	5-41S-24E	37° 15' 33.0" N 109° 17' 58.0" W	66715E	412430	37-733	12/21/02	
3	06-0616	96-498	97-226	5-41S-24E	37° 15' 34.5" N 109° 17' 59.5" W	66716E	412430	37-733	12/21/02	
4	06-0617	96-499	97-227	5-41S-24E	37° 15' 36.0" N 109° 18' 01.0" W	66717E	412430	37-733	12/21/02	
5	06-0618	96-500	97-228	5-41S-24E	37° 15' 37.5" N 109° 18' 02.5" W	66718E	412430	37-733	12/21/02	
6	06-0619	96-501	97-229	5-41S-24E	37° 15' 39.0" N 109° 18' 04.0" W	66719E	412430	37-733	12/21/02	
7	06-0620	96-502	97-230	5-41S-24E	37° 15' 40.5" N 109° 18' 05.5" W	66720E	412430	37-733	12/21/02	
8	06-0621	96-503	97-231	5-41S-24E	37° 15' 42.0" N 109° 18' 07.0" W	66721E	412430	37-733	12/21/02	
9	06-0622	96-504	97-232	5-41S-24E	37° 15' 43.5" N 109° 18' 08.5" W	66722E	412430	37-733	12/21/02	
10	06-0623	96-505	97-233	5-41S-24E	37° 15' 45.0" N 109° 18' 10.0" W	66723E	412430	37-733	12/21/02	
11	06-0624	96-506	97-234	5-41S-24E	37° 15' 46.5" N 109° 18' 11.5" W	66724E	412430	37-733	12/21/02	
12	06-0625	96-506	97-235	5-41S-24E	37° 15' 48.0" N 109° 18' 13.0" W	66725E	412430	37-733	12/21/02	
13	06-0626	96-507	97-236	5-41S-24E	37° 15' 49.5" N 109° 18' 14.5" W	66726E	412430	37-733	12/21/02	
14	06-0627	96-508	97-237	5-41S-24E	37° 15' 51.0" N 109° 18' 16.0" W	66727E	412430	37-733	12/21/02	
15	06-0628	96-509	97-238	5-41S-24E	37° 15' 52.5" N 109° 18' 17.5" W	66728E	412430	37-733	12/21/02	
16	06-0629	96-510	97-239	5-41S-24E	37° 15' 54.0" N 109° 18' 19.0" W	66729E	412430	37-733	12/21/02	
14-33	06-0642	96-611	97-240	14-41S-24E	37° 15' 38.8" N 109° 17' 56.0" W	648-650	4119050			Water well abandoned 02-01-1998. CUP 8' Capped

Summary		35	operated wells						
		2	not prod	96-526	96-517				
		2	aband.	96-528	06-611				
		1	NTU	96-527					
		40	Total Wells in List of RCMA-89-88						
			WLF 96-406 to 96-528 & 96-202						

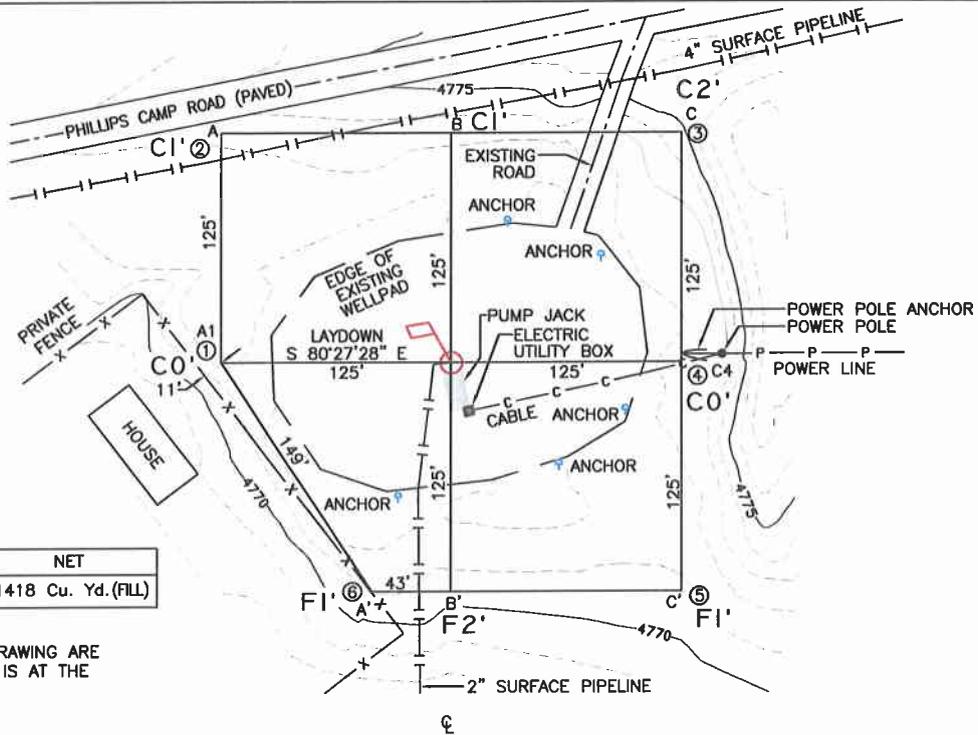
Additional Unlisted Wells at Ratherford	Sec-1-Info	SFS Coordinates	App #	Completed	Comments
19	5-41S-24E	37° 15' 21.7" N 109° 16' 30.0" W	32-733	1/22/01	in service
20	5-41S-24E	37° 15' 23.0" N 109° 16' 33.0" W	32-733	4/14/04	in service
22	5-41S-24E	37° 15' 21.0" N 109° 16' 33.2" W	32-733		Operable but has power problems
23	5-41S-24E	37° 15' 22.8" N 109° 17' 01.4" W	32-733	4/29/04	Operable but has power problems
	4	Additional unlisted wells			

**BEFORE DIGGING
CALL FOR UTILITY
LINE LOCATION!**



CUT	FILL	NET
180 Cu. Yd.	1598 Cu. Yd.	1418 Cu. Yd.(FILL)

NOTE:
THE EARTH QUANTITIES ON THIS DRAWING ARE
ESTIMATED AND THE USE OF THIS IS AT THE
RESPONSIBILITY OF THE USER.



A-C

Elevation	Cut	Fill	Net
4790			
4780			
4770			
4760			
4750			

A1-C4

Elevation	Cut	Fill	Net
4790			
4780			
4770			
4760			
4750			

A'-C'

Elevation	Cut	Fill	Net
4790			
4780			
4770			
4760			
4750			

CROSS SECTIONS

HORIZONTAL: 1"=100'
VERTICAL: 1"=50'

EXHIBIT IA

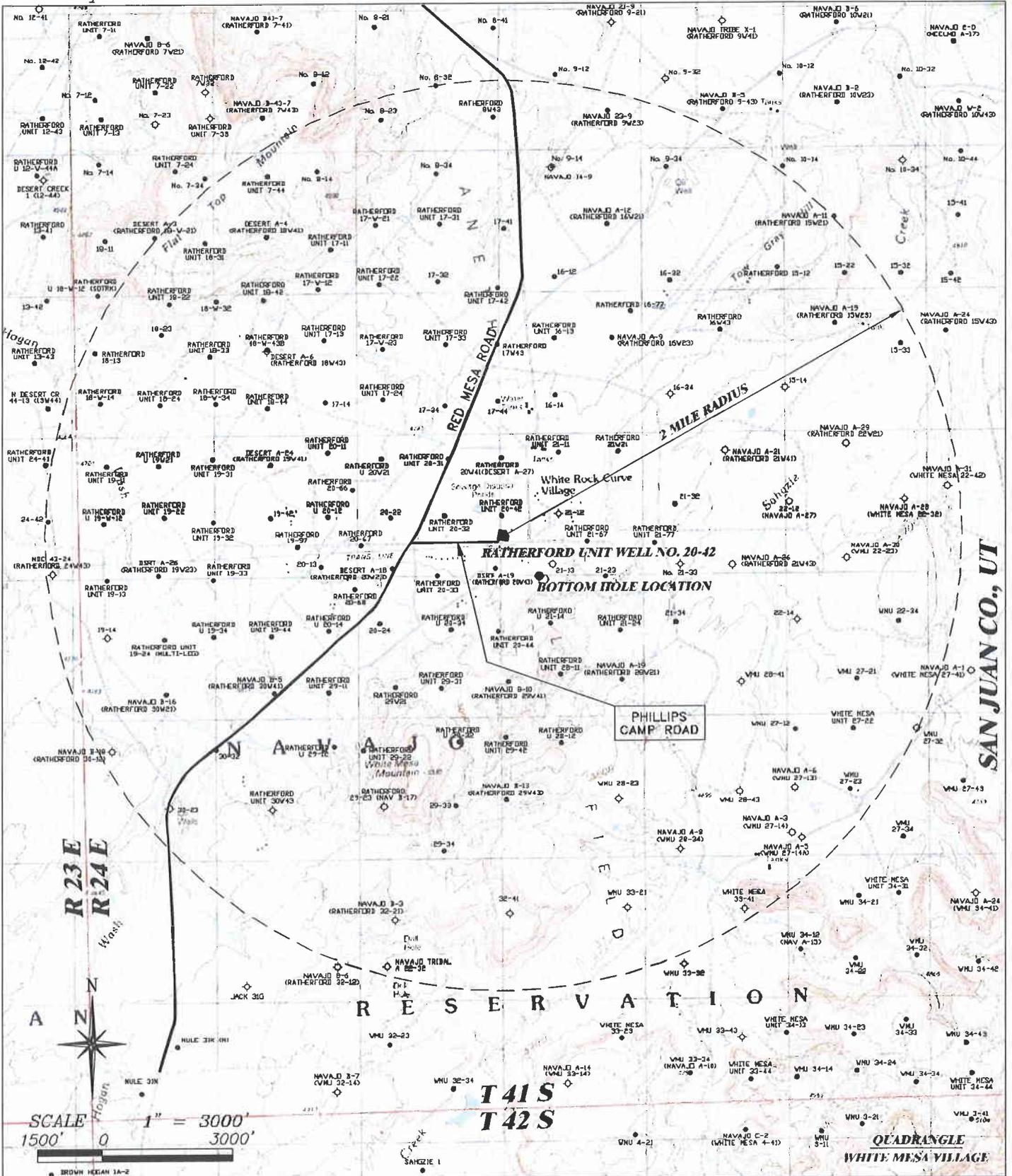
RESOLUTE
NATURAL RESOURCES

LEASE: RATHERFORD UNIT WELL NO. 20-42
1968' FNL, 697' FEL (SURFACE) SEC. 20
FOOTAGES: 2346' FSL, 113' FWL (BOTTOM HOLE) SEC. 21
SEC. 20 TWN. 41 S RNG. 24 E S.L.M.
LATITUDE: N 37.2096547° LONGITUDE: W 109.2987363°
ELEVATION: 4772

SURVEYED: 02/12/13	REV. DATE:	APP. BY J.A.V.
DRAWN BY: H.S.	DATE DRAWN: 02/25/13	FILE NAME: 10443C01



P.O. BOX 3651
FARMINGTON, NM 87499
OFFICE: (505) 334-0408



**PROPOSED WELL LOCATION FOR
RESOLUTE NATURAL RESOURCES
RATHERFORD UNIT WELL NO. 20-42**

P.O. BOX 3651
FARMINGTON, N.M.
(505) 334-0408

SCALE: 1" = 3000'

JOB No. 10443

DATE: 02/25/13

EXISTING ROAD ACCESS/EGRESS

**EXHIBIT
2A**

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/14/2013

API NO. ASSIGNED: 43-037-31051

WELL NAME: RATHERFORD UNIT 20-42
 OPERATOR: RESOLUTE NATURAL (N2700)
 CONTACT: SHERRY GLASS

PHONE NUMBER: 303-573-4886

PROPOSED LOCATION:

SENE 20 410S 240E
 SURFACE: 1968 FNL 0697 FEL
 BOTTOM: 2346 FSL 0113 FWL
 COUNTY: SAN JUAN
 LATITUDE: 37.20961 LONGITUDE: -109.29868
 UTM SURF EASTINGS: 650966 NORTHINGS: 4119481
 FIELD NAME: GREATER ANETH (365)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2 - Indian
 LEASE NUMBER: 14-20-603-353
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: DSCR
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[2] Sta[] Fee[]
(No. PA002769)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 06-0629)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

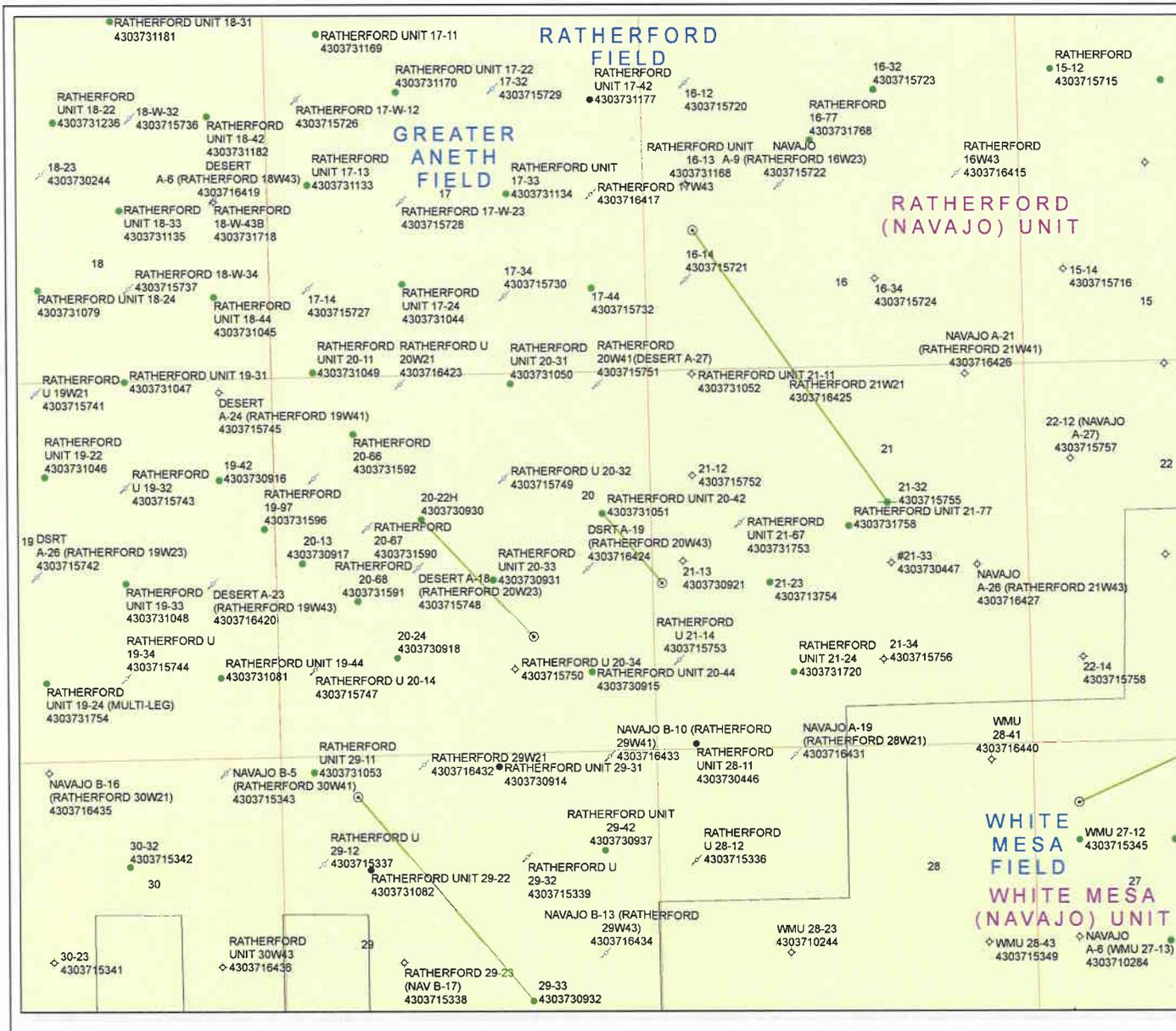
LOCATION AND SITING:

- R649-2-3.
- Unit: RATHERFORD
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: 152-6
Eff Date: 7-6-1998
Siting: Suspension General Casing
- R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____

1- Federal Approval
2- DIRECTIONAL STIP

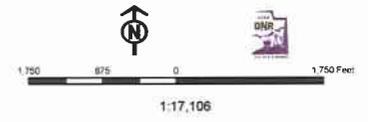


API Number: 4303731051
 Well Name: RATHERFORD UNIT 20-42
 Township T41.0S Range R24.0E Section 20
 Meridian: SLBM
 Operator: RESOLUTE NATURAL RESOURCES

Map Prepared:
 Map Produced by Diana Mason

Units STATUS	
[Symbol]	ACTIVE
[Symbol]	EXPLORATORY
[Symbol]	GAS STORAGE
[Symbol]	NP PP OIL
[Symbol]	NP SECONDARY
[Symbol]	P OIL
[Symbol]	PP GAS
[Symbol]	PP GEOTHERMAL
[Symbol]	PP OIL
[Symbol]	SECONDARY
[Symbol]	TERMINATED

Fields STATUS	
[Symbol]	UNKNOWN
[Symbol]	ABANDONED
[Symbol]	ACTIVE
[Symbol]	COMBINED
[Symbol]	INACTIVE
[Symbol]	STORAGE
[Symbol]	TERMINATED





GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

March 21, 2013

Resolute Natural Resources
1675 Broadway, Ste 1950
Denver, CO 80202

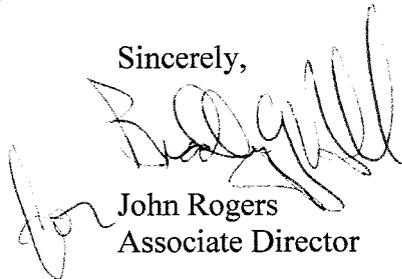
Subject: Ratherford Unit 20-42 Well, 1968' FNL, 697' FEL, SE NE, Sec. 20, T. 41 South, R. 24 East, San Juan County, Utah

Ladies and Gentlemen:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause: 152-6. The expected producing formation or pool is the Desert Creek Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

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 43-037-31051.

Sincerely,



John Rogers
Associate Director

JR/js
Enclosures

cc: San Juan County Assessor
Bureau of Land Management, Monticello Office

Operator: _____ Resolute Natural Resources
Well Name & Number _____ Ratherford Unit 20-42
API Number: _____ 43-037-31051
Lease: _____ 14-20-603-353

Location: SE NE Sec. 20 T. 41 South R. 24 East

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

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please let a voicemail message if not available)

OR

Submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office
(801) 733-0983 after office hours

3. Reporting Requirements

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-353
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
		7. UNIT or CA AGREEMENT NAME: RATHERFORD
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: RATHERFORD UNIT 20-42	
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037310510000	
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202	PHONE NUMBER: 303 534-4600 Ext	9. FIELD and POOL or WILDCAT: GREATER ANETH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1968 FNL 0697 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 20 Township: 41.0S Range: 24.0E Meridian: S		COUNTY: SAN JUAN
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/4/2013 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER <input type="checkbox"/> APD EXTENSION	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Resolute put this well back to production on 11-4-13, daily activity summary is attached. Completion report already filed.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 18, 2013		
NAME (PLEASE PRINT) Shery Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 11/18/2013	



Daily Activity Summary

Well Name: Ratherford U 2042H

API Number 4303731051	Section 20	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,770.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 14.00	KB-Casing Flange Distance (ft)	Regulatory Spud Date 12/30/1920 00:00	Rig Release Date/Time 10/9/2013 06:00	

Job Category Drilling	Primary Job Type Drilling - re-entry	Secondary Job Type
Start Date 8/19/2013	End Date 11/5/2013	Total AFE Amount (Cost) 1,204,500.00

Objective
Job scope: Sidetrack out of 7" wellbore, drill Lateral #1 ~1280' to the SE, acid stimulate, and run new rod pumping BHA with new 2-7/8" production tubing.

Contractor Key	Rig Number 670	Rig on Report Date 8/19/2013	Rig off report date 8/22/2013
Contractor D&J Drilling	Rig Number 1	Rig on Report Date 9/24/2013	Rig off report date 10/9/2013
Contractor Key	Rig Number 26	Rig on Report Date 10/11/2013	Rig off report date 10/19/2013

Report Number	Start Date	End Date	Summary
1	8/16/2013	8/16/2013	Disassemble 320 unit and pad, moved it to ratherford Storage
2	8/17/2013	8/17/2013	Load and haul dirt, haul equipment
3	8/18/2013	8/18/2013	Load and haul dirt to 20-42
4	8/19/2013	8/19/2013	Road rig to loc. spot equip, RU, LD rods & pump.
5	8/20/2013	8/20/2013	NU BOP, unset TAC, TOO, LD BHA. TBIH w/ bit & scraper @ 5,578'. TOO, LD bit & scraper, TBIH w/RBP & set @ 5,549'.
6	8/21/2013	8/21/2013	Circ 230 bbls of F/w, TOO, R/u Blue Jet, Run Casing Insp.Log from 5530' to Surface & Run Cement Bond Log from 5530' to 1000', TIH w/ 116 jnts.
7	8/22/2013	8/22/2013	TIH w/ 60 jnts (RBP @ 5,549' & 174 2-7/8 production string in hole) N/dn BOP, Circ Pkr/ Fld,230 bbls, Rig dn.
8	8/23/2013	8/23/2013	Haul 6 loads of fresh water to wet down location
9	8/26/2013	8/26/2013	Load and haul pit runs to location
10	8/27/2013	8/27/2013	Load and hauled pit run, blade location at 20-42, load and hauled equipment
11	8/28/2013	8/28/2013	2 loads to 20-42 from fresh water tank.
12	9/20/2013	9/20/2013	Pick up supplies in Cortez for cellar box RU 20-42H
13	9/23/2013	9/23/2013	MWS and JR construction use Bucket Truck and Forklift to set up Sound Barrier Wall on locaiton
14	9/24/2013	9/25/2013	Move F/AU C223X - T/RU 20-42H, Spot in and RU equipment. PU on 2 7/8" tbg string. Remove B1 flange, MU 2 7/8" tbg hanger & land in well head. NU 7 1/16" BOPE, install HCR valve in choke line, hook up choke manifold.
15	9/25/2013	9/26/2013	Continue to RU flowline, gas buster, lay bleed-off line to LD tank. RU San Juan csg crew. LD 2 jts 2 7/8" tbg, PU 7" Weatherford ArrowSet 1 test packer, set at 32'. Pressure test casing, choke and pipe rams 600 psi f/ 30 min - held. LD pkr, Install drlg head rubber, latch onto and release RBP. Had pressure build up under RBP. Set RBP and release from same. Displace pkr fluid from wellbore w/ 9.3# mud. Latch onto and release RBP. Well stactic, LD 174 jts 2 7/8" tbg and RBP. RU Basin Wireline, set RBP @ 5180'. Pressure test BOPE & csg.
16	9/26/2013	9/27/2013	Service rig, PU whipstock assembly, TIH, Displace hole w/FW. TOO, w/whipstock assembly, TIH hole w/6.125" tricorne, circulate bottom w/FW, TOO.
17	9/27/2013	9/28/2013	M/U Whip 7" whip stock W/ 6-1/4" mill, TIH, R/U Wire line, TIH W/ Wire Line Check orientation Set @ 137 deg, P/U Power Swivel, Displace hole W/9.2 lb drilling Mud, Cut Drill 250' of Drill Line, Mill 6-1/4" Window, F/5174' T/5182', Baker Hugh's Whipstock Set @ 5174' top 5181' btm, Top plug set @ 5188' BTM set @ 5181', SEE ATTACHMENT ON REPORT FOR DIAGRAM OF WHIPSTOCK.
18	9/28/2013	9/29/2013	Milling 6-1/4" Window T/5182', TOO, T/ lay down Mill and pick up new mill, P/U new mill, TIH, Mill F/5182' T/5187', TOO, T/ lay down 6-1/4" Mill, M/U P/U 6-1/8" Tri cone Directional BHA. M/U P/U Wire Line Tool Orientate tools, TIH,
19	9/29/2013	9/30/2013	RIH w/ gyro, gyro sliding and drifting F/5187' T/5228'. Circulate hole, pull gyro. Rotate and slide directional drlg 6-1/8" hole section F/5228' T/5345'. Last Survey: MD 5279' 16.30 INCL, AZ 157.50
20	9/30/2013	10/1/2013	Directional drlg 6-1/8" hole section, sliding & rotating F/5345' T/ 5557'. Build Rate 13.05 deg / per 100'. Last Survey: MD 5492' 43.6 INCL, 143.2 AZ.
21	10/1/2013	10/2/2013	Directional drlg 6-1/8" hole section, sliding & Rotating F/5557' T/5634. Circulate condition hole section, TOO, lay down 1.76 deg motor and 6-1/8" Tri-Cone bit, TIH W/ 2.23 Deg Motor and 6-1/8" PDC bit, Circulate and add PDC Lube to system 1% to get Bit and motor to slide,
22	10/2/2013	10/3/2013	Directional drlg 6-1/8" hole section, sliding F/5634' T/5717' w/ 2.23 deg motor, getting build rates of 21 deg per 100'. Circulate condition hole, TOO, to turn motor down to 1.76 deg. TIH, drilling 6-1/8" hole section w/ 1.76 deg motor and Security PDC bit, F/5717' T/5816' w/ build rates of 17 deg per 100', Last Survey: SD 5738' INCL 84.70 AZ.134.80. Depth of 5806', landed curve at 88.1 INCL, this is 1' above line.
23	10/3/2013	10/4/2013	DRLG 6-1/8" hole section Sliding & Rotating W/ 1.76 Deg motor, F/5816' T/6431'.



Daily Activity Summary

Well Name: Ratherford U 2042H

API Number 4303731051	Section 20	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,770.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 14.00	KB-Casing Flange Distance (ft)	Regulatory Spud Date 12/30/1920 00:00	Rig Release Date/Time 10/9/2013 06:00	

Report Number	Start Date	End Date	Summary
24	10/4/2013	10/5/2013	Directional DRLG 6-1/8" hole section F/6431' T/6492', BOP drill, flow check, No flow, Flush out gas buster. Directional DRLG 6-1/8" hole section F/6492' T/6618', Flow check, Well flowing 4.2 gal/min, 6 bbls/hr, Shut in well pressure build to 1200 psi in 2.5 hrs, 1400 psi in 7 hrs, Transfer mud from mud pits to frac tank on location, Build 400 bbls mud to 11#, Displace hole w/11# mud, Return @ 10.4#, Flow check, Well flowing 10 bbls/hr, Shut in well, Pressure build to 800psi in 2 hours, Build 400 bbls mud to 12.2#, Displace hole w/12.2# mud, Return back @ 11.2#, Flow check, Well flowing @ 5 bbls/hr, Shut in well, Mix 400 bbls mud to 12#
25	10/5/2013	10/6/2013	Shut in well, Pressure build to 800 psi , Build 400 bbls mud to 12#, Displace hole w/ 12.# mud, Return back @ 11.2#, Flow check, well flowing 7 bbls/hr, Shut in well, Pressure build to 500 psi , Build 400 bbls mud to 13#, Displace hole w/ 13.# mud, Return back @ 12#, Circulate and work pipe. Flow check, well flowing 4 bbls/hr, Circulate and condition mud.
26	10/6/2013	10/7/2013	Rotate & work pipe, Circulate and condition mud to 13#, Directional DRLG 6-1/8" hole section F/6618' T/6929', (TD called by geologist), Circulate 2 bottoms up and pump high vis sweeps.
27	10/7/2013	10/8/2013	Flow check, well flowing 13 bbls/hr, L/D 3 jts w/swivel, TOOH 27 stds, Pump 130 bbls 15# mud for top kill, TOOH, L/D directional tools, Run Baker RBP w/Blue Jet, TIH, LDDP
28	10/8/2013	10/9/2013	TOOH Laying down DP, Run 7" Baker Hughes RBP set @ 520', N/D Rig down clean mud pits, Get ready to move to the RU #24-32, Rig Release date 10-09-2013 @ 06:00
29	10/11/2013	10/11/2013	MIRU Key 26. SDFW.
30	10/13/2013	10/13/2013	Pull fluid off bottom of frac tanks, so tanks could be moved to RU 24-32H
31	10/14/2013	10/14/2013	RUWSU, change over to tbq equipment. RU pit, pump hard line's. SDFN.
32	10/15/2013	10/15/2013	ND WH NUBOP, Test Bop, PU retrieve tool for baker rbp, PU 16 jts tag on #17 4' in 502', Cir 14.8# mud 20 bbl latch up rbp, no luck retrieving plug. Retrieving tool keeps popping off plug. Send tool to town baker shop, SDFN.
33	10/16/2013	10/16/2013	RIH w/ washover shoe, 6 DC's, 17 jts. Roll mud out 40 bbls. TOOH w/ washover shoe. RIH w/ retrieving tool, latch up, pull 50k, tool keeps slipping off. TOOH, RIH w/ 2-7/8" over shock. Would not get over fish neck. Call Baker oil tools, said Hornet packer not in hole. Runnung wrong tool. MU on/off tool, RIH latch onto packer. Release and lay down packer. MU 2" over shock, RIH w/ 72 jts total, EOT @ 2238'.
34	10/17/2013	10/17/2013	RIH w/ 158 jts, latch onto fish, TOOH lay down fish. RIH w/ retrieving tool, 158 jts. Roll 14.8# mud, 200 bbls. Latch onto and release RBP. TOOH w/ RBP. RIH with Weatherford 7" ArrowSet1 packer with on/off tool, set @ 5104' elements.
35	10/18/2013	10/18/2013	Top off tbq with 14.8# mud, Pump 40 bbl packer fluid cir. mud out, Key rig pump gear box lock up. SWI. New pump in AM.
36	10/19/2013	10/19/2013	Cir, Mud out to rig pit 200 bbls w/ pakcer fluid. Test Csg 530 psi 20 min good test. NDBOP/ Rig floor, Fish out 1.81 blanking plug with wire line. SWI 1750 psi SDFW.
37	10/21/2013	10/21/2013	Continue flow back, monitor flow pressure at Batt #1
38	10/22/2013	10/22/2013	
39	11/1/2013	11/1/2013	Load new 912 dausco and transport to 20-42
40	11/4/2013	11/4/2013	Drive to location, rig up set up saddle bearing, make all adjustments, Build up Dausco unit, put gear box , put up sampson post, and put up walking beam, set up uint pad and assemble pumping uint.
41	11/5/2013	11/5/2013	Round up crew and equipment, rig down sound wall.

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER 1420603353
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input checked="" type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
2. NAME OF OPERATOR: Resolute Natural Resources		7. UNIT or CA AGREEMENT NAME UTU68931A
3. ADDRESS OF OPERATOR: 1675 Broadway, Ste 195 (CITY Denver STATE CO ZIP 80202		8. WELL NAME and NUMBER: Ratherford 20-42
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1968 FNL, 697 FEL sec 20-T41S-R24E AT TOP PRODUCING INTERVAL REPORTED BELOW: 2237 FNL, 494 FEL sec 20-T41S-R24E AT TOTAL DEPTH: 1864 FSL, 303 FWL, NWSW sec 21-T41S-R24E		9. API NUMBER: 4303731051
14. DATE SPUNDED: 8/20/2013		10. FIELD AND POOL, OR WILDCAT Greater Aneth
15. DATE T.D. REACHED: 10/7/2013		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 20 41S 24E S
16. DATE COMPLETED: 11/4/2013 ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		12. COUNTY San Juan
17. ELEVATIONS (DF, RKB, RT, GL): 4772' GL		13. STATE UTAH

18. TOTAL DEPTH MD 6,929	19. PLUG BACK T.D. MD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD
TVD 5,587	TVD		PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) measured depth logs		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17 1/2	13.375 K-55	54.5	0	116		150		0	
12.25	9.675 K-55	36	0	1,586		600		0	
8.75	7 K-55	26 & 23	0	5,650		700		1720	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	5,110							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) DC IA	5,559				5,560 5,610		200	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) DC IB	5,610							Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
	no additional treatment

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS	<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: schematic tubing detail, survey, gas analysis	30. WELL STATUS: producing
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31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 10/21/2013		TEST DATE: 10/23/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 353	GAS - MCF: 365	WATER - BBL: 24	PROD. METHOD flowing
CHOKE SIZE	TBG. PRESS. 150	CSG. PRESS. 40	API GRAVITY 39.90	BTU - GAS	GAS/OIL RATIO 1,034	24 HR PRODUCTION RATES: →	OIL - BBL: 353	GAS - MCF: 365	WATER - BBL: 24	INTERVAL STATUS producing

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD
CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD
CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

sold-Anadarko pipeline

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Desert Creek IA	5,559			Upper Ismay	5,410
Desert Creek IB	5,610			Lower Ismay	5,497
				Gothic Shale	5,547
				Desert Creek IA	5,559
				Desert Creek IB	5,610

36. ADDITIONAL REMARKS (Include plugging procedure)

Did not acid-treat well bore, well started flowing/flaring while drilling horizontal, producing with original perforations. put to production 10-21-13.

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

NAME (PLEASE PRINT) Sherry Glass TITLE Sr Regulatory Technician
 SIGNATURE *Sherry Glass* DATE 11/18/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

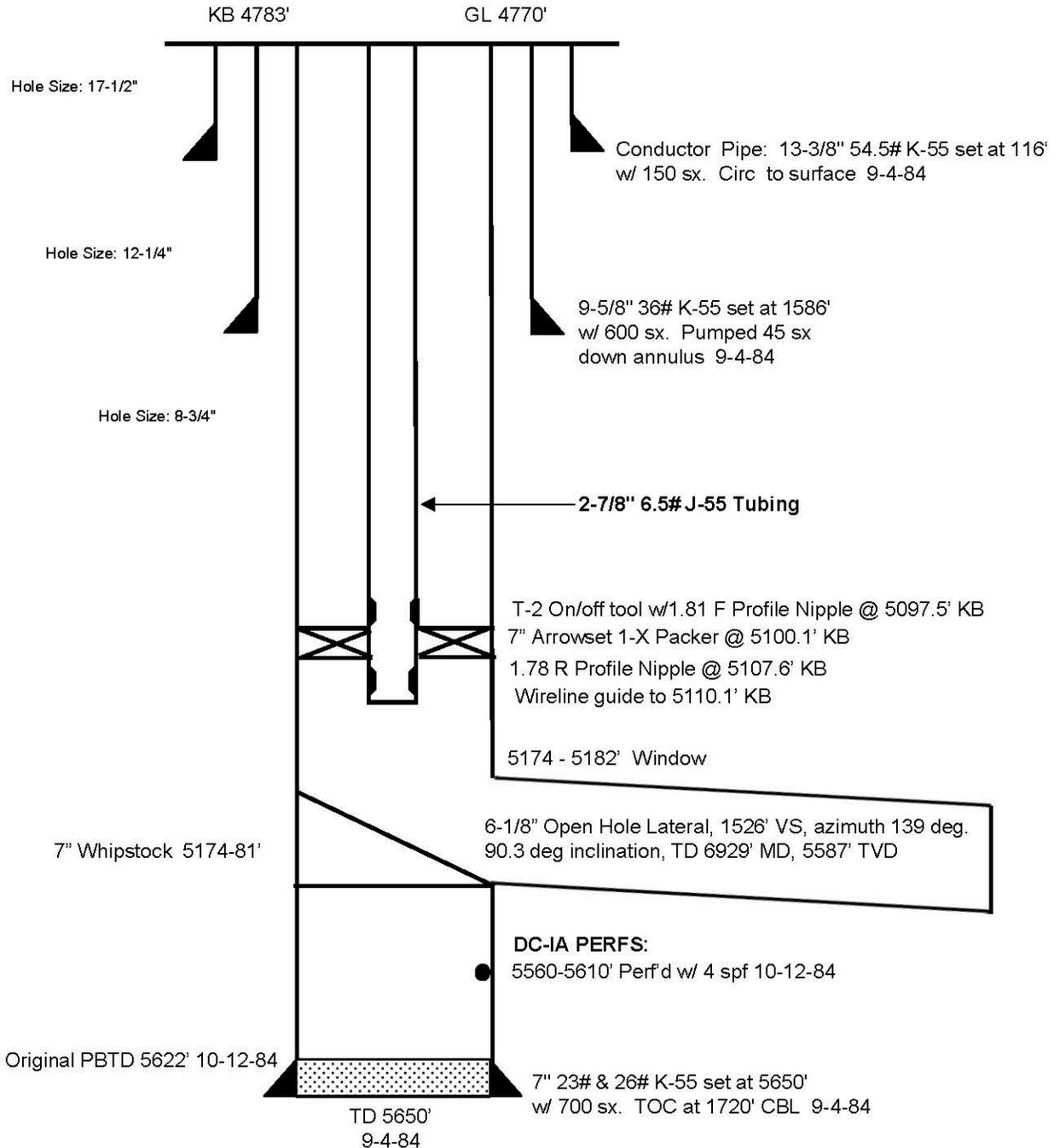
Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

RATHERFORD UNIT # 20-42H

PRODUCER

GREATER ANETH FIELD
1968' FNL & 697' FEL
SEC 20-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-31051
PRISM 0043104

Attachment 1 – Final Wellbore



J. W. Styler RU #20-42

Resolute

Energy Corporation

Resolute Natural Resources

Ratherford Unit (Nad 27)

Ratherford Unit 20-42

20-42H

Hz

UWI:

WL:

Survey: Final

Standard Survey Report

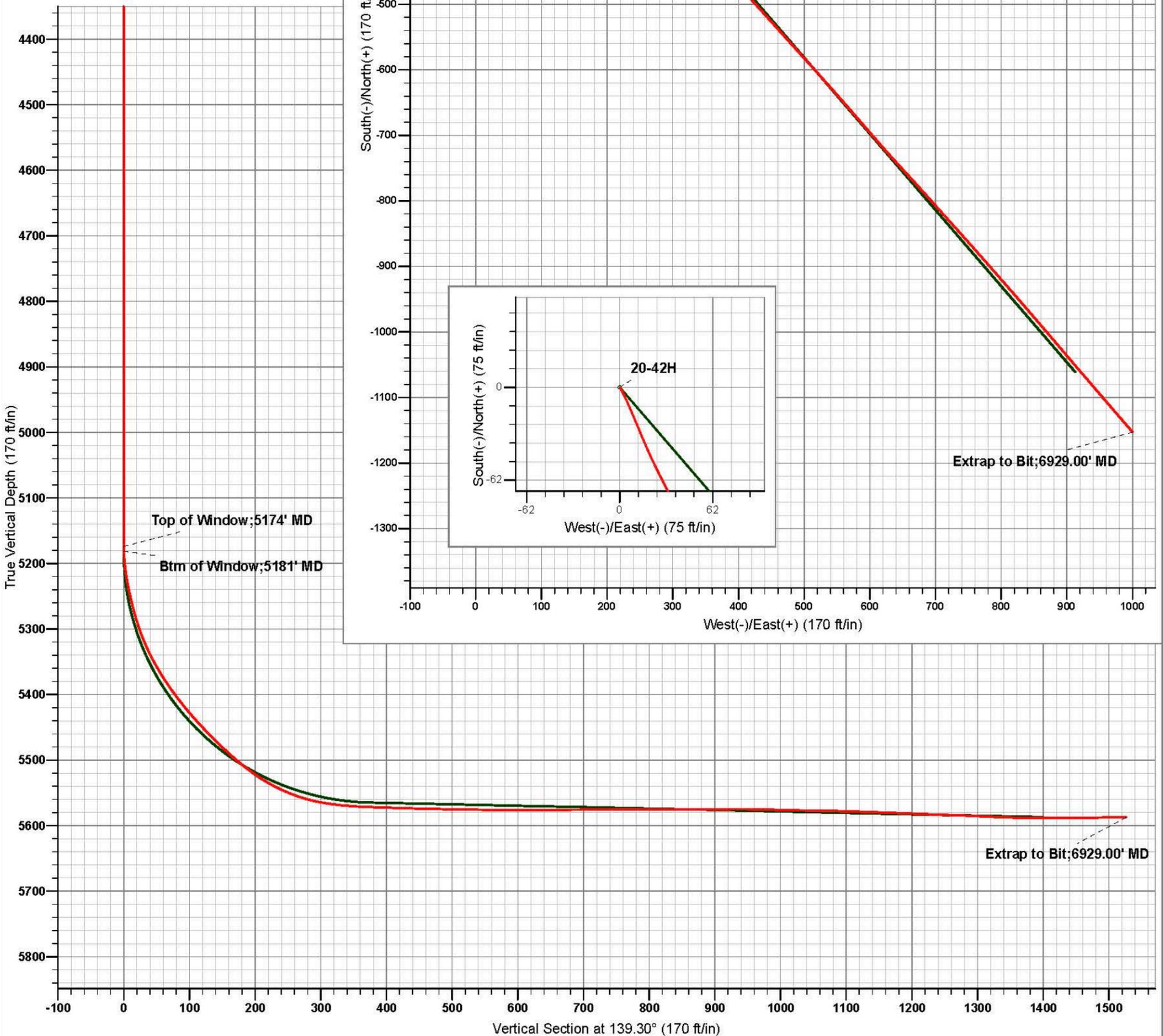
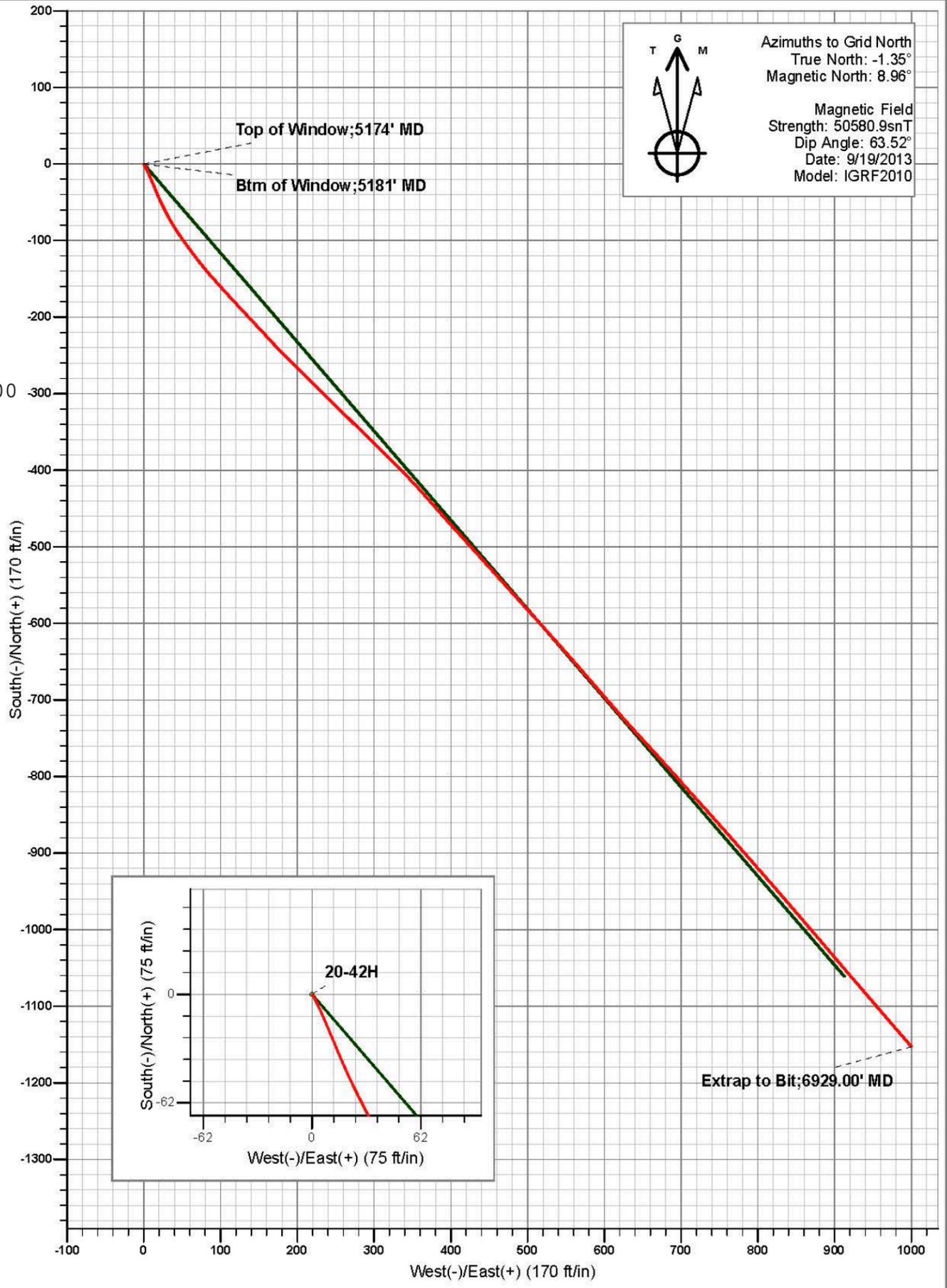
07 October, 2013



PLAN DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5182.8	0.00	0.00	5182.8	0.0	0.0	0.00	0.00	0.0	
3	5716.1	80.00	139.30	5559.0	-239.3	205.8	15.00	139.30	315.6	
4	5774.5	88.75	139.30	5564.7	-283.3	243.6	15.00	0.00	373.6	20-42H EOB
5	6801.1	88.75	139.30	5587.1	-1061.4	912.9	0.00	0.00	1400.0	20-42H Toe

Well Centre Reference
Geodetic System: US State Plane 1927 (Exact solution)
Ellipsoid: Clarke 1866
Zone: Utah South 4303
Northing: 62570.73
Easting: 805046.02
Latitude: 37° 12' 35.028 N
Longitude: 109° 17' 53.052 W
Grid Convergence: 1.35° West
Ground Elevation: 4770.0
KB Elevation: Est. KB @ 4784.0ft (D&J #1)



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well 20-42H
Project:	Ratherford Unit (Nad 27)	TVD Reference:	Est. KB @ 4784.0ft (D&J #1)
Site:	Ratherford Unit 20-42	MD Reference:	Est. KB @ 4784.0ft (D&J #1)
Well:	20-42H	North Reference:	Grid
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Project	Ratherford Unit (Nad 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah South 4303		Using geodetic scale factor

Site	Ratherford Unit 20-42		
Site Position:		Northing:	62,570.74 m
From:	Lat/Long	Easting:	805,046.01 m
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Latitude:	37° 12' 35.028 N
		Longitude:	109° 17' 53.052 W
		Grid Convergence:	1.35 °

Well	20-42H		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/19/2013	10.31	63.52	50,581

Design	Final				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0		139.30

Survey Program	Date	10/7/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
5,174.0	6,929.0	Final (Hz)	MWD	MWD - Standard	

Survey											
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	-4,784.0	0.0	0.0	0.0	0.00	0.00	0.00	
Top of Window;5174' MD											
5,174.0	0.00	0.00	5,174.0	390.0	0.0	0.0	0.0	0.00	0.00	0.00	
Btm of Window;5181' MD											
5,181.0	2.40	139.00	5,181.0	397.0	-0.1	0.1	0.1	34.29	34.29	0.00	
5,217.0	9.00	154.60	5,216.8	432.8	-3.2	1.8	3.6	18.66	18.33	43.33	
5,248.0	12.70	153.60	5,247.2	463.2	-8.5	4.4	9.3	11.95	11.94	-3.23	
5,279.0	16.30	157.50	5,277.3	493.2	-15.5	7.5	16.7	12.03	11.61	12.58	
5,309.0	21.10	156.60	5,305.7	521.6	-24.4	11.3	25.9	16.03	16.00	-3.00	
5,339.0	26.50	157.90	5,333.1	549.1	-35.6	16.0	37.4	18.08	18.00	4.33	

Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well 20-42H
Project:	Ratherford Unit (Nad 27)	TVD Reference:	Est. KB @ 4784.0ft (D&J #1)
Site:	Ratherford Unit 20-42	MD Reference:	Est. KB @ 4784.0ft (D&J #1)
Well:	20-42H	North Reference:	Grid
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,370.0	31.20	154.50	5,360.2	576.2	-49.2	22.0	51.7	16.05	15.16	-10.97
5,401.0	35.20	152.90	5,386.2	602.2	-64.4	29.6	68.1	13.21	12.90	-5.16
5,431.0	38.30	148.90	5,410.2	626.2	-80.1	38.3	85.7	13.05	10.33	-13.33
5,461.0	41.50	144.80	5,433.2	649.2	-96.2	48.8	104.8	13.80	10.67	-13.87
5,492.0	43.60	143.20	5,456.1	672.1	-113.1	61.2	125.7	7.62	6.77	-5.16
5,523.0	46.40	142.40	5,478.0	694.0	-130.6	74.4	147.5	9.21	9.03	-2.58
5,552.0	48.80	138.30	5,497.5	713.5	-147.1	88.1	168.9	13.32	8.28	-14.14
5,582.0	53.10	137.80	5,516.4	732.4	-164.4	103.7	192.2	14.39	14.33	-1.67
5,613.0	59.70	137.20	5,533.6	749.6	-183.4	121.1	218.0	21.35	21.29	-1.94
5,645.0	66.50	137.10	5,548.1	764.0	-204.3	140.5	246.5	21.25	21.25	-0.31
5,675.0	73.30	137.30	5,558.4	774.4	-225.0	159.6	274.7	22.68	22.67	0.67
5,706.0	80.70	135.70	5,565.3	781.3	-246.9	180.4	304.8	24.39	23.87	-5.16
5,738.0	84.70	134.80	5,569.4	785.4	-269.4	202.7	336.5	12.81	12.50	-2.81
5,769.0	87.70	134.50	5,571.4	787.4	-291.1	224.7	367.3	9.73	9.68	-0.97
5,892.0	89.10	134.30	5,574.9	790.9	-377.2	312.6	489.8	1.15	1.14	-0.16
5,924.0	88.90	135.60	5,575.4	791.4	-399.8	335.2	521.7	4.11	-0.63	4.06
5,955.0	89.30	138.00	5,575.9	791.9	-422.4	356.5	552.6	7.85	1.29	7.74
5,986.0	89.90	138.50	5,576.1	792.1	-445.5	377.1	583.6	2.52	1.94	1.61
6,017.0	90.20	138.40	5,576.1	792.1	-468.7	397.7	614.6	1.02	0.97	-0.32
6,048.0	89.90	137.70	5,576.1	792.1	-491.7	418.4	645.6	2.46	-0.97	-2.26
6,079.0	90.50	137.80	5,576.0	792.0	-514.7	439.2	676.6	1.96	1.94	0.32
6,109.0	90.90	138.40	5,575.6	791.6	-537.0	459.3	706.6	2.40	1.33	2.00
6,140.0	89.60	137.80	5,575.5	791.5	-560.1	480.0	737.6	4.62	-4.19	-1.94
6,172.0	89.80	138.30	5,575.6	791.6	-583.9	501.3	769.6	1.68	0.63	1.56
6,203.0	90.20	137.80	5,575.6	791.6	-606.9	522.1	800.6	2.07	1.29	-1.61
6,234.0	90.90	138.20	5,575.4	791.3	-630.0	542.8	831.6	2.60	2.26	1.29
6,266.0	89.80	139.00	5,575.2	791.1	-654.0	564.0	863.6	4.25	-3.44	2.50
6,297.0	90.60	139.40	5,575.0	791.0	-677.4	584.2	894.6	2.89	2.58	1.29
6,329.0	90.40	139.00	5,574.8	790.8	-701.7	605.1	926.6	1.40	-0.63	-1.25
6,360.0	89.00	138.50	5,574.9	790.9	-725.0	625.6	957.6	4.80	-4.52	-1.61
6,389.0	88.00	137.30	5,575.7	791.7	-746.5	645.0	986.5	5.39	-3.45	-4.14
6,420.0	88.80	137.60	5,576.6	792.5	-769.3	666.0	1,017.5	2.76	2.58	0.97
6,452.0	89.70	138.60	5,577.0	793.0	-793.1	687.3	1,049.5	4.20	2.81	3.13
6,483.0	88.40	137.90	5,577.5	793.5	-816.3	708.0	1,080.5	4.76	-4.19	-2.26
6,514.0	87.80	138.20	5,578.5	794.5	-839.3	728.7	1,111.5	2.16	-1.94	0.97
6,545.0	88.50	138.50	5,579.5	795.5	-862.4	749.3	1,142.5	2.46	2.26	0.97
6,576.0	87.50	138.70	5,580.6	796.6	-885.7	769.8	1,173.4	3.29	-3.23	0.65
6,608.0	87.70	138.10	5,581.9	797.9	-909.6	791.0	1,205.4	1.97	0.63	-1.88
6,639.0	88.00	139.00	5,583.1	799.1	-932.8	811.5	1,236.4	3.06	0.97	2.90
6,671.0	88.20	139.40	5,584.2	800.2	-957.0	832.4	1,268.4	1.40	0.63	1.25
6,702.0	87.00	139.60	5,585.5	801.5	-980.6	852.5	1,299.3	3.92	-3.87	0.65
6,732.0	87.50	139.80	5,586.9	802.9	-1,003.4	871.9	1,329.3	1.79	1.67	0.67
6,763.0	89.20	139.30	5,587.8	803.8	-1,027.0	892.0	1,360.3	5.72	5.48	-1.61

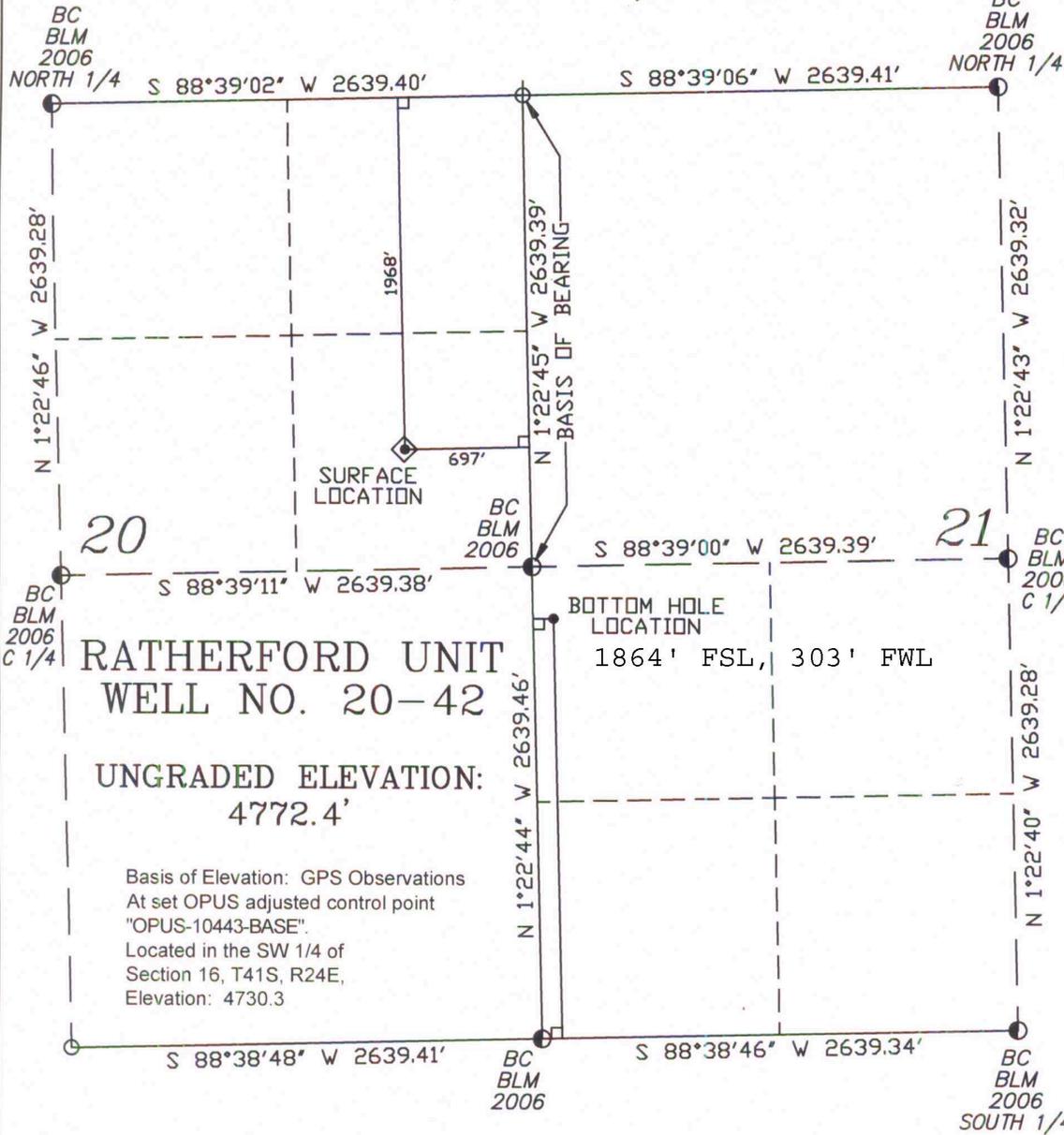
Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well 20-42H
Project:	Ratherford Unit (Nad 27)	TVD Reference:	Est. KB @ 4784.0ft (D&J #1)
Site:	Ratherford Unit 20-42	MD Reference:	Est. KB @ 4784.0ft (D&J #1)
Well:	20-42H	North Reference:	Grid
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (%/100ft)	Build Rate (%/100ft)	Turn Rate (%/100ft)
6,785.0	89.80	139.60	5,588.1	804.1	-1,051.3	912.8	1,392.3	2.10	1.88	0.94
6,825.0	90.00	139.30	5,588.1	804.1	-1,074.1	932.3	1,422.3	1.20	0.67	-1.00
6,856.0	90.40	139.40	5,588.0	804.0	-1,097.6	952.5	1,453.3	1.33	1.29	0.32
6,887.0	90.90	139.30	5,587.7	803.7	-1,121.2	972.7	1,484.3	1.64	1.61	-0.32
Extrap to Bit;6929.00' MD										
6,929.0	90.30	139.30	5,587.2	803.2	-1,153.0	1,000.1	1,526.3	1.43	-1.43	0.00

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,174.0	5,174.0	0.0	0.0	Top of Window;5174' MD
5,181.0	5,181.0	-0.1	0.1	Btm of Window;5181' MD
6,929.0	5,587.2	-1,153.0	1,000.1	Extrap to Bit;6929.00' MD

Checked By: _____ Approved By: _____ Date: _____

T. 41 S., R. 24 E., S.L.M.



SCALE: 1" = 1000'

GEO. SURFACE VALUES

LATITUDE (NAD 83)
NORTH 37.2096547°
LONGITUDE (NAD 83)
WEST 109.2987363°

LATITUDE (NAD 27)
NORTH 37.2096562°
LONGITUDE (NAD 27)
WEST 109.2980664°

NORTHING
205257.31
EASTING
2641223.49

GEO. BOTTOM HOLE VALUES

LATITUDE (NAD 83)
NORTH 37.2070061°
LONGITUDE (NAD 83)
WEST 109.2959512°

LATITUDE (NAD 27)
NORTH 37.2070076°
LONGITUDE (NAD 27)
WEST 109.2952814°

NORTHING
204312.30
EASTING
2642057.10

DATUM
UTAH SP SOUTH (1927)

1000' 500' 0 1000' 2000'

LEGEND

- ◆ SURFACE WELL LOCATION
- BOTTOM HOLE LOCATION
- CALCULATED POSITION
- ⊕ SECTION CORNER POSITION CALCULATED FROM WITNESS CORNER
- FOUND MONUMENT
- L DENOTES 90° TIE
- (C) CALCULATED

I, Sherry Glass, Sr. Regulatory Technician for Resolute Aneth, LLC, certify that the final footages shown on this plat are correct to the best of my knowledge.



PLAT OF PROPOSED WELL LOCATION FOR RESOLUTE NATURAL RESOURCES COMPANY

P.O. BOX 3651
FARMINGTON, N.M.
(505) 334-0408

SCALE: 1" = 1000'
JOB No. 10443
DATE: 02/25/13

**SURFACE: 1968' F/NL & 697' F/EL, SECTION 20,
BOTTOM HOLE: 2346' F/SL & 113' F/WL, SECTION 21,
T. 41 S, R. 24 E, SALT LAKE MERIDIAN
SAN JUAN COUNTY, UTAH**

END OF WELL REPORT



Client: Resolute Natural Resources
Well Name: Ratherford Unit 20-42H
Location: Sec 20 -T41S-R24E
Job Number: 1330
Start Date: 26-Sep-13 **End Date:** 7-Oct-13

PERSONAL

Operator Personnel
Company Man:
 Dee Giles / Art Velasquez
Geologist:
 Jason Burris

Directional Personnel
 David Westbrook
 Joe Leskosek
 Shane Sligar

Survey Personnel
 Ron Alexis
 Greg Vlaming

WELL SUMMARY

KOP: 5186	TD: 6929	FEET DRLG.: 1743	TOTAL DRLG. HRS.: 120	AVG. ROP:
# DAYS: 9	# BITS: 2	# BHA'S: 3	NO. OF MOTORS: 2	14.5

Well Parameters

RE-ENTRY	TOTAL DEPTH	
	MAIN HOLE	LEG 2
HOLE SIZE: 6 1/8 WHIPSTOCK SETTING: 139° Coordinates: MD: 6929 TVD: 5586.86 INC: 90.3 DIRECTION: 139.3 VERTICAL SECTION: 1526.31 N / S: -1153.2 E / W: 999.89	HOLE SIZE: Coordinates: MD: TVD: INC: DIRECTION: VERTICAL SECTION: N / S: E / W:	HOLE SIZE: N/A Coordinates: MD: TVD: INC: DIRECTION: VERTICAL SECTION: N / S: E / W:

RE-ENTRY DATA:

TOP OF WINDOW: 5174 DIRECTION: 139°
 BOTTOM OF WINDOW: 5181.75 RAT HOLE: 10'

DIRECTIONAL COMMENTS

BHA 1 - Drilled F/ 5186' - 5565' , 379 ft in 39.5 hrs - 9.6 ft/hr

Bit - 6 1/8" Security insert QH30R with 3x18 jets . Motor is a Cavo 4 3/4", 7/8 lobe, 3.8 stage, .52 rev/gal, set at 1.76° with a 6.0" stabilized bearing pack. Motor delivered 18%/100'. TOOH due to falling behind in build section. BRN is 20.7%/100' to land at TVD of 5571'

BHA 2 - Drilled F/ 5565' - 5717' , 152ft in 16.25hrs - 9.4 ft/hr

Bit - 6 1/8" Security PDC MM64D with 6x18's for jets . Motor is a Cavo 4 3/4", 7/8 lobe, 3.8 stage, .52 rev/gal, set at 2.23° with a 6.0" stabilized bearing pack. TOOH to dial motor to 1.76°. Motor delivered 22%/100'. Need 11%/100' to land at TVD of 5573'.

BHA 3 - Drilled F/ 5717' - 6929' , 1212ft in 64.25hrs - 20.2 ft/hr

Bit - 6 1/8" Security PDC MM64D with 6x18's for jets . Motor is a Cavo 4 3/4", 7/8 lobe, 3.8 stage, .52 rev/gal, set at 1.76° with a 6.0" stabilized bearing pack. Motor delivered 20%/100' in the lateral. TD was called at 6929' as per Geo.

RECOMMENDATIONS

Have enough barite on location to kill the well if needed. This may have saved one day off of the well.
 The combination of the pdc bit and the higher speed motor yielded better ROP in the lateral section.

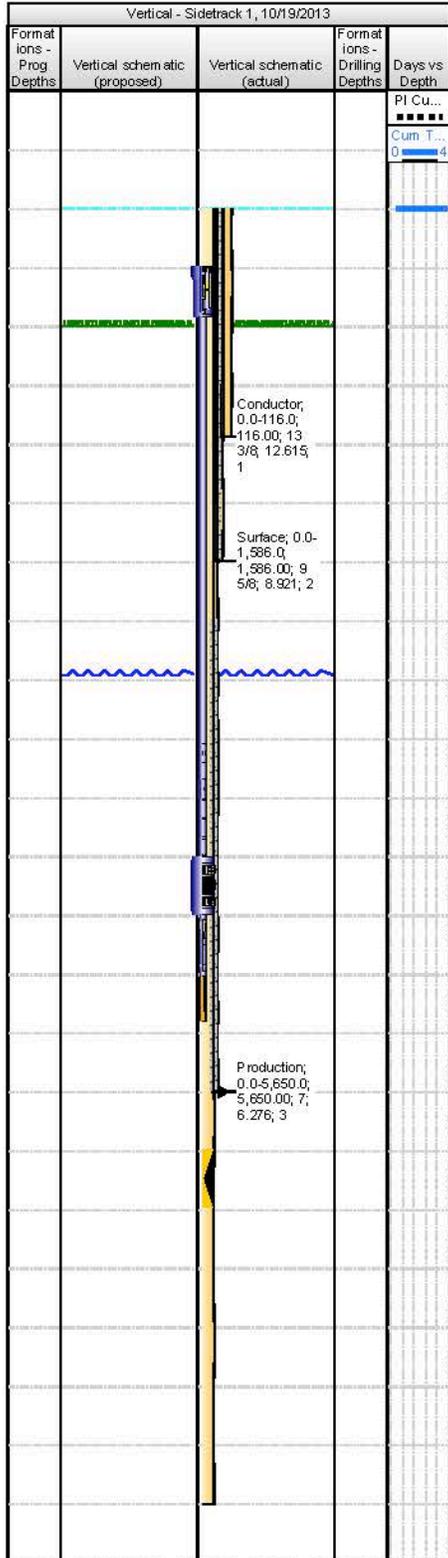
REPORT PREPARED BY:

David Westbrook

Resolute

Well Name: **Ratherford U 2042H**

API Number 4303731051	Section 20	Qtr/Gtr NE	TWN 41S	RGE 24E	Block	Reg Spud Dt/Tm 12/30/1920 00:00	Field Name Ratherford	State/Prov Utah	WI (%) 58.60
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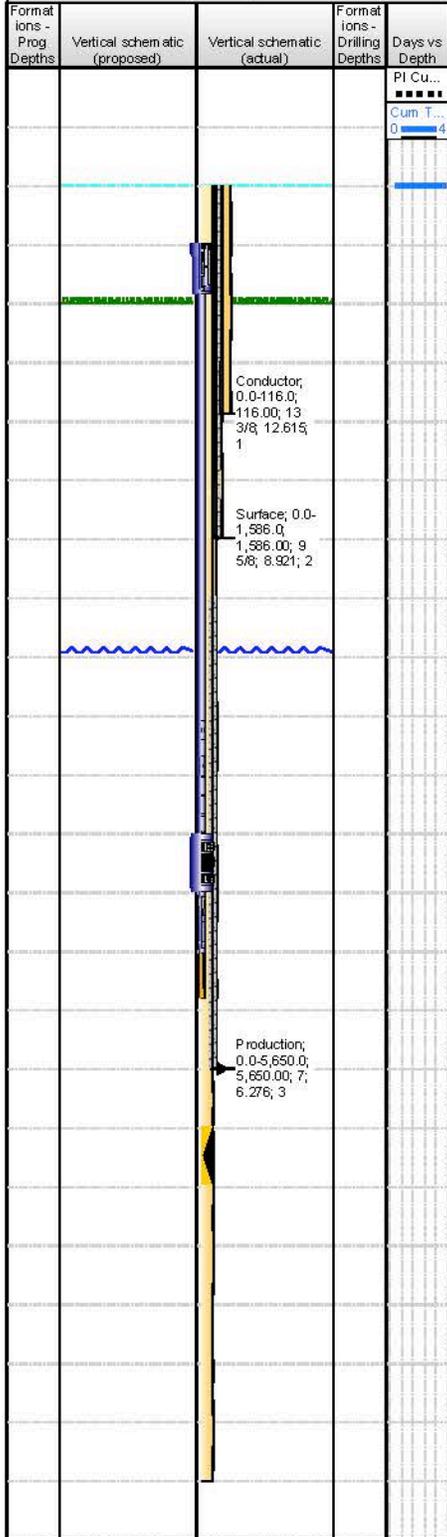
Tubing							
Tubing Description		Set Depth (ftKB)		Run Date		Pull Date	
Tubing - Production		5,110.1		10/19/2013			
Comment Run packer no off tool, FBNAU Tbg							
Item Des	Icon	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing Hanger	Tubing hanger	7		0.67	13.0	13.7	
Tubing, FBNAU	Tubing (blue)	2 7/8	J-55	5,083.17	13.7	5,096.8	
Cross Over	Swedge-reducing	2 7/8		0.65	5,096.8	5,097.5	
On-Off Tool, 1,81 F nipple	On-off tool 1	2 7/8		2.60	5,097.5	5,100.1	
Packer/ Arrow set 1x	Packer 1	7		7.50	5,100.1	5,107.6	
Profile Nipple	Profile nipple	2 3/8		2.00	5,107.6	5,109.6	
Wireline Guide	Wireline guide	2 3/8		0.52	5,109.6	5,110.1	
Rod Strings							
Rod Description		Set Depth (ftKB)		Run Date		Pull Date	
Rod		5,590.0		2/27/2008		8/19/2013	
Comment							
Item Des	Icon	OD (in)	Grade	Len (ft)	Max Tensile (1000lbf)	Top (ftKB)	Btm (ftKB)
Polished Rod	Polished rod	1 1/2		26.00		0.0	26.0
Sucker Rod	Rod (red)	7/8	D	2.00		26.0	28.0
Sucker Rod	Rod (red)	7/8	D	6.00		28.0	34.0
Sucker Rod	Rod (red)	7/8	D	8.00		34.0	42.0
Sucker Rod	Rod (red)	7/8	D	2,000.00		42.0	2,042.0
Sucker Rod	Rod (red)	3/4	D	3,500.00		2,042.0	5,542.0
Stabilizer Bar	Rod guide	1		8.00		5,542.0	5,550.0
Rod Pump	Rod pump	1 3/4		24.00		5,550.0	5,574.0
Gas Anchor	Gas Anchor	1 1/4		16.00		5,574.0	5,590.0
Other Strings							
String Description		Run Date		Set Depth (ftKB)			
Other In Hole							
Description		Icon	Bottom Depth (ftKB)		Run Date		
Retrievable Bridge Plug		Bridge plug - retrievable	5,555.0				

Resolute

Well Name: **Ratherford U 2042H**

API Number 4303731051	Section 20	Qtr/Qtr NE	TWN 41S	RGE 24E	Block	Reg Spud Dt/Tm 12/30/1920 00:00	Field Name Ratherford	State/Prov Utah	WI (%) 58.60
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Vertical - Sidetrack 1, 10/19/2013



Other In Hole

Description	Icon	Bottom Depth (ftKB)	Run Date
Retrievable Bridge Plug	Bridge plug - retrievable	5,186.0	9/26/2013
Retrievable Bridge Plug	Retrievable bridge plug with Recorders	5,084.0	10/7/2013
Retrievable Bridge Plug	Bridge plug - retrievable	534.0	10/8/2013
Whipstock	Whipstock	5,181.0	10/17/2013

Diablo Analytical BTU Report GPA 2145-03 Analysis

Sample Information

Sample Information	
Sample Name	RATH RU
Station Number	2042
Method Name	NGA#12
Injection Date	11/16/2013 12:09:25 PM
Report Date	11/16/2013 12:18:33 PM
BTU Configuration File	GPA 2145-03 EMS.cfg
Data Source	Cerity data system connection
Instrument	G2801AGC - US10317001
Data Saved To:	RATH RU-20131116-121833.btu

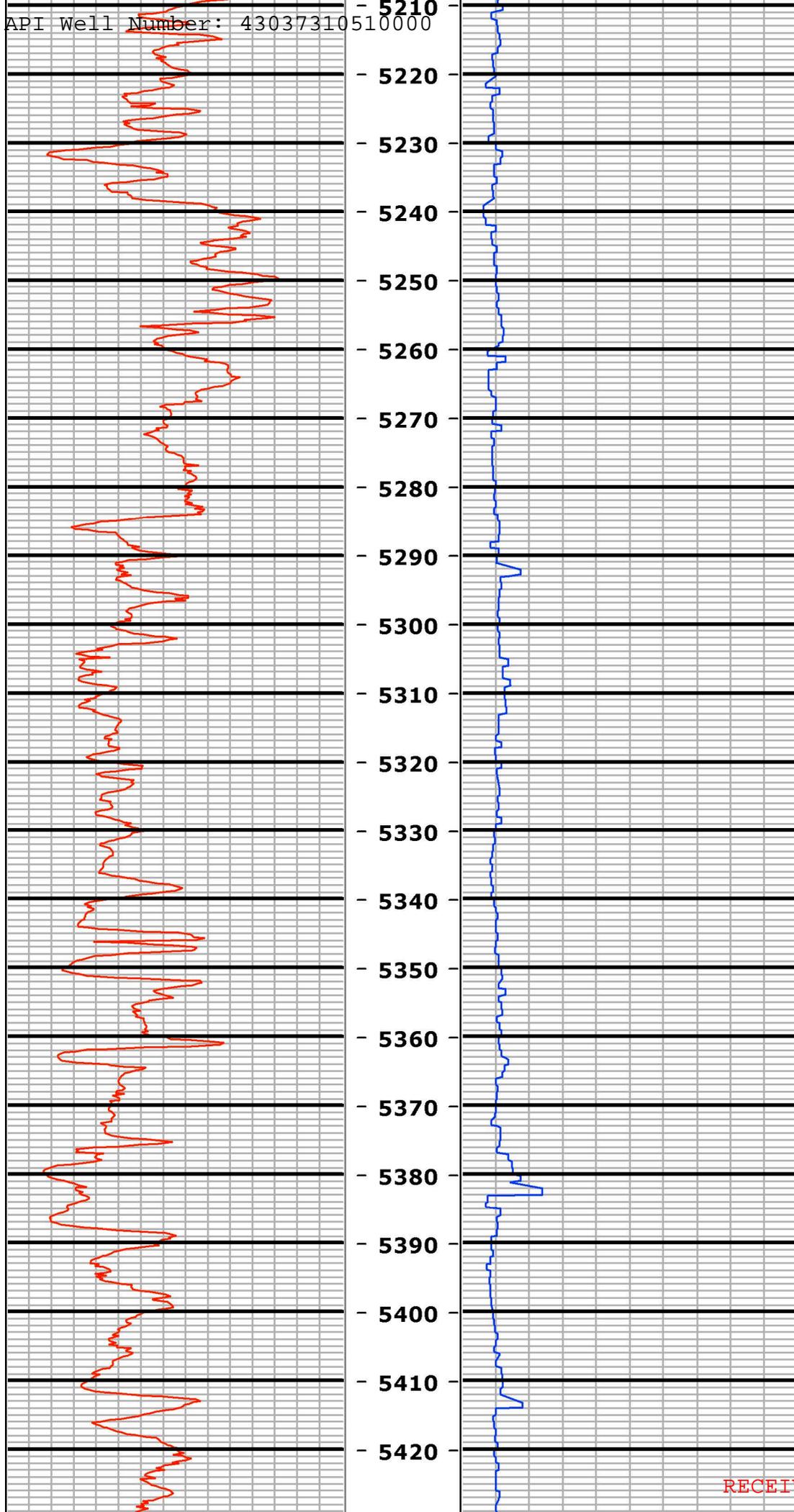
Component Results

Component Name	Ret. Time	Peak Area	Normalized Mole%	Heating Value (Btu / cu. ft.)	Molar Mass Ratio (G)	GPM (Gal. / 1000 cu. ft.)
Nitrogen	0.481	20035	2.4860	0.0000	0.0240	
Methane	0.497	462171	72.7975	736.9558	0.4033	
Carbon Dioxide	0.649	2386	0.2493	0.0000	0.0038	
Ethane	0.729	134124	13.4120	237.9013	0.1393	3.5988
Hydrogen Sulfide	1.168	186	0.0188	0.1201	0.0002	
Propane	1.900	77983	6.8347	172.3726	0.1041	1.8893
i-Butane	0.306	29018	0.7513	24.4888	0.0151	0.2467
n-Butane	0.326	75131	2.0696	67.6748	0.0415	0.6550
i-Pentane	0.391	19208	0.5083	20.3836	0.0127	0.1867
n-Pentane	0.418	23604	0.5981	24.0315	0.0149	0.2175
Hexanes Plus	1.026	22491	0.2744	14.1071	0.0088	0.1195
Total:			100.0000	1298.0356	0.7677	6.9135

Results Summary

Result	Dry	Sat.
Total Unnormalized Mole%	96.7999	
Pressure Base (psia)	14.730	
Water Mole%	-	1.7404
Gross Heating Value (Btu / Ideal cu. ft.)	1298.0356	1275.4447
Gross Heating Value (Btu / Real cu. ft.)	1303.1904	1280.9419
Real Relative Density	0.77041	0.76813
Gas Compressibility (Z) Factor	0.99604	0.99571

API Well Number: 43037310510000



MD=5217.0 INC=9.0
AZM=154.6 TVD=5216.8

MD=5248.0 INC=12.7
AZM=153.6 TVD=5247.2

MD=5279.0 INC=16.3
AZM=157.5 TVD=5277.3

MD=5309.0 INC=21.1
AZM=156.6 TVD=5305.7

MD=5339.0 INC=26.5
AZM=157.9 TVD=5333.1

MD=5370.0 INC=31.2
AZM=154.5 TVD=5360.2

MD=5401.0 INC=35.2
AZM=152.9 TVD=5386.2

RECEIVED: Nov. 18, 2013

API Well Number: 43037310510000

MD=5431.0 INC=38.3
AZM=148.9 TVD=5410.2

5430
- 5440

- 5450

- 5460

MD=5461.0 INC=41.5
AZM=144.8 TVD=5433.2

- 5470

- 5480

- 5490

MD=5492.0 INC=43.6
AZM=143.2 TVD=5456.1

- 5500

- 5510

- 5520

MD=5523.0 INC=46.4
AZM=142.4 TVD=5478.0

- 5530

- 5540

- 5550

MD=5552.0 INC=48.8
AZM=138.3 TVD=5497.5

- 5560

- 5570

- 5580

MD=5582.0 INC=53.1
AZM=137.8 TVD=5516.4

- 5590

- 5600

- 5610

MD=5613.0 INC=59.7
AZM=137.2 TVD=5533.6

- 5620

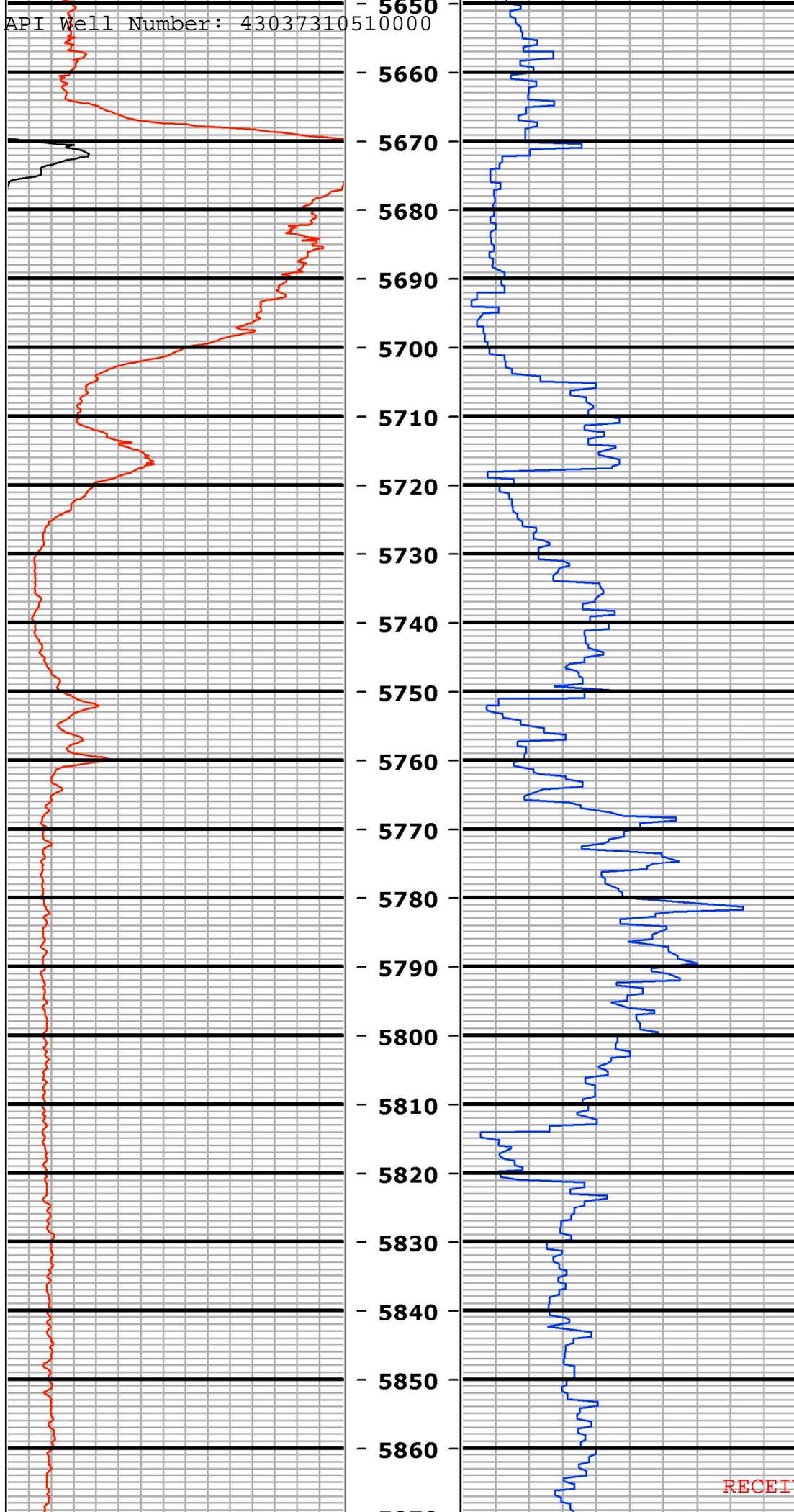
- 5630

- 5640

MD=5645.0 INC=66.5
AZM=137.1 TVD=5548.1

RECEIVED Nov 18 2013

API Well Number: 43037310510000



MD=5675.0 INC=73.3
AZM=137.3 TVD=5558.4

MD=5706.0 INC=80.7
AZM=135.7 TVD=5565.3

MD=5738.0 INC=84.7
AZM=134.8 TVD=5569.4

MD=5769.0 INC=87.7
AZM=134.5 TVD=5571.4

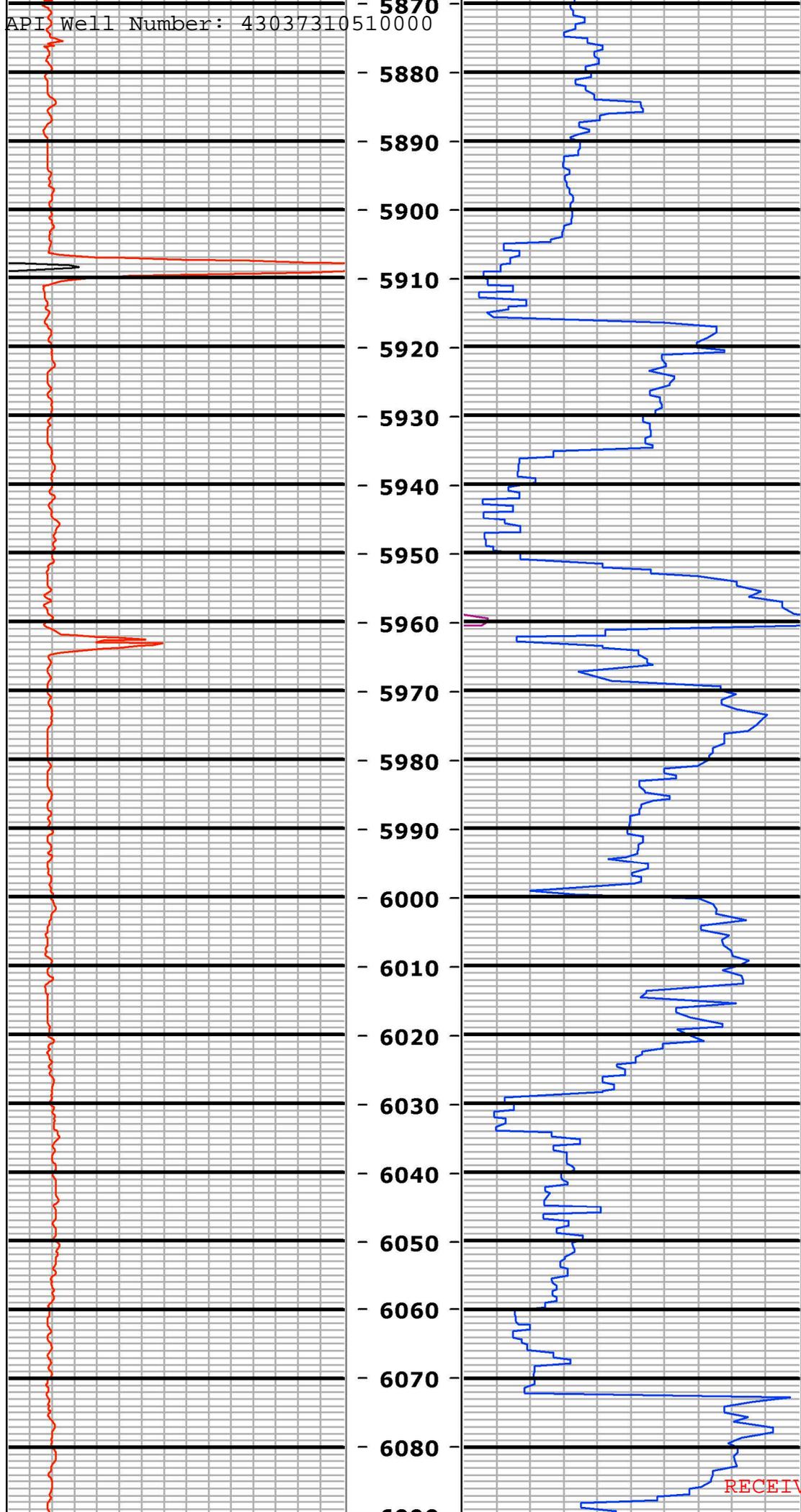
MD=5800.0 INC=88.4
AZM=134.7 TVD=5572.5

MD=5831.0 INC=88.7
AZM=134.6 TVD=5573.3

MD=5862.0 INC=88.8
AZM=134.4 TVD=5574.0

RECEIVED: NOV. 18, 2013

API Well Number: 43037310510000



MD=5892.0 INC=89.1
AZM=134.3 TVD=5574.5

MD=5924.0 INC=88.9
AZM=135.6 TVD=5575.1

MD=5955.0 INC=89.3
AZM=138.0 TVD=5575.6

MD=5986.0 INC=89.9
AZM=138.5 TVD=5575.8

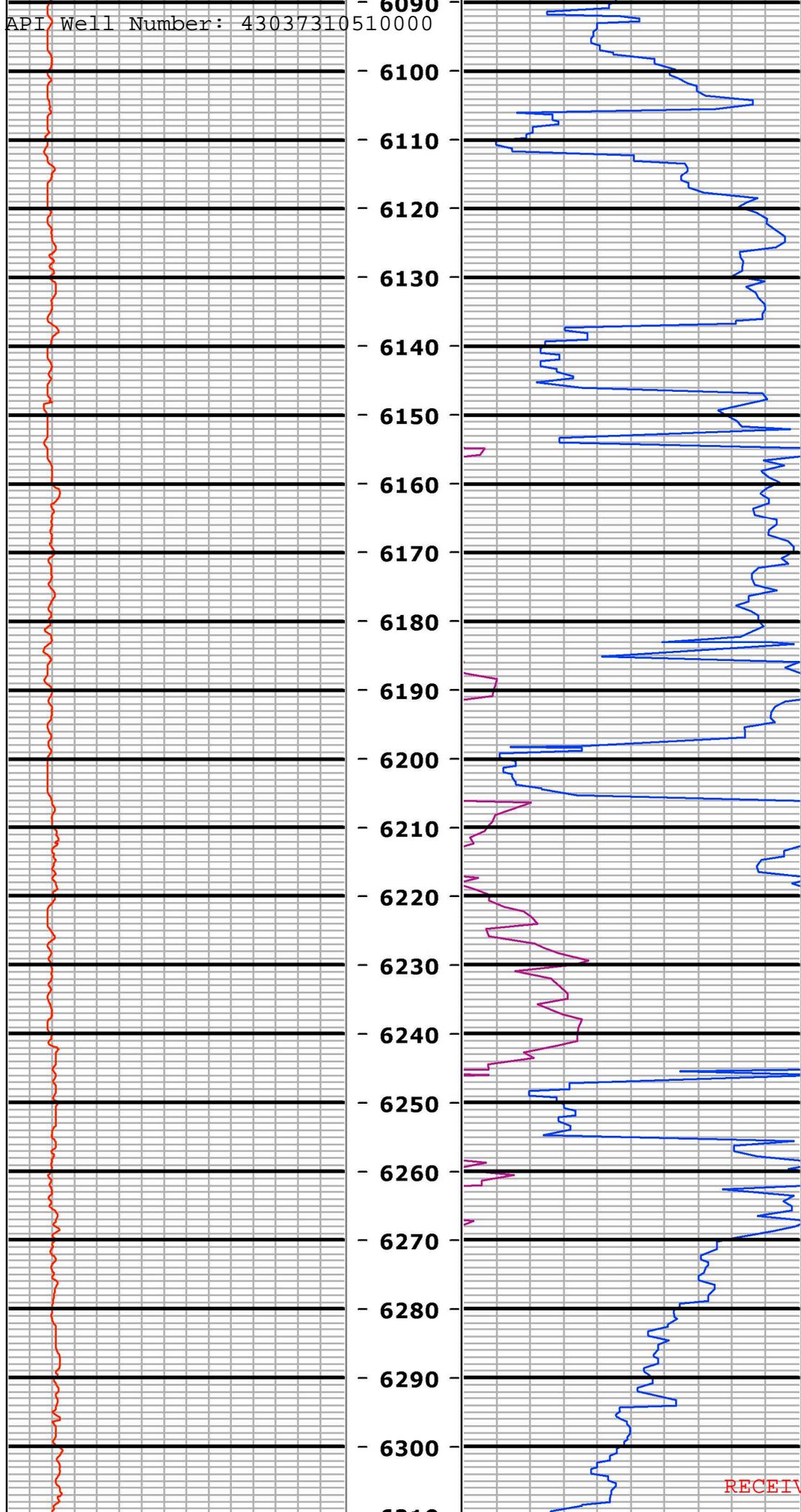
MD=6017.0 INC=90.2
AZM=138.4 TVD=5575.7

MD=6048.0 INC=89.9
AZM=137.7 TVD=5575.7

MD=6079.0 INC=90.5
AZM=137.8 TVD=5575.6

RECEIVED: Nov. 18, 2013

API Well Number: 43037310510000



6090

6100

6110

6120

6130

6140

6150

6160

6170

6180

6190

6200

6210

6220

6230

6240

6250

6260

6270

6280

6290

6300

MD=6109.0 INC=90.9
AZM=138.4 TVD=5575.2

MD=6140.0 INC=89.6
AZM=137.8 TVD=5575.1

MD=6172.0 INC=89.8
AZM=138.3 TVD=5575.3

MD=6203.0 INC=90.2
AZM=137.8 TVD=5575.3

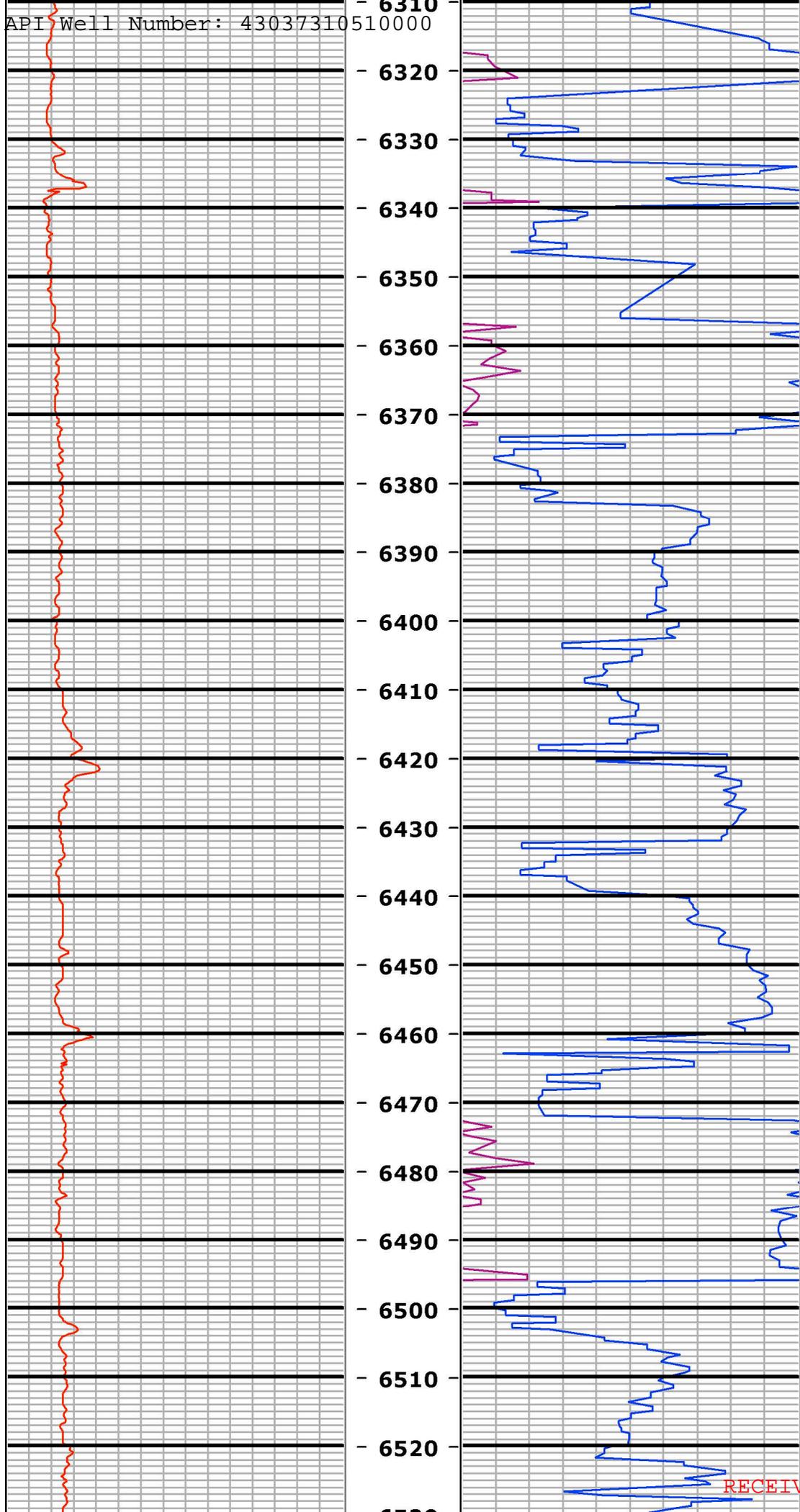
MD=6234.0 INC=90.9
AZM=138.2 TVD=5575.0

MD=6266.0 INC=89.8
AZM=139.0 TVD=5574.8

MD=6297.0 INC=90.6
AZM=139.4 TVD=5574.7

RECEIVED: Nov. 18, 2013

API Well Number: 43037310510000



MD=6329.0 INC=90.4
AZM=139.0 TVD=5574.4

MD=6360.0 INC=89.0
AZM=138.5 TVD=5574.6

MD=6389.0 INC=88.0
AZM=137.3 TVD=5575.3

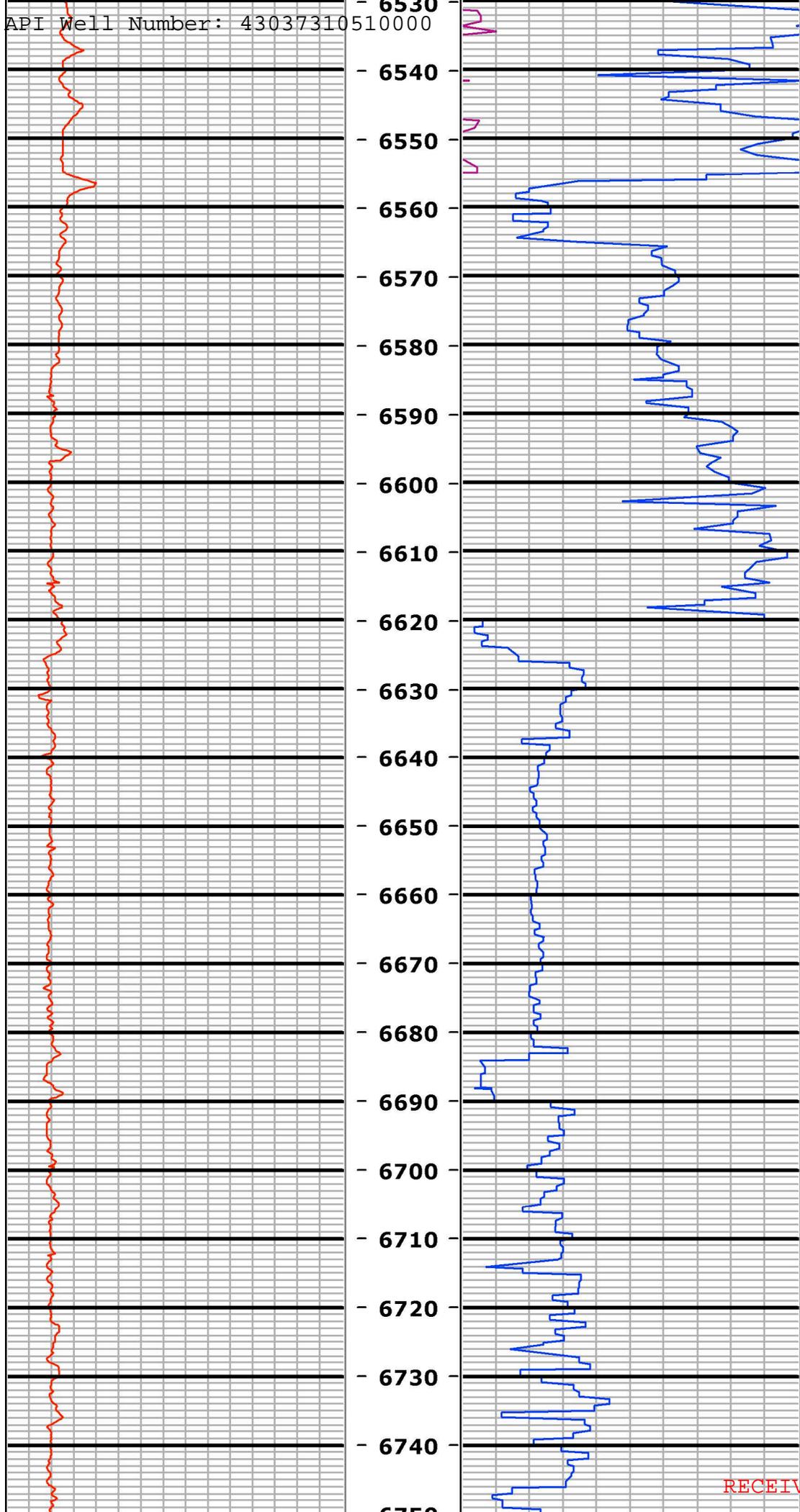
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AZM=137.6 TVD=5576.2

MD=6452.0 INC=89.7
AZM=138.6 TVD=5576.6

MD=6483.0 INC=88.4
AZM=137.9 TVD=5577.1

MD=6514.0 INC=87.8
AZM=138.2 TVD=5578.1

API Well Number: 43037310510000



6530
6540
6550
6560
6570
6580
6590
6600
6610
6620
6630
6640
6650
6660
6670
6680
6690
6700
6710
6720
6730
6740
6750

MD=6545.0 INC=88.5
AZM=138.5 TVD=5579.1

MD=6576.0 INC=87.5
AZM=138.7 TVD=5580.2

MD=6608.0 INC=87.7
AZM=138.1 TVD=5581.6

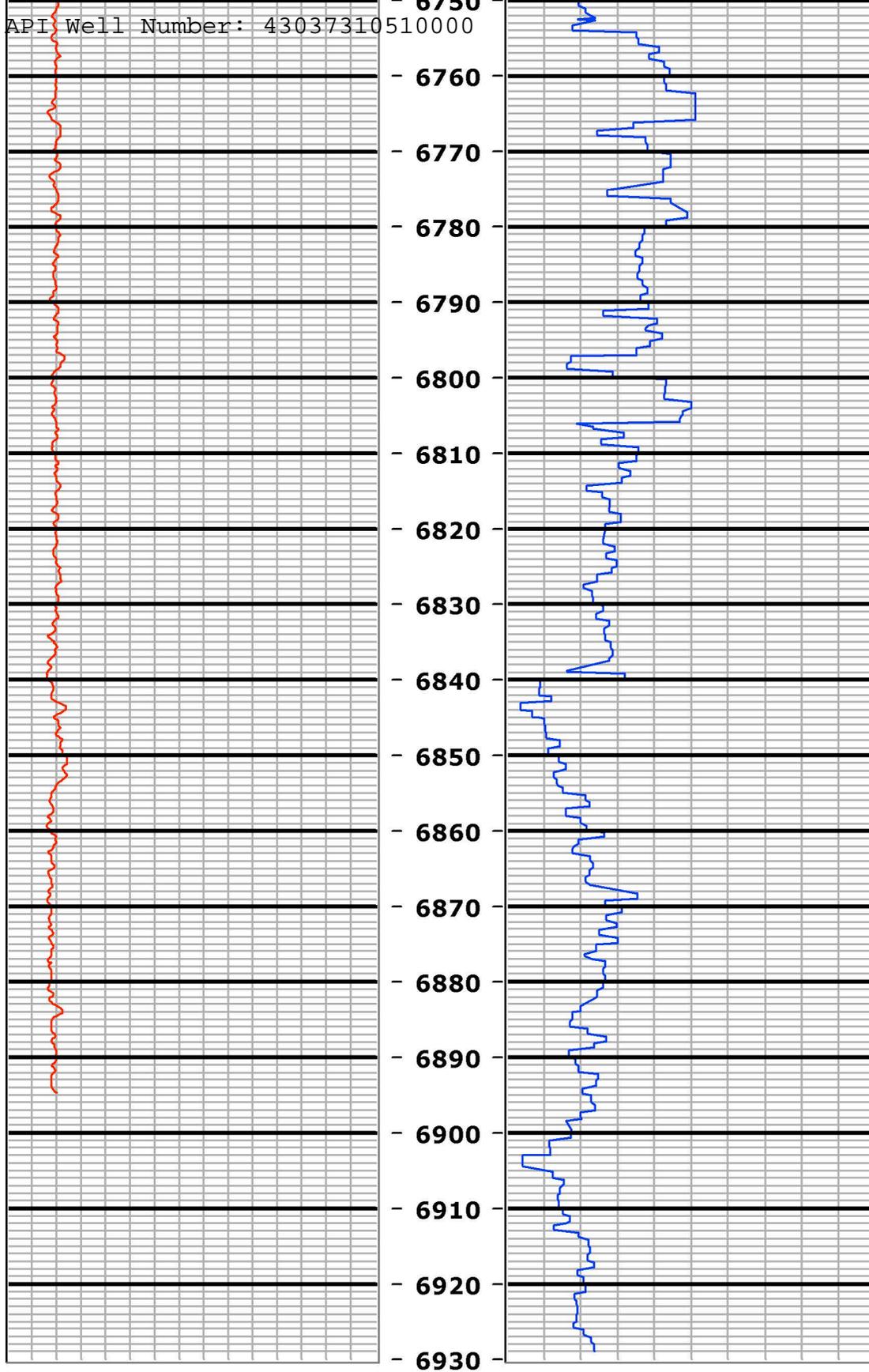
MD=6639.0 INC=88.0
AZM=139.0 TVD=5582.7

MD=6671.0 INC=88.2
AZM=139.4 TVD=5583.8

MD=6702.0 INC=87.0
AZM=139.6 TVD=5585.1

MD=6732.0 INC=87.5
AZM=139.8 TVD=5586.5

API Well Number: 43037310510000



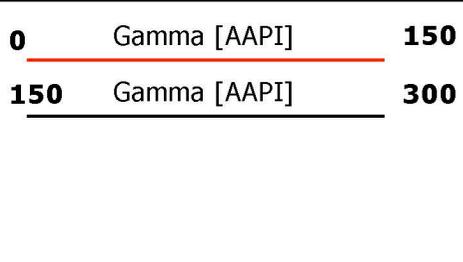
MD=6763.0 INC=89.2
AZM=139.3 TVD=5587.4

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AZM=139.6 TVD=5587.7

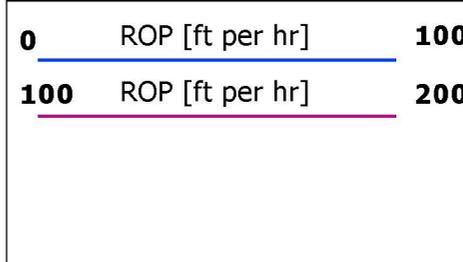
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AZM=139.3 TVD=5587.8

MD=6856.0 INC=90.4
AZM=139.4 TVD=5587.6

MD=6887.0 INC=90.9
AZM=139.3 TVD=5587.3



Feet
5":100'
MD



Well Name: **Ratherrord Unit 20-42H**
API Well Number: 43037310510000
Well Lic: _____
Mezintel
API/UWI: **43-037-31051**
Surface LSD: **SEC 20-T41S-R24E** KB: **4784.00**
State/Prov: **UT** Job #: **MWD Tech** GL: **4770.0**
Country: **USA** MWD Kit: **101** DF: **14.00**

Mezintel

TWD Log

5"=100ft Feet

Oil Co: **Resolute Natural Resources**
 Well Name: **Ratherford Unit 20-42H**
 LSD: **SEC 20-T41S-R24E**
 State/Prov: **UT**
 Country: **USA**
 Job #: **MWD Tech 1330**

Oil Company: **Resolute Natural Resources**
 Well Name: **Ratherford Unit 20-42H**
 LSD: **SEC 20-T41S-R24E**
 State/Prov: **UT**
 Country: **USA**
 Job #: **MWD Tech 1330**
 Drilling Co. **D & J Drilling**
 Rig #: **D & J 1**
 Co Rep 1: **Dee Giles**
 Co Rep 2: **Art Velasquez**
 Geologist 1: **David Westbrook**
 Geologist 2: **Joe Leskosek**
Ron Alexus
Greg Vlaming
 MWD 1: **101**
 MWD 2: **101**
 MWD Kit: **101**

Well Lic: **API/UWI:43-037-31051**
 AFE #: **10013783**

Casing Depths		TVD		Depth		Date	
Run #	Hole Size (in)	Gamma Offset	Survey Offset	Depth Start	Depth End	Date Start	Date End
Surface: 5174		Start: 5174				9/26/13	
Intermediate: 5587.76		End: 5587.76				KB#784.00	
01	6 1/8	35.20	42.00	5184.00	5565.40	Sep 29, 13	Oct 01, 13
02	6 1/8	35.20	42.00	5565.40	5717.50	Oct 01, 13	Oct 02, 13
03	6 1/8	35.20	42.00	5717.50	6929.90	Oct 02, 13	Oct 07, 13

Mezintel uses its best efforts to provide customers with accurate information on services performed but will not be held liable or responsible for accuracy of information or interpretation.

Client: **Resolute Natural Resources**

Well Name: **Ratherford Unit 20-42H**

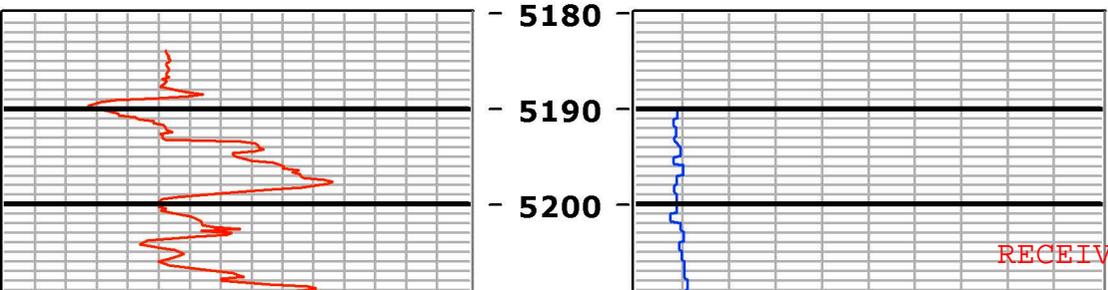
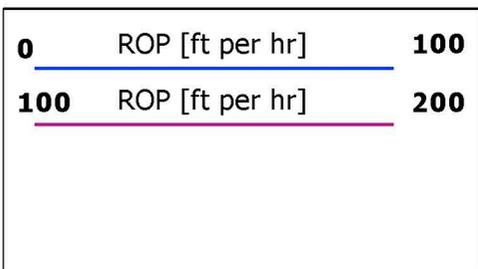
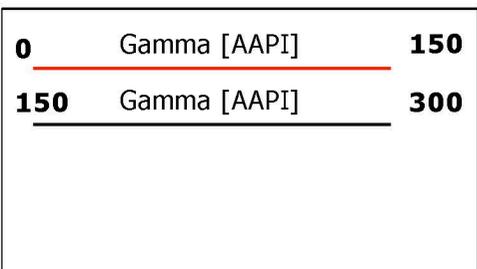
Well Lic: _____

API/UWI: **43-037-31051**

Surface LSD: **SEC 20-T41S-R24E** KB: **4784.00**

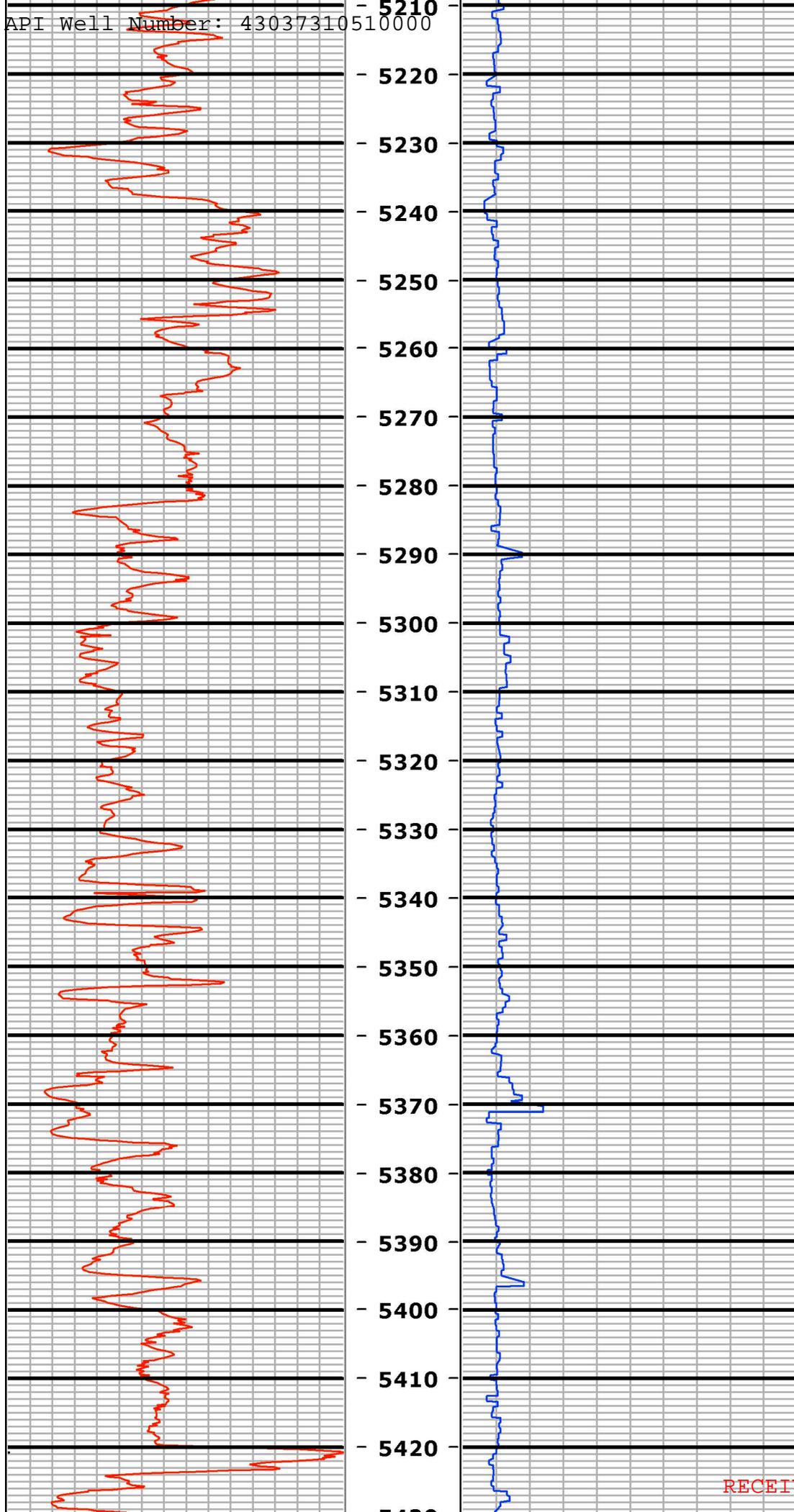
State/Prov: **UT** Job #: **MWD Tech** GL: **4770.0**

Country: **USA** MWD Kit: **101** DF: **14.00**



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API Well Number: 43037310510000



MD=5217.0 INC=9.0
AZM=154.6 TVD=5216.8

MD=5248.0 INC=12.7
AZM=153.6 TVD=5247.2

MD=5279.0 INC=16.3
AZM=157.5 TVD=5277.3

MD=5309.0 INC=21.1
AZM=156.6 TVD=5305.7

MD=5339.0 INC=26.5
AZM=157.9 TVD=5333.1

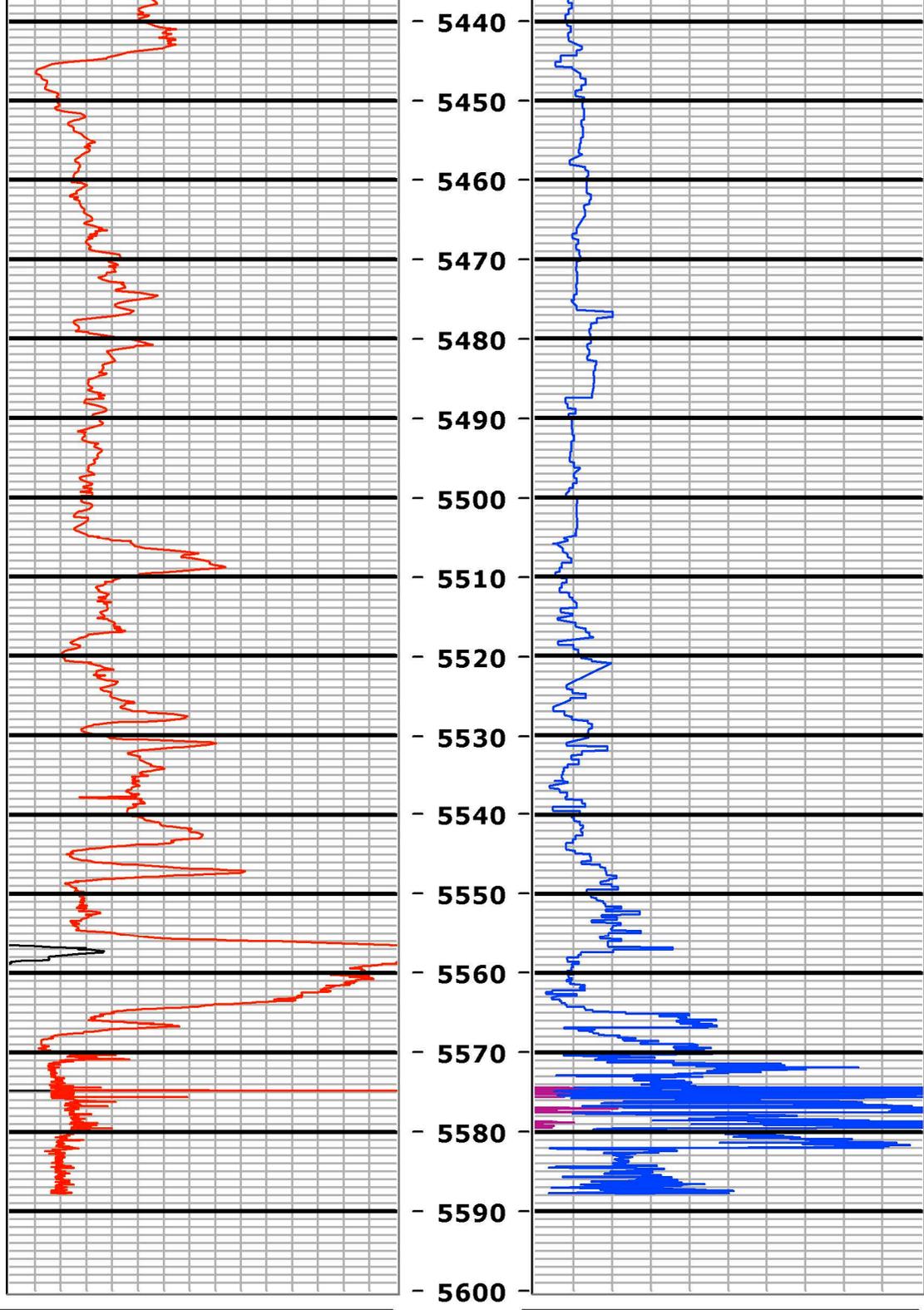
MD=5370.0 INC=31.2
AZM=154.5 TVD=5360.2

MD=5401.0 INC=35.2
AZM=152.9 TVD=5386.2

MD=5431.0 INC=38.3
AZM=148.9 TVD=5410.2

API Well Number: 43037310510000

MD=5461.0 INC=41.5
AZM=144.8 TVD=5433.2



MD=5492.0 INC=43.6
AZM=143.2 TVD=5456.1

MD=5523.0 INC=46.4
AZM=142.4 TVD=5478.0

MD=5552.0 INC=48.8
AZM=138.3 TVD=5497.5

MD=5582.0 INC=53.1
AZM=137.8 TVD=5516.4

MD=5613.0 INC=59.7
AZM=137.2 TVD=5533.6

MD=5645.0 INC=66.5
AZM=137.1 TVD=5548.1

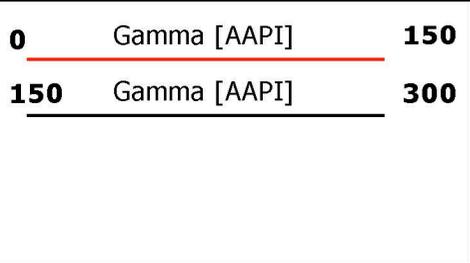
MD=5675.0 INC=73.3
AZM=137.3 TVD=5558.4

MD=5706.0 INC=80.7
AZM=135.7 TVD=5565.3

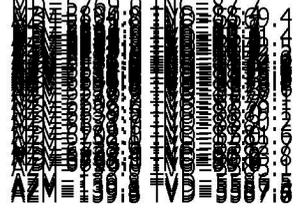
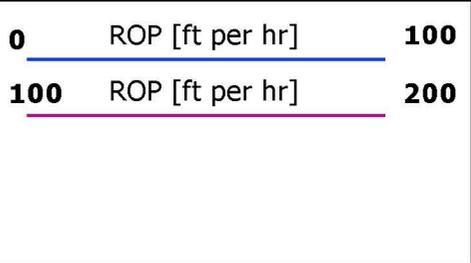
MD=5737.0 INC=88.1
AZM=135.7 TVD=5572.4

MD=5768.0 INC=95.5
AZM=135.7 TVD=5579.5

MD=5799.0 INC=102.9
AZM=135.7 TVD=5586.6



Feet
5":100'
TVD



Client: **Resolute Natural Resources**

Well Name: **Ratherford Unit 20-42H**

Well Lic: _____

API/IWT: **43-037-31051**

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API Well Number: 43037310510000	AP/OWI: SEC 20-T41S-R24E	KB:	4784.00
Surface LSP:	State/Prov: UT	Job #: MWD Tech	GL: 4770.0
	Country: USA	MWD Kit: 101	DF: 14.00