

Scout Report sent out
 Noted in the NID File
 Location map pinned
 Approval or Disapproval Letter

Date Completed, P. & A, or
 operations suspended

4-7-59

Pin changed on location map
 All Work and Record of A & P
 Water Check-Off Test
 Gas-Off Ratio Test
 Well Log Filed

7-9-64 Connected to Water Superintendents Well

FILE NOTATIONS

Entered in NID File
 Entered On S R Sheet
 Location Map Pinned
 Card Indexed
 IWR for State or Fee Land

Checked by Chief _____
 Copy NID to Field Office _____
 Approval Letter
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 3/7/59 Location Inspected _____
 OW WW _____ TA _____ Bond released _____
 GW _____ OS _____ PA _____ State of Fee Land _____

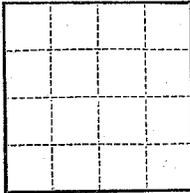
LOGS FILED

Driller's Log 5/13/59
 Electric Logs (No.) 5
 E _____ I _____ E-I GR GR-N Micro
 Lat. _____ Mi-L _____ Sonic _____ Others _____

*Gasless Collar logs
 Perfecting Record*

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-20-603-4043

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	<input type="checkbox"/>	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	<input type="checkbox"/>	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....	<input type="checkbox"/>	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	<input type="checkbox"/>	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	<input type="checkbox"/>	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<input type="checkbox"/>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Cortez, Colorado January 14, 1959

Navajo "B"
Well No. 2 is located 1980 ft. from 300 ^S line and 1980 ft. from W ^{Ed} line of sec. 10

NE SW Sec. 10 41S 24E S.L.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
White Mesa San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the Ungraded Ground floor above sea level is 4573.5 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drill 17-1/2" hole to approximately 160', set 160' of 13-3/8" conductor pipe and cement to surface. Drill 11" hole to approximately 1600', set 8-5/8" casing and cement to surface. Drill 7-7/8" hole to total depth of approximately 5650', run 5-1/2" casing and cement with a approximately 250 sx. cement. Complete in Paradox formation.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address Box 548

Cortez, Colorado

By C. M. Boles

Title _____

C. M. Boles
Dist. Supt.

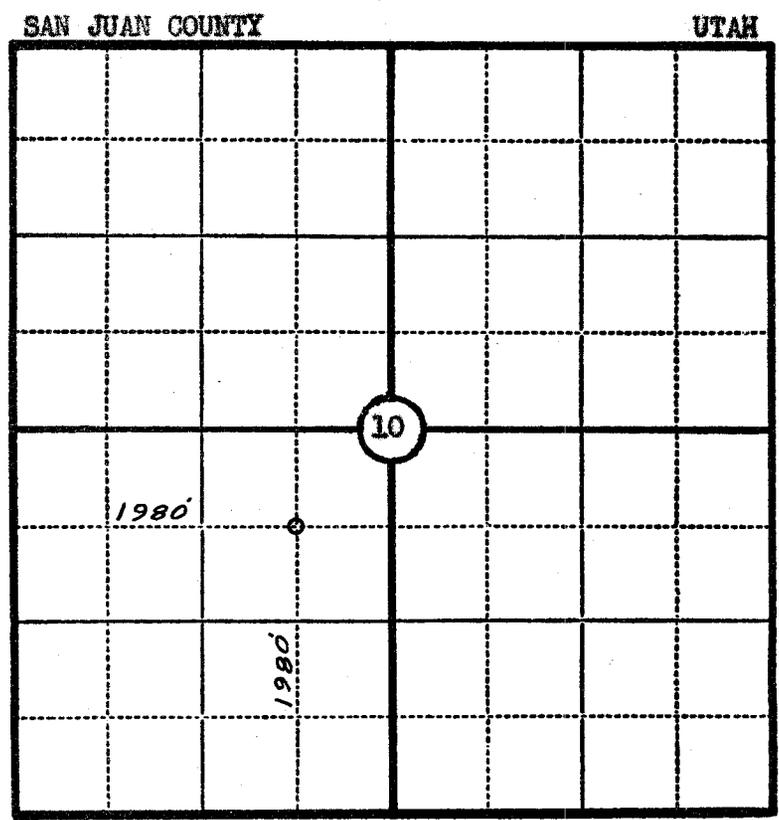
Company PHILLIPS PETROLEUM COMPANY

Lease NAVAJO "B" Well No. 2

Sec. 10, T. 41 S., R. 24 E. S.L.M.

Location 1980' FROM THE SOUTH LINE AND 1980' FROM THE WEST LINE.

Elevation 4573.5 UNGRADED GROUND.



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal: James P. Leese
Registered Land Surveyor.
James P. Leese
Utah Reg. No. 1472

Surveyed 15 October, 1958

January 15, 1959

Phillips Petroleum Company
P. O. Box 548
Cortez, Colorado

Attention: C. M. Boles, District Superintendent

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo B-2, which is to be located 1980 feet from the south line and 1980 feet from the west line of Section 10, Township 41 South, Range 24 East, S1EM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE SECRETARY

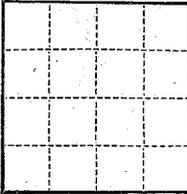
CBF:co

cc: Phil McGrath, Dist. Eng.
USGS, Farmington,
New Mexico

Form 9-331b
(April 1952)

(SUBMIT IN TRIPLICATE)

Indian Agency _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Tribal

Allottee **14-20-603-4943**

Lease No. _____

7/14
5/5/59

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo "B" **Cortez, Colorado** **April 14**, 19**59**

Well No. **No. 2** is located **1900** ft. from **XX** line and **1900** ft. from **EW** line of sec. **10**
NE SW Sec. 10 **41S** **24E** **51N**

White Mesa (Field) **San Juan** (County or Subdivision) **Utah** (State or Territory)
ungraded ground (County or Subdivision)

The elevation of the derrick floor above sea level is **4573.5** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 10:30 PM 1/21/59. Drilled 17-1/4" hole to 175'. Set & cemented 4 jts 13-3/8" 27.1# Arco SJ SW casing at 175' with 175 sacks regular cement. Pumped plug to 145' at 4:45 PM 1/22/59. Cement circulated. WOC 24 hours - tested casing with 400# for 30 minutes - tested okay.

Drilled 11" hole to 1429'. Set & cemented 8-5/8" 24# J-55 ST&C casing at 1428.91' with 330 sacks cement, 126 sacks Diacol "D", 620# calcium chloride, 165# Flocals, 660# Tuff plug and 125 sacks cement around shoe. Filled annulus with 38 sacks regular cement. Pumped plug to 1399' at 4:50 PM 1/24/59. Cement circulated. WOC 24 hours. Tested casing with 750# for 30 minutes - tested okay.

Drilled 7-7/8" hole to 5420'. Cored from 5420-59, 5449-80, 5480 to 5540, 5540-5576, 5576 to 5625'. Reamed core hole to 7-7/8" and drilled 7-7/8" hole to 5625'.
(Continued on reverse)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

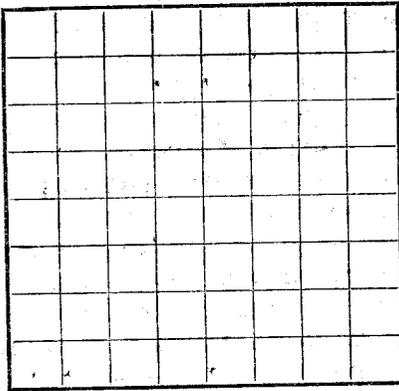
Company **Phillips Petroleum Company**
Address **P. O. Drawer 1150**
Cortez, Colorado

By **G. H. Boles**
Title **District Superintendent**

an Schlumberger Induction & Micro Logs to 5627'. Set & cemented 170 jts 5-1/2" OD
14# J-55 casing at 5627.79' with 132 sacks cement, 130 sacks Diacel "D", 496# calcium
chloride and pumped plug to 5591.44' at 6:45 AM 2/13/59. Waited on cement 24 hours.
Tested casing with 750# 30 minutes - tested okay.

5591.44'

U. S. LAND OFFICE Navajo
SERIAL NUMBER Y 14-20-603-4043
LEASE OR PERMIT TO PROSPECT ribal



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Phillips Petroleum Company Address P. O. Box 1150, Cortez, Colorado
Lessor or Tract Navajo "B" Field White Mesa State Utah
Well No. 2 Sec. 10 T. 41S R. 24E Meridian SLM County San Juan
Location 1980 ft. [N.] of S Line and 1980 ft. [E.] of W Line of Sec. 10 Elevation 4586
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____

Date May 8, 1959

Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling January 21, 1959 Finished drilling February 12, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Fresh water shows in the Jurassic, Navajo and Wingate formations. Salt water shows in the Frissee, Shinarump formations and the Permian De Chelly formation

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13-3/8	27.1	3W 8d	Armo	162	Howco		5439	5457	Oil Prod
8-5/8	21.4	8 rd	J-55	1138	Howco		5466	5472	" "
5-1/2	14.7	8 rd	J-55	5668	ector		5480	5486	" "
							5519	5531	" "

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	175	175	Circ.		
8-5/8	1429	800 cu ft	Circ. (filled annulus with 38 sx.)		
5-1/2	5628	550 cu. ft.	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

FOLD MARK

FOLD

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to **5629** feet, and from _____ feet to _____ feet

DATES

Put to producing _____, 19____
 The production for the first **59** hours was _____ barrels of fluid of which **March 7** % was oil; **59** %
 emulsion; _____ % water; and _____ % sediment. **767** Gravity, °Bé. **100**
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

195 _____, Driller
 _____, Driller
Moran Bros., Inc., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1420	2238	818	Chinle
2238	2318	80	Shinarump
2318	2400	162	Moenkopi
2400	2547	67	Cutler - Upper cutler
2547	2700	153	Cutler - De Chelly
2700	4470	1770	Organ Rock
4470	5418	948	Honaker Trail
5418	5629	211	Paradox
5629	5591	38	PBTD - top cement

MAY 13 1929

FORMATION RECORD—CONTINUED

HISTORY OF OIL OR GAS WELL

10-43094-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded 10:30 P.M. 1-21-59. Drilled 17-1/4" hole to 175'. Set and cemented 4 jts. 13-3/8" 27.1# Amco SW casing at 175' with 175 sx. regular cement. Pumped plug to 145' at 4:45 P.M. 1-22-59. Cement circulated. WOC 24 hours. Tested casing 400# 30 minutes - o.k.

Drilled 11" hole to 1429'. Set & cemented 8-5/8" 24# J-55 ST&C casing at 1428.91 with 330 sx. cement, 126 sx. Diacel "D", 620# calcium chloride, 165# floccle, 660# tuff plug and 125 sx. cement around shoe. Pumped plug to 1399' @ 4:50 PM 1-24-59. Cement circulated. WOC 24 hours. Tested casing 750# 30 minutes - o.k. * Filled annulus w/38 sx. regular cement.

Drilled 7-7/8" hole to 5420'. Cored from 5420-59, 5449-80, 5480-5540, 5540-5576, 5576-5625'. Beamed core hole to 7-7/8" and drilled 7-7/8" hole to 5629'. Ran Schlumberger Induction & Micro logs to 5627'. Set & cemented 170 jts. 5-1/2" OD, 14# J-55 casing at 5627.79 w/132 sx. cement, 130 sx. Diacel "D", 496# calcium chloride and pumped plug to 5591.44 @ 6:45 AM 2-13-59. WOC 24 hours. Tested casing 750# 30 minutes - okay.

Ran tubing and tagged top cement at 5594'. Ran Schlumberger Gamma Ray collar locator log to 5594'. Perforated 5-1/2" casing Paradox Line w/4 jet shots/ft. from 5502-03 EL & RL measure. Ran magnesium Model A Retainer and set at 5490. Ran tubing and Halliburton broke down formation from 6000 to 4000#. Pumped in 1-1/2 BW in 1 minute. Squeeze cemented casing perforations from 5502 to 5503 w/50 sx. Latex cement. 5900# maximum pressure, 5900# holding pressure. Squeezed 42 sx. into formation, reversed out 8 sx. Completed cementing 12:30 PM 2-19-59. WOC 24 hours. Drilled magnesium retainer and cement to 5591. Pulled tubing with bit and reran w/Baker Model GJ Packer. Packer set at 5465'. Swabbed well to 5465 to dry test perforations 5502-03. Set 2 hours. No fluid came in. Pulled tubing & Baker Model GJ Packer. Perforated 5-1/2" casing (Paradox Line) from 5519-31 EL & RL Measure w/4 jet shots/ft. Ran 2-1/2" OD J55 tubing with packer. Set packer at 5512. Swabbed to bottom recovering 200' clean oil every 1/2 hour - kicked off and flowed 15-1/2 BO in 1 hour & died. Swabbed 11 hours, recovering 35 BO. Shut in overnight. Opened well, flowed 15 BO in 1 hour and died. Swabbed 11 hours recovering 32 BO, no water. Shut in overnight. Acidized casing perforations 5519-31 with 500 gallons regular 15% acid, flushed w/35 BO. Maximum pressure 1400#, minimum pressure 0#. Average treating rate - 1BPM. Completed acidizing 9:30 A.M. 2-27-59. Swabbed 1/2 hour, 45 BO and acid water and kicked off. Flashed 225 BO, no water in 5 hours through 3/4" choke, GOR 511. Killed well, pulled tubing and packer. Set Baker Model 415D Packer at 5494' with Schlumberger wire line, top GR plug at 5492. Pressured casing above packer with 2500# for 10 minutes and held o.k. Perforated 5-1/2" casing with Schlumberger jet shots per foot at 5480-5486 EL measure 5481-87 EL measure. Filled hole with water and dropped Line Wells junk basket on top DR plug at 5485'. Checked collars and perforated Paradox Line with Schlumberger shape charges per foot from 5466-72 EL & 5467-73 EL measure, 5433-57 EL and 5434-57 EL Measure. Fished junk basket and ran 173 jts. 2-7/8" OD EUE tubing with Baker Model GJ packer and 62.43 tail pipe. Set tubing at 5483.90. Packer at 5421.47. Acidized Paradox perforations from 5433-57 & 5466-72 & 5480-86 w/4000 gallons western regular 15% acid in 2 stages as follows: 2500 gallons regular acid at 4000# maximum pressure 2500# minimum pressure followed with 225 gallons sol-block. Pressure increased from 3700# to 5000#. Followed w/1500 gallons regular acid & 32 bbls oil flush. Maximum pressure 4400#, minimum pressure 3800#. Dropped to 2400# in 5 minutes, 2000# in 10 minutes. Completed acidizing 4 PM 3-1-59. Recovered oil & acid load in 2 hrs. Flowed 450 BO, no water through 3/4" choke in 11 hrs 3-1-59, FTP 220#, GOR 611. Killed well, pulled tbg

(Continued on attachment)

60
123

Form 9-331 b
(April 1962)

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo
Tribe

Tribal
Allottee 14-20-603-4043

Lease No. _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	X	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo "B" Cortez, Colorado September 23, 1960

Well No. 2 is located 1980 ft. from XXI line and 1980 ft. from XXI line of sec. 10

NE SW Sec. 10 41S 24E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian) Utah
White Mesa San Juan
(Field) ungraded ground (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4573.5 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Pull rods and tubing. Perforate the Ismay zone 5402-13, 5392-97 and 5375-84'. Run packer and retrievable bridge plug and acidise the Ismay zone with 2500 gallons regular 15% acid. Swab test, rerun rods and tubing and produce Ismay and Desert Creek zones.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company
Address Box 1150
Cortez, Colorado
By C. M. Boles
Title Dist. Supt.

JK

HMM

avg. 1/2" 1/2" 1/2"

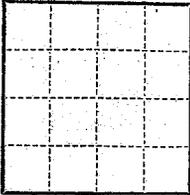
Cap. to H.C. R-28

Form 9-331b (April 1952)

Budget Bureau No. 42-R359.4. Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Tribal Allottee 14-20-603-222 4043 Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

Table with 3 columns: Report type (e.g., NOTICE OF INTENTION TO DRILL), Nature of report (checkbox), and Other data (checkbox).

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Cortez, Colorado October 7, 1960

Navajo #B Well No. 2 is located 1980 ft. from N line and 1980 ft. from E line of sec. 10 NE SW Sec. 10 White Mesa (Field) 41S 24E San Juan (County or Subdivision) S.L.M. Utah (State or Territory)

The elevation of the ungraded ground above sea level is 4973.45

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9/24/60: Moved in and rigged up N&R Well Service unit. Pulled rods and tubing. 9/25/60: Western Company perforated 3-1/2" casing in Lamy zone 5375-84, 5392-97 and 5402-13' with 4 J-2 Rocket jet shots/foot EL and EL measure. Ran 2-1/2" tubing, set at 5428' with bottom ball plugged. Baker E&J hookball packer set at 5425', Lane Wells anchor packer set at 5298'. Otis side door choke set at 5422'. Howell acidized Lamy perforations 5375-84, 5392-97, and 5402-13 with 2500 gallons Howell 15% regular acid at 1200# maximum pressure, 800# minimum pressure. Pumping rate 9 EPH. Flushed with 33 barrels salt water at 1000# maximum pressure, 800# minimum pressure at 7.3 EPH. Used 118 barrels salt water landing hole and to flush acid. Scrubbed and flowed 2-1/2 hours, recovered 20 barrels oil, 50 barrels salt water. Flowed 13 hours on 1/2" choke, recovered 64 BO, 21 BW, GOR 1283. PTP 110%.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Co. (Cont'd on back) Address Drawer 1150 Cortez, Colorado

By C. H. Sales Dist. Supt. Title

(cont'd)

5492-94 and 5517-19'. Baker Model 415D packer at 5494'. Pump set at 5469.84'. Pumped 97 BO, 138 BW in 14-1/2 hours at 17-74" SPM. GOR 898.

Tests: 9/20/60: Pumped 145 BO, 62 BW in 24 hours, GOR 1252 from Desert Creek zone.

10/1/60: Pumped 150 BO, 100 BW in 24 hours, GOR 1215 from Desert Creek and Issay zones.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IT
(Other ins
verse side)

LOCATE*
on re-

Form approved.
Budget Bureau No. 42-R1424.

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.)

5. LEASE DESIGNATION AND SERIAL NO.

14-21-603-4043

6. IF INDIAN ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Rutherford Unit

9. WELL NO.

10-23

10. FIELD AND POOL, OR WILDCAT

White Mesa Field

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

10-418-24E, S1/4

12. COUNTY OR PARISH IS STATE

San Juan Co Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
P. O. Drawer 1150, Cortez, Colorado

(Formerly Phillips Navajo B-2)

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

NE SW Sec. 10, 1980' FSL, 1980' FWL San Juan County, Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4573.5 ungraded ground

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT

Shut off Desert Creek perfs 5519-31' with plug. Squeeze Ismay perfs (see below) and convert to Water Injection.

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

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

Kill well, pull rods and tubing. Run Baker seal assembly on tubing work string, establish circulation, set down in Baker 415D Packer at 5494'. Pump into perforations 5519-31 below packer.

*If well does not communicate and circulate, squeeze Desert Creek perforations 5519-31 with 50 sacks, maximum pressure 1500#, minimum 1000# holding. Pull out of packer and reverse out. Come out of hole. Run Baker Magnesium Bridge Plug with retrievematic packer above. Set Bridge Plug at 5423' and then pull up and set packer at 5335'. Squeeze Ismay perforations 5375-84', 5392-97' and 5402-13' with 50 sacks. Circulate out. Come out of hole. Drill cement, test casing to 1000#. If O.K. drill Bridge Plug and wash to 5490'. Circulate out gelled water. Pump into well and establish pump in rate. Come out of hole and run 2-1/2" EUE tubing with Marlex liner and Tension Packer. Set packer at 5360' and convert to Water Injection.

*If well does communicate and circulate with stinger in 415-D packer, come out of hole, run DR Plug on bottom of work string and retrievematic above, set DR plug in packer, pull up and set packer at 5360' and squeeze all perforations using 100 sacks to 2000# holding - reverse out. Drill out to 5490' and perforate 5433-57', 5466-72', and 5480-86' with 4 jet shots per foot (36'). Run retrievable packer, set at 5423'. Acidize above Desert Creek perforations with 2000 gallons regular acid. Run tubing with Marlex liner and convert to Water Injection. PRESENT PROD: 3-4-64; 24 hrs PM, 119 BO,

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

SIGNED

C. M. Bobes

TITLE

C. M. Bobes, Area Supt.

DATE

3-6-64

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY UTAH OIL AND GAS
CONSERVATION COMMISSION

DATE 3/9/64 by *Paul M. Burchell*

*See Instructions on Reverse Side

June 24, 1964

Phillips Petroleum Company
P. O. Drawer 1150
Cortez, Colorado

Attention: Mr. C. M. Boles, Area Superintendent

Re: Well No. Ratherford 9-23
Sec. 9, T. 41 S., R. 24 E.,
San Juan County, Utah

Well No. Ratherford 10-23
Sec. 10, T. 41 S., R. 24 E.,
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Subsequent Report to Convert to Water Injection Well on the above mentioned wells are due and have not been filed with this Commission. We are enclosing forms for your convenience.

Thank you for your cooperation with respect to this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER
RECORDS CLERK

KGW:bc

Enclosures - Forms



PHILLIPS PETROLEUM COMPANY
P. O. Drawer 1150
Cortez, Colorado

June 25, 1964

Utah Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City, Utah 84111

Attention: Kathy G. Warner, Records Clerk

Gentlemen:

Please refer to your letters of June 23rd and 24th in which you ask us to submit Subsequent Report to Convert to Water Injection on each of our Ratherford Unit Wells Nos. 19-21, 20-43, 9-23, and 10-23.

This is to advise that these wells have not as yet been completed, and are now in the process of workover. They should be completed as Water Injection wells within the next thirty days, and at that time we will file the Subsequent Reports on them and submit the necessary copies to your office.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

A handwritten signature in cursive script, appearing to read "C. M. Boles".

C. M. Boles
Area Superintendent

bh

*make to
copy*



PHILLIPS PETROLEUM COMPANY
P. O. Drawer 1150
Cortez, Colorado

July 13, 1964

Utah Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City 11, Utah

Attention: Mr. Cleon B. Feight

Dear Sirs:

In accordance with Rule E-4 of the Utah General Rules and Regulations, we wish to advise that the following wells located on the Ratherford Unit in San Juan County, Utah, were converted to water injection wells.

<u>Old Well No.</u>	<u>New Well No.</u>	<u>Date Converted</u>	<u>Injection Rate</u>	<u>Injection Pressure</u>
10-23 ✓	10W23	7-9-64	2025	Vacuum
9-23 ✓	9W23	7-11-64	592	2400#

Very truly yours,

PHILLIPS PETROLEUM COMPANY

C. M. Boles
Area Superintendent

Utah
6/10

Copy ABC

PM

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN 1 LICA
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-4043

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW I-4192

8. FARM OR LEASE NAME
Rutherford Unit

9. WELL NO.
10W23

10. FIELD AND POOL, OR WILDCAT
Greater Aneth

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
10-419-2AE, S1N

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

1. OIL WELL GAS WELL OTHER **Water Injection Well**
2. NAME OF OPERATOR
Phillips Petroleum Company
3. ADDRESS OF OPERATOR
Box 1150, Cortez, Colorado 81321
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE SW Sec. 10, 1980' PSL, 1980' FWL, San Juan County, Utah

14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4573.5 ungraded ground

12. COUNTY ~~Colorado~~
San Juan
13. STATE
Utah

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) **(See below)**
REPAIRING WELL
ALTERING CASING
ABANDONMENT*
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

Subsequent Report of: Shut off Desert Creek perfs 5519-31' with plug. Squeeze Ismay perfs & convert to W.I.

6-26-64 through 7-13-64:

Set into 415-D packer at 5494', established communications between upper and lower perforations, squeezed all perforations, drilled cement 5350 to FB 5492', pressured to 1000#, held O.K. Perforated 5433-57', 5466-72' and 5480-86', acidized with 2000 gallons regular, ran 2 1/2" tubing with Driscopipe liner, hooked up for Water Injection. Started injecting water 7-9-64. Changed well classification from producing oil well to Water Injection Well and changed well number from 10-23 to 10W23 effective 7-9-64.

Previous Production: Greater Aneth Field, Paradox formation, Desert Creek & Ismay zones:
120 BOPD, 75 MCFOPD, 14 BHPD.

Present Injection Rate: Greater Aneth, Paradox formation, Desert Creek zones:

Injected 2025 BW in 24 hours on vacuum.

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

SIGNED C. M. Bolen
C. M. Bolen

TITLE Area Superintendent

DATE 9-16-64

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-4043

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-1-4192

8. FARM OR LEASE NAME

Rutherford Unit

9. WELL NO.

10W23

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

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

10-41S-24E, SLH

12. COUNTY

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER Water Injection

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
Box 1150, Cortez, Colorado 81321

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

NE, SW Sec. 10
1980' FSL; 1980' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4573.5' ungraded ground

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

Acidize water injection well with 4000 gallons 15% acid and return to injection.

Present Injection Rate: Averaged 675 BPD at 1581# during May, 1969.

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

SIGNED

C. M. Boles

TITLE

District Superintendent

DATE

6-4-69

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

Orig. & 2 cc: USGS, Farmington, N.M.
2 cc: Utah O&GCC, Salt Lake City, Utah
1 cc: Denver office

*See Instructions on Reverse Side 1 cc: File

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN STATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-4013

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

S-I-4192

8. FARM OR LEASE NAME

Hathorford Unit

9. WELL NO.

10M23

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

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

10-41S-24E, S1M

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER Water Injection

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
Drawer 1150, Cortez, Colorado 81321

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

1980' FSL; 1980' FWL, NE, SW Sec. 10

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4573.5' ungraded ground

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

NOTICE OF INTENTION TO:

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"/>	

SUBSEQUENT REPORT OF:

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 checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

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

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

On June 16, 1969 acidized Desert Creek Zone I perforations 5433-57, 5466-72, and 5480-86' (communicated with Zone II downhole) with 4000 gallons 15% acid in one stage. Hooked back up and resumed injection.

PREVIOUS INJECTION (Greater Aneth - Paradox - Desert Creek Zone I perms. - Zone I is communicated with Zone II downhole)

Injected 675 BHPD at 1581#

PRESENT INJECTION (Greater Aneth - Paradox - Desert Creek Zone I perms. - Zone I is communicated with Zone II downhole):

Injected 3500 BHPD on vacuum.

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

SIGNED

G. M. Boles
G. M. Boles

TITLE

District Superintendent

DATE

7-25-69

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Orig. & 2 cc: USGS, Farmington, NM
2 cc: Utah O&GCC, Salt Lake City
1 cc: Denver Office
1 cc: Superior Oil Co., Cortez, Colo
1 cc: File

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP.
(Other instructions
verse side)

FE*
re-

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-663-4043

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Rutherford Unit

9. WELL NO.

10M23

10. FIELD AND POOL, OR WILDCAT

Greater Anath

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

Sec. 10-T11S-R24E, SIM

1.

OIL WELL GAS WELL OTHER

Water Injection

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Box 2920, Casper, Wyoming 82601

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

1980* FSL & 1980* FWL, Sec. 10

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4587' HKB

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

~~REPAIR WELL~~ ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

See Attached for Details

Injection Rate Before: 597 MFPD at 1800#

Injection Rate After: 3310 MFPD on Vacuum

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

SIGNED

W. R. Dickinson

TITLE

Operations Superintendent

DATE

May 17, 1973

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Orig. & 2 - USGS, Farmington, New Mexico

2 - Utah O&G CC, Salt Lake City, Utah

1 - Superior Oil Co., Cortez, CO See Instructions on Reverse Side

1 - File

- 1 - B'Ville E&P
- 1 - Denver E&P
- 1 - C. M. Boles
- 1 - File

FIN. REPORT INDIVIDUAL WELL STAT

Lease Ratherford Unit Well No. 10W23 Authorization No. Expense
 Summary of Work Performed:

May 10, 1973 - Acidized Desert Creek Zone I Perfs (communicated with Zone II down hole) with 1500 gals 15% HCL Acid.

AVERAGE DAILY PRODUCTION

	<u>Field and Formation</u>	<u>Oil</u>	<u>Gas</u>	<u>Water</u>
Before Work	<u>Greater Aneth - Paradox</u>	<u>Injecting 597 BWPD at 1800#</u>		
	<u>Desert Creek Zone I (communicated w/Zone II down hole)</u>			
After Work				
Before Work				
After Work	<u>Greater Aneth - Paradox</u>	<u>Injecting 3310 BWPD on Vacuum</u>		

DATE P.T.D.

DAILY REPORT OF WORK PERFORMED

1973
MAY
15

RATHERFORD 10W23 PTD 5494. INJECTING WTR. FIRST REPORT - AUTHORITY-EXPENSE RKB ELEV. 4587, 5/11/73. MI AND RU HALLIBURTON. ACIDIZED PERFS. DESERT CREEK ZONE I. 5433 - 57, 5466 - 72 AND 5480 - 86 /COMM W/ ZONE II DOWN HOLE/ WITH 1500 GALS 15 PER CENT HCL ACID, USED 2 GAL PER 1000 GAL INHIBITOR AND DEMULSIFIER IN ACID, FLUSHED WITH 35 BBLS WTR. ACID INTO FORMATION 3-1/2 BPM AT 2400 LBS TO 1900 LBS. FLUSH IN AT 1900 LBS TO 1500 LBS, 3-1/2 BPM 0 LBS ON CASING DURING JOB. JOB COMPLETE AT 3/17 P.M. 5/10/73. RESUMED INJECTION AT 3/45 P.M. 2.1 BPM CHOKED AND ON VACUUM. APRIL, 1973 DAILY AVERAGE INJECTION WAS 597 BBLS PER DAY AT 1800 LBS INJECTION PRESSURE. LOCATION 1980 FT FSL, 1980 FT FWL SEC. 10-41-24E SLM, SAN JUAN COUNTY, UTAH GREATER ANETH FIELD..

16

RATHERFORD UNIT NO. 10W23 5/12/73. INJECTED 2163 BW IN 18 HRS ON VAC., 5/13/73. INJECTED 2960 BW IN 24 HRS. ON VAC., 5/14/73 INJ. 3030 BW IN 24 HRS. ON VAC., 5/15/73. INJECTED 3190 BW IN 24 HRS. ON VAC., 5/16/73 INJ. 3310 BW IN 24 HRS ON VAC. INJECTING INTO DESERT CREEK ZONE I PERFS. OF PARADOX FORMATION, GREATER ANETH FIELD, SAN JUAN COUNTY, UTAH. DROP FROM REPORT..

May 17, 1973

Date Prepared

District Approval

STATE OF UTAH
 DIVISION OF OIL, GAS, AND MINING
 ROOM 4241 STATE OFFICE BUILDING
 SALT LAKE CITY, UTAH 84114
 (801) 533-5771
 (RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
 (Revised 1982)

IN THE MATTER OF THE APPLICATION OF
PHILLIPS PETROLEUM COMPANY
 ADDRESS P.O. BOX 2920
CASPER, WYOMING ZIP 82602
 INDIVIDUAL PARTNERSHIP CORPORATION
 FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
 INJECT FLUID INTO THE 10W23 WELL
 SEC. 10 TWP. 41S RANGE 24E
SAN JUAN COUNTY, UTAH

CAUSE NO. C-3(B)

ENHANCED RECOVERY INJ. WELL	<input checked="" type="checkbox"/>
DISPOSAL WELL	<input type="checkbox"/>
LP GAS STORAGE	<input type="checkbox"/>
EXISTING WELL (RULE I-4)	<input checked="" type="checkbox"/>

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>Ratherford Unit</u>	Well No. <u>10W23</u>	Field <u>Greater Aneth</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>10W23</u> Sec. <u>10</u> Twp. <u>41S</u> Rge. <u>24E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>5-83</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>Wingate</u> <u>1550'</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	State What <u>Oil & Gas</u>	
Location of Injection Source(s) <u>Desert Creek Paradox I & II</u> <u>San Juan River</u>	Geologic Name(s) and Depth of Source(s) <u>Desert Creek (5567')</u> <u>San Juan River (Surface)</u>		
Geologic Name of Injection Zone <u>Desert Creek I</u>	Depth of Injection Interval <u>5433</u> to <u>5486</u>		
a. Top of the Perforated Interval: <u>5433</u>	b. Base of Fresh Water: <u>1550'</u>	c. Intervening Thickness (a minus b) <u>3883</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO <u>See Attachment #4</u>			
Lithology of Intervening Zones <u>See Attachment #1</u>			
Injection Rates and Pressures Maximum <u>606 (12/82)</u> B/D <u>1800</u> PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent.			
<u>Navajo Tribe, Minerals Dept., P.O. Box 146, Window Rock, AZ 86515</u>			
<u>Superior Oil, P.O. Box 4530, The Woodlands, TX 77380</u>			
<u>Texaco Inc., P.O. Box 2100, Denver, CO 80201</u>			
<u>Southland Royalty, 1000 Fort Worth Club Tower, Fort Worth, TX 76102</u>			

State of Wyoming

PHILLIPS PETROLEUM COMPANY

County of Natrona

Applicant

Before me, the undersigned authority, on this day personally appeared A. E. Stuart known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 21st day of Sept, 19 83

SEAL

My commission expires

DONALD L. HUDSON - Notary Public
 County of Natrona State of Wyoming
 My Commission Expires Nov 3 1986

Donald L. Hudson

Notary Public in and for Natrona Co., Wyoming

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13-3/8"	175	175	Surface	Returns
Intermediate	8-5/8"	1429	629+	Surface	Returns
Production	5-1/2"	5628	262+	4873	CALCULATED
Tubing	2-1/2"	5360	Name - Type - Depth of Tubing Packer Baker Tension Pkr 5360		
PB Total Depth 5494	Geologic Name - Inj. Zone Desert Creek I	Depth - Top of Inj. Interval 5433	Depth - Base of Inj. Interval 5486		

14-20-603-4043

(To be filed within 30 days after drilling is completed)

COMPLETION & TEST DATA BY PRODUCING FORMATION

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

LEASE NO.

API NO. 43-037-16402

DIVISION OF OIL, GAS, AND MINING

640 Acres
N

Room 4241 State Office Building

Salt Lake City, Utah 84114

COUNTY San Juan SEC. 10 TWP. 41S1 RGE. 24E

COMPANY OPERATING Phillips Petroleum Company

OFFICE ADDRESS P.O. Box 2920

TOWN Casper STATE ZIP Wyoming 82602

FARM NAME _____ WELL NO. 10W23

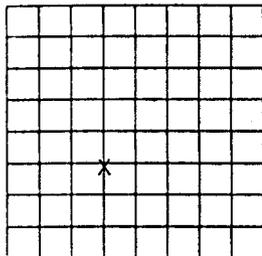
DRILLING STARTED 1-21 1959 DRILLING FINISHED 2-12 1959

DATE OF FIRST PRODUCTION 3-7-59 COMPLETED _____

WELL LOCATED NE $\frac{1}{4}$ SW $\frac{1}{4}$ _____

1980 FT. FROM SL OF $\frac{1}{4}$ SEC. & 1980 FT. FROM WL OF $\frac{1}{4}$ SEC.

ELEVATION BERRICK FLOOR 4587 GROUND 4573.5



Locate Well Correctly
and Outline Lease

RKB

TYPE COMPLETION

Single Zone X (Communicated w/Zone II)

Multiple Zone _____

Comingled _____

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Ismay	5375	5413			
Desert Creek I	5433	5486			
Desert Creek II	5519	5531			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
13-3/8"	27.1#	H-40	162	400	175		Surface
8-5/8"	24#	J-55	1438	750	629+		Surface
5-1/2"	14#	J-55	5668	750	262+	792	4873

PB TOTAL DEPTH 5494'

PACKERS SET Baker Tension Pkr @ 5360'

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

FORMATION	Desert Creek I		
SPACING & SPACING ORDER NO.	40 acre Cause #C-3(B)		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery		
PERFORATED	5433-57		
INTERVALS	5466-72		
	5480-86		
ACIDIZED?	5/15/73 1500 Gal 15% HCL		
FRACTURE TREATED?	No		

INITIAL TEST DATA

Squeeze Desert Creek II & Ismay
Converted to Injector 7/9/64

Date	7/9/64		
Oil, bbl./day	--		
Oil Gravity	--		
Gas, Cu. Ft./day	--	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	--		
Water-Bbl./day	2025		
Pumping or Flowing	Flowing		
CHOKE SIZE	--		
FLOW TUBING PRESSURE	Vacuum		

A record of the formations drilled through, and pertinent remarks are presented on the reverse.
(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone 307-237-3791

A. E. Stuart, Area Manager

Name and title of representative of company

Subscribed and sworn before me this _____ day of _____

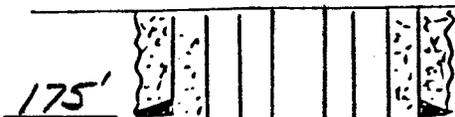
SEP 22 '83

Casper

WELL: 10W23
LOCATION: NESW Sec 10 - T41S - R24E
FIELD: GREATER ANETH
RESERVOIR: Desert Creek I + II

DATE COMPLETION: 7.9.64
PRESENT STATUS: W.I.

RKB 4587'
GL 4573.5'



SURFACE CASING: 13 3/8" 27.1#
H-40

INTERMEDIATE CASING: 8 5/8" 24#
J-53

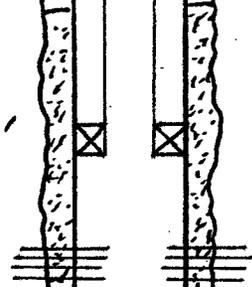
PRODUCTION CASING: 5 1/2" 14#
J-53

1429'

PERFORATIONS:
5433-57
5466-72
5480-86
(Desert Creek I+II
COMMUNICATED BEHIND
CASING)

PACKER: Baker Tension
PKr @ 5360'
Tubing: 2 1/2" @ 5360'

5360'



5433' - 5486'

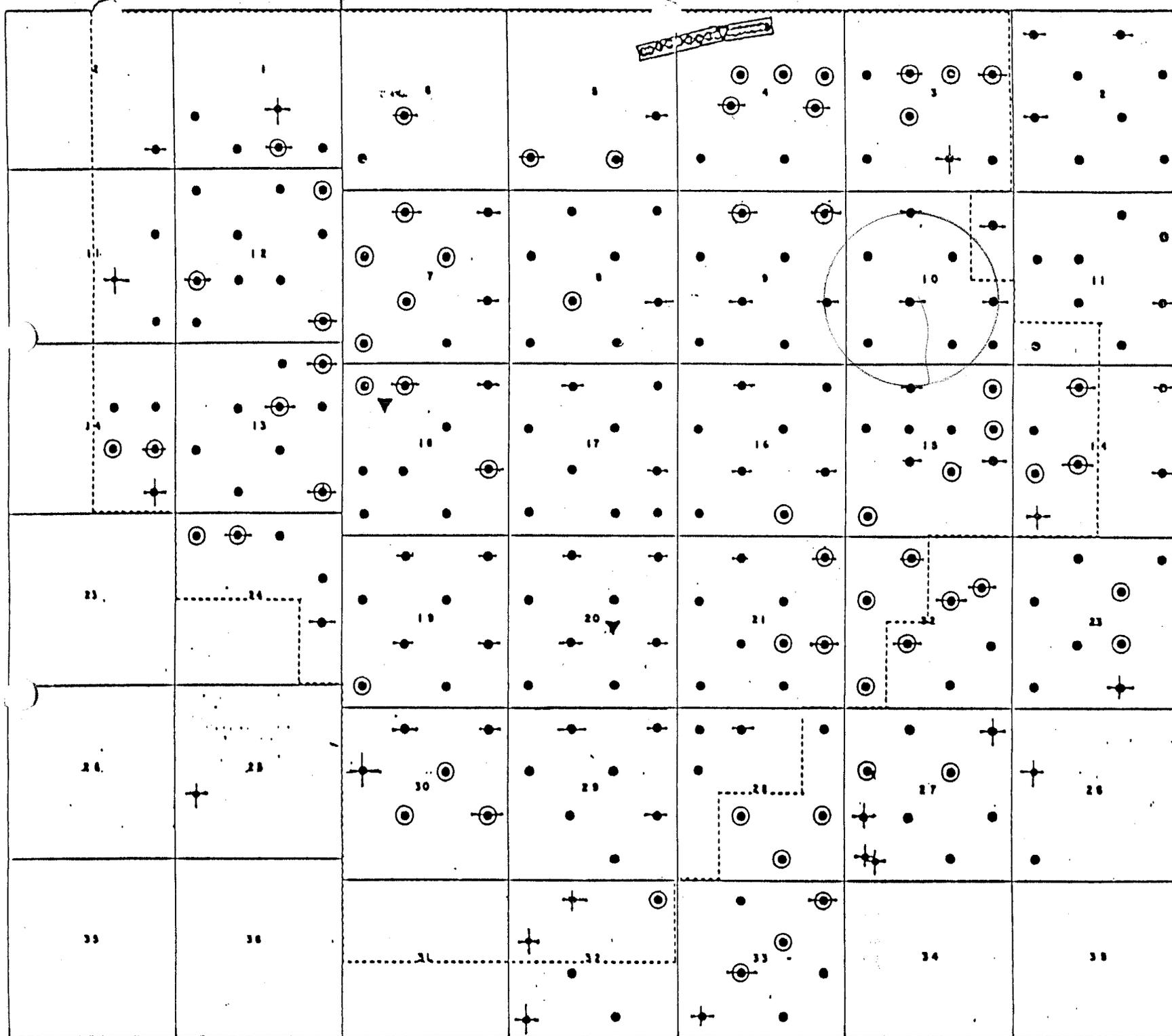
PBTD: 5494'
OTD: 5628'

5628'

Phillips Petroleum Company

R-23-E

R-24-E



RATHERFORD UNIT
 SAN JUAN COUNTY, UTAH
 2" = 1 mile
 RCT 3-83

● oil producer
 ◐ water injector
 ◻ water supply
 ▼ domestic water
 ⊕ plugged & abandoned
 ⊙ shut in well
 - - - unit boundary

R-23-E

R-24-E

WTE INJECTION WELL

CL1-12A (REV. 1964)

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

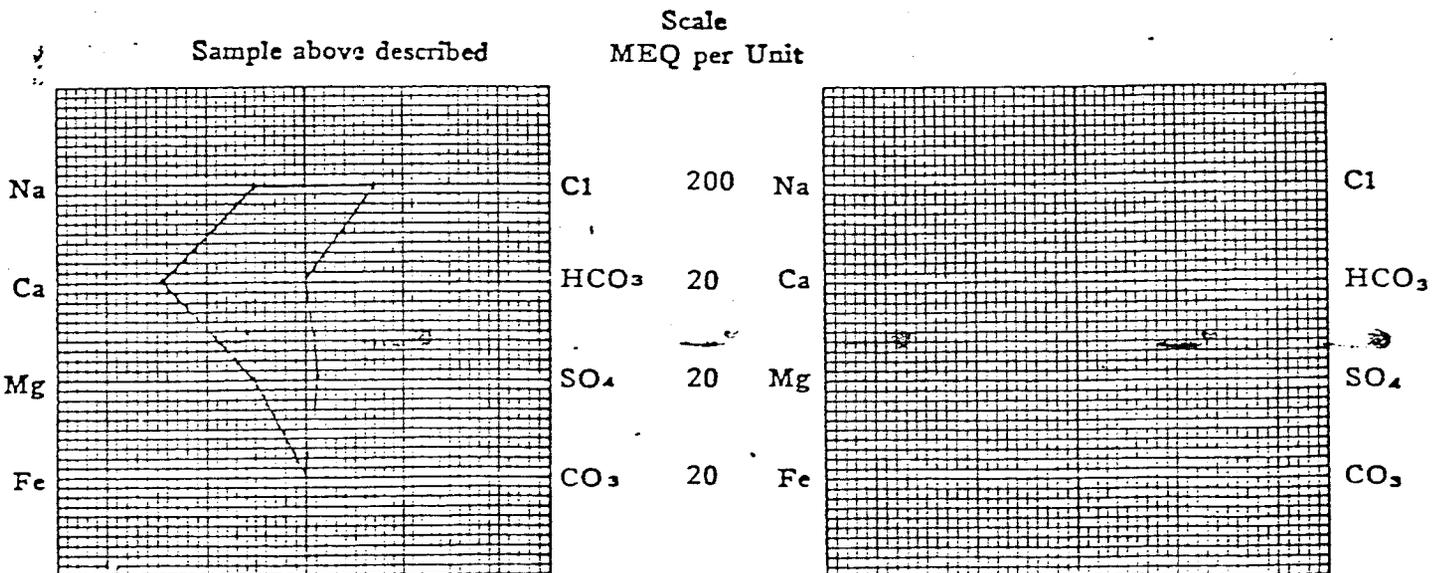
OPERATOR Phillips Petroleum Co. DATE 5-27-83 LAB NO. W30480
 WELL NO. Rutherford Unit LOCATION _____
 FIELD _____ FORMATION _____
 COUNTY San Juan INTERVAL _____
 STATE Utah SAMPLE FROM _____

REMARKS & CONCLUSIONS: Specific gravity @68°F ----- 1.0646
 Oil and grease, mg/l ----- 2.5
 Aluminum (Al), mg/l ----- 0.90
 Iron (Fe), mg/l ----- 0.3
 Total Sulfides, mg/l ----- ND(0.1)

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	24574	1068.99	Sulfate	1190	24.75
Potassium	396	10.14	Chloride	52000	1466.40
Lithium	-	-	Carbonate	0	0.00
Calcium	5982	298.50	Bicarbonate	190	3.12
Magnesium	1419	116.64	Hydroxide	-	-
Iron	-	-	Hydrogen sulfide	-	-
Total Cations ----- 1494.27			Total Anions ----- 1494.27		

Total dissolved solids, mg/l ----- 85655
 NaCl equivalent, mg/l ----- 86344
 Observed pH ----- 7.4
 Specific resistance @ 68°F.:
 Observed ----- 0.095 ohm-meters
 Calculated ----- 0.086 ohm-meters

WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/l = Milligrams per liter Meq/l = Milligram equivalents per liter
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

CLI-12A (REV. 1964)

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

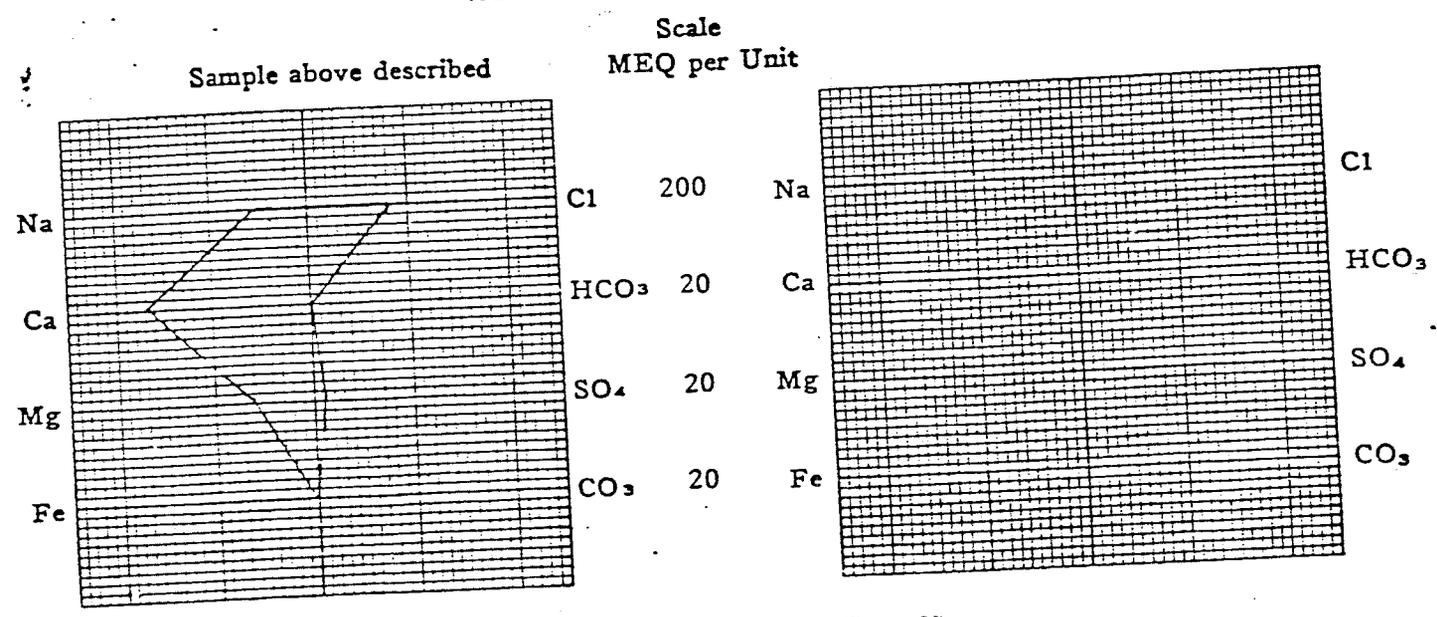
OPERATOR Phillips Petroleum Company DATE 7-22-83 LAB NO. W30636
 WELL NO. Ratherford Unit LOCATION _____
 FIELD _____ FORMATION _____
 COUNTY San Juan INTERVAL _____
 STATE Utah SAMPLE FROM Battery #1 Free water knockout
(7-5-83) @ 10:35
S/N 28568

REMARKS & CONCLUSIONS: _____

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	30147	1311.38	Sulfate	1380	28.70
Potassium	429	10.98	Chloride	63000	1776.60
Lithium	--	--	Carbonate	0	0.00
Calcium	6865	342.56	Bicarbonate	151	2.48
Magnesium	1738	124.86	Hydroxide	--	--
Iron	--	--	Hydrogen sulfide	--	--
Total Cations		1807.78	Total Anions		1807.78

Total dissolved solids, mg/l	103633	Specific resistance @ 68°F.:	
NaCl equivalent, mg/l	104549	Observed	0.087 ohm-meters
Observed pH	7.3	Calculated	0.078 ohm-meters

WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/l = Milligrams per liter Meq/l = Milligram equivalents per liter
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Phillips Well No. Rutherford 10W23
 County: San Juan T 41S R R24E Sec. 10 API# 43-037-16402
 New Well Conversion Disposal Well Enhanced Recovery Well

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Fluid Source Desert Creek

Analysis of Injection Fluid Yes No TDS 85635

Analysis of Water in Formation to be injected into Yes No TDS 103633

Known USDW in area Wingate Depth 1550

Number of wells in area of review 70 Prod. 4 P&A 0
 Water 0 Inj. 3

Aquifer Exemption Yes NA

Mechanical Integrity Test Yes No

Date _____ Type _____

Comments: TOC 4873

Reviewed by: 

UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TEST

OPERATOR: Phillips Petroleum Company

FIELD: Greater Aneth LEASE: Rutherford Unit

WELL # 10W23 SEC. 10 TOWNSHIP 41S RANGE 24E

STATE (FED.) FEE DEPTH 5494 TYPE WELL INJW MAX. INJ. PRESS. 1800 psi

TEST DATE 6/17/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13 3/8</u>	<u>175'</u>	<u>175</u>			
<u>INTERMEDIATE</u>	<u>8 5/8</u>	<u>1429'</u>	<u>629</u>			
<u>PRODUCTION</u>	<u>5 1/2</u>	<u>5628'</u>	<u>262</u>	<u>Ø</u>	<u>small gas blow</u>	<u>OK</u>
<u>TUBING</u>	<u>2 1/2</u>	<u>5360</u>		<u>1580</u>		
	<u>Baker Tension Pkr at 5360</u>					

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

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>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER WATER INJECTION & WATER SUPPLY WELLS</p> <p>2. NAME OF OPERATOR PHILLIPS PETROLEUM COMPANY</p> <p>3. ADDRESS OF OPERATOR 152 N. DURBIN, 2ND FLOOR, CASPER, WYOMING 82601</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>SEE ATTACHED</u></p>		<p>5. LEASE DESIGNATION AND SERIAL NO.</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME SW-I-4192</p> <p>7. UNIT AGREEMENT NAME RATHERFORD UNIT #7960041920</p> <p>8. FARM OR LEASE NAME</p> <p>9. WELL NO. VARIOUS (see attached)</p> <p>10. FIELD AND POOL, OR WILDCAT GREATER ANETH</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sections 1 thru 30 T41S - R23E & 24E</p> <p>12. COUNTY OR PARISH 13. STATE San Juan Utah</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DR, ST, OR, etc.) DIV. OF OIL, GAS & MINING</p>	

RECEIVED
MAR 20 1989

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) CHANGE OF OWNERSHIP <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

This is to advise all Water Injection and Water Supply Wells on the Ratherford Unit, listed on the attached sheet, were sold to Phillips Petroleum Company, effective August 1, 1985.

(former Operator - Phillips Oil Company)

- 3 - BLM, Farmington, NM
- 2 - Utah O&G CC, SLC, UT
- 1 - File

41-24-10 037-16402

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

SIGNED S. H. Oden TITLE District Superintendent DATE March 17, 1989

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

DOWNHOLE SCHEMATIC

Date: 8/6/87

RATHERFORD Unit # 10W23

LOCATION NE SW Sec. 10
T41S-R24E

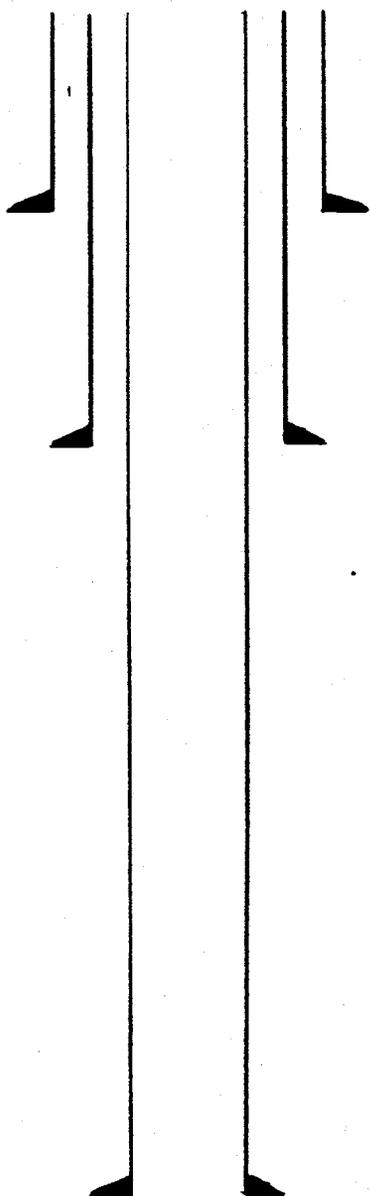
RKB ELEV. 4586'

Well Drld 2/2/59

GL ELEV. 4576'

Well converted
to injector 3/4/64

RKB ABOVE GL' 10'



CONDUCTOR CSG 13³/₈ @ 175'

SURFACE CSG. 8⁵/₈ @ 1429'

TOC 3500' CALL.

Tubing 2¹/₂ @ 5494' MARLEX LINED

PACKER BAKER TENSION SET @ 5494'

PERFS	Start	End		
	<u>5,433</u>	<u>- 57</u>	<u>_____</u>	<u>_____</u>
	<u>5,466</u>	<u>- 72</u>	<u>_____</u>	<u>_____</u>
	<u>5,480</u>	<u>- 86</u>	<u>_____</u>	<u>_____</u>
	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

PBTD 5492'

PRODUCTION CSG. 5¹/₂ @ 5628'
J-55, 14#

All Perfs ZONE I UNLESS NOTED

43 181 100 SHEETS 1 SQUARE
43 182 100 SHEETS 1 SQUARE
43 183 100 SHEETS 1 SQUARE
43 184 100 SHEETS 1 SQUARE



**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

8. LEASE DESIGNATION AND SERIAL NO.
14-20-603-4043
9. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
APR 03 1990

1. OIL WELL GAS WELL OTHER Water Injection

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
P. O. Box 1150, Cortez, CO 81321

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

1980' FSL & 1980' FWL, NE SW

14. PERMIT NO.
43-037-16402

15. ELEVATIONS (Show whether DV, ST, OR, etc.)
4587' RKB

Navajo
7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.
10W23

10. FIELD AND POOL, OR WILDCAT
Greater Aneth

11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA
SEC. 10 T. 41S R. 04E
Greater Aneth

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

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

NOTICE OF INTENTION TO:

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 PLANE <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

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>Clean out well, UIC Test</u> <input checked="" type="checkbox"/>	

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

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

March 13, 1990 Through March 20, 1990

MI & RU Well service unit 3/13/90. ND Wellhead, NU BOP. Rel Baker Model A 5-1/2" pkr. COOH w/171 jts Marlex lined tbg. GIH w/4-3/4" blade bit, 5-1/2" csg scraper, 5-1/2" csg brush, and 172 jts tbg. Tagged fill at 5370'. Couldn't get through tight spot at perms. COOH w/tbg & 4-3/4" blade bit and csg scraper. TIH w/3-7/8" rock bit & 4-1/2" csg scraper. Drld to PBD 5494'. Circ well clean. COOH w/tbg, csg scraper, and rock bit. GIH w/Baker 5-1/2" Lok-set pkr w/on-off tool, 171 jts 2-7/8" unlined tbg. Set pkr at 5355'. Tested tbg to 3000 psi while going in hole. Tested annulus to 1200 psi. Disengaged on/off tool. Pmpd pkr fluid (1/2 drum Well Chem WA-840 per 100 bbls wtr). Engaged on/off tool. ND BOP, NU Wellhead. Pressured annulus to 1000 psi for 30 min for UIC test. OK. RD & MO well service unit and returned well to injection 3/20/90.

Distribution:

- | | |
|---------------------|-------------------|
| 5 - BLM, Farmington | 1 - Chieftain |
| 2 - Utah O&GCC | 1 - Mobil Oil |
| 1 - EPA, Denver | 1 - Texaco, Inc. |
| 1 - N. Anstine | 1 - Chevron |
| 1 - V. S. Shaw | 1 - PPCo, Houston |
| 1 - S. H. Oden | 1 - PPCo, Cortez, |
| 1 - P. J. Konkel | |

OIL AND GAS	
DRN	RIF
JRB	1 - GHA ✓
DTS	SLS
Q-TAS ✓	
DATE March 26, 1990	
3 - MICROFILM	
4 - FILE	

UIC	
GLH	✓
DJ	
BGH	
COMPUTER	✓
MICROFILM	
FILE	

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

SIGNED S. H. Oden
S. H. Oden

TITLE District Superintendent

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

*See Instructions on Reverse Side.



PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

January 27, 1992

RECEIVED

JAN 29 1992

DIVISION OF
OIL GAS & MINING

Bureau of Land Management
ATTN: SHIRLEY DAVENPORT
1235 La Plata Highway
Farmington, NM 87401

RE: Water Spill
Ratherford #10W23

43-037-16402

Dear Ms. Davenport:

Attached is the Report of Undesirable Events for the recent water spill on the Ratherford Unit Injection System, located in San Juan County, Utah.

If you have any questions or need further information, please contact me at 599-3460.

Sincerely,

PHILLIPS PETROLEUM COMPANY

Ed Hasely
Environmental Engineer

cc: R. G. Flesher r)file
J. E. Stark
P. J. Konkell
D. Dillon
BIA
NTLA
Navajo EPA-Arlene Luther
Division of Oil, Gas, and Mining

24dvnprt.leh

REPORT OF UNDESIRABLE EVENT CHECKLIST

Page 1

NMSO 12/03/90

DATE OF OCCURRENCE/DISCOVERY: 01/21/92 TIME OF OCCURRENCE: 2 p.m.

DATE REPORTED TO BLM: By written report only TIME REPORTED: N/A

BLM OFFICE REPORTED TO: (RESOURCE AREA/DISTRICT/OTHER): Farmington
450' West of Well #10W23

LOCATION: 1/4 1/4 NE SW SEC. 10 T. 41S R. 24E MERIDIAN

COUNTY: San Juan STATE: Utah WELL NAME: Ratherford Injection

OPERATOR: NAME Phillips Petroleum PHONE NO: 801-651-3434 System

CONTACT PERSONS NAME: Dell Dillon

SURFACE OWNER: Navajo Tribe MINERAL OWNER: _____
(FEDERAL/INDIAN/FEE/STATE)

LEASE NO. 14-20-603-4043 UNIT NAME/CA NO. _____

RIGHT-OF-WAY NO.: _____

TYPE OF EVENT, CIRCLE APPROPRIATE ITEM(S):

BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL
OIL AND SALTWATER SPILL, TOXIC FLUID SPILL, HAZARDOUS MATERIAL SPILL
UNCONTROLLED FLOW OF WELLBORE FLUIDS, OTHER (SPECIFY): _____

CAUSE OF EVENT: Pipeline rupture on injection system due to internal corrosion.

Hazmat notified: (for spills) _____

Law Enforcement notified: (for thefts) _____

CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S): N/A

Safety Officer notified: _____

EFFECTS OF EVENT: Produced water spilled on ground.

ACTION TAKEN TO CONTROL EVENT: Shut off water line and repair line.

LENGTH OF TIME TO CONTROL EVENT: 1/2 hr.

SUBSEQUENT CLEAN-UP: Repair line. Pick up the water that we could. (approx. 15 bbls.)

VOLUMES DISCHARGED: OIL-DISCHARGED - WATER-DISCHARGED 20 bbls GAS -
OIL-LOST - WATER-LOST 5 bbls
Navajo EPA-Linda Little Elk 1/23/92 8 a.m.

OTHER AGENCIES NOTIFIED: NTLA - Lorraine Thomas 1/22/92 8:30 a.m.

ACTION TAKEN OR TO BE TAKEN TO PREVENT RECURRENCE: Repair injection line.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 05 1991

FORM APPROVED
Budget Bureau No. 1004-1135
Expires September 30 1990

SUNDRY NOTICES AND REPORTS ON WELLS DIVISION OF OIL & GAS MINING

Do not use this form for proposals to drill or to deepen or reentry to a well or casing string.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
See Below

6. If Indian, Allottee or Tribe Name
Navajo Tribal

7. If Unit or CA, Agreement Designation
Ratherford
SW-I-4192

8. Well Name and No.
See Below

9. API Well No.
43-037-16402

10. Field and Pool, or Exploratory Area
Greater Aneth

11. County or Parish, State
San Juan, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other Water Injection

2. Name of Operator

PHILLIPS PETROLEUM COMPANY,

3. Address and Telephone No. 505-599-3455
5525 Hwy 64, NBU 3004, Farmington, NM 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE BELOW

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 checked="" type="checkbox"/> Other
	<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

MIT Compliance

(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.)

During the MIT test being performed by the EPA. (Mr. George Robin) from 6/18/91-6/27/91 four wells were found to have tubing hanger leaks. The four wells and their locations are listed below. Within 180 days these wells will have the tubing hanger seals repaired/replaced. A MIT will be performed at that time to ensure mechanical integrity.

10W23, 1980 FSL, 1980 FWL, Sec. 10, T41S, R24E, Lease # 14-20-603-4043
19W43, 1980 FSL, 760 FEL, Sec. 19, T41S, R24E, Lease # 14-20-603-353
17W12, 1980 FNL, 760 FEL, Sec. 17, T41S, R24E, Lease # 14-20-603-353
18W12, 1980 FNL, 560 FWL, Sec. 18, T41S, R24E, Lease # 14-20-603-353

Distribution:
BLM-Farmington
Utah O&G, CC
EPA, San Francisco
Navajo EPA, Window Rock
Chieftain

Mobil
Texaco
Robert G. Flesher
W.R. Heuman
V.S. Shaw -Houston

N.D. Anstine -Bartlesv.
PPCo-Houston

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

Signed W.R. Heuman

Title

Sr. Drilling & Prod. Eng. Date 7-1-91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title

Date

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 statement or representations as to any matter within its jurisdiction.

REPORT OF SPILL
DIVISION OF OIL, GAS AND MINING
STATE OF UTAH

Reporting Company: PHILLIPS PETROLEUM

Reported received by: Written Report X Telephone _____

Call Received by: _____ Date: 1-29-92 Time: _____

Location: NE 1/4 SW 1/4 Section 10 Township 41S Range 24E

County: SAN JUAN Lease: Federal _____ State _____ Indian X Fee _____

Well No. RATHERFORD #10W23 API No. 43-037-16402

Tank Battery: Yes _____ Battery Name: _____

Date of Discharge: 1-21-92 Time of Discharge: 2:00 PM

Type of Spill: Oil _____ Bbls Produced Water: 20 Bbls Gas: _____ MCFS

Amount Recovered: Oil _____ Bbls Produced Water: 5 Bbls

Time to control discharge: 1/2 hrs after discovery

Discharge contained on lease: Yes X No _____

Other lands affected: BLM _____ Indian _____ State _____ Fee _____

Other agencies contacted: BLM _____ BIA X EPA X Health _____ DNR _____

How discharge occurred: PIPELINE RUPTURE ON INJECTION SYSTEM DUE TO INTERNAL CORROSION.

Method of cleanup: VACUUM TRUCK.

Action taken to prevent recurrence: REPAIRED LINE.

Suspense to: RWM-WELL FILE Date: 2/10/92

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

USNR
8-18-93

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

WELL #	API#	LEASE #	SEC., T, R	LOCATION OF WELL
01W-13	43-037-15838	14-20-603-246A	SEC. 1, T41S, R23E	NW/SW 1980 FSL; 660 FWL
01-14	43-037-31162	14-20-603-246A	SEC. 1, T41S, R23E	SW/SW 660 FSL; 660 FWL
01W-24	43-037-15839	14-20-603-246	SEC. 1, T41S, R23E	SE/SW 651 FSL; 3300 FEL
01-34	43-037-16385	14-20-603-246A	SEC. 1, T41S, R23E	SW/SE 4147 FNL; 1980 FEL
01W-44	43-037-15840	14-20-603-246A	SEC. 1, T41S, R23E	660 FSL; 661 FEL
02W-44	43-037-16386	14-20-603-246A	SEC. 2, T41S, R23E	SE/SE 810 FNL; 5110' FWL
03-14	43-037-15124	14-20-603-5445	SEC. 3, T41S, R24E	660 FSL; 660 FEL
03-12	43-037-15620	14-20-603-6506	SEC. 3, T41S, R24E	SW/NW 2140 FNL; 660 FWL
03W-42	43-037-16388	14-20-603-6505	SEC. 3, T41S, R24E	SW/NE 1980 FNL; 660 FEL
03-44	43-037-15031	14-20-603-6504	SEC. 3, T41S, R24E	520 FSL; 820 FEL
04-14	43-037-16163	14-20-603-5446	SEC. 4, T41S, R24E	500 FSL; 600 FEL
04-34	43-037-16164	14-20-603-4035	SEC. 4, T41S, R24E	660 FSL; 1980 FEL
05-34	43-037-15983	14-20-603-368	SEC. 5, T41S, R24E	SW/SE 612 FSL; 1990 FEL
05W-43	43-037-16392	14-20-603-368	SEC. 5, T41S, R24E	1400 FSL; 990 FEL
06W-14	43-037-15984	14-20-603-368	SEC. 6, T41S, R24E	SW/SW 660; FSL; 660 FWL
06W-23	43-037-16393	14-20-603-368	SEC. 6, T41S, R24E	1830 FSL; 1895 FWL
07-11	43-037-31163	14-20-603-368	SEC. 7, T41S, R24E	NW/NW 660 FNL; 710 FWL
07W-12	43-037-15985	14-20-603-368	SEC. 7, T41S, R24E	SW/NW 2140 FNL; 585 FWL
07-13	43-037-31164	14-20-603-368	SEC. 7, T41S, R24E	NW/SW 2110 FSL; 740 FWL
07W-14	43-037-15986	14-20-603-368	SEC. 7, T41S, R24E	SW/SW 1065 FSL; 660 FWL
07W-21	43-037-16394	14-20-603-368	SEC. 7, T41S, R24E	710 FNL; 1820 FWL
07-22	43-037-31165	14-20-603-368	SEC. 7, T41S, R24E	SE/NW 1980 FNL; 1980 FWL
07W-23	43-037-15987	14-20-603-368	SEC. 7, T41S, R24E	NE/SW 1980 FSL 1980 FWL
07-24	43-037-31166	14-20-603-368	SEC. 7, T41S, R24E	SE/SW 880 FSL; 2414 FWL
07W-32	43-037-15988	14-20-603-368	SEC. 7, T41S, R23E	SW/NE 1980 FNL; 1980 FEL
07-33	43-037-31167	14-20-603-368	SEC. 7, T41S, R24E	NW/SE 2105 FSL; 1876 FEL
07W-34	43-037-15989	14-20-603-368	SEC. 7, T41S, R24E	710 FSL; 2003 FEL
07W-41	43-037-15990	14-20-603-368	SEC. 7, T41S, R24E	NE/NE 585 FNL; 770 FEL
07W43	43-037-16395	14-20-603-368	SEC. 7, T41S, R24E	2110 FSL; 660 FEL
07-44	43-037-31189	14-20-603-368	SEC. 7, T41S, R24E	SE/SE 737 FSL; 555 FEL
08-12	43-037-15991	14-20-603-368	SEC. 8, T41S, R24E	SW/NW 1909 FNL; 520 FWL
08W-14	43-037-15992	14-20-603-368	SEC. 8, T41S, R24E	745 FSL; 575 FWL
08-21	43-037-15993	14-20-603-368	SEC. 8, T41S, R24E	616 FNL; 1911 FWL
08-23	43-037-15994	14-20-603-368	SEC. 8, T41S, R24E	NE/NW 1920 FSL; 2055 FWL
08-32	43-037-15995	14-20-603-368	SEC. 8, T41S, R24E	SW/NE 1980 FNL; 1980 FEL
08-34	43-037-15996	14-20-603-368	SEC. 8, T41S, R24E	SW/SE 660 FSL; 1980 FEL
08-41	43-037-15997	14-20-603-368	SEC. 8, T41S, R24E	NE/NE 660 FNL; 660 FEL
08W-43	43-037-16396	14-20-603-368	SEC. 8, T41S, R24E	1980 FSL; 660 FEL
09W-23	43-037-16398	14-20-603-5046	SEC. 9, T41S, R24E	NW/SE 1980 FSL; 1980 FWL
09-12	43-037-15126	14-20-603-5045	SEC. 9, T41S, R24E	1865 FNL; 780 FWL
09W-21	43-037-16397	14-20-603-5045	SEC. 9, T41S, R24E	660 FNL; 2080 FWL
09-14A	43-037-15127	14-20-603-5046	SEC. 9, T41S, R24E	710 FSL; 660 FWL
09-32	43-037-16165	14-20-603-4035	SEC. 9, T41S, R24E	1980 FNL; 1980 FEL
09W-41	43-037-16399	14-20-603-4035	SEC. 9, T41S, R24E	660 FNL; 660 FEL
09W-43	43-037-16400	14-20-603-4043	SEC. 9, T41S, R24E	1980 FSL; 660 FEL
*10W-23	43-037-16402	14-20-603-4043	SEC. 10, T41S, R24E	1980 FSL; 1980 FWL
10-14	43-037-15713	14-20-603-4043	SEC. 10, T41S, R24E	510 FSL; 710 FWL
10-12	43-037-15712	14-20-603-4043	SEC. 10, T41S, R24E	660 FWL; 1980 FNL
10W-21	43-037-16401	14-20-603-4043	SEC. 10, T41S, R24E	810 FNL; 1980 FWL
10-34	43-037-16166	14-20-603-4037	SEC. 10, T41S, R24E	620 FSL; 1860 FEL
10W-43	43-037-16403	14-20-603-4037	SEC. 10, T41S, R24E	1980 FSL; 550 FEL
11-41	43-037-31544	14-20-603-246A	SEC. 11, T41S, R23E	NE/NE 860 FNL; 350 FEL
11-42W	43-037-15841	14-20-603-246	SEC. 11, T41S, R23E	3290 FNL; 4617 FEL
11-43	43-037-31622	14-20-603-246A	SEC. 11, T41S, R23E	1980 FSL; 660 FEL
11W-44	43-037-15842	14-20-603-246A	SEC. 11, T41S, R23E	SE/SE 660 FSL; 558 FEL
12W-11	43-037-15843	14-20-603-246A	SEC. 12, T41S, R23E	NW/NW 678 FNL; 4620 FEL
12-12	43-037-31190	14-20-603-246A	SEC. 12, T41S, R23E	SW/NW 1850 FNL; 660 FWL
12W-13	43-037-16404	14-20-603-246A	SEC. 12, T41S, R23E	1980 FSL; 4620 FEL
12-14	43-037-15844	NA	SEC. 12, T41S, R23E	660 FNL; 4622 FWL
12-21	43-037-31201	14-20-603-246A	SEC. 12, T41S, R23E	NE/NW 660 FNL; 1980 FWL
12W-22	43-037-15845	14-20-603-246	SEC. 12, T41S, R23E	NA
12-23	43-037-15846	14-20-603-246A	SEC. 12, T41S, R23E	1958 FNL; 3300 FWL
12W-24	43-037-31151	14-20-603-246A	SEC. 12, T41S, R23E	775 FSL; 1980
12-32	43-037-31203	14-20-603-246A	SEC. 12, T41S, R23E	SW/NE 1820 FNL; 1820 FEL
12W-33	43-037-15848	14-20-603-246A	SEC. 12, T41S, R23E	NW/SE 1957 FSL; 1981 FEL
12-34	43-037-31126	14-20-603-246A	SEC. 12, T41S, R23E	SW/SE 675 FSL; 1905 FEL
12-41	43-037-15849	14-20-603-246A	SEC. 12, T41S, R23E	656 FNL; 660 FEL
12W-42	43-037-15850	14-20-603-246A	SEC. 12, T41S, R23E	3275 FSL; 662 FEL

PAID RECEIVED

SEP 13 1993

DIVISION OF OIL, GAS & MINING

PAID

PAID PAID

14-20-603-246

SE NW 1920 FNL 2080 FWL

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 <input type="checkbox"/></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</p>		<p>9. WELL NO.</p>
<p>At proposed prod. zone</p>		<p>10. FIELD AND POOL, OR WILDCAT GREATER ANETH</p>
<p>14. API NO.</p>		<p>11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</p>		<p>12. COUNTY SAN JUAN</p>
<p>13. STATE UTAH</p>		

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SEP 15 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"/>																				
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"/>																					
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.)																					
APPROX. DATE WORK WILL START _____	DATE OF COMPLETION _____																				

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

* Must be accompanied by a cement verification report.

AS OF JULY 1, 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.B. Sheffield
~~BRIAN BERRY~~
~~MEPNA MOBIL~~
~~POB 219031 1807A RENTWY~~ *F.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.
Jec*

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 ~~also~~ PRODUCTION REPORTS will be compiled and sent from the Cortez, Co. office IN THE FUTURE.*

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

Date: 9/5/93

Name and Signature: *Lwell B Sheffield*

Telephone Number: *303 565 2212*
244 658 2528

Sept 29, 1993

TO: Lisha Cordova - Utah Mining
Oil & Gas

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

Here is copy of Rutherford Unit
Successor Operator,

4 pages including this one.

Like 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

MINERAL RIGHTS	
DATE	1/9/93
BY	
REVISIONS	
NO.	3
DATE	2
BY	
OTHER	
ALL SUPP.	
FILED	

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

Dear Mr. Cox:

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

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

Sincerely,

ACTING Area Director

Enclosure

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

RECEIVED
BLM

DESIGNATION OF OPERATOR

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

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

JUN 27 11:44
070 FARMINGTON, NM

and, pursuant to the terms of the Rutherford 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 Rutherford 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 Rutherford 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 Rutherford 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

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).

OCT 25 1993

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

OIL, GAS & MINING

Well name and number: _____
Field or Unit name: RATHERFORD UNIT API no. _____
Well location: QQ _____ section _____ township _____ range _____ county _____
Effective Date of Transfer: July 1, 1993

CURRENT OPERATOR

Transfer approved by:

Name Ed Hasely Company Phillips Petroleum Company
Signature Ed Hasely Address 5525 HWY. 64
Title Environmental Engineer Farmington, NM 87401
Date October 22, 1993 Phone (505) 599-3460

Comments:

NEW OPERATOR

Transfer approved by:

Name Shirley Todd Company Mobil Exploration & Producing North America
Signature Shirley Todd Address P O Box 633
Title Env. & Reg. Technician Midland, TX 79702
Date October 7, 1993 Phone (915) 688-2585

Comments:

(State use only)

Transfer approved by [Signature] Title VEIC Manager
Approval Date 10-27-93

BEFORE THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF UTAH

APPLICATION OF PHILLIPS PETROLEUM)
 COMPANY FOR THE APPROVAL OF THE)
 UNIT OPERATIONS AND PRESSURE MAIN-) CAUSE NO. 63
 TENANCE PROGRAM FOR THE RATHERFORD)
 UNIT IN THE GREATER ANETH AREA,)
 SAN JUAN COUNTY, UTAH)

ORDER

This Cause came on for hearing before the Oil and Gas Conservation Commission of the State of Utah at 10 o'clock a. m. on Wednesday, September 13, 1961, in the Crystal Room, Hotel Newhouse, Fourth South at Main Street, Salt Lake City, Utah, pursuant to notice duly and regularly given. The entire Commission, except Walter G. Mann, was present, Edward W. Clyde presiding. Appearances were made as follows: Cecil C. Hamilton, attorney, on behalf of Phillips Petroleum Company; Clair H. Senior, attorney, on behalf of Texaco, Inc.; Gordon Mayberry, attorney, on behalf of Continental Oil Company; R. R. Robison on behalf of Shell Oil Company. Others present included Carl Trawick, on behalf of United States Geological Survey; and J. R. White, on behalf of Texaco, Inc.

Evidence in support of the application was introduced by Phillips Petroleum Company, the applicant and Unit Operator of the Ratherford Unit, which embraces as the unit area the following described land in San Juan County, State of Utah, to wit:

TOWNSHIP 41 SOUTH, RANGE 23 EAST, SLEM

Section 1:	All	Sections 12 and 13:	All
Section 2:	S/2	Section 14:	S/2
Section 11:	E/2	Section 24:	All

TOWNSHIP 41 SOUTH, RANGE 24 EAST, SLEM

Section 3:	SW/4	Sections 15	
Section 4:	S/2	through 21:	All
Sections 5 through 9:	All	Section 22:	NE/4 and
Section 10:	S/2 and NE/4		E/2 of the
	and W/2 of NE/4		SW/4
Section 11:	S/2 of SW/4	Section 23:	NE/4 and
			E/2 of NE/4
Section 14:	E/2		and W/2 of SW/4
		Section 29 and 30:	All
		Section 31:	N/2
		Section 32:	E/2

R. R. Robison on behalf of Shell Oil Company stated that (as contemplated by paragraph No. 5 of the Commission's order of February 24, 1959, in Cause No. 17 authorizing the drilling of certain test wells) Shell would submit to the Commission, as arbiter, the question as between Shell and Superior Oil Company

of the monetary value, if any, to be attributed to three test wells drilled within the Ratherford Unit area pursuant to said order of February 24, 1959.

No objection to the granting of the application was filed or expressed. The Shell Oil Company, Texaco, Inc. and Continental Oil Company expressed their support of the application of Phillips Petroleum Company.

FINDINGS OF FACT

The Commission finds that:

1. The unitized operation of the Ratherford Unit Area will enable pressure maintenance operations to be initiated and permit such Area to be operated in a manner which will prevent waste, protect correlative rights and result in greater ultimate recovery of oil and gas.

2. The Ratherford Unit Agreement has been approved by the various signatory parties as fair, reasonable and acceptable.

3. The water injection pressure maintenance program proposed by the applicant appears to be proper and designed to result in the greatest economic recovery of oil and gas to the end that all concerned, including the general public, may realize and enjoy the greatest good from the oil and gas resources of the unitized lands.

ORDER

THEREFORE, IT IS ORDERED BY THE COMMISSION, and subject to its continuing jurisdiction, that:

1. Unit operation of the Ratherford Unit Area under the Ratherford Unit Agreement is approved.

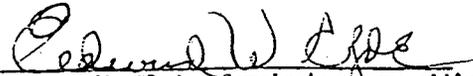
2. The plan and program of water injection pressure maintenance operations proposed by applicant in its application filed herein should be and the same is hereby approved and the unit operator is authorized to proceed with and under such plan and program as soon as the Ratherford Unit Agreement becomes effective and operative.

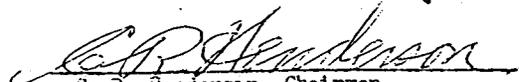
3. If, at any time or from time to time, it appears necessary or desirable to the unit operator to alter or modify the hereby approved plan of pressure maintenance, any such alteration or modification shall be submitted for

and shall be subject to approval by the Commission or its delegated representative, which approval may be given without notice or hearing, unless otherwise ordered or directed by the Commission.

Dated this 13th day of September, 1961.

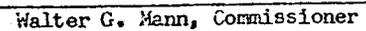
THE OIL AND GAS CONSERVATION
COMMISSION OF THE STATE OF UTAH


Edward W. Clyde, Commissioner presiding


C. R. Henderson, Chairman


M. V. Hatch, Commissioner


C. S. Thomson, Commissioner


Walter G. Mann, Commissioner

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-VLC/17-93
2-DPS/58-1118
3-VLC
4-RJF
5-IEC
6-PL

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

- 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)	<u>M E P N A</u>	FROM (former operator)	<u>PHILLIPS PETROLEUM COMPANY</u>
(address)	<u>PO DRAWER G</u>	(address)	<u>5525 HWY 64 NBU 3004</u>
	<u>CORTEZ, CO 81321</u>		<u>FARMINGTON, NM 87401</u>
	<u>GLEN COX (915)688-2114</u>		<u>PAT KONKEL</u>
	<u>phone (303)565-2212</u>		<u>phone (505)599-3452</u>
	<u>account no. N7370</u>		<u>account no. N0772(A)</u>

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

Name: **SEE ATTACHED**	API: <u>43037-16402</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 19 .

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.

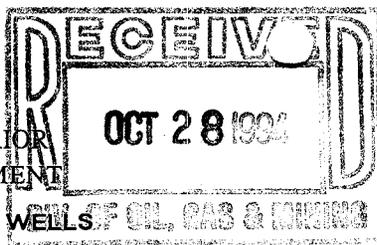
FILED

- 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/Bm Approved 7-9-93.

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 OF OIL, GAS & MINING

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other **INJECTION**

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' FSL, 1980' FWL; SEC 10, T41S, R24E

5. Lease Designation and Serial No.

14-20-6034043

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 10-23

9. API Well No.

43-037-16402

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 SHUT-IN STATUS
	<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.)*

RETURNED TO INJECTION.

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

Signed *Shirley Judd* Title **ENV. & REG. TECHNICIAN** Date **10/25/94**

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

14-20-603-403

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA Agreement Designation

Ratherford Unit

8. Well Name and No.

10 W 23

9. API Well No.

43-037-16402

10. Field and Pool, or Exploratory Area

Greater Aneth

11. Country or Parish, State

SAN JUAN, UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other Injector

2. Name of Operator

MOBIL OIL CORPORATION

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 FSL, 1980 FWL
Sec. 10, T41S, R 24E

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

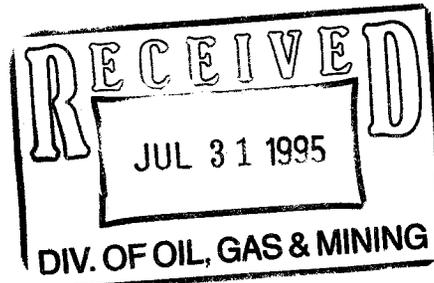
TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other MIT FAILURE
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

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.)*

MIT Failure due to mechanical OR casing failure,
A procedure will be submitted if the failure is determined
As a casing failure.



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

Signed Shirley Robertson

Title Env. & Reg Technician

Date 7-26-95

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

STATE OF UTAH
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
✓MEPNA (MOBIL	43-037-15506	L-21	41S	25E	18	INJW	Y
✓MEPNA (MOBIL	43-037-16358	K-24	41S	25E	18	INJW	Y
✓MEPNA (MOBIL	43-037-30400	K-22X	41S	25E	18	INJI	Y
✓MEPNA (MOBIL	43-037-15499	J-21	41S	25E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15508	L-25	41S	25E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15839	1W24	41S	23E	1	INJW	Y
✓MEPNA (MOBIL	43-037-15838	1W13	41S	23E	1	INJW	Y
✓MEPNA (MOBIL	43-037-16386	2W44	41S	23E	2	INJW	Y
✓MEPNA (MOBIL	43-037-15842	11W44	41S	23E	11	INJW	Y
✓MEPNA (MOBIL	43-037-15841	11W42	41S	23E	11	INJW	Y
✓MEPNA (MOBIL	43-037-15848	12W33	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15850	12W42	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15847	12W31	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-16404	12W13	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15845	12W22	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15843	12W11	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-31151	12W24	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-31543	RATERFORD 12	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15854	13W31	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15851	13W13	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15857	13W42	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-16407	13W44	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15855	13W33	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-31152	13W11	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15852	13W22	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15853	13W24	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-16410	14W43	41S	23E	14	INJI	Y
✓MEPNA (MOBIL	43-037-15860	14W43	41S	23E	14	INJW	Y
✓MEPNA (MOBIL	43-037-15863	24W42	41S	23E	24	INJW	Y
✓MEPNA (MOBIL	43-037-15862	24W31	41S	23E	24	INJW	Y
✓MEPNA (MOBIL	43-037-15984	6W14	41S	24E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15988	7W32	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15990	7W41	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16394	7W21	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15985	7W12	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15989	7W34	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15986	7W14	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15987	7W23	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16395	7W43	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16396	8W43	41S	24E	8	INJI	Y
✓MEPNA (MOBIL	43-037-15992	8W14	41S	24E	8	INJW	Y
✓MEPNA (MOBIL	43-037-16398	9W23	41S	24E	9	INJW	Y
✓MEPNA (MOBIL	43-037-16400	9W43	41S	24E	9	INJI	Y
✓MEPNA (MOBIL	43-037-16397	9W21	41S	24E	9	INJW	Y
✓MEPNA (MOBIL	43-037-16402	10W23	41S	24E	10	INJW	Y
✓MEPNA (MOBIL	43-037-16401	10W21	41S	24E	10	INJI	Y
✓MEPNA (MOBIL	43-037-16403	10W43	41S	24E	10	INJW	Y
✓MEPNA (MOBIL	43-037-16413	15W43	41S	24E	15	INJI	Y
✓MEPNA (MOBIL	43-037-16411	15W21	41S	24E	15	INJW	Y
✓MEPNA (MOBIL	43-037-16412	15W23	41S	24E	15	INJI	Y
✓MEPNA (MOBIL	43-037-16415	16W43	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-15720	16W12	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-15721	16W14	41S	24E	16	INJW	Y

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,



R. D. Baker
Environmental Regulatory Manager

CNE/rd
CNE8661

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing

1- VLC / 7-PL
2- LWP / 8-SJ
3- DES / 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 Operator Name Change Only

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

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

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

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

Name: <u>** SEE ATTACHED **</u>	API: <u>037-16402</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

- 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.
- Yes 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
- Yes 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)
- Yes 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

- Yes* 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/Yes* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- ___ 2. A copy of this form has been placed in the new and former operators' bond files.
- ___ 3. The former operator has requested a release of liability from their bond (yes/no) ____ . Today's date _____ 19____ . If yes, division response was made by letter dated _____ 19____ .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19____ , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. *OTS 8/5/95*
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- ✓* 1. All attachments to this form have been microfilmed. Date: October 4 19 95.

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!

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

14-20-603-4043

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 10-W-23

9. API Well No.

43-037-16402

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 PRODUCING TX & NM INC.*

*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

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)

SEC. 10, T41S, R24E
1980' FSL & 1980' FWL

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

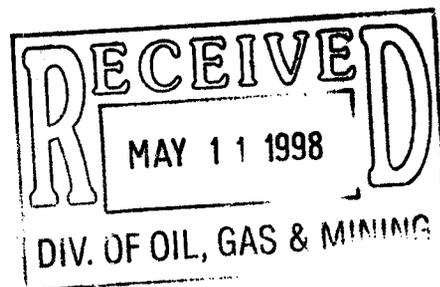
TYPE OF ACTION

- Abandonment Change of Plans
 Recompletion New Construction
 Plugging Back Non-Routine Fracturing
 Casing Repair Water Shut-Off
 Altering Casing Conversion to Injection
 Other MIT TESTS 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 MIT AND CHART.



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

Signed Shirley Houchins

Title SHIRLEY HOUCHINS/ENV & REG TECH

Date 5-13-98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

* See Instruction on Reverse Side

ANNULAR PRESSURE TEST
(Mechanical Integrity Test)

Operator Mobil E. & P., Inc Date of Test 10-31-97
Well Name RU # 10W-23 EPA Permit No. _____
Location Sec. 10, T41S-R24E Tribal Lease No. 14-20-603-4043
State and County San Juan County, UT

Continuous Recorder? YES NO Pressure Gauge? YES NO
Bradenhead Opened? YES NO Fluid Flow? YES NO

<u>TIME</u>	<u>ANNULUS PRESSURE, psi</u>	<u>TUBING PRESSURE, psi</u>
<u>1:50</u>	<u>1090</u>	<u>0</u>
<u>1:55</u>	<u>1090</u>	/
<u>2:00</u>	<u>1090</u>	
<u>2:10</u>	<u>1090</u>	
<u>2:20</u>	<u>1090</u>	

MAX. INJECTION PRESSURE: _____ PSI
MAX. ALLOWABLE PRESSURE CHANGE: _____ PSI (TEST PRESSURE X 0.05)
REMARKS: Passed? Failed? If failed, cease injection until well passes MIT (40CFR§144.21(c)(6)).

PASSED M.I.T.

Fritz Johnson
COMPANY REPRESENTATIVE: (Print and Sign)
Melvin Capitan Jr.
INSPECTOR: (Print and Sign)

10-31-97
DATE
10-31-97
DATE

U.S. ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF INSPECTION

Address (EPA Regional Office) Region 9 Environmental Inspection Agency 215 Fremont Street (W-6-2) San Francisco, CA 94105	Inspection Contractor NAVAJO EPA - GPCP Groundwater Pollution Control P.O. Box 1979 Shiprock, NM 87420-1979	Firm To Be Inspected Mobil E. & P., Inc P.O. Box Drawer G Cortez, CO 81321
---	---	---

Date <i>10-30-97</i>	Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300 f et seg.).
Hour <i>9:00 AM</i>	

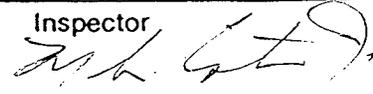
Reason For Inspection

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable permit or rule.

MCU# N-23, WATER INJECTION WELL, M.I.T. - PASSED
MCU# P-23A, WATER INJECTION WELL, M.I.T. - PASSED
MCU# R-19, WATER INJECTION WELL, M.I.T. - PASSED
MCU# R-11A, WATER INJECTION WELL, M.I.T. - PASSED
MCU# R-09, WATER INJECTION WELL, M.I.T. - PASSED
RU# 17W-43, WATER INJECTION WELL, M.I.T. - PASSED
MCU# A-17, WATER INJECTION WELL, M.I.T. - PASSED
MCU# E-19, WATER INJECTION WELL, M.I.T. - PASSED
RU# 10W-21, WATER INJECTION WELL, M.I.T. - FAILED
RU# 10W-23, WATER INJECTION WELL, M.I.T. - PASSED

Section 1445(b) of the SDWA (42 U.S.C. §300 j-4 (b) is quoted on the reverse of this form.

Receipt of this Notice of Inspection is hereby acknowledged.

Firm Representative 	Date <i>10-30-97</i>	Inspector 
---	-------------------------	--

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an Abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. 14-20-603-4043
6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
7. If Unit or CA/Agreement, Name and/or No. RATHERFORD UNIT
8. Well Name and No. RATHERFORD UNIT #10W23
9. API Well No. 43-037-16402
10. Field and Pool, or Exploratory Area GREATER ANETH
11. County or Parish, State SAN JUAN, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJECTION WELL	
2. Name of Operator Mobil Producing TX & NM Inc. *	
3a. Address P.O. Box 4358 Houston, TX 77210-4358	3b. Phone No. (include area code) 713-431-1197
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec. 10, T41S, R24E 1980' FSL & 1980' FWL	

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>MIT RESULTS</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

MIT results and chart are attached.

RECEIVED

MAY 16 2000

DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Ellen M. Carroll	Title Senior Staff Office Assistant	* ExxonMobil Production Company, A division of Exxon Mobil Corporation, acting for Mobil Producing Texas & New Mexico, Inc.
Signature <i>Ellen M. Carroll</i>	Date 5/12/2000	

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ANNULAR PRESSURE TEST

(Mechanical Integrity Test)

Operator EXXON-MOBILE, +P, INC. Date of Test 1-20-2000
Well Name RATHERFORD UNIT WELL #10W-23 EPA Permit No. _____
Location NESW SEC 10, T41S, R24E Tribal Lease No. 14206034043
State and County SAN JUAN COUNTY, UTAH

Continuous Recorder? YES NO Pressure Gauge? YES NO
Bradenhead Opened? YES NO Fluid Flow? YES NO

TIME	ANNULUS PRESSURE, psi		TUBING PRESSURE, psi
	0-2000 psi gauge	0-1500 psi recorder	
10:47 Am	1065	1065	650
10:52 Am	1065	1060	650
10:57 Am	1065	1060	650
11:02 Am	1065	1060	650
11:07 Am	1065	1060	650
11:12 Am	1065	1060	650
11:17 Am	1065	1060	650

MAX. INJECTION PRESSURE: 3000 PSI
MAX. ALLOWABLE PRESSURE CHANGE: 53.25 PSI (TEST PRESSURE X 0.05)
REMARKS: Passed Failed? If failed, cease injection until well passes MIT (40CFR§144.21(c)(6)).

Small amount of fluid on bradenhead.
Passed MIT Active, injecting

RECEIVED

MAY 16 2000

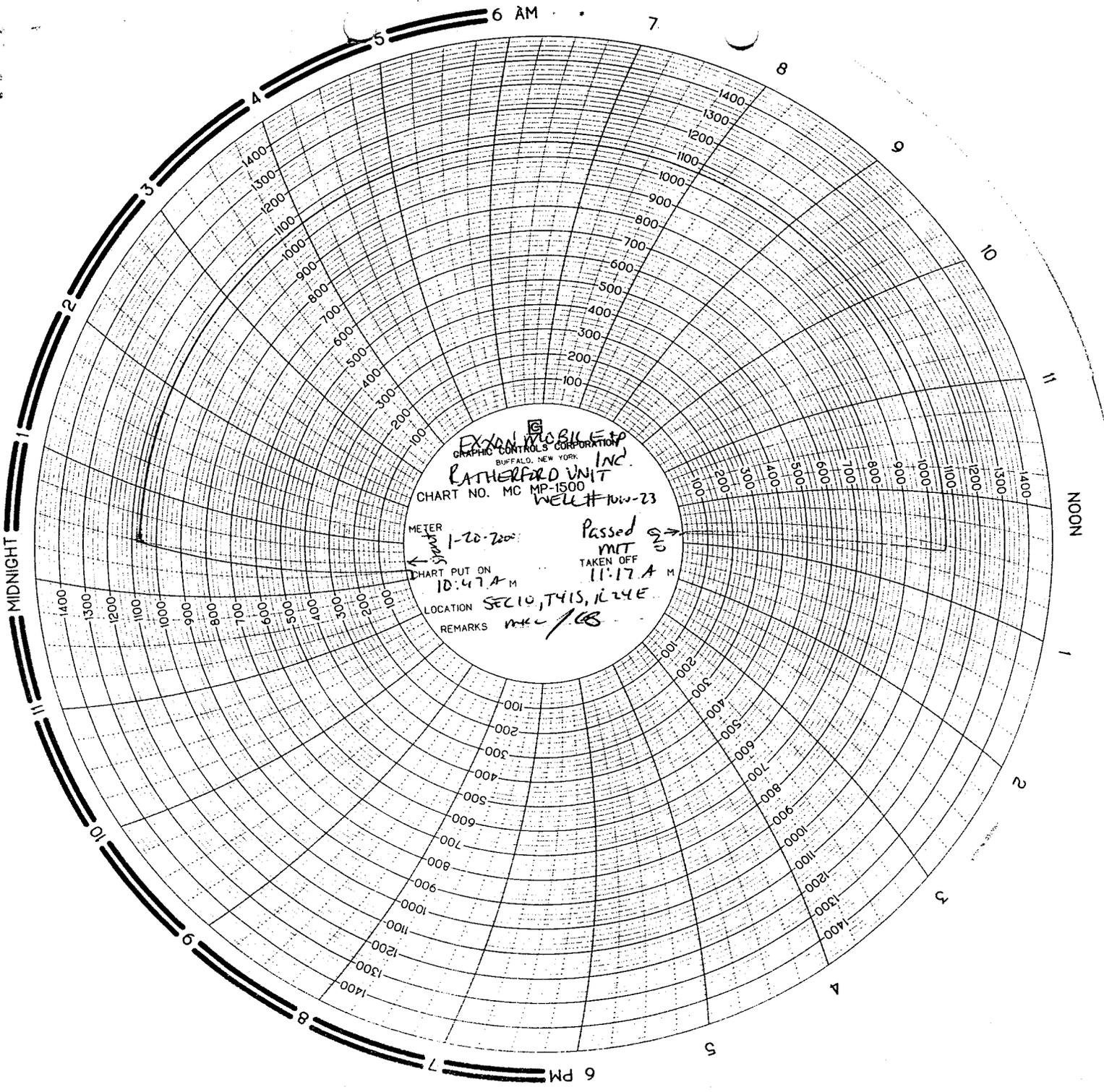
DIVISION OF
OIL, GAS AND MINING

Laurie Blumgart
COMPANY REPRESENTATIVE: (Print and Sign)

1/20/00
DATE

MELVINA K. CLAH
INSPECTOR: (Print and Sign)

1-20-2000
DATE



RECEIVED

MAY 16 2000

DIVISION OF
OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

Oil Well Gas Well Other **INJECTOR**

2. Name of Operator

Mobil Expl&Prod., NA Inc

3a. Address **P.O. Box 4358**

WGR, Rm. 310 Houston

TX 77210-4358

3b. Phone No. (include area code)

(713) 431-1012

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & 1980' FWL, Sec. 10, T41S R24E

5. Lease Serial No.

14-20-603-4043

6. If Indian, Allottee or Tribe Name

Navajo Tribal

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

Ratherford Unit

8. Well Name and No.

Ratherford Unit

10W23

9. API Well No.

43-037-16402

GREATER ANETH

11. County or Parish, State

SAN JUAN

UT

12. CHECK APPROPRIATE BOX(es) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	_____
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

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

Mobil Exploration & Producing US Inc., as agent for Mobil Producing Texas & New Mexico Inc. and Mobil Exploration & Producing North America Inc.

Request authorization to TA. Procedure is attached.

RECEIVED

MAY 03 2001

**DIVISION OF
OIL, GAS AND MINING**

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

Alex M. Correa

Title

Sr. Regulatory Specialist

Signature

Alex M. Correa (4386)

Date

05/02/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on Reverse)

RU # 10-23

- 1.) MIRU WSU. Bleed well down.
- 2.) ND WH. RU BOP
- 3.) Kill well. POOH w/ inj tbg and pkr.
- 4.) RIH set CIBP @ 5,275' and test
- 5.) PU one jt. change out kill weight fluid to inhibited fresh water
- 6.) Test csg to 1,100#. Monitor
- 7.) POOH w/tbg. SI Well. Perform MIT
- 8.) ND BOP. NU WH. RDMO

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJECTOR		5. Lease Serial No. 14-20-603-4043
2. Name of Operator Mobil Expl&Prod., NA Inc		6. If Indian, Allottee or Tribe Name Navajo Tribal
3a. Address P.O. Box 4358 WGR, Rm. 310 Houston TX 77210-4358	3b. Phone No. (include area code) (713) 431-1012	7. If Unit or CA/Agreement, Name and/or No. Ratherford Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FSL & 1980' FWL, Sec. 10, T41S R24E		8. Well Name and No. Ratherford Unit 10W23
		9. API Well No. 43-037-16402
		GREATER ANETH
		11. County or Parish, State SAN JUAN UT

12. CHECK APPROPRIATE BOX(es) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input type="checkbox"/> Other _____

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

Mobil Exploration & Producing US Inc., as agent for Mobil Producing Texas & New Mexico Inc. and Mobil Exploration & Producing North America Inc.

Request authorization to TA. Procedure is attached.

Well will be retained for potential future injection.

Accepted by the
Utah Division of
Oil, Gas and Mining

Federal Approval Of This
Action Is Necessary

Date: 7/20/01

By: Dorinda
14 EXT 9/1/2002

COPY SENT TO OPERATOR
Date: 8-30-01
Initials: CHD

RECEIVED

MAY 23 2001

DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Alex M. Correa	Title Sr. Regulatory Specialist
Signature <u>Alex Correa (4560)</u>	Date 05/21/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on Reverse)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington Field Office
1235 La Plata Highway
Farmington, New Mexico 87401

MAY 11 2001

IN REPLY REFER TO:

14-20-603-355 et al. (WC)
3162.3-2 (7100)

Mr Alex M. Correa
Mobil Oil Corp.
%Exxon-Mobil
PO Box 4358
Houston, TX 77210-4358

Dear Mr Correa:

Reference is made to the following wells located in the Ratherford Unit, T. 41 S., R. 24 E., San Juan County, Utah:

- 1) No. 15W21, 660' FNL & 1820' FWL sec. 15, Lease 14-20-603-355.
- 2) No. 10W43, 1980' FSL & 550' FEL sec. 10, Lease 14-20-603-4037.
- 3) No. 10W23, 1980' FSL & 1980' FWL sec. 10, Lease 14-20-603-4043.

Also referenced are your Sundry Notices dated May 2, 2001, which requested approval to temporarily abandon the subject wells. You are required to submit your justifications as to why these wells will remain in an inactive status instead of being plugged or returned to injection. You are required to submit these justifications by July 1, 2001.

Failure to comply within the time above may result in an assessment in accordance with 43 CFR 3163.1.

Under provisions of 43 CFR 3165.3, you may request an Administrative Review of the orders described above. Such request, including all supporting documents, must be filed in writing within 20 business days of receipt of this notice and must be filed with the State Director, Bureau of Land Management (NM-93000), P. O. Box 27115, Santa Fe, New Mexico 87502-0115. Such requests shall not result in a suspension of the order(s) unless the reviewing official so determines. Procedures governing appeals from instructions, orders or decisions are contained in 43 CFR 3165.4 and 43 CFR 4.400 et seq.

If you have any questions please contact Stephen Mason with this office at (505) 599-6364.

Sincerely,

Stephen Mason
Petroleum Engineer, Petroleum Management Team

cc:
BIA, Window Rock; Navajo Nation Minerals Dept.; EPA

RECEIVED

MAY 11 2001

DIVISION OF
OIL, GAS AND MINING

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____
Rutherford unit Wells
(Loc.) Sec _____ Twp _____ Rng. _____
(API No.) _____

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

Other _____

1. Date of Phone Call: _____ Time: _____

2. DOGM Employee (name) DUSTIN DOUCET (Initiated Call)
Talked to:
Name Steve Mason (Initiated Call) - Phone No. (505) 599-6364
of (Company/Organization) BLM - Farmington

3. Topic of Conversation: SI/TA Extension - is it justified
where do the BLM stand?

4. Highlights of Conversation: Called Steve 7/19/01 15:45 left message
Steve returned call 7/20/01 @ 10:30. He has approved
the SI/TA's. Said it is a small percentage of SI's in
area (~~over~~ 23 of over 300 in area) They are making progress
on plugging SI wells in area. It is taking a while
to put SI's on Injection waiting on results etc.
Adequate info has been provided to BLM according to Steve.

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.

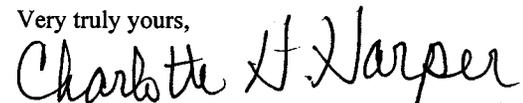
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

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 LAND MANAGEMENT**

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.*

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

Oil Well Gas Well Other **INJECTOR**

2. Name of Operator

Exxon Mobil Corporation

3a. Address **P.O. Box 4358
Houston TX 77210-4358**

3b. Phone No. (include area code)
(713) 431-1010

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**1980' FSL 1980 FWL
Sec 10 T41S R24E**

5. Lease Serial No.

14-20-603-4043

6. If Indian, Allottee or Tribe Name

Navajo Tribal

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

SW-I-4192

8. Well Name and No.

Ratherford Unit 10W23

9. API Well No.

43-037-16402

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(es) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other TA extension
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

Exxon Mobil Oil Corporation request extension on authorization toTA.

TA procedure submitted on intial request dated 5/2/01 and approved by Steven Mason remains unchanged.

Due to critical work being performed on injectors and rig constraints we have been unable to perform TA.

Well will be retained for future injection.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Joel O. Talavera		Title Regulatory Specialist
Signature <i>Joel O. Talavera</i> (6305)		Date 12/13/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

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

5. Lease Serial No. 14-20-603-4043
6. If Indian, Allottee or Tribe Name Navajo Tribal
7. If Unit or CA/Agreement, Name and/or No. SW-I-4192
8. Well Name and No. Rutherford Unit 10W23
9. API Well No. 43-037-16402
11. County or Parish, State GREATER ANETH SAN JUAN UT

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJECTOR	
2. Name of Operator Exxon Mobil Corporation	
3a. Address P.O. Box 4358 Houston TX 77210-4358	3b. Phone No. (include area code) (713) 431-1010
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FSL 1980 FWL Sec 10 T41S R24E	

12. CHECK APPROPRIATE BOX(es) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other TA extension
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

Exxon Mobil Oil Corporation request extension on authorization toTA.

TA procedure submitted on intial request dated 5/2/01 and approved by Steven Mason remains unchanged.

Due to critical work being performed on injectors and rig constraints we have been unable to perform TA.

Well will be retained for future injection.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
DEC 14 2001
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Joel O. Talavera	Title Regulatory Specialist
Signature <i>Joel O. Talavera</i> (6305)	Date 12/13/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

XXXXXXXXXXXXXXXXXXXX
Navajo Area Office
NAVAJO REGION

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

AUG 30 2001

2001-08-30 11:15
11:15

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,

GENNI 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>DBM</i>
NATV AM MIN COORD	
SOLID MIN TEAM	
PETRO PART TEAM	2
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

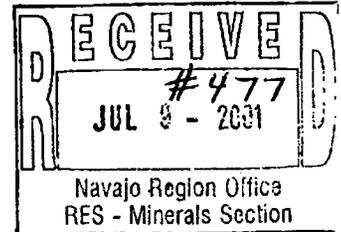
AB 7/12/2001
SN
593
File

June 27, 2001

ExxonMobil
Production

Certified Mail
Return Receipt Requested

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543



Change of Name -
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

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

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

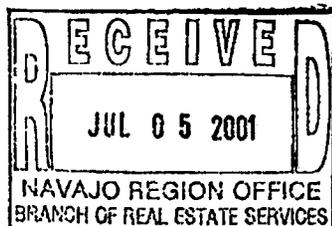
If you have any questions , please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments



ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isaac

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	<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. Miller
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

1000 West Loop South, Suite 1900, Houston, Texas 77027-3501
Houston, TX 77027-4600 • Fax: (713) 297-4759

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 }
County of Somerset } ss.

On this 10th day of May, 2001

before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson; and that the signature of said Notary Public is in the genuine handwriting of said Notary Public in the presence of said Notary Public.



Notary Public State of New Jersey
No. 2231647

Karen A. Price
Notary Public

Commission Expires Oct. 28, 2004

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001



Kenneth C. Wendel
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.

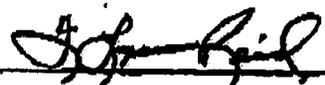
IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.



F. A. Risch, President 

STATE OF TEXAS)
COUNTY OF DALLAS)

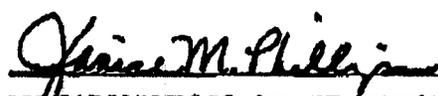
F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.



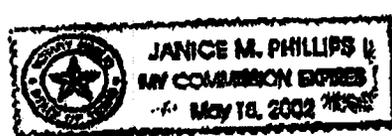
F. L. REID, Secretary

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. 132 04/04
F010601000187

CSC 45

CERTIFICATE OF AMENDMENT

OF

MOBIL OIL CORPORATION

Under Section 805 of the Business Corporation Law

SAC

**STATE OF NEW YORK
DEPARTMENT OF STATE**

100 cc

Filed by: EXXONMOBIL CORPORATION

(Name)

FILED JUN 01 2001

TAX \$

6949 Las Colinas Blvd.

(Mailing address)

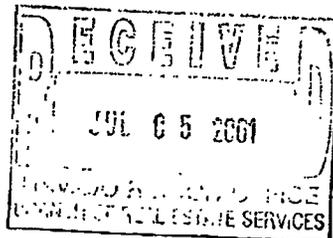
BY: *SAC*

ny Albany

Irving, TX 75039-2298

(City, State and Zip code)

Cust Ref # 1655781MPJ



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 be "J. Heub", written over a horizontal line.

Special Deputy Secretary of State

OPERATOR CHANGE WORKSHEET

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 14-W-42	14-41S-23E	43-037-15860	6280	INDIAN	WI	A
RATHERFORD UNIT 14-31	14-41S-23E	43-037-31717	6280	INDIAN	WI	A
24-31	24-41S-23E	43-037-15862	6280	INDIAN	WI	A
24-42	24-41S-23E	43-037-15863	6280	INDIAN	WI	A
6-14	06-41S-24E	43-037-15984	6280	INDIAN	WI	A
7-12	07-41S-24E	43-037-15985	6280	INDIAN	WI	A
7-14	07-41S-24E	43-037-15986	6280	INDIAN	WI	A
7-34	07-41S-24E	43-037-15989	6280	INDIAN	WI	A
NAVAJO B41-7 (RATHERFORD 7-41)	07-41S-24E	43-037-15990	99990	INDIAN	WI	A
8-14	08-41S-24E	43-037-15992	6280	INDIAN	WI	A
RATHERFORD 8W43	08-41S-24E	43-037-16396	99996	INDIAN	WI	A
NAVAJO B-5 (RATHERFORD 9-43)	09-41S-24E	43-037-16400	99990	INDIAN	WI	I
NAVAJO B-6 (RATHERFORD 10W21)	10-41S-24E	43-037-16401	99990	INDIAN	WI	I
NAVAJO B-2 (RATHERFORD 10W23)	10-41S-24E	43-037-16402	99990	INDIAN	WI	I
NAVAJO W-2 (RATHERFORD 10W43)	10-41S-24E	43-037-16403	99990	INDIAN	WI	I
NAVAJO A-11 (RATHERFORD 15W21)	15-41S-24E	43-037-16411	99990	INDIAN	WI	I
NAVAJO A-19 (RATHERFORD 15W23)	15-41S-24E	43-037-16412	99990	INDIAN	WI	I
NAVAJO A-24 (RATHERFORD 15W43)	15-41S-24E	43-037-16413	99990	INDIAN	WI	I
16-12	16-41S-24E	43-037-15720	6280	INDIAN	WI	A
16-14	16-41S-24E	43-037-15721	6280	INDIAN	WI	A

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: 06/29/2001
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
- Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
- 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

NOTE: EPA ISSUES UIC PERMIT

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 04/10/2002
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/10/2002
- Bond information entered in RBDMS on: N/A
- Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

- State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

- Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

- Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

- (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:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Permits
APR 18 2005

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

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

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other **Injection**

2. Name of Operator
ExxonMobil Oil Corporation

3a. Address **P.O. Box 4358**
Houston TX 77210-4358

3b. Phone No. (include area code)
(281) 654-1936

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NESW 1980' FWL & 1980' FSL
Sec 10 T41S R24E

5. Lease Serial No.
14-20-603-4043 **UTU68931A**

6. If Indian, Allottee or Tribe Name
Navajo Tribal

7. If Unit or CA/Agreement, Name and/or No.
Ratherford Unit

8. Well Name and No.
Ratherford Unit **10W23**

9. API Well No.
43-037-16402

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN **UT**

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

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

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

3-23-05 MI spot Rig, Key Rig #61

3-24-05 Bled well down, no psi on the tubing or casing, ND wellhead, NUBOP and Hydrill, RU work floor, and tong. PSI tested pipe rams and hydro to 1000 psi, tested good. TOOH with 56 joints of tubing and lay it down, PU bit and scraper, PU work string, 50 joints, TIH to 1551'. TOOH with 25 stands and lay down Bit and Scraper. TIH with the 25 stands from the derrick. PU 120 joints of work string from trailer and tagged cement at 5263' with 170 joints of tubing. TOOH with 1 joint and lay it down, 69 joints still in hole. Ready to circulate fresh water.

3-25-05 Bled well down, no psi on the tubing or casing. Pumped 1300 bbls of fresh water down the tubing and out the casing. PSI tested the casing to 1000 psi and tested good, SWI.

Approved as to plugging of the well bore.
 Liability under bond is retained until
 surface restoration is completed.

SEE ATTACHMENT FOR ADDITIONAL REMARKS

14. I hereby certify that the foregoing is true and correct
 Name (Printed/Typed) **Tiffany A. Stebbins** Title **Staff Office Assistant**

Signature *Tiffany Stebbins* Date **04/11/2005**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

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

RECEIVED

APR 22 2005

ACCEPTED FOR RECORD

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DIV. OF OIL, GAS & MINING

APR 13 2005

(Instructions on Reverse)

OPERATOR

FARMINGTON FIELD OFFICE
 BY *Sh...*

RECEIVED
 APR 12 PM 4 07
 TO FARMINGTON

ATTACHMENT

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 re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.
14-20-603-4043 **UTU68931A**

6. If Indian, Allottee or Tribe Name
Navajo Tribal

7. If Unit or CA/Agreement, Name and/or No.
Ratherford Unit

8. Well Name and No.
Ratherford Unit **10W23**

9. API Well No.
43-037-16402

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN **UT**

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other **Injection**

2. Name of Operator
ExxonMobil Oil Corporation

3a. Address **P.O. Box 4358**
Houston TX 77210-4358

3b. Phone No. (include area code)
(281) 654-1936

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NESW 1980' FWL & 1980' FSL
Sec 10 T41S R24E

Additional Remarks

3-28-05 Bled well down, no psi on tubing or casing. RU BJ Services hard lines. Held safety meeting. BJ psi tested their lines to 3000 psi. Started pumping cement, about 27 bbls (143 sacks) displaced with 23 bbls of water, for the bottom plug. RD BJ Services. TOOH with 23 stands of tubing and stand them in the derrick, TOOH with rest of the tubing and lay them down. RU wireline service. Wireline tagged cement at 4045', wireline perforated casing at 1450'. PU BJ Services to establish circulation. Pump water down the tubing and out the braden head (circulation good). RD wireline service unit. PU cement retainer, TIH with the 23 stands from the derrick and set retainer at 1435', SWI Ready for Cement.

3-29-05 Bled well down, no psi on tubing or casing. RU BJ Services hard lines. Held safety meeting with BJ Services. PSI test BJ's line to 3000 psi, started pumping cement 14.6 ppg / 72 bbls, rig crew stung out and pumped 14.6 ppg / 10 bbls more cement, pump 4 bbls of displacement with water. RD BJ Services. TOOH with 23 joints of tubing and lay them down. RU BJ Services, pumped 14.6 ppg / 17 bbls of cement and displaced with 2 bbls of water. TOOH with the rest of tubing and stinger and lay them down, RD work floor, tong, NDBOP. PU casing cutter and cut casing 6' below ground level. TOOH with casing cutter and lay it down, BJ Services pumped more cement, about 14.6 ppg / 5 bbls to fill up where casing is cut off. RD hard lines, RD WSU. FINAL REPORT

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:		6/1/2006
FROM: (Old Operator): 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 (UIC)

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See attached list		API Number Attached
Location of Well		Field or Unit Name Rutherford Unit
Footage: See attached list	County: San Juan	Lease Designation and Number See attached list
QQ, Section, Township, Range:	State: UTAH	

EFFECTIVE DATE OF TRANSFER: 6/1/2006

CURRENT OPERATOR

Company: Exxon Mobil Oil Corporation Name: _____
 Address: PO Box 4358 Signature: _____
city Houston state TX zip 77210-4358 Title: _____
 Phone: (281) 654-1936 Date: _____

Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

NEW OPERATOR

Company: Resolute Natural Resources Company Name: Dwight E Mallory
 Address: 1675 Broadway, Suite 1950 Signature: 
city Denver state CO zip 80202 Title: Regulatory Coordinator
 Phone: (303) 534-4600 Date: 4/20/2006

Comments: A list of affected UIC wells is attached.
 New bond numbers for these wells are:
 BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by: 
 Title: Field Operations Manager Approval Date: 6/12/06

Comments:

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		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached list
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 Tribe
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		7. UNIT or CA AGREEMENT NAME: Ratherford Unit
2. NAME OF OPERATOR: Resolute Natural Resources Company <i>N2700</i>		8. WELL NAME and NUMBER: See attached list
3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202	PHONE NUMBER: (303) 534-4600	9. API NUMBER: Attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached list		10. FIELD AND POOL, OR WILDCAT: Greater Aneth
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 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 Malloy</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 (See Instructions on Reverse Side)
Earlene Russell, Engineering Technician

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

(5/2000)

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:
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: Ship Rock
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		7. UNIT or CA AGREEMENT NAME: UTU68931A
2. NAME OF OPERATOR: ExxonMobil Oil Corporation <u>N1855</u>		8. WELL NAME and NUMBER: Ratherford
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358		9. API NUMBER: attached
PHONE NUMBER: (281) 654-1936		10. FIELD AND POOL, OR WILDCAT: Aneth
4. LOCATION OF WELL FOOTAGES AT SURFACE:		COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<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 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 injection wells included in the transfer.

NAME (PLEASE PRINT) Laurie Kilbride TITLE Permitting Supervisor

SIGNATURE *Laurie S. Kilbride* DATE 4/19/2006

(This space for State use only) **APPROVED** 6/27/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician
(See Instructions on Reverse Side)

RECEIVED
APR 21 2006

GREATER ANETH FIELD UIC WELL LIST
Ratherford lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
RATHERFORD UNIT	1W24	430371583900S1	Shut-in	14-20-603-246A	NE	SE	1	41S	23E	0651FSL	3300FEL
RATHERFORD UNIT	2W44	430371638600S1	Active	14-20-603-246A	SE	SE	2	41S	23E	0810FSL	0510FEL
RATHERFORD UNIT	11W42	430371584100S1	Active	14-20-603-246A	SE	NE	11	41S	23E	3290FSL	4617FWL
RATHERFORD UNIT	11W44	430371584200S1	Shut-in	14-20-603-246A	SE	SE	11	41S	23E	0660FSL	0558FEL
RATHERFORD UNIT	12W11	430371584300S1	Active	14-20-603-246A	NW	NW	12	41S	23E	0678FNL	4620FEL
RATHERFORD UNIT	12W13	430371640400S1	Active	14-20-603-246A	NW	SW	12	41S	23E	1980FSL	4620FEL
RATHERFORD UNIT	12W22	430371584501S1	Active	14-20-603-246A	SE	NW	12	41S	23E	1920FNL	2080FWL
RATHERFORD UNIT	12W24	430373115101S1	Active	14-20-603-246A	SE	SW	12	41S	23E	0775FSL	1980FWL
RATHERFORD UNIT	12W31	430371584700S1	Active	14-20-603-246A	NW	NE	12	41S	23E	0661FNL	1981FEL
RATHERFORD UNIT	12W33	430371584800S1	Active	14-20-603-246A	NW	SE	12	41S	23E	1958FSL	3300FEL
RATHERFORD UNIT	12W42	430371585000S1	Active	14-20-603-246A	SE	NE	12	41S	23E	3275FSL	0662FEL
RATHERFORD UNIT	12W44A	430373154300S1	Shut-in	14-20-603-246A	SE	SE	12	41S	23E	0772FSL	0807FEL
RATHERFORD UNIT	13W11	430373115201S1	Active	14-20-603-247A	NW	NW	13	41S	23E	0500FNL	0660FWL
RATHERFORD UNIT	13W13	430371585100S1	Active	14-20-603-247A	NW	SW	13	41S	23E	1980FSL	4620FEL
RATHERFORD UNIT	13W22	430371585200S1	Active	14-20-603-247A	SE	NW	13	41S	23E	1988FNL	3300FEL
RATHERFORD UNIT	13W24	430371585300S1	Active	14-20-603-247A	SE	SW	13	41S	23E	0660FSL	3300FEL
RATHERFORD UNIT	13W33	430371585501S1	Active	14-20-603-247A	NW	SE	13	41S	23E	1970FSL	1979FEL
RATHERFORD UNIT	13W42	430371585700S1	Shut-in	14-20-603-247A	SE	NE	13	41S	23E	2139FNL	0585FEL
RATHERFORD UNIT	13W44	430371640700S1	Active	14-20-603-247A	SE	SE	13	41S	23E	0653FSL	0659FEL
RATHERFORD UNIT	14-31	430373171700S1	Active	14-20-603-247A	NW	NE	14	41S	23E	0754FNL	1604FEL
RATHERFORD UNIT	14W42	430371586001S1	Active	14-20-603-247A	SE	NE	14	41S	23E	1976FNL	653FEL
RATHERFORD UNIT	24W31	430371586200S1	Shut-in	14-20-603-247A	NW	NE	24	41S	24E	0560FNL	1830FEL
RATHERFORD UNIT	24W42	430371586300S1	Shut-in	14-20-603-247A	SE	NE	24	41S	24E	1980FNL	0660FEL
RATHERFORD UNIT	17W12	430371572601S1	Active	14-20-603-353	SW	NW	17	41S	24E	1980FNL	510FWL
RATHERFORD UNIT	17W14	430371572700S1	Active	14-20-603-353	SW	SW	17	41S	24E	0610FSL	0510FWL
RATHERFORD UNIT	17W21	430371641601S1	Active	14-20-603-353	NE	NW	17	41S	24E	0510FNL	1830FWL
RATHERFORD UNIT	17W23	430371572801S1	Active	14-20-603-353	NE	SW	17	41S	24E	1880FSL	1980FWL
RATHERFORD UNIT	17W32	430371572900S1	TA'd	14-20-603-353	SW	NE	17	41S	24E	1830FNL	2030FEL
RATHERFORD UNIT	17W34	430371573000S1	Active	14-20-603-353	SW	SE	17	41S	24E	0560FSL	1880FEL
RATHERFORD UNIT	17W41	430371573100S1	Shut-in	14-20-603-353	NE	NE	17	41S	24E	0610FNL	0510FEL
RATHERFORD UNIT	17W43	430371641701S1	Active	14-20-603-353	NE	SE	17	41S	24E	1980FSL	0660FEL
RATHERFORD UNIT	18-43B	430373171801S1	Active	14-20-603-353	NE	SE	18	41S	24E	2023FSL	0651FEL
RATHERFORD UNIT	18W12	430373115301S1	Active	14-20-603-353	SW	NW	18	41S	24E	1980FNL	560FWL
RATHERFORD UNIT	18W14	430371573501S1	Active	14-20-603-353	SW	SW	18	41S	24E	0810FSL	0600FWL
RATHERFORD UNIT	18W21	430371641801S1	Active	14-20-603-353	NE	NW	18	41S	24E	660FNL	1882FWL
RATHERFORD UNIT	18W23	430373024400S1	Shut-in	14-20-603-353	NE	SW	18	41S	24E	2385FSL	2040FWL
RATHERFORD UNIT	18W32	430371573601S1	Active	14-20-603-353	SW	NE	18	41S	24E	2140FNL	1830FEL
RATHERFORD UNIT	18W34	430371573701S1	Active	14-20-603-353	SW	SE	18	41S	24E	780FSL	1860FEL
RATHERFORD UNIT	18W41	430371573800S1	TA'd	14-20-603-353	NE	NE	18	41S	24E	0660FNL	0660FEL
RATHERFORD UNIT	19-12	430371573901S1	Active	14-20-603-353	SW	NW	19	41S	24E	1980FNL	0600FWL
RATHERFORD UNIT	19-32	430371574301S1	Active	14-20-603-353	SW	NE	19	41S	24E	2717FNL	2802FEL
RATHERFORD UNIT	19-34	430371574401S1	Active	14-20-603-353	SW	SE	19	41S	24E	0660FSL	1980FEL
RATHERFORD UNIT	19W21	430371574100S1	Shut-in	14-20-603-353	NE	NW	19	41S	24E	0660FNL	1860FWL
RATHERFORD UNIT	19W23	430371574200S1	Shut-in	14-20-603-353	NE	SW	19	41S	24E	2080FSL	1860FWL
RATHERFORD UNIT	19W43	430371642000S1	Shut-in	14-20-603-353	NE	SE	19	41S	24E	1980FSL	0760FEL
RATHERFORD UNIT	20-12	430371574601S1	Active	14-20-603-353	SW	NW	20	41S	24E	0709FNL	0748FEL
RATHERFORD UNIT	20-14	430371574701S1	Active	14-20-603-353	SW	SW	20	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	20-32	430371574901S1	Active	14-20-603-353	SW	NE	20	41S	24E	0037FNL	0035FWL
RATHERFORD UNIT	20-34	430371575001S1	Active	14-20-603-353	SW	SE	20	41S	24E	0774FNL	0617FWL
RATHERFORD UNIT	20-67	430373159000S1	Active	14-20-603-353	NE	SW	20	41S	24E	2629FSL	1412FWL
RATHERFORD UNIT	20W21	430371642300S1	Active	14-20-603-353	NE	NW	20	41S	24E	0660FNL	1880FWL
RATHERFORD UNIT	20W23	430371574800S1	Active	14-20-603-353	NW	SW	20	41S	24E	2080FSL	2120FWL
RATHERFORD UNIT	20W41	430371575100S1	Active	14-20-603-353	NE	NE	20	41S	24E	0660FNL	0660FEL
RATHERFORD UNIT	20W43	430371642400S1	TA'd	14-20-603-353	NE	SE	20	41S	24E	2070FSL	0810FEL
RATHERFORD UNIT	16W12	430371572000S1	Active	14-20-603-355	SW	NW	16	41S	24E	1880FNL	0660FWL

GREATER ANETH FIELD UIC WELL LIST
Ratherford lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
RATHERFORD UNIT	16W14	430371572100S1	Shut-in	14-20-603-355	SW	SW	16	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	16W21	430371641400S1	Active	14-20-603-355	NE	NW	16	41S	24E	0660FNL	1880FWL
RATHERFORD UNIT	16W23	430371572201S1	Active	14-20-603-355	NE	SW	16	41S	24E	1980FSL	1980FWL
RATHERFORD UNIT	16W43	430371641501S1	Active	14-20-603-355	NE	SE	16	41S	24E	2140FSL	0820FEL
RATHERFORD UNIT	21-14	430371575301S1	Active	14-20-603-355	SW	SW	21	41S	24E	0660FSL	0460FWL
RATHERFORD UNIT	21-67	430373175301S1	Active	14-20-603-355	NE	SW	21	41S	24E	2560FSL	1325FWL
RATHERFORD UNIT	21W21	430371642501S1	Active	14-20-603-355	NE	NW	21	41S	24E	0660FNL	2030FWL
RATHERFORD UNIT	6W14	430371598400S1	Active	14-20-603-368	NE	SE	6	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	7W12	430371598500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2140FNL	0585FWL
RATHERFORD UNIT	7W14	430371598600S1	Active	14-20-603-368	NE	SE	7	41S	24E	1065FSL	0660FWL
RATHERFORD UNIT	7W21	430371639400S1	Active	14-20-603-368	NE	NW	7	41S	24E	0710FNL	1820FWL
RATHERFORD UNIT	7W34	430371598900S1	Active	14-20-603-368	SW	SE	7	41S	24E	0710FSL	2003FEL
RATHERFORD UNIT	7W43	430371639500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2110FSL	0660FEL
RATHERFORD UNIT	8W14	430371599200S1	Active	14-20-603-368	SW	NE	8	41S	24E	0745FSL	0575FWL
RATHERFORD UNIT	10W43	430371640300S1	TA'd	14-20-603-4037	NE	SE	10	41S	24E	1980FSL	0550FEL
RATHERFORD UNIT	29-12	430371533701S1	Active	14-20-603-407	SW	NW	29	41S	24E	2870FNL	1422FWL
RATHERFORD UNIT	29-32	430371533901S1	Active	14-20-603-407	SW	NE	29	41S	24E	0694FNL	0685FWL
RATHERFORD UNIT	29W21	430371643200S1	Active	14-20-603-407	NE	NW	29	41S	24E	0667FNL	2122FWL
RATHERFORD UNIT	29W41	430371643300S1	Active	14-20-603-407	NE	NE	29	41S	24E	0557FNL	0591FEL
RATHERFORD UNIT	29W43	430371643400S1	Shut-in	14-20-603-407	NE	SE	29	41S	24E	1980FSL	0660FEL
RATHERFORD UNIT	30W41	430371534300S1	Shut-in	14-20-603-407	NE	NE	30	41S	24E	0660FNL	0660FEL
RATHERFORD UNIT	28-12	430371533601S1	Active	14-20-603-409	SW	SE	28	41S	24E	2121FNL	0623FWL
RATHERFORD UNIT	28W21	430371643100S1	Shut-in	14-20-603-409	NE	NW	28	41S	24E	0660FNL	2022FWL
RATHERFORD UNIT	9W23	430371639800S1	Active	14-20-603-5046	NW	SE	9	41S	24E	1980FSL	1980FWL

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

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL			5. MINERAL LEASE NO: 14-20-603-4043	6. SURFACE: Indian
1A. TYPE OF WORK: DRILL <input type="checkbox"/> REENTER <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe	
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: Ratherford Unit	
2. NAME OF OPERATOR: Resolute Natural Resources Company			9. WELL NAME and NUMBER: RU 10-23	
3. ADDRESS OF OPERATOR: 1675 Broadway #1950 CITY: Denver STATE: CO ZIP: 80202		PHONE NUMBER: (303) 534-4600	10. FIELD AND POOL, OR WILDCAT: Greater Aneth <i>365</i>	
4. LOCATION OF WELL (FOOTAGES) <i>653408X 4122135Y 37.234958 -109.270626</i> AT SURFACE: 1980' FSL and 1980' FWL, Sec 10-41S-24E, SLM AT PROPOSED PRODUCING ZONE: <i>569' FSL & 24' FWL Sec 9</i> <i>50' FSL & 2093' FWL Sec 3</i>			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 10 41S 24E S	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:			12. COUNTY: San Juan	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 1700	16. NUMBER OF ACRES IN LEASE: 560	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 20		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 250	19. PROPOSED DEPTH: 5,465	20. BOND DESCRIPTION: PA002769/B001252		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 4574 GL	22. APPROXIMATE DATE WORK WILL START: 6/15/2007	23. ESTIMATED DURATION: 60 Days		

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
	13 3/8 48#	175	See attached
	8 5/8 H-40 28#	1,429	See attached
	5 1/2 J-55 14#	5,628	See attached

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Dwight Marjory TITLE EH&S Coordinator
SIGNATURE *[Signature]* DATE 5/24/07

(This space for State use only)

API NUMBER ASSIGNED: 43-037-16402

Lateral Approved by the Utah Division of Oil, Gas and Mining

Lateral #2 *653408X 4123155Y 37.244164*
RECEIVED
MAY 29 2007
-109.27019

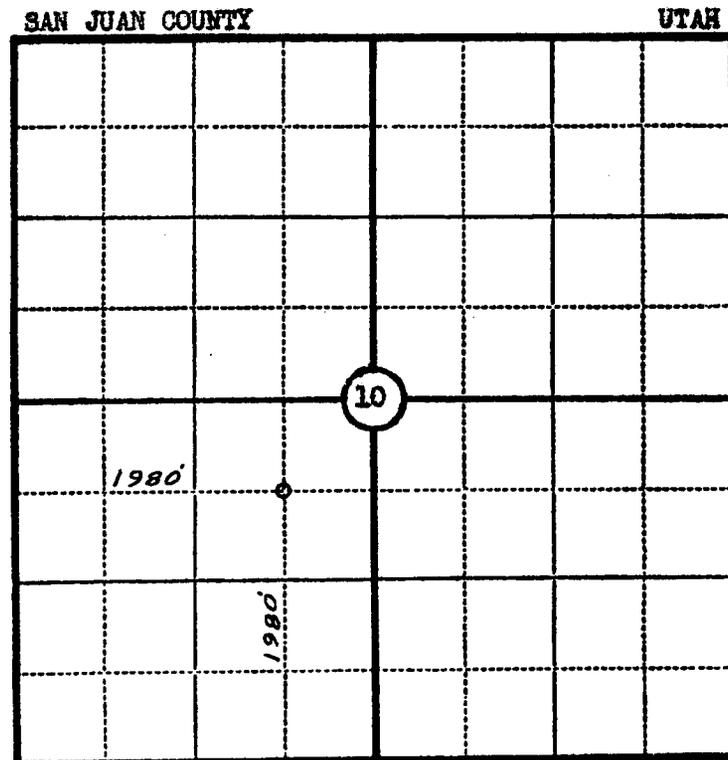
Company PHILLIPS PETROLEUM COMPANY

Lease NAVAJO "B" Well No. 4

Sec. 10, T. 41 S., R. 24 E. S.L.M.

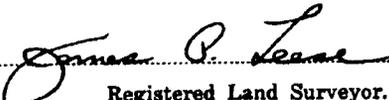
Location 1980' FROM THE SOUTH LINE AND 1980' FROM THE WEST LINE.

Elevation 4573.5 UNGRADED GROUND.



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:  Registered Land Surveyor.
James P. Leese
Utah Reg. No. 1472

Surveyed 15 October, 1958

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

RESOLUTE
NATURAL RESOURCES

May 24, 2007

State of Utah
Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, UT 84114-5801

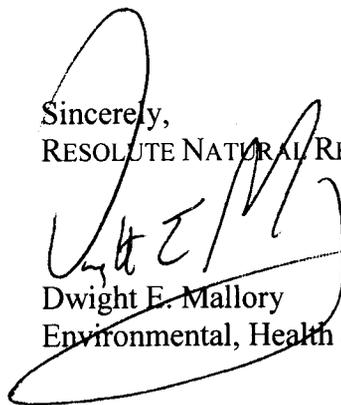
Re: Ratherford Unit 10-23: Application for Permit to Reenter

Resolute Natural Resources Company (Resolute) proposes to reenter the Ratherford Unit 10-23 well. The purpose of the reentry is to drill 2 horizontal laterals from the pre-existing wellbore and complete the well as a producing oil well in the Desert Creek member of the Paradox Formation.

Enclosed is a completed State of Utah Form 3 and a copy of the materials submitted to the Bureau of Land Management, Farmington Field Office in support of our application to reenter the subject well.

Please contact me at 303-573-4886 X 1165 regarding any additional information you may require.

Sincerely,
RESOLUTE NATURAL RESOURCES COMPANY



Dwight E. Mallory
Environmental, Health & Safety Coordinator

RECEIVED

MAY 29 2007

DIV. OF OIL, GAS & MINING

RESOLUTE

NATURAL RESOURCES

May 24, 2007

United States Department of Interior
Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87401

 **COPY**

Re: Ratherford Unit 10-23: Application for Permit to Reenter

Resolute Natural Resources Company (Resolute) proposes to reenter the Ratherford Unit 10-23 well. The purpose of the reentry is to drill 2 horizontal laterals from the pre-existing wellbore and complete the well as a producing oil well in the Desert Creek member of the Paradox Formation. Ultimately, the well may be converted to water injection for EOR purposes. However, Resolute understands that any conversion to injection would be subject to the terms of UIC permits issued by US Environmental Protection Agency (EPA), Region IX and Navajo EPA (NEPA).

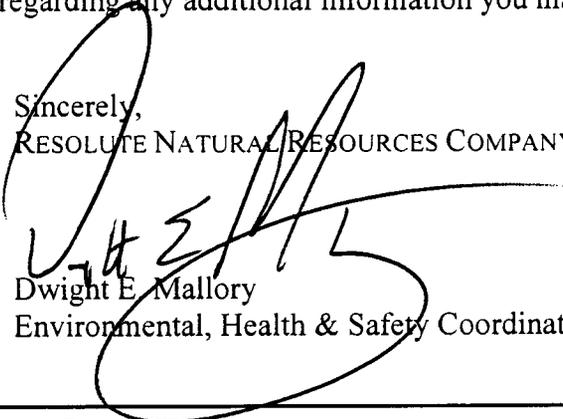
The Ratherford Unit is currently operating under an area UIC permit issued by EPA (permit # NN295000009) and an application for an area UIC permit is on file with Navajo EPA, which issued an interim authorization to inject pending technical review of the UIC application. Resolute understands that the proposed operations will require modification of the existing US EPA permit and that we may not resume injection prior to issuance of an approved permit modification by US EPA and sundry approval from BLM and Navajo EPA.

The following materials are enclosed for review:

1. BLM Form 3160-3, Application for Permit to Drill or Reenter
2. A well plat certified by a registered surveyor
3. Drilling Plan
4. Surface Use Plan
5. Operator certification

Please contact me at 303-573-4886 X 1165 regarding any additional information you may need.

Sincerely,
RESOLUTE NATURAL RESOURCES COMPANY


Dwight E. Mallory
Environmental, Health & Safety Coordinator

Hydrogen Sulfide Operations

The Desert Creek formation within the Greater Aneth area is known to have the potential to contain concentrations of H₂S of 100 ppm or more in the gas stream. The requirements and minimum standards listed below shall be implemented and maintained during the proposed operations at the site.

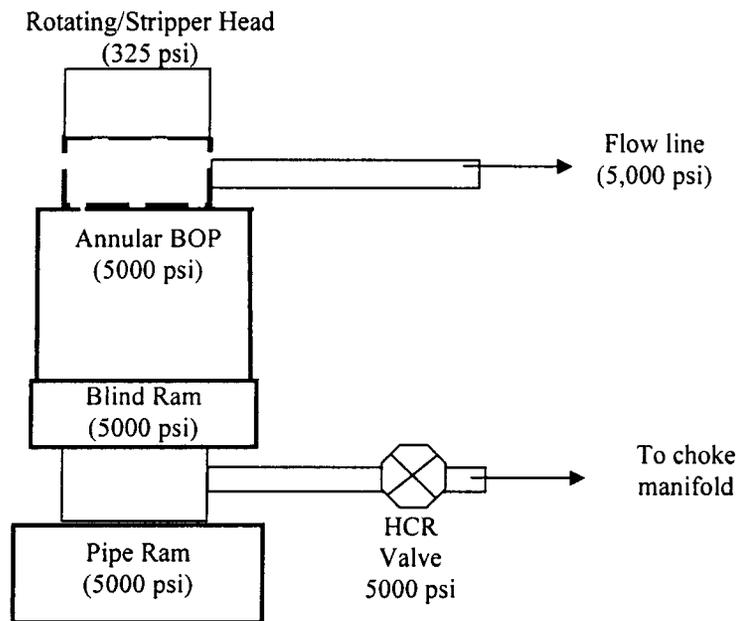
- 1) American Safety Inc. (ASI) has been contracted to provide personnel for continuous onsite safety supervision. An ASI representative will be onsite during all drilling operations and will be person primarily responsible for the overall operation of the on-site safety and training programs.
- 2) Warning signs will be posted upon entry to the location. Warning signs will utilize a red, yellow, green color code system that provides information on the potential for H₂S at the site at all times. Windssocks to indicate wind direction will also be installed at prominent locations such that at least 1 wind direction indicator is clearly visible at all times. ASI personnel will also control site access during the proposed operations.
- 3) Personnel working at the wellsite will be trained in H₂S contingency procedures in accordance with the general training requirements outlined in the American Petroleum Institute's (API) Recommended Practice (RP) 49 (April 15, 1987 or subsequent editions) for Safe Drilling of Wells Containing Hydrogen Sulfide.
- 4) A minimum of 2 briefing areas shall be designated for assembly of personnel during emergency conditions. Briefing areas shall be located a minimum of 150 feet from the well bore and 1 of the briefing areas shall be upwind of the well at all times. A minimum of 2 means of egress from the work location shall be designated prior to the commencement of operations. If secondary road is not available, a clearly marked footpath shall be provided to the primary briefing area.
- 5) H₂S detection and monitoring equipment that has a rapid response time and is capable of sensing a minimum of 10 ppm of H₂S in ambient air will be installed under the rig floor, at the shaker, and on the rig floor. The monitoring equipment will automatically activate visible and audible alarms when the ambient air concentration of H₂S reaches the threshold limits of 10 and 15 ppm in air, respectively.
- 6) Respiratory protection equipment consisting of pressure-demand type self contained breathing apparatus (SCBAs) will be available for the drilling crew and other essential personnel onsite. SCBAs are located on each rig as specified by the drilling contractor's program. All essential personnel onsite shall be trained in the use and location of the SCBAs and shall be able to obtain a continuous seal to the face with the equipment.

Overview

The proposed operation involves re-entry of the existing well bore and drilling 2 horizontal laterals from milled window casing exits. The laterals will be drilled and completed as 4 3/4" open hole using 3 3/4" motors, MWD, and gamma ray. The targets for the planned laterals are in the Desert Creek member of the Paradox formation.

Well Control

Re-Entry BOP Stack	WP	Flange Size	Depth
RSRA w/ HCR valve	5000 psi	7 1/16"	all laterals
Washington Stripper head			



RSRA (Blind ram/ spool/ pipe rams/ Annular)

This arrangement will allow for the well to be shut in and maintain access to well bore below blind rams in the event killing the well is necessary via outlet valves on A-section. The kill line should be 2" minimum nominal diameter. Use flanged valves on all outlets and flow lines and manifold.

Kill line and choke manifold line to flare pit as wells as emergency blooie line should be staked and chained at equal intervals, 30 ft, to pit. These lines should be as straight as practical with minimum choke line diameter of 3" and 2" for kill line.

Accumulator should be tested for pre-charge pressure on closing unit and hold pressure, 200 psi, on manifold once BOP equipment is closed..

Choke manifold should be operated and circulated through for kill rate pressures with each change of BHA., using two slow pump rates, at idle and one 10 strokes above that.

BOP Testing

Testing of BOP equipment and choke manifold along with TIW valves and upper and lower kelly valves to a low pressure of 200 psi and an upper pressure of 5000 psi (rented equip is 5000 # WP) for 15 minutes upon nipple up. Repeat BOP test every 7 days and record on chart. Do not test the annular above 1500 psi WP.

Replace/repair any and all leaking equipment, flanges, valves, etc. Record on tour sheet and keep chart.

Clean water should be used to test the BOPE since it is possible to plug a leak with mud. Water should be pumped through all equipment before testing to clean out mud and debris. The BOP hydraulic closing system, including lines, must be tested with the operating fluid to prevent contaminating the system.

The BOPE should be tested first to 200 psi and then to the rated working pressure. The low pressure test must always be made first to simulate field well control situations.

Additional testing procedures can be made available if requested.

Other Items

Set the well control equipment up for a hard shut-in with the valve to the choke manifold shut, along with the #1 choke closed also.

Shut well in 1/2 of the way out of the hole to check for flow. Always make sure the hole stays full during short trips also.

Extra oil storage -There was a facility at Ratherford Unit, 9-23, that can be used for setting up oil tanks to have oil hauled to tanks for pickup by Giant Refinery. Send all run tickets to Bob Brady at Resolute Natural Resources Inc. At that same facility spent fluids can be off-loaded into fenced in tanks with pump and injected, to include spent acid or produced brine. Used mud should be hauled to commercial disposal well only or stored in an earth pit for settling.

A kill sheet should be prepared and kept current for use while drilling the objective. Care should be kept to not overkill or bullhead kill weight mud into the formation. At that point, the well could be lost. All personnel should meet to discuss plans for well killing operation.

Drilling Fluids

Fluid Choices and Applications

- NaCl brine – Initial fluid used from 8.6 ppg up to 10 ppg (also used at 10.0 ppg for slugging drill pipe on trips)
- CaCl₂ brine- Necessary if required mud weight is btwn 10 ppg and 11.6 ppg. (should be used at trips to maintain control once in vertical hole). If needed to control water/oil/gas flow then system will be swapped over.
- CaCO₃ mud- Mud weights up to 16.0 ppg can be used for additional well control uses (again only use in laterals judiciously)

Torque and Drag

- Use XCD polymer for sweeping hole to assist in cuttings removal when torque and/or drag become a problem. *The return perm numbers for XCD are extremely better than those seen when using PAC.*
- Use DD to emulsify oil into system, caution should be used with oil in system for fire hazard, suggest keeping the concentration below 10%. *Mechanical shear will emulsify the oil first but the breakout will occur in pits and hence the need for something to chemically tie it to fluid.*

Losses

- Magma Fiber can be used for seepage or small losses
- CaCO₃ can be used as a bridging agent, minimizes formation damage (acid soluble)

Corrosion

- Maintain correct concentrations of Concor 404 in system for treating H₂S.
- Possible SV-120 (oxygen scavenger)
- Use caustic and lime to maintain pH within range 10.5-11.0.
- Run corrosion rings in drill pipe and change out on bit trips. Have metal loss evaluated quickly.

General Procedures

Prep the Well

- POH w/ rods and tbg and LD.
- RIH to set RTBP @ 5600'. Make sure any gas is circulated out of hole.
- Replace csg head and add base plate- make sure good cement is placed around casing.
- Big Red Tool will supply heads, base plate, and spear to pick up casing.
- PU bit and scraper and RIH to 5600'.
- POH and RU Blue Jet to run csg inspection log f/ 5600 ft-surf.
- Pressure test casing to 500 psi. RIH to recover RTBP.
- Use Basin Wireline to run a casing collar locator strip before setting the pkr to get on depth.
- Set the top of the TIW pkr @ approx 5511' (review collars w/ drlg engr before setting tools)
- PU latch-in tool with UBHO sub and RIH and latch into pkr.
- RU Scientific and RIH w/ gyro, obtain azimuth of keyway and POH surveying coming out of hole every 100 ft.
- POH w/ drill pipe.

Drill Horizontal #1

- Orient the whipstock at the surface using the latch-in tool, spline sub, debris sub and whipstock
- Double check orientation plans for whip
- PU and RIH to latch into pkr with mills made up to whip face
- Shear mills and begin milling window
- Once window is milled with 3-5 rathole drilled, POH w/ mills to PU directional tools.
- Use UBHO sub from Pathfinder or Scientific, PU 4 3/4" bit and motor, MWD, and gamma ray and RIH.
- Make sure Scientific gyro stinger seats well in UBHO sub w/o probs.
- Drill curve using gyro steering until magnetics are clean, then POH and continue w/ MWD alone.
- POH at TD w/ mtr and MWD and LD. PU retrieving hook and RIH to retrieve whipstock.
- POH w/ whipstock and LD.

Drill Horizontal #2

- MU next whip on catwalk and PU spaceout equipment to get bottom of whip face at proper depth.
- RIH w/ mills made up to top of whip face and set as before latching into TIW perm pkr.
- Again shear mills and mill window.
- Use UBHO sub from Pathfinder or Scientific, PU 4 3/4" bit and motor, MWD, and gamma ray and RIH.

- Drill curve using gyro steering until magnetics are clean, then POH and continue w/ MWD alone.
- Once curve has been landed, circ up samples (btms up!!) and POH and PU new 4 3/4" bit and RIH and continue drilling lateral (adjust motor down or change out either way). Try to avoid rerunning motors w/ over 100 hrs run time.
- POH at TD w/ mtr and MWD and LD.

Offset Information

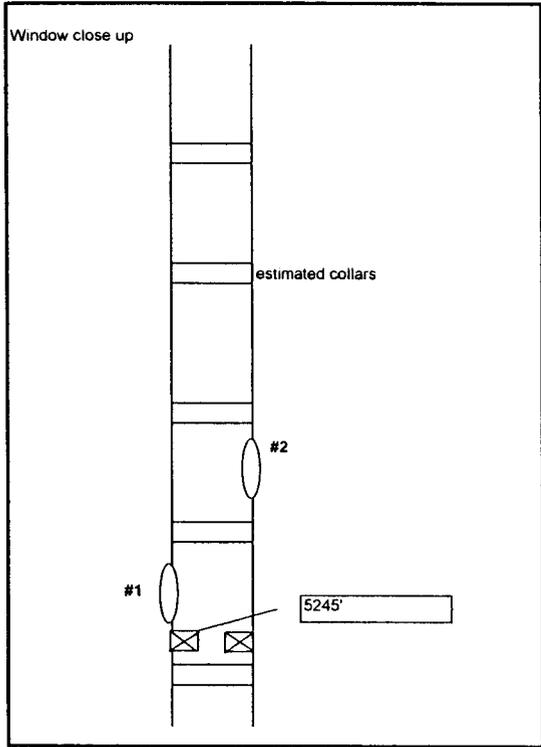
- Large volumes of water have been injected versus the relatively smaller volumes produced.
- It is right to expect flows of oil/water w/ possible gas when drilling laterals
- All offset injection wells will be shut-in before drilling operation begins.
- Expect some loss return problems drilling the curves due to production from H125.
- Be prepared for possible water flow or even swept oil nearing 1000 ft of existing laterals. (Have some tanks earmarked that can be moved in for producing and storing excess oil. Try to keep oil in fluid below 10% due to fire hazard.)

Bits

- HTC has several bits available 4 3/4" as well as Smith, whichever is more readily available.
- Bits used should be IADC code 547 if possible for curves and 537 for laterals.
- Use bits for up to 72 hrs if not talking. Once bit talks; POH and make bit trip.

Other Notes

- Please call mud loggers when RIH w/ whip stock to mill window #1. That will give them time to get out and setup.



17 1/4" OH

11" OH

7 7/8" OH

13 3/8" / 27.1# @ 175'
 175 sx cmt
 TOC surf

8 5/8" / 24# / J55 @ 1429'
 800 ft³ + 125 sx + 38 sx down annulus
 TOC surf

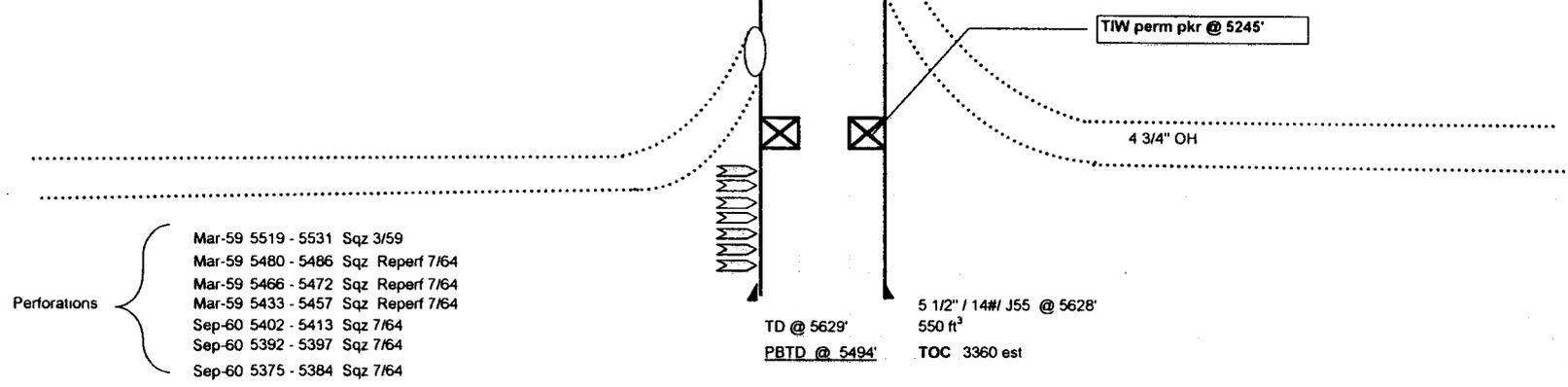
Well Name Ratherford Unit 10-23
 Re-entry Horizontal
 Sec 10 - 41S - 24E
 San Juan County, UT
 1980 FSL, 1980 FWL

Geo GL: 4578'
 Geo KB: 4591'

NOTE: Well was P&A'd in 2005
 Cement plugs from surf-250', 1025'-1450', 4045'-5230', and 5260'-5270'
 Cmt retainers at 1435' and 5280'
 Squeeze hole at 1450'
 Will need to drill out plugs to 5260'

Window	Top	Btm	EOC MD	EOC TVD	Azi°	Curve Radius	Build Rate	Spacer	Lateral Length
1	5233	5240	5552.6	5439	230	199	28.8	5	2252
2	5214	5221	5563.4	5439	357	218	26.3	24	3134

*NOTE: Whipstock should be set at azimuth above. It assumes a 5-deg right-hand walk.



- Perforations
- Mar-59 5519 - 5531 Sqz 3/59
 - Mar-59 5480 - 5486 Sqz Reperf 7/64
 - Mar-59 5466 - 5472 Sqz Reperf 7/64
 - Mar-59 5433 - 5457 Sqz Reperf 7/64
 - Sep-60 5402 - 5413 Sqz 7/64
 - Sep-60 5392 - 5397 Sqz 7/64
 - Sep-60 5375 - 5384 Sqz 7/64

TD @ 5629'
 PBTD @ 5494'

5 1/2" / 14# J55 @ 5628'
 550 ft³
 TOC 3360 est

Basic Well Data
Additional Rutherford Wells

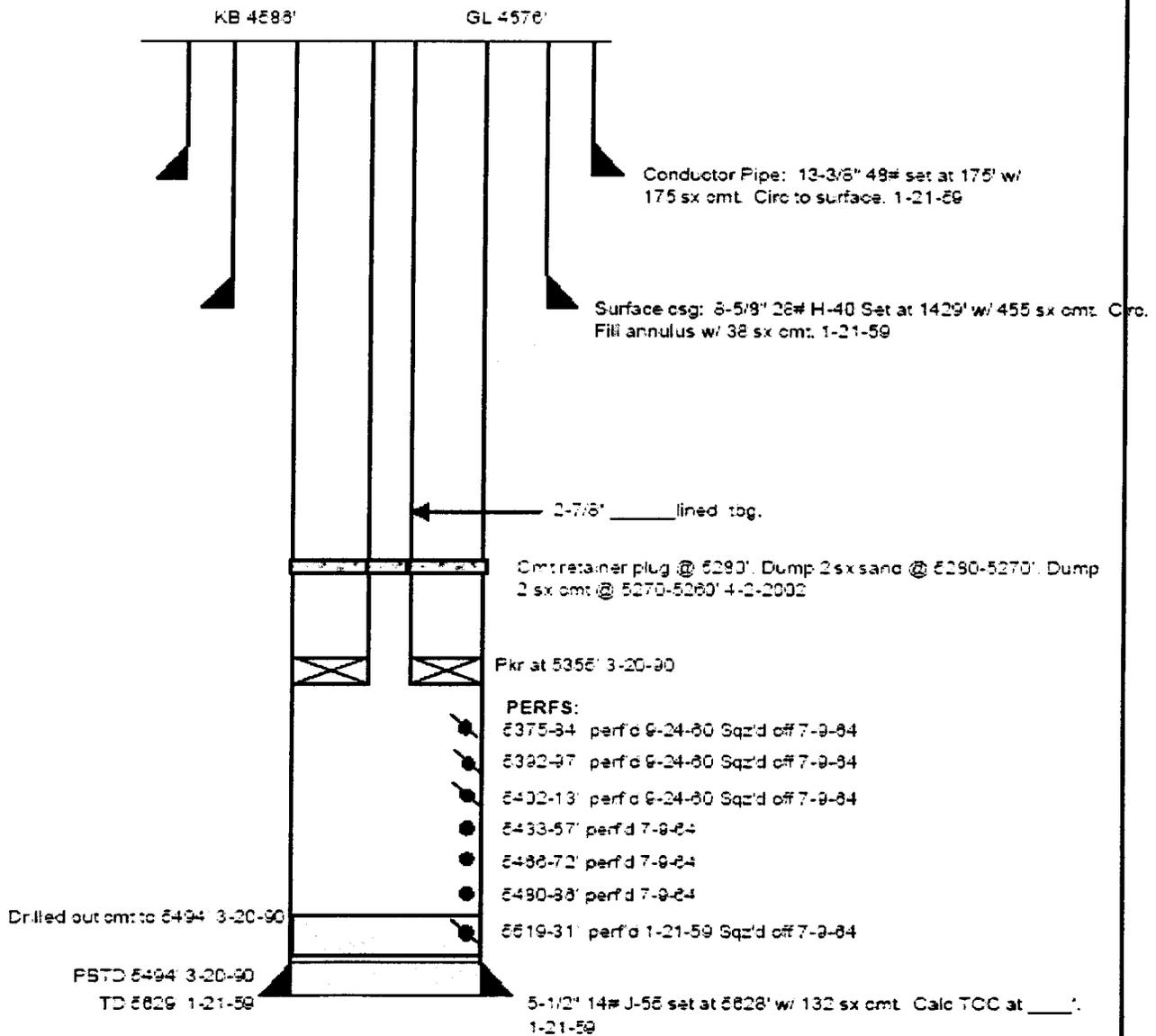
Well	Rutherford 10-23
Drilling priority	
Location	1980 FSL, 1980 FWL Sec 10 - 41S - 24E
Spud date	1/21/1959
Completion date	3/7/1959
TD	5629
PBD	5591 original; 5494 (3/90)
Elevation KB	4586
Elevation GL	4576
Geological tops	
Chinle	
DeChelly	
Organ Rock	
Hermosa	
Ismay	
Desert Creek	
Conductor casing	
Hole size, inches	17 1/4
Casing size, grade, weight	13 3/8, Armco, 27.1#, SC
Setting depth, feet	175
Cement with, sacks	175
Top cement, feet	Surface
Surface casing	
Hole size, inches	11
Casing size, grade, weight	8 5/8, J55, 24#, STC
Setting depth, feet	1429
Cement with, sacks	800 CF (330 sx reg w/126 sx Diacel D, 2% CaCl ₂ , 1/2# Flocele, 2# Tuff Plug and 125 sx reg; Top job 38 sx reg w/2% CaCl ₂)
Top cement, feet	Surface
Production casing	
Hole size, inches	7 7/8
Casing size, grade, weight	5 1/2, J55, 14#
Setting depth, feet	5628
DV Tool, feet	
Cement with, sacks	550 CF (132 sx reg w/130 sx Diacel D, 496# CaCl ₂ , Est 3360 assuminmg 40% excess)
Top cement, feet	
Perforations	Mar-59 5519 - 5531 Sqz 3/59 Mar-59 5480 - 5486 Sqz Reperf 7/64 Mar-59 5466 - 5472 Sqz Reperf 7/64 Mar-59 5433 - 5457 Sqz Reperf 7/64 Sep-60 5402 - 5413 Sqz 7/64 Sep-60 5392 - 5397 Sqz 7/64 Sep-60 5375 - 5384 Sqz 7/64
IP, BOPD, BWPD	03/07/59 767 BO, 1 BW, F24
Workover history	Mar-59 CO to 5591; Perf 5519 - 5531; Test; Sqz w/42 sx; Perf 5480 - 5486, 5466 - 5472, 5433 - 5457; Acidize w/4500 gals Run tbg/pkr May-59 Put on pump Sep-60 Perf 5402 - 5413, 5392 - 5397, 5375 - 5384; Acidize w/2500 gals 15% Jul-64 Sqz all perfs; DO to 5492; Perf 5433 - 5457, 5466 - 5472, 5480 - 5486; Acidize w/2000 gals; Convert to injection Jun-69 Acidize w/4000 gals 15% May-73 Acidized w/1500 gals 15% Mar-90 CO to 5494; Set pkr at 5355; Test annulus to 1000 psi for 30 min Oct-91 Acidize w/500 gals 20% acid Sep-93 Sundry notice to SI well Oct-94 Return to injection Jul-95 MIT failure; To be repaired? Oct-97 Passed MIT Jan-00 Passed MIT Apr-02 Pull tbg/pkr; Set cmt retainer plug at 5280; Dump 2 sx sd at 5280 - 5270; Dump 2 sx cmt at 5270 - 5260; RIH w/56 jts 2 7/8 cmt lined tbg; Pump 20 bbls pkr fluid down backside; Well TA Apr-02 Passed MIT

RATHERFORD UNIT # 10-23
GREATER ANETH FIELD
 1980' FSL & 1980' FWL
 SEC 10-T41S-R24E
 SAN JUAN COUNTY, UTAH
 API 43-037-16402
 PRISM 0042972

INJECTOR
Well T&A'd 4-3-2002

Capacities: bbl/ft gal/ft cu/ft

2-7/8" 5.5#	33679	2431	.0326
6-1/2" 14#	3244	1,3248	.1373
2-7/8" 5.514#	0164	.6877	.0519



Casing Exit Procedure

A 5 1/2" TIW Big Bore permanent packer will be set on wire line at approx 5511'. RIH w/ latch tool on 2 7/8" AOH drill pipe. A gyro survey will be run to obtain the azimuth of the keyway along with the survey of the hole. A collar log should have been run also to determine proper placement of the permanent packer along with proper space out for each window to be milled.

All hands need 24 hr notice.

1. On catwalk, MU TIW latch along w/ debris sub underneath Smith 5 1/2" Track master whip stock. After the first window, each subsequent window will have additional space out equipment that will be made up beneath the whip stock. For longer space out, it would be a good idea to use a laser and punch to align whip face and get it more accurate. Every inch off on alignment means degrees off azimuth once run in the hole. **(HEADS UP!!)** Whip stocks don't move so how off the azimuth is will be a reflection of how much care is given to this part of the process.
2. Using TIW template card, orient whip stock face to desired azimuth via spline in latch as well as key on latch to keyway azimuth previously obtained. **(HEADS UP!!)** The template will be backward but it is supposed to be this way.
3. PU assembly and RIH and using collar clamp, set in rotary for makeup of 4 3/4" TCI Bi-mill and XO sub.
4. Continue RIH until 10 ft above the packer and then work out any trapped torque with up and down movement.
5. Slack off string until the latch enters the keyway of packer (might see drill pipe turn). Continue slacking off until latch locks into packer. Slack off 5-7k over and pull same to verify latch is locked into packer.
6. Shear bolt by setting 35k down to release mill from whip stock face.
7. Position Track master mill 2-3 ft above top of whip stock. Bring pumps up per milling hand, but he will begin rotation above whip stock to get clean parameters and then slowly lower BHA until it contacts whip stock.
8. Proceed with milling window and desired amount of rat hole, 2-4 feet. Work mill through window several times to insure easy access at least to mid-section of mill.
9. Circulate bottoms up and POH and inspect condition of mill and gage mill for proper wear.

Interval Hole Problems

Hazard	Mitigation
Geologic Uncertainty	Gamma ray information will be reviewed frequently to assist in conjecture for dip. Control is good but heterogeneity between wells still exists and it is likely to differ from expectation. Always stop to circulate bottoms up when
Faulting	Directional drillers know when they see faulting, even small throws; it may appear as trouble holding or obtaining a tool face, excessive drag, erratic survey, or erratic change in p-rate.
Loss Returns/ Hydrostatic Sticking	Drilling past areas of great production where little injection has taken place make it possible for both loss returns and hydrostatic sticking. Loss returns can be approached by using CaCO ₃ med/fine grain and if hydrostatic sticking occurs, spotting some acid has been successful. Magma fiber can be very helpful creating a filter cake to help w/ stopping losses.
Water/Oil Flow	Drilling past areas of great injection can increase the possibility of either crossing areas of unswept oil (banked oil) or water flood fronts. These can be fairly strong requiring mud weight s up to 14 ppg. Oil in drilling fluid should be tied up but beyond 10% vol. it should be removed off of the top of steel pits. It is a fire hazard around ignition sources!!
Hydrogen Sulfide in Formation	H ₂ S alarms and equipment include alarm sensors under the rig floor, at shaker, and on the floor. Scott air packs available for drilling crew and are located per driller's program. Warning signs upon entry to location. American Safety Inc. will provide 24hr. onsite safety personnel.
Corrosion	Both H ₂ S (CONCOR 404) and O ₂ (SV-120) scavengers will be used and pH will be kept btwn 10.5-11.0
Formation Damage	When using high weight muds, attempt to kill well on trips once bit is inside window in vertical part of hole if possible before circulating kill fluids. This will help to minimize formation damage.
Torque/ Drag	Inevitable in horz wells, XCD polymer mixed in pills can be used 15 bbls at a time for assistance sliding and should be spotted AFTER bottoms up samples are headed up the hole, before tripping off bottom. Keeping doglegs minimal and stewarding well path to care for that will help keep drag low. Rotating more than sliding will also help drag because it cleans the hole better.

BHA

Bottom hole assemblies will be similar except for motor adjustment for both the curve and lateral.

- 4 ¾" Bit
- 3 ¾" motor
- 3 ¾" UBHO
- 3 ¾" Monel Drill Collars
- XO
- 2 7/8"/10.4#/SI35/AOH

Contact List

Service	Company	Name	City	Cell Phone	Other Phone
Drilling Contractor	Patterson	Gary Miller	Farmington	505-320-4400	
Drilling Fluid	MI Swaco	Danny Beeson	field	580-445-6889	580-473-2084
		Jamie Primeaux	Denver	303-916-2517	303-623-0911
Downhole Tools (prep)	Weatherford	Shawn Miller	Farmington	505-320-4110	
Whipstocks/ Mills	Smith	Eppie Sanchez	Farmington	505-320-6916	505-327-1212
Perm Pkr	TIW	Ronnie Champagne	Youngsville, La		337-856-7271
Wireline for Pkr and Survey	Black Warrior Wireline	Jerry	Farmington		505-326-4110
Casing Inspection	Blue Jet	Danny Seip	Farmington		505-325-5584
Mudlogger	Choquette Well Logging	Andy Choquette	Farmington	505-793-5334	505-334-3954
Bit Rep	HTC	Joel Hobbs	Midland		432-498-9898
	STC	John White	Farmington	505-320-3059	
Directional Service	Pathfinder	Eppie Sanchez	Farmington	505-320-6916	505-327-1212
		Rich Arnold	Casper	307-259-2229	307-265-3145
Gyro Service	Scientific Drilling	David Cotten	Midland	432-634-8271	432-563-1339
		Mark Houston	Farmington	505-860-8174	505-325-1787
Rental Tools (drillpipe and handling, power swivel)	Knight Oil Tools	Ben Reese	Farmington	505-330-0347	505-632-6666
BOP testing	Wellcheck Testing	Leon Hanhardt	Farmington	505-402-6624	
Fluid transportation and water and frac tanks	Francis Trkng	Francis Lee	Montezuma Crk		
	Montezuma Well Service	Dan Dreyfus			
	Lansing	Tommy Lansing			435-651-3440
Location work	Lansing Construction	Tommy Lansing	Montezuma Crk		435-651-3440
Wellhead Equipment	Big Red Tool	Ken Britton	Farmington	505-330-1067	505-325-5045
Rig Anchors	Motee Inc.	Craig	Farmington	303-320-0126	303-325-1666
H ₂ S Safety	American Safety		Farmington		
Injection Packer	Knight Oil Tools	Scott Girrens	Farmington		505-632-6666
Housing	K&C Transpot		Farmington		505-334-4088
Septic, FW. Porta-pots	Tri Energy	Hal Stone	Farmington		505-325-7005
Geophysicist	Resolute Natural Resources	Sean Smith	Denver	303-902-3772	303-534-4600 ext 215
Operations Manager	Resolute Natural Resources	Bob Brady	Denver	303-570-0736	303-534-4600 ext 135
Drilling Engr	Storbeck Consulting, Inc.	Wendy Holland	Midland	432-664-1121	432-682-3874

Ratherford Unit 10-23 Reentry Surface Use Plan

1. Directions and Existing Roads

The proposed operations will be completed utilizing existing roads in the Ratherford Unit oil field. These roads consist of state and county public roads, as well as roads constructed by previous oil and gas operators as part of the Ratherford Unit lease.

2. New Roads to be Constructed or Upgraded

No new road construction is planned. Exxon Mobil, then operator of the Ratherford Unit, permanently plugged the subject well in March of 2005. However, surface reclamation of the site was not completed and the existing lease access is intact.

3. Existing Wells within 1 Mile

There are 15 active or temporarily abandoned oil and/or injection wells within a 1 mile radius of the 10-23. All of these wells are producing from or injecting into the Ismay and/or Desert Creek formations as part of Resolute's enhanced oil recovery operations in the Ratherford Unit. There are 13 permanently plugged and abandoned wells within 1 mile that penetrated the Desert Creek. There are no known water wells within 1 mile. A map of the wellsite and 1 mile radius are enclosed as Figure II.

4. Proposed Production Facilities

Surface facilities associated with the proposed project include approximately 2,000 feet of surface production flowline as shown in Figure I. Construction activity for the flowline will be restricted to a route no more than forty feet wide parallel to the access road and vehicular access will be limited to what is needed for placement and maintenance.

5. Water Supply

Water will be transported by truck from the Ratherford Unit water injection facility or from one of the fresh water source wells permitted for the Ratherford Unit.

6. Construction Materials and Methods

The proposed operations will require the current well pad to be enlarged from a 125' diameter to approximately 250' X 250'. However, the well pad will not result in additional surface disturbance beyond the location originally approved for drilling of the well. A 60' X 40' X 8' drilling pit will be necessary for the proposed operations and will be lined with a 12-mil (minimum) thickness poly liner.

7. Waste Disposal

Human waste will be disposed in chemical toilets, which will be hauled to a State approved dump station. All trash will be transported for offsite disposal at the county landfill. No trash will be buried or burned.

8. Ancillary Facilities

Ancillary facilities will be temporary, consisting of one or two trailer houses on the location for contractor personnel. Where possible, crew trailers are parked at the Aneth Unit office facility, rather than onsite.

9. Well Site Layout

A complete listing of equipment and a general site layout are enclosed as Figure III. The final rig orientation will be determined onsite based on the orientation of the original wellsite.

10. Reclamation and Vegetation

When drilling is completed, drilling pit will be closed as stipulated by federal, state and local requirements. The well site will be cleared of all debris; material and junk not needed for ongoing operation of the well. When the well no longer needed for oil and gas operations, the well will be permanently plugged and abandoned in accordance with federal, state and local requirements and the well pad will be reseeded with the appropriate seed mix, as specified by federal, state and local requirements. Noxious weeds will be controlled throughout the drilling and operational life cycle of the well.

11. Surface Owner

The proposed operations are entirely on Navajo surface. Contact information is included below.

Navajo Nation Minerals Department
P O Box 1910
Window Rock AZ 86515
(928) 871-7305

Navajo Nation Land Office, Utah Office
P.O. Box 410,
Montezuma Creek, Utah 84534

12. Other Information

The nearest hospital is located 3 blocks northwest of the intersection of US 666 and US 191 in Monticello, UT, which is approximately a 1 hour drive from the site.

The hospital phone number is (435) 587-2116.

The BLM Farmington Field Office phone number is (505) 599-8900

The BLM Monticello Field Office phone number is (435) 587-2141

13. Representation and Certification

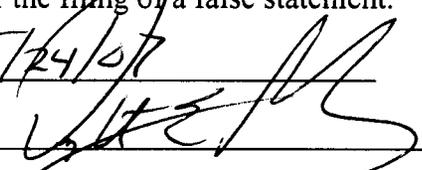
Resolute Natural Resources Company is the operator of the Ratherford Unit and is responsible under the terms and conditions of the Unit Agreement for operations on the subject leases. Bond coverage for the proposed operations will be provided via bond # PA002769 or B001252 as applicable.

Contact information for Resolute's onsite representative is as follows:

Donnie Trimble
Drilling and Workover Superintendent
23429 County Rd. G
PO Drawer G
Cortez, CO 81321
Office 970-564-5205

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Resolute Natural Resources Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date 5/24/07

Signed 

Name and Title Dwight E Mallory, Environmental, Health & Safety Coordinator



IN REPLY
REFER TO:

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

~~XXXXXXXXXXXXXXXXXXXX~~

Navajo Region

P. O. Box 1060

Gallup, New Mexico 87305-1060

Real Estate Services/Leases/Permits Section

JUL 25 2006

Certified Mail – Return Receipt Requested

Ms. Janet Pasque
Resolute Natural Resources Company
1675 Broadway, Suite 1950
Denver, CO 80202

Dear Ms. Pasque:

Enclosed for your information and record is a copy Resignation/Designation of Unit Operator for the Rutherford Unit Area, Unit Agreement No. UTU68931A 79-600-41920 which was approved on July 11, 2006.

If you have any questions, please contact Ms. Bertha Spencer, Supervisory Realty Specialist, at 928/871-5938.

Sincerely,

ACTING Regional Realty Officer

Enclosures

RESIGNATION OF UNIT OPERATOR

Ratherford Unit Area
County of San Juan
Unit Agreement No. UTU68931A 79-600-41920

Under and pursuant to the provisions of Section 5 of the Unit Agreement for the Development and Operation of the Ratherford Unit Area, San Juan County, Utah,

Mobil Exploration and Producing North America Inc. the designated Unit Operator under said Unit Agreement, does hereby resign as Unit Operator, effective upon the selection and approval of a successor Unit Operator.

EXECUTED with effect as aforesaid the 1ST day of June, 2006.

Mobil Exploration and Producing North America Inc.

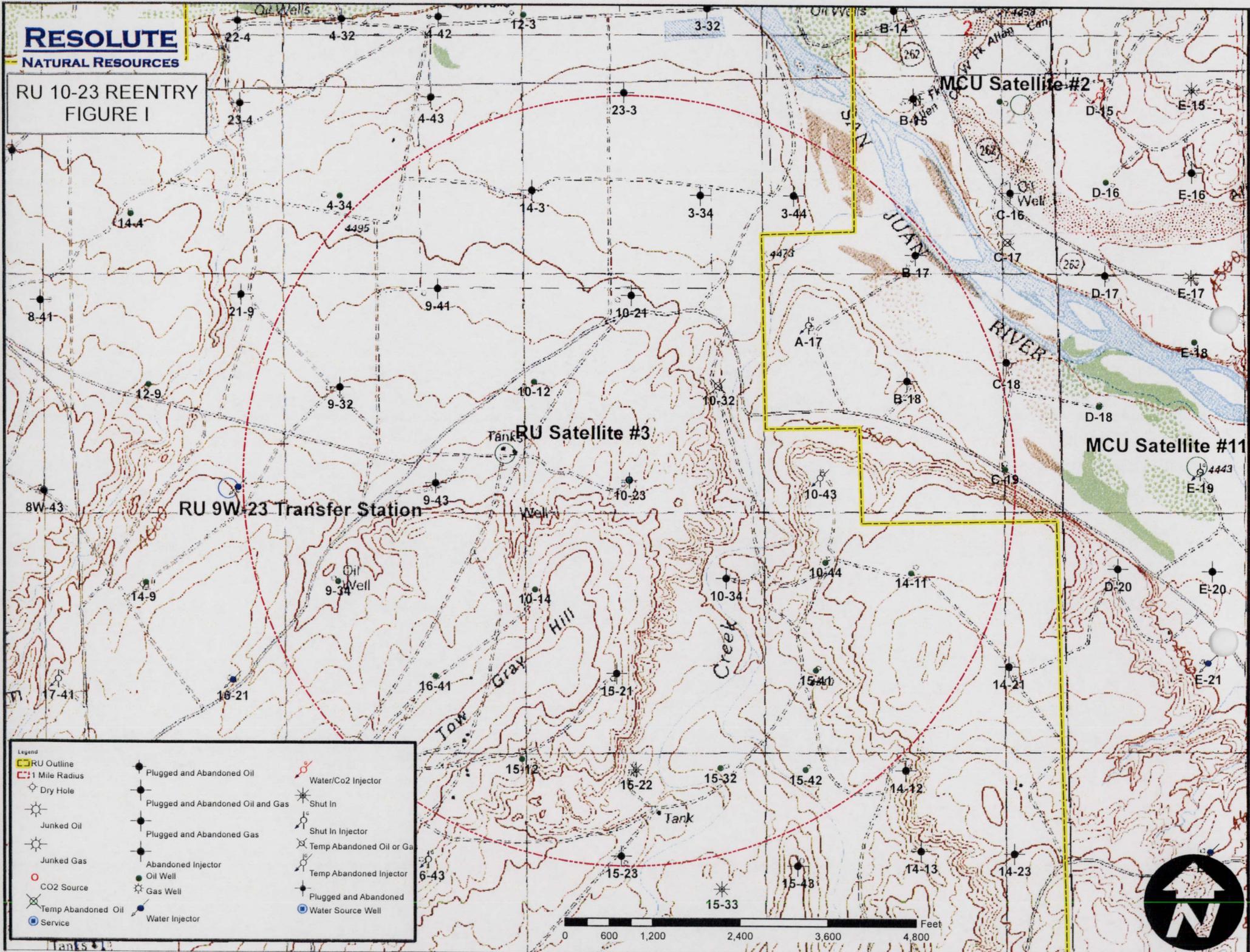
By: *Robert E. Plunkett*
Name: Hobert E. Plunkett
Title: Attorney-in-Fact *gan*
ES

DESIGNATION OF
SUCCESSOR UNIT OPERATOR
Ratherford Unit Area
County of San Juan
State of Utah

Unit Agreement No. UTU68931A 79-600-41920

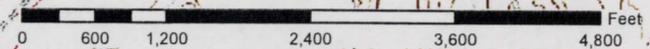
THIS INDENTURE, dated as of the 1th day of May, 2006, by and between Resolute Natural Resources Company, hereinafter designated as "First Party," and the owners of unitized working interests, hereinafter designated as "Second Parties,"

RU 10-23 REENTRY
FIGURE I

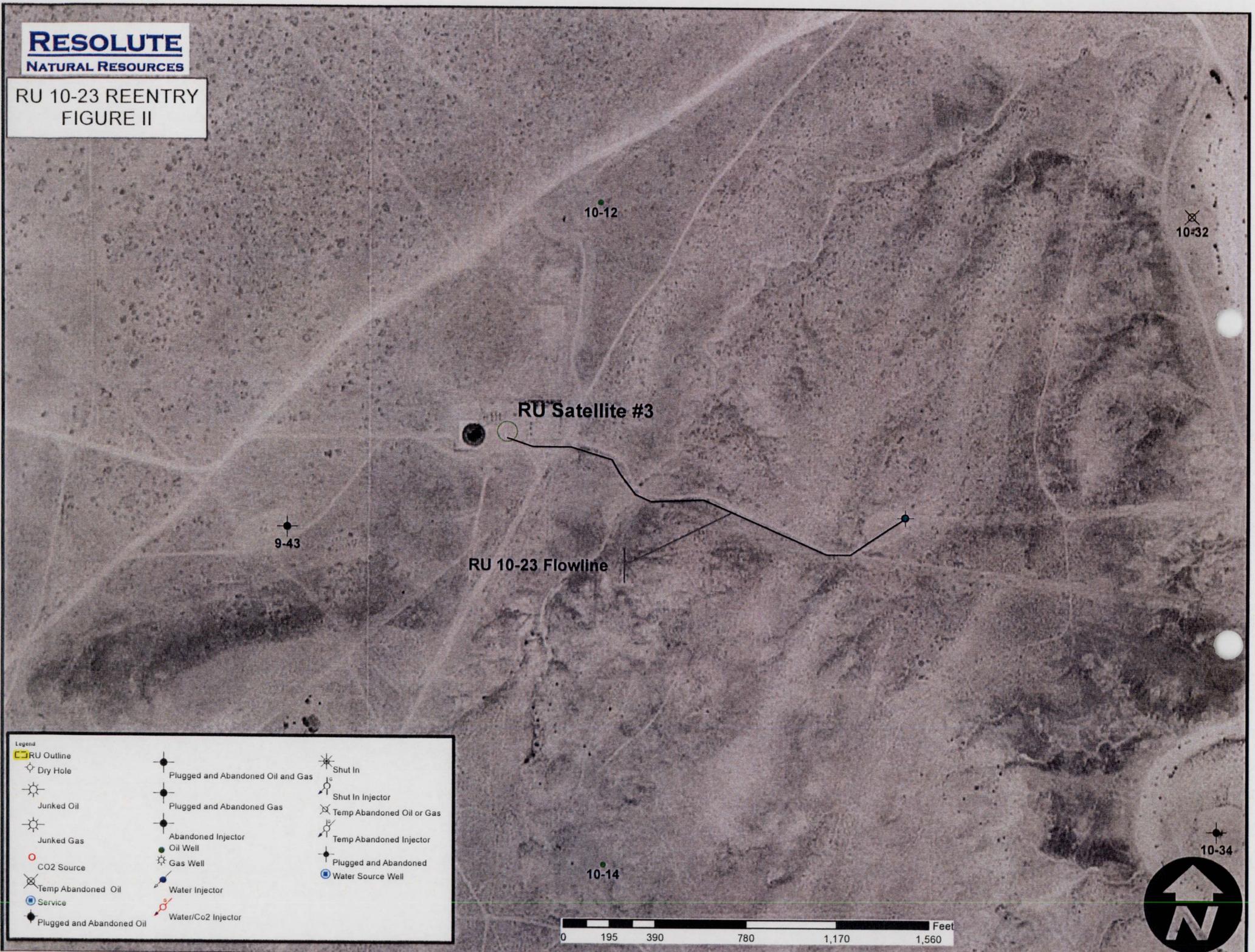


Legend

RU Outline	Plugged and Abandoned Oil	1 Mile Radius	Water/Co2 Injector
Dry Hole	Plugged and Abandoned Oil and Gas	Junked Oil	Shut In
Junked Gas	Plugged and Abandoned Gas	Abandoned Injector	Shut In Injector
CO2 Source	Oil Well	Temp Abandoned Oil or Gas	Temp Abandoned Injector
Temp Abandoned Oil	Gas Well	Plugged and Abandoned	Water Source Well
Service	Water Injector		



RU 10-23 REENTRY
FIGURE II



Legend

RU Outline	Plugged and Abandoned Oil and Gas	Shut In
Dry Hole	Plugged and Abandoned Gas	Shut In Injector
Junked Oil	Abandoned Injector	Temp Abandoned Oil or Gas
Junked Gas	Oil Well	Temp Abandoned Injector
CO2 Source	Gas Well	Plugged and Abandoned
Temp Abandoned Oil	Water Injector	Water Source Well
Service	Water/CO2 Injector	
Plugged and Abandoned Oil		

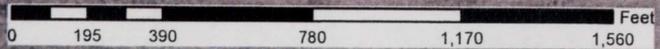
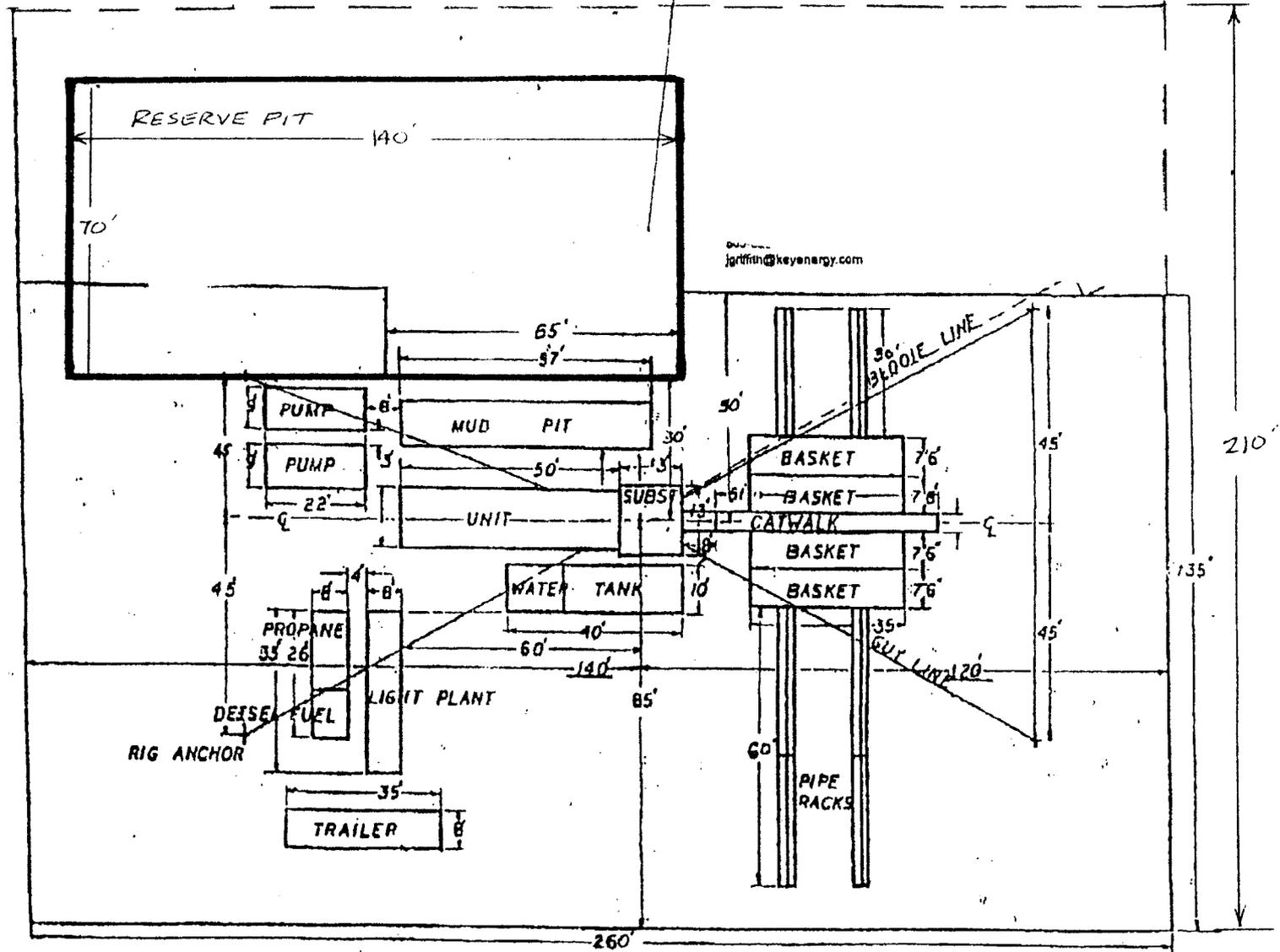


FIGURE III PATTERSON RIG 85 GENERAL LAYOUT

p.1



PATTERSON RIG 85 GENERAL LAYOUT

Patterson-UTI Drilling Company

RIG 85

Rated Depth 7200 Feet

DRAWWORKS	Cooper LTO 550 rated @ 475 hp, Parmac 22SR hydromatic brake
ENGINES	One Cat 3406 rated @ 465 hp; Allison CLT torque converter
DERRICK	Cooper 110' – rated @ 250,000# static hook capacity w/8 lines, 1" drill line
SUBSTRUCTURE	12' Floor box on box - 200,000 capacity KB – 14", Rotary Beam Clearance – 9.6'
MUD PUMPS	Pump 1: Gardner Denver PZ-8 Pump 2: Gardner Denver PZ-8
MUD SYSTEM	Four compartment 350 bbl. Single tank, agitators & complete mud mixing system, National Desander & Desilter
SHALE SHAKER	Swaco Mongoose Linear Motion
TRAVELING EQUIPMENT	McKissick 150 ton block, BJ Unimatic 150 ton hook
SWIVEL	Gardner Denver S200 rated @ 200 ton
ROTARY TABLE	Oilwell 17.5"
ELECTRICAL POWER	Two Caterpillar generators rated @ 275 KW each powered by Caterpillar 3406 diesel engine
BOP EQUIPMENT	11"-3,000# Shaffer Type LWS Double Ram Preventer 11"-3,000# Hydriil GK-10 Annular Preventer four station 60 gal. closing unit, choke & kill line manifold
DRILL STRING	4 ½" Drill Pipe 6-1/4" Drill Collars
FUEL TANK	5,000 gal. Capacity
WATER TANK	500 bbl. Capacity
MISCELLANEOUS	Mathey wireline unit; upper and lower Kelly valves; Oncor square Kelly 4-1/4"x40'; Wooley type B tongs(4-1/4" – 6-3/4" jaws); Wolley 150 ton 4-1/2" DP elevators and 150 ton DC elevators; Intersoll-Rand model HU air hoist; toolpusher bunk house

Revised 08/01/06

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 05/29/2007

API NO. ASSIGNED: 43-037-16402

WELL NAME: RU 10-23 Re-entry
 OPERATOR: RESOLUTE NATURAL (N2700)
 CONTACT: DWIGHT MALLORY

PHONE NUMBER: 303-534-4600

PROPOSED LOCATION:

NESW 10 410S 240E
 SURFACE: 1980 FSL 1980 FWL
 BOTTOM: 0569 FSL 0024 FWL
 COUNTY: SAN JUAN
 LATITUDE: 37.23665 LONGITUDE: -109.2709
 UTM SURF EASTINGS: 653383 NORTHINGS: 4122322
 FIELD NAME: GREATER ANETH (365)

See 9

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

LEASE TYPE: 2 - Indian
 LEASE NUMBER: 14-20-603-4043
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: PRDX
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

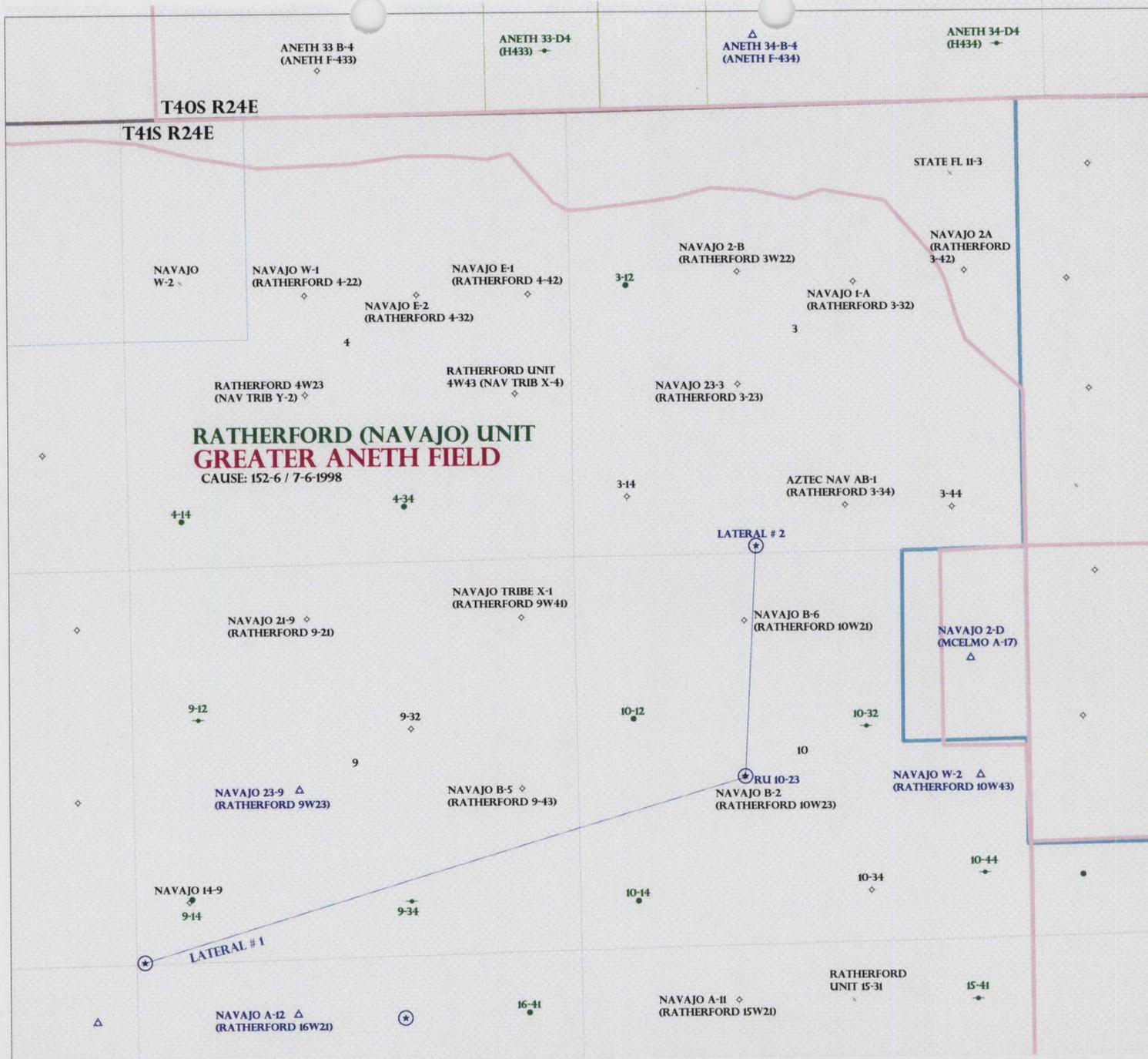
- Plat
- Bond: Fed[] Ind[2] Sta[] Fee[]
(No. PA002769)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 06-0015)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

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: Suspends General Siting
- ___ R649-3-11. Directional Drill

COMMENTS: HORIZONTAL LATERALS

STIPULATIONS: 1- Federal Approval



OPERATOR: RESOLUTE NAT RES (N2700)

SEC: 10 T.41S R. 24E

FIELD: GREATER ANETH (365)

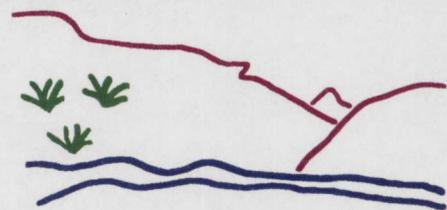
COUNTY: SAN JUAN

CAUSE: 152-6 / 7-6-1998

- Field Status**
- ABANDONED
 - ACTIVE
 - COMBINED
 - INACTIVE
 - PROPOSED
 - STORAGE
 - TERMINATED

- Unit Status**
- EXPLORATORY
 - GAS STORAGE
 - NF PP OIL
 - NF SECONDARY
 - PENDING
 - PI OIL
 - PP GAS
 - PP GEOTHERML
 - PP OIL
 - SECONDARY
 - TERMINATED

- Wells Status**
- * GAS INJECTION
 - * GAS STORAGE
 - x LOCATION ABANDONED
 - o NEW LOCATION
 - x PLUGGED & ABANDONED
 - * PRODUCING GAS
 - * PRODUCING OIL
 - * SHUT-IN GAS
 - * SHUT-IN OIL
 - x TEMP. ABANDONED
 - o TEST WELL
 - △ WATER INJECTION
 - o WATER SUPPLY
 - o WATER DISPOSAL
 - o DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON
DATE: 4-JUNE-2007



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
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

June 11, 2007

Resolute Natural Resources Company
1675 Broadway, Suite 1950
Denver, CO 80202

Re: Ratherford Unit 10-23 Well, Surface Location 1980' FSL, 1980' FWL, NE SW, Sec. 10, T. 41 South, R. 24 East, (1)Bottom Location 569' FSL, 24' FWL, SW SW, Sec. 9, T. 41 South, R. 24 East, (2)Bottom Location 50' FSL, 2093' FWL, SE SW, Sec. 3, T. 41 South, R. 24 East, San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-16402.

Sincerely,

Gil Hunt
Associate Director

er
Enclosures

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

Operator: Resolute Natural Resources Company
Well Name & Number Ratherford Unit 10-23
API Number: 43-037-16402
Lease: 14-20-603-4043

Surface Location: NE SW **Sec.** 10 **T.** 41 South **R.** 24 East
(1)Bottom Location: SW SW **Sec.** 9 **T.** 41 South **R.** 24 East
(2)Bottom Location: SE SW **Sec.** 3 **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

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

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

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

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. 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.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

October 1, 2008

JOHN R. BAZA
Division Director

Resolute Natural Resources
1675 Broadway # 1950
Denver, CO 80202

Re: APD Rescinded – RU 10-23 RE-ENTRY, Sec. 10 T. 41S, R. 24E
San Juan County, Utah API No. 43-037-16402

Gentlemen:

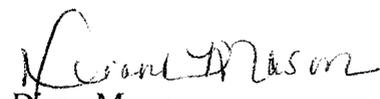
The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on June 11, 2007.

No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective October 1, 2008.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Moab

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-4043
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 7. UNIT or CA AGREEMENT NAME: RATHERFORD
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: RU 10-23
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037164020000
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202	PHONE NUMBER: 303 534-4600 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 1980 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 10 Township: 41.0S Range: 24.0E Meridian: S	9. FIELD and POOL or WILDCAT: GREATER 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 Approximate date work will start: 4/27/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<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: 100px;" type="text"/>

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

Resolute proposes to drill a single horizontal lateral from the current vertical wellbore approximately 2440' due north. The new lateral will be left open hole for injection into the DC-IA. Attachment includes procedure, well bore diagrams current and proposed, directional plan, certified plat and water wells for drilling.

Federal Approval of this Action is Necessary

Approved by the Utah Division of Oil, Gas and Mining

Surf

653354X
41223284
37.234872
-109.271195

BHL

653396X
41230804
37.241636
-109.270573

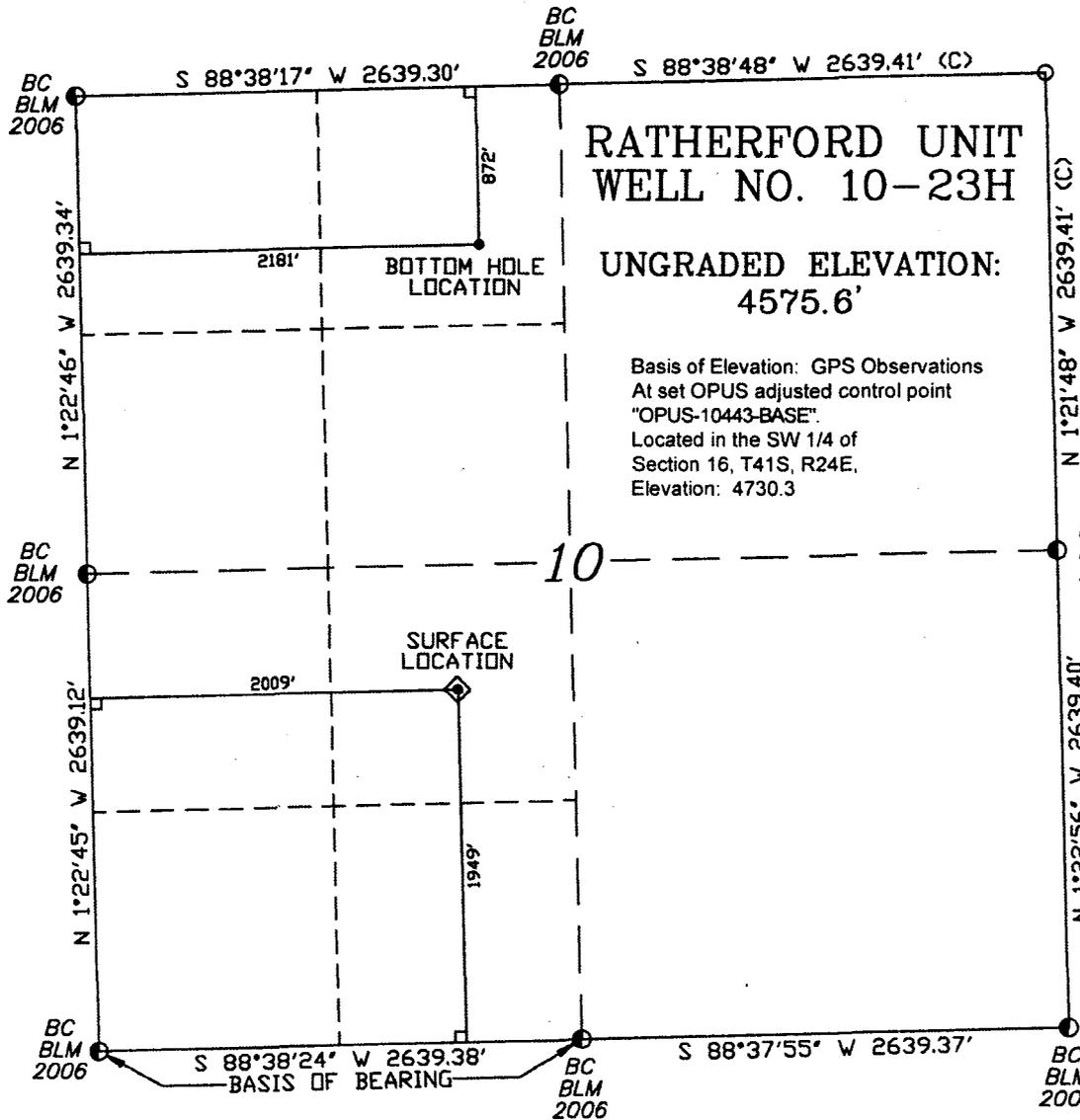
Date: 03-26-13
By: [Signature]

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 3/21/2013	

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



SCALE: 1" = 1000'



GEO. SURFACE VALUES

LATITUDE (NAD 83)
 NORTH 37.2349083°
LONGITUDE (NAD 83)
 WEST 109.2713275°
LATITUDE (NAD 27)
 NORTH 37.2349102°
LONGITUDE (NAD 27)
 WEST 109.2706575°

NORTHING
 Y = 214638.90
EASTING
 X = 2648984.52

GEO. BOTTOM HOLE VALUES

LATITUDE (NAD 83)
 NORTH 37.2416580°
LONGITUDE (NAD 83)
 WEST 109.2707371°
LATITUDE (NAD 27)
 NORTH 37.2416601°
LONGITUDE (NAD 27)
 WEST 109.2700669°

NORTHING
 Y = 217099.90
EASTING
 X = 2649097.80

DATUM
 UTAH SP SOUTH (1927)

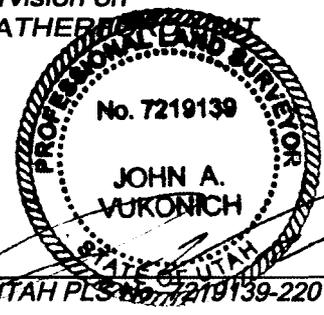
SURVEYOR'S STATEMENT:

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 27, 2013, and it correctly shows the location of RATHERFORD UNIT WELL NO. 10-23H.



LEGEND

- ◆ SURFACE WELL LOCATION
- BOTTOM HOLE LOCATION
- CALCULATED POSITION
- FOUND MONUMENT
- L DENOTES 90° TIE
- (C) CALCULATED



UTAH PLS No. 7219139-2201 DATE

EXHIBIT A

<p>UNITED FIELD SERVICES INC.</p>		<p>PLAT OF PROPOSED WELL LOCATION FOR RESOLUTE NATURAL RESOURCES COMPANY</p>
P.O. BOX 3651 FARMINGTON, N.M. (505) 334-0408	SCALE: 1" = 1000'	<p>SURFACE: 1949' F/SL & 2009' F/WL, BOTTOM HOLE: 872' F/NL & 2181' F/WL, SECTION 10, T. 41 S, R. 24 E, SALT LAKE MERIDIAN SAN JUAN COUNTY, UTAH</p>
	JOB No. 10453	
	DATE: 03/04/13	

ADDITIONAL SUPPORT INFORMATION
Sundry Notice of Intent
Ratherford Unit 10W-23H Injector
Drill Single Horizontal Lateral for DC-1A Reserves

1. Formation Tops

Existing Formation Tops (MD):

Upper Ismay:	5270'
Lower Ismay:	5342'
Gothic Shale:	5416'
Desert Creek IA	5430'
Desert Creek IB	5452'

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 produced water fluid, 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 10W-23H
1949' FSL & 2009' FWL
Sec 10, T41S, R24E
San Juan County, Utah
API 43-037-16402

Job Scope – Drill a single horizontal lateral from the current vertical wellbore approximately 2440' due north. The new lateral will be left open hole for injection into the DC-IA.

Procedure: (Sundry Notice of Intent)

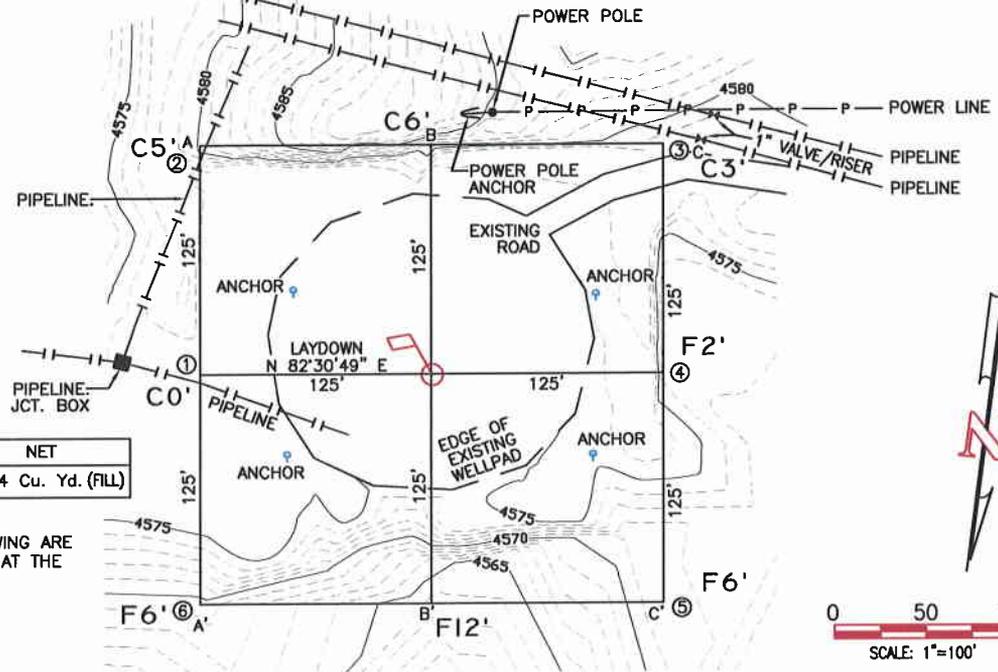
1. MIRU Well Service Unit.
2. NU & test BOP.
3. Pull & LD RBP from 215'.
4. Make cleanout trip to 5280' PBD with bit & scraper.
5. Run Casing Inspection and Cement Bond Logs from PBD to surface.
6. Set CIBP for KOP at ~5200'. (Exact depth to be determined from csg inspection and CBL logs.)
7. RIH & set whipstock on CIBP & orient same due north.
8. Mill 6' window in 5-1/2" casing for 5200' KOP.
9. Drill the curve & 2440' x 4-3/4" lateral to the North, azimuth zero degrees.
10. Acid stimulate the lateral & flow back the acid load volume.
11. Run injection packer & tubing.
12. ND BOPE, NU Wellhead & flow line.

Sundry Number: 35790 API Well Number: 43037164020000

13. RDMO Drilling rig.

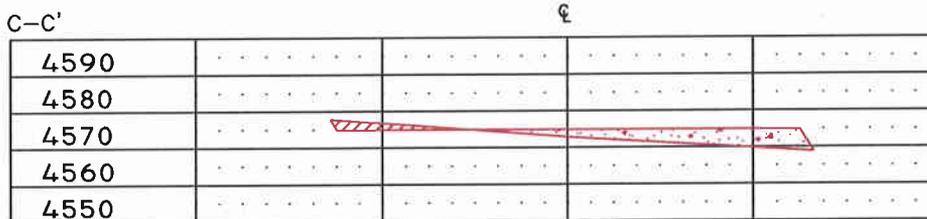
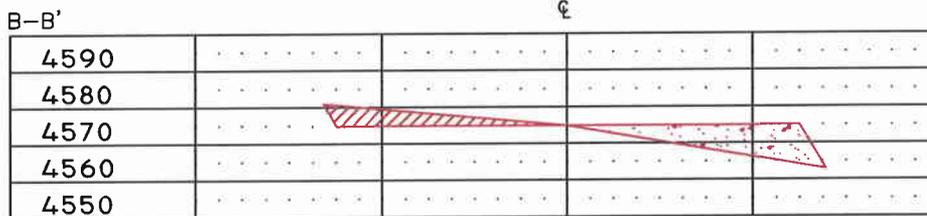
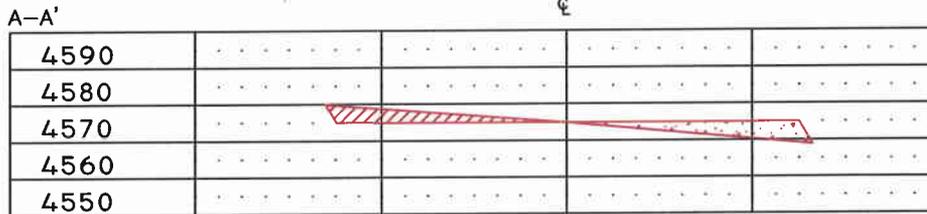
RECEIVED: Mar. 21, 2013

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



CUT	FILL	NET
1759 Cu. Yd.	4133 Cu. Yd.	2374 Cu. Yd. (FILL)

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



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

EXHIBIT IA

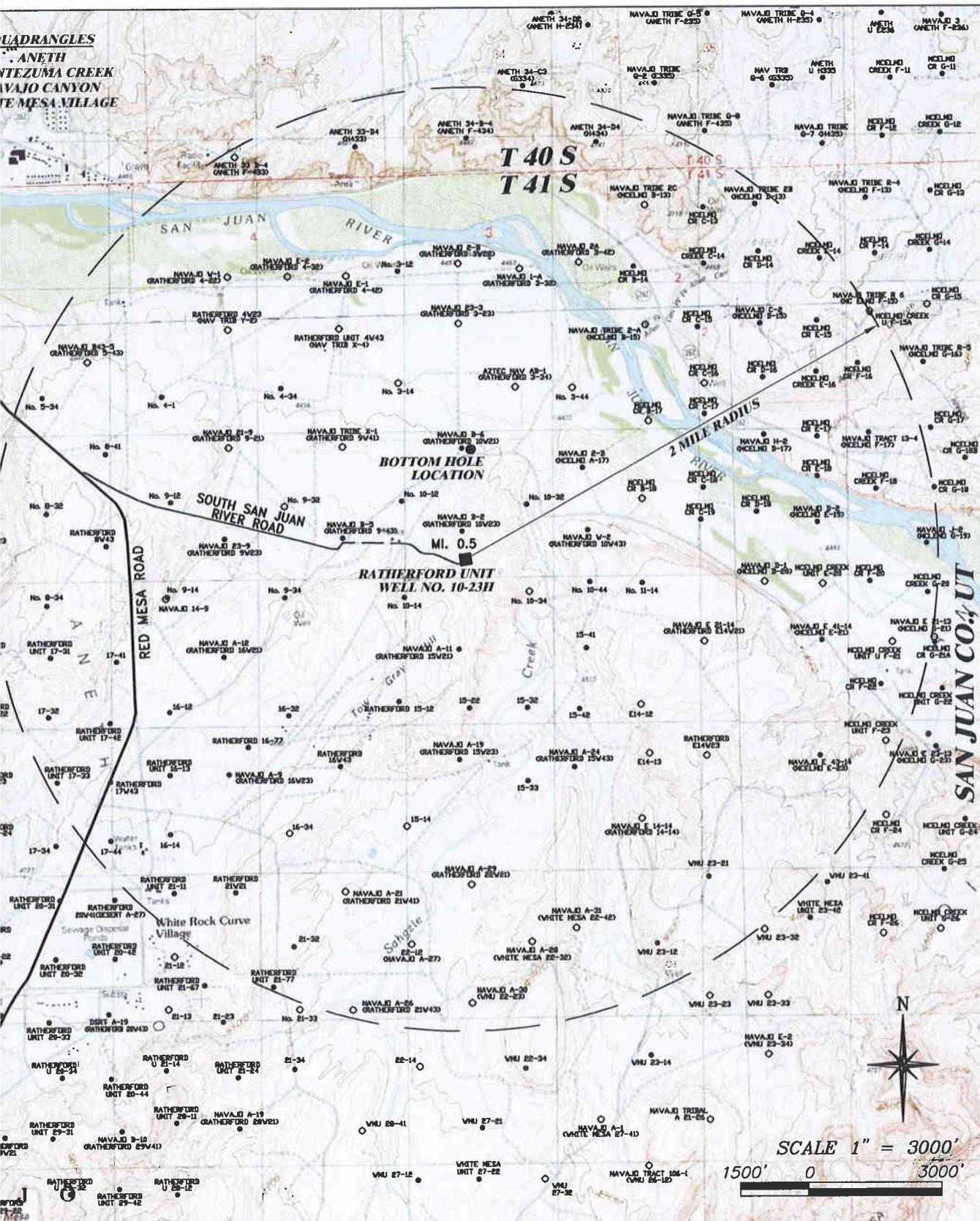
RESOLUTE
NATURAL RESOURCES

LEASE: RATHERFORD UNIT WELL NO. 10-23H
 1949' FSL, 2009' FWL (SURFACE)
 FOOTAGES: 872' FNL, 2181' FWL (BOTTOM HOLE)
 SEC. 10 TWN. 41 S RNG. 24 E S.L.M.
 LATITUDE: N 37.2349083° LONGITUDE: W 109.2713275°
 ELEVATION: 4575

SURVEYED: 02/27/13	REV. DATE:	APP. BY J.A.V.
DRAWN BY: H.S.	DATE DRAWN: 03/04/13	FILE NAME: 10453C01

UNITED
FIELD SERVICES INC.

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



**PROPOSED WELL LOCATION FOR
RESOLUTE NATURAL RESOURCES
RATHERFORD UNIT WELL NO. 10-23H**

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

SCALE: 1" = 3000'
JOB No. 10453
DATE: 03/04/13

EXISTING ROAD
ACCESS/EGRESS

EXHIBIT
2A

Sundry Number: 35790 API Well Number: 43037164020000

Resolute

Site: Rutherford Unit
 Well: Rutherford Unit 10-23H
 Wellbore: Wellbore #1
 Design: Design #1

Reference Details - WELL CENTRE

Geodetic System: US State Plane 1927 (Exact solution)
 Ellipsoid: Clarke 1866
 Zone: Utah South 4303
 Northing: 214660.37
 Easting: 2649100.94
 Latitude: 37° 14' 5.8559 N
 Longitude: 109° 16' 13.0440 W
 Grid Convergence: 1.37° West
 Ground Elevation: 4576.00
 KB Elevation: WELL @ 4587.00ft (Original Well Elev)

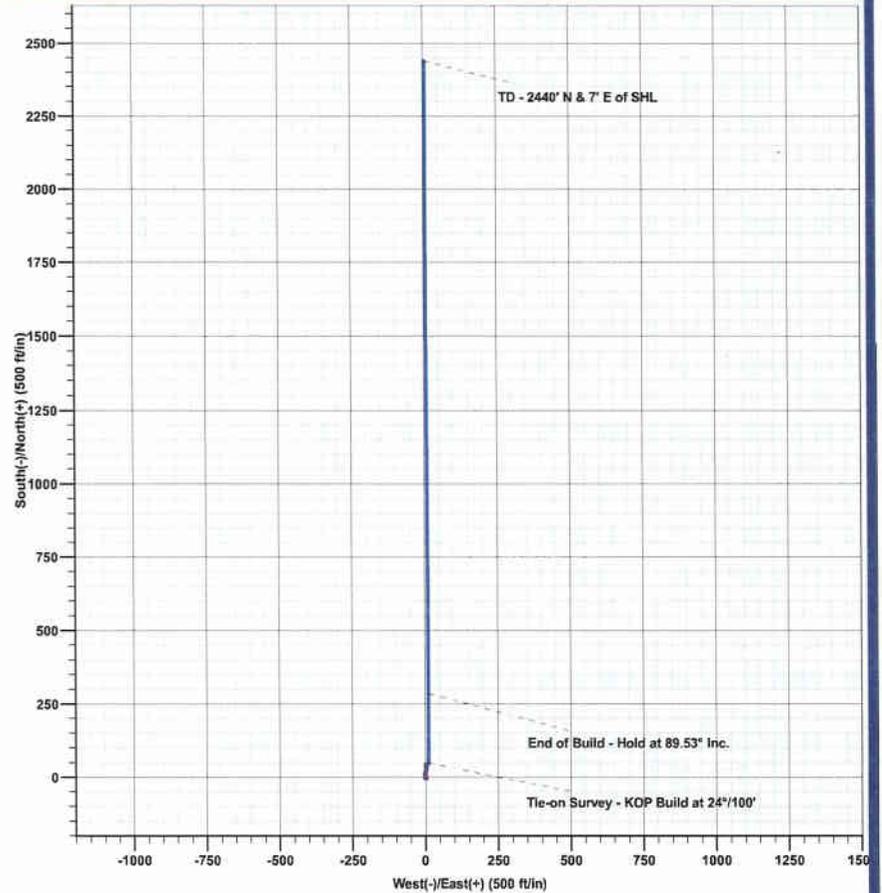
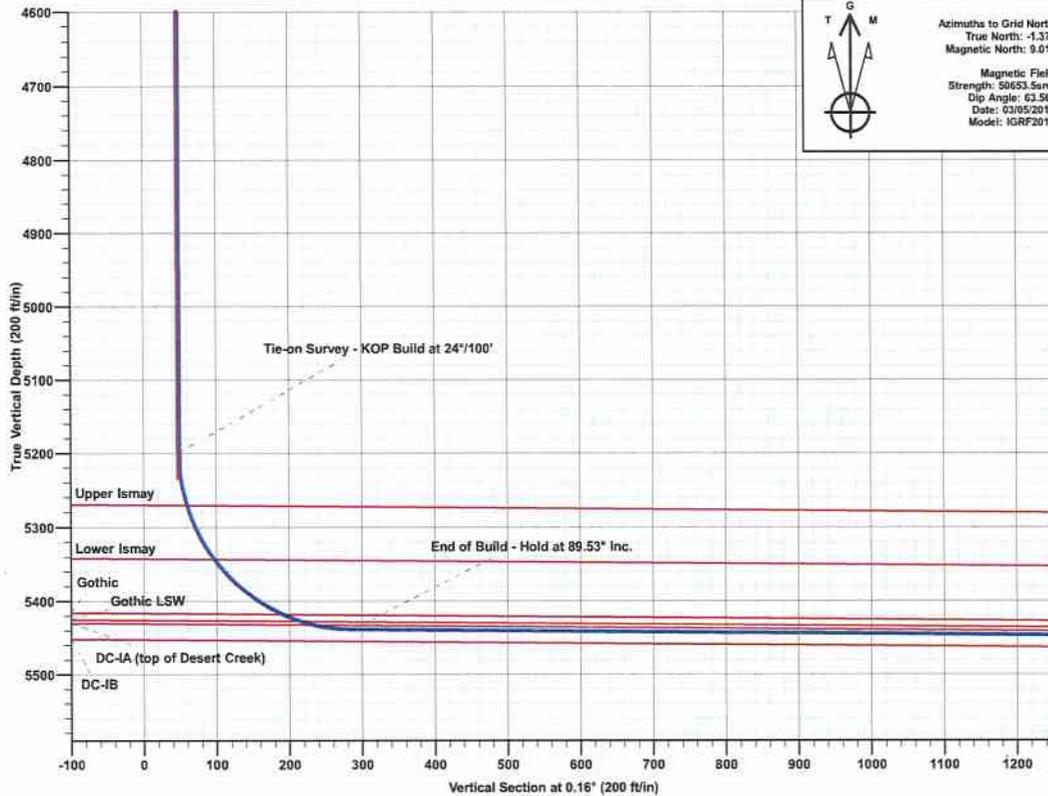


ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
5199.46	5200.00	0.43	80.82	48.87	11.70	46.90	0.00	Tie-on Survey - KOP Build at 24°/100'
5438.33	5573.44	89.53	353.64	286.08	12.79	285.11	235.15	End of Build - Hold at 89.53° Inc.
5456.00	7727.84	89.53	359.84	2440.40	6.78	2440.41	2392.49	TD - 2440' N & 7' E of SHL



Azimuths to Grid North
 True North: -1.37°
 Magnetic North: 9.01°
 Magnetic Field
 Strength: 50653.5nT
 Dip Angle: 63.56°
 Date: 03/05/2013
 Model: IGRF2010



RECEIVED: Mar. 21, 2013

Resolute

Resolute Natural Resources

**San Juan Co., UT
Ratherford Unit
Ratherford Unit 10-23H**

Wellbore #1

Plan: Design #1

Standard Planning Report

05 March, 2013



Resolute

Planning Report



Database: EDM 5000.1 Single User Db
 Company: Resolute Natural Resources
 Project: San Juan Co., UT
 Site: Rutherford Unit
 Well: Rutherford Unit 10-23H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Rutherford Unit 10-23H
 TVD Reference: WELL @ 4587.00ft (Original Well Elev)
 MD Reference: WELL @ 4587.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project	San Juan Co., UT		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah South 4303		

Site	Rutherford Unit				
Site Position:		Northing:	214,660.38 ft	Latitude:	37° 14' 5.8560 N
From:	Lat/Long	Easting:	2,649,100.94 ft	Longitude:	109° 16' 13.0440 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16"	Grid Convergence:	1.37°

Well	Rutherford Unit 10-23H					
Well Position	+N/-S	0.00 ft	Northing:	214,660.38 ft	Latitude:	37° 14' 5.8559 N
	+E/-W	0.00 ft	Easting:	2,649,100.94 ft	Longitude:	109° 16' 13.0440 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,576.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/05/13	10.37	63.56	50,653

Design	Design #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	5,200.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	0.16	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
5,200.00	0.43	80.82	5,199.46	48.87	11.70	0.00	0.00	0.00	0.00	
5,573.44	89.53	359.84	5,438.33	286.08	12.79	23.96	23.86	-21.69	-80.98	
7,727.84	89.53	359.84	5,456.00	2,440.40	6.78	0.00	0.00	0.00	0.00	10-23H BHL

Resolute

Planning Report



Database: EDM 5000.1 Single User Db
Company: Resolute Natural Resources
Project: San Juan Co., UT
Site: Rutherford Unit
Well: Rutherford Unit 10-23H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Rutherford Unit 10-23H
TVD Reference: WELL @ 4587.00ft (Original Well Elev)
MD Reference: WELL @ 4587.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.00	0.43	80.82	5,199.46	48.87	11.70	48.90	0.00	0.00	0.00
Tie-on Survey - KOP Build at 24°/100'									
5,200.02	0.43	80.82	5,199.48	48.87	11.70	48.90	0.00	0.00	0.00
5,272.13	17.35	1.20	5,270.49	59.75	12.20	59.79	23.96	23.47	-110.41
Upper Ismay									
5,300.02	24.03	0.79	5,296.56	69.60	12.36	69.63	23.94	23.93	-1.46
5,353.77	36.91	0.40	5,342.79	96.80	12.63	96.83	23.97	23.96	-0.72
Lower Ismay									
5,400.02	47.98	0.22	5,376.87	127.96	12.79	128.00	23.95	23.94	-0.40
5,474.98	65.94	0.03	5,417.56	190.54	12.91	190.58	23.96	23.96	-0.26
Gothic									
5,500.02	71.94	359.98	5,426.56	213.90	12.91	213.94	23.94	23.94	-0.20
5,500.68	72.10	359.97	5,426.76	214.53	12.91	214.56	24.71	24.71	-0.20
Gothic LSW									
5,519.83	76.69	359.94	5,431.91	232.97	12.90	233.00	23.96	23.96	-0.19
DC-IA (top of Desert Creek)									
5,573.44	89.53	359.84	5,438.33	286.08	12.79	286.11	23.96	23.96	-0.18
End of Build - Hold at 89.53° Inc.									
5,600.02	89.53	359.84	5,438.55	312.66	12.72	312.69	0.00	0.00	0.00
5,700.02	89.53	359.84	5,439.37	412.66	12.44	412.69	0.00	0.00	0.00
5,800.02	89.53	359.84	5,440.19	512.65	12.16	512.69	0.00	0.00	0.00
5,900.02	89.53	359.84	5,441.01	612.65	11.88	612.68	0.00	0.00	0.00
6,000.02	89.53	359.84	5,441.83	712.65	11.60	712.68	0.00	0.00	0.00
6,100.02	89.53	359.84	5,442.65	812.64	11.32	812.67	0.00	0.00	0.00
6,200.02	89.53	359.84	5,443.47	912.64	11.04	912.67	0.00	0.00	0.00
6,300.02	89.53	359.84	5,444.29	1,012.64	10.77	1,012.66	0.00	0.00	0.00
6,400.02	89.53	359.84	5,445.11	1,112.63	10.49	1,112.66	0.00	0.00	0.00
6,500.02	89.53	359.84	5,445.93	1,212.63	10.21	1,212.65	0.00	0.00	0.00
6,600.02	89.53	359.84	5,446.75	1,312.63	9.93	1,312.65	0.00	0.00	0.00
6,700.03	89.53	359.84	5,447.57	1,412.62	9.65	1,412.64	0.00	0.00	0.00
6,800.03	89.53	359.84	5,448.39	1,512.62	9.37	1,512.64	0.00	0.00	0.00
6,900.03	89.53	359.84	5,449.21	1,612.62	9.09	1,612.64	0.00	0.00	0.00
7,000.03	89.53	359.84	5,450.03	1,712.61	8.81	1,712.63	0.00	0.00	0.00
7,100.03	89.53	359.84	5,450.85	1,812.61	8.53	1,812.63	0.00	0.00	0.00
7,200.03	89.53	359.84	5,451.67	1,912.61	8.25	1,912.62	0.00	0.00	0.00
7,300.03	89.53	359.84	5,452.49	2,012.60	7.97	2,012.62	0.00	0.00	0.00
7,400.03	89.53	359.84	5,453.31	2,112.60	7.69	2,112.61	0.00	0.00	0.00
7,500.03	89.53	359.84	5,454.13	2,212.60	7.41	2,212.61	0.00	0.00	0.00
7,600.03	89.53	359.84	5,454.95	2,312.59	7.13	2,312.60	0.00	0.00	0.00
7,700.03	89.53	359.84	5,455.77	2,412.59	6.86	2,412.60	0.00	0.00	0.00
7,727.84	89.53	359.84	5,456.00	2,440.40	6.78	2,440.41	0.00	0.00	0.00

TD - 2440' N & 7' E of SHL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
10-23H BHL	0.00	0.00	5,456.00	2,440.40	6.77	217,100.78	2,649,107.71	37° 14' 29.9763 N	109° 16' 12.2408 W
- hit/miss target									
- Shape									
- plan misses target center by 0.01ft at 7727.84ft MD (5456.00 TVD, 2440.40 N, 6.78 E)									
- Point									

Resolute

Planning Report



Database: EDM 5000.1 Single User Db
Company: Resolute Natural Resources
Project: San Juan Co., UT
Site: Ratherford Unit
Well: Ratherford Unit 10-23H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Ratherford Unit 10-23H
TVD Reference: WELL @ 4587.00ft (Original Well Elev)
MD Reference: WELL @ 4587.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
	5,628.00	Liner Casing	5-1/2	6-1/2	
175.00	175.00	Surface Casing	13-3/8	14-3/4	
1,429.08	1,429.00	Interm. Casing	8-5/8	10-5/8	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,426.14	1,426.05	Chinle		0.47	359.84	
2,547.37	2,547.17	De Chelley		0.47	359.84	
3,699.88	3,699.37	Organ Rock		0.47	359.84	
5,272.13	5,270.49	Upper Ismay		0.47	359.84	
5,353.77	5,342.79	Lower Ismay		0.47	359.84	
5,474.98	5,417.56	Gothic		0.47	359.84	
5,500.68	5,426.76	Gothic LSW		0.47	359.84	
5,519.83	5,431.91	DC-IA (top of Desert Creek)		0.47	359.84	

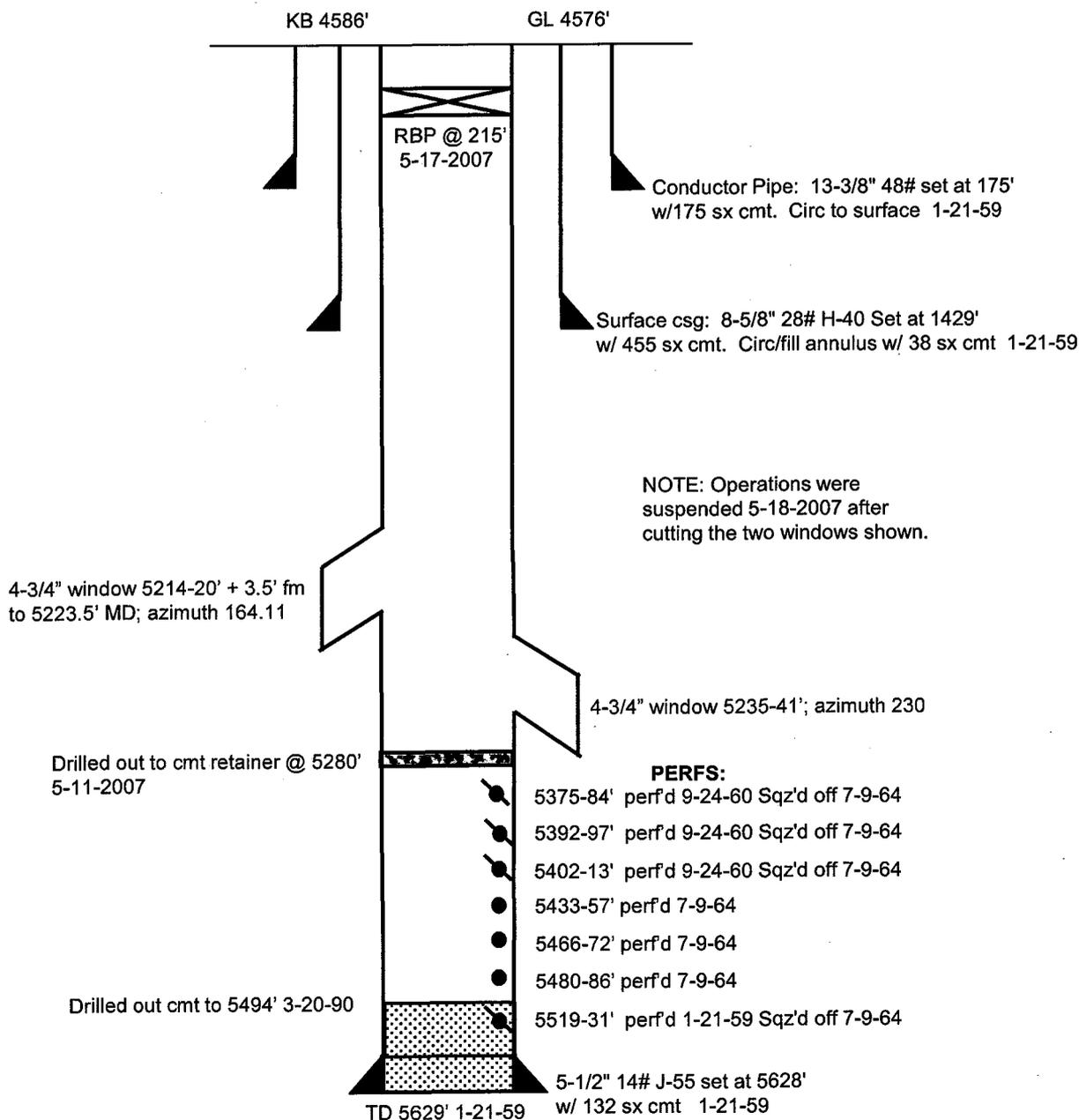
Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
5,200.00	5,199.46	48.87	11.70	Tie-on Survey - KOP Build at 24°/100'	
5,573.44	5,438.33	286.08	12.79	End of Build - Hold at 89.53° Inc.	
7,727.84	5,456.00	2,440.40	6.78	TD - 2440' N & 7' E of SHL	

RATHERFORD UNIT # 10W-23

INJECTOR

GREATER ANETH FIELD
1949' FSL & 2009' FWL
SEC 10-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-16402
PRISM 0042972

Attachment 1: Existing Wellbore



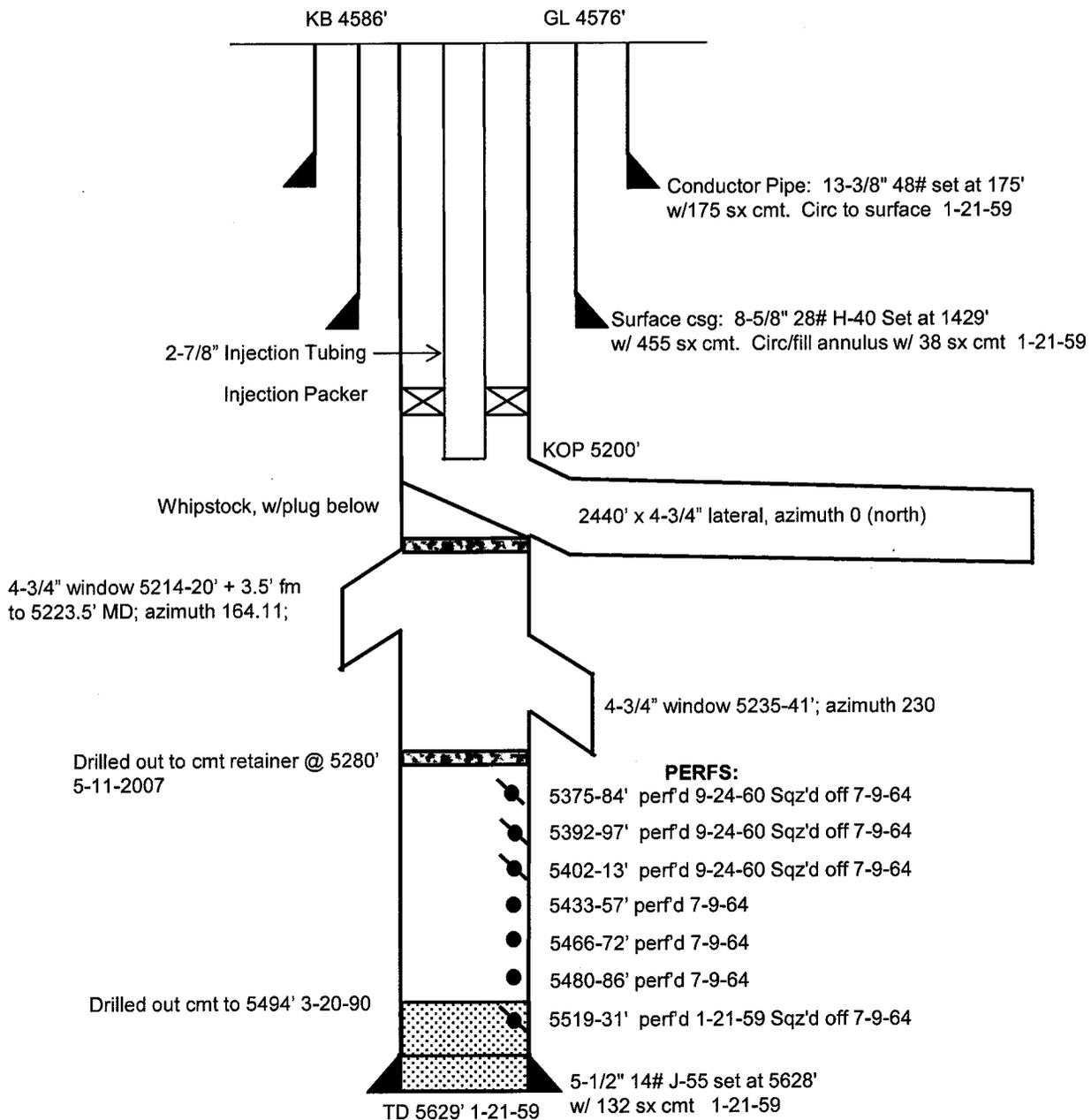
NOTE: Operations were suspended 5-18-2007 after cutting the two windows shown.

RATHERFORD UNIT # 10W-23

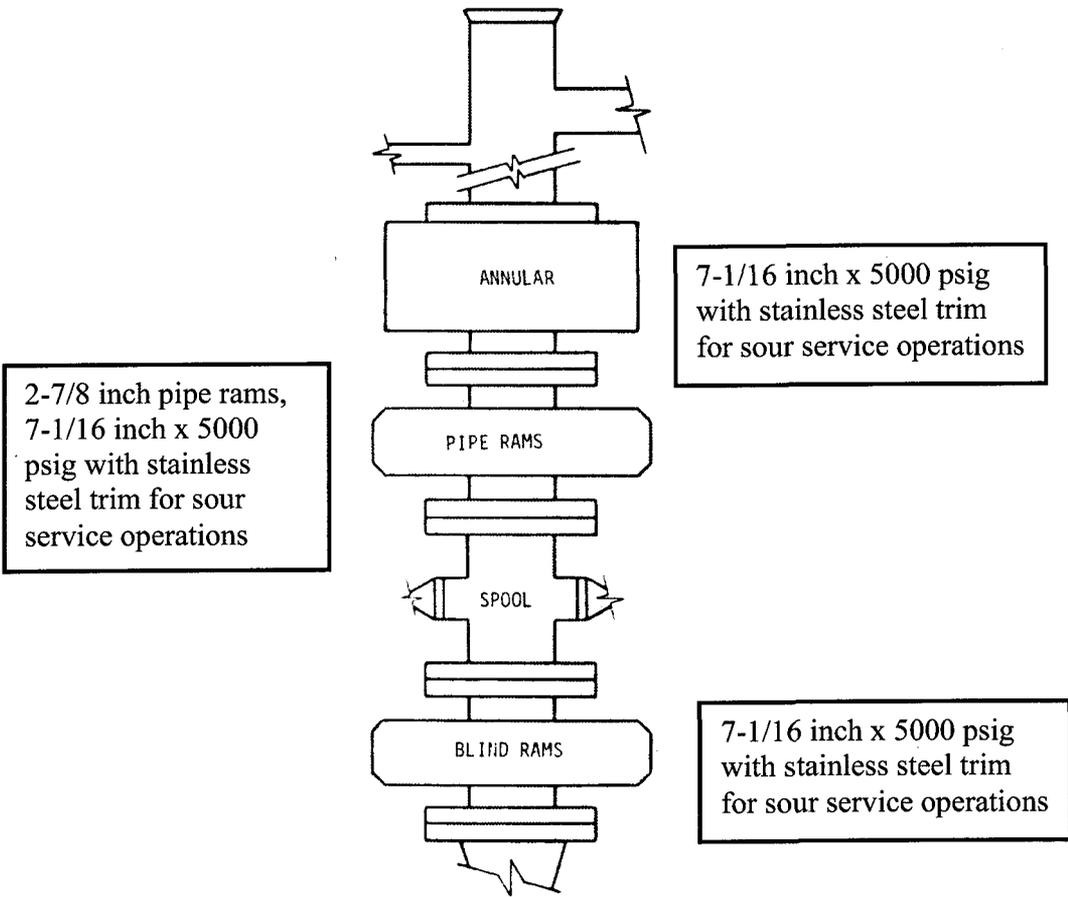
INJECTOR

GREATER ANETH FIELD
 1949' FSL & 2009' FWL
 SEC 10-T41S-R24E
 SAN JUAN COUNTY, UTAH
 API 43-037-16402
 PRISM 0042972

**Attachment 2:
 Proposed Wellbore**



Attachment No. 3



TYPICAL WORKOVER BOP STACK

Figure 30



McLure and Humber Water Well

Well No	CWP No	WUP # 1986	WUP # 1987	Sec. Twp-Rg	GPS Coordinates	East (1986)	North (1986)	Appl #	Completed	Comments
McLure										
1	PIT	85-626	87-223	18-41S-25E		658990	4121100			Abandoned
2	12-0715	85-630	87-201	17-41S-25E	37° 13 226' N 109° 12 247' N	659410	4120950	29718 A3777	9/14/61	
3	12-0716	85-631	87-202	17-41S-25E	37° 13 196' N 019° 12 187' N	659560	4120480	29718 A3777	10/3/61	
4	12-0717	85-632	87-203	17-41S-25E	37° 13 166' N 019° 12 147' N	659580	4120570	29718 A3777	10/17/61	
5	12-0718	85-633	87-204	17-41S-25E	37° 13 132' N 019° 12 098' N	659630	4120480	29718 A3777	10/19/61	
6	12-0719	85-634	87-205	17-41S-25E	37° 13 098' N 019° 12 058' N	659690	4120690	31023 A 3777	4/26/62	
7	12-0720	85-612	87-206	17-41S-25E	37° 13 055' N 019° 12 032' N	659725	4120325	31023 A 3777	4/30/62	
8	12-0721	85-613	87-207	17-41S-25E	37° 13 023' N 019° 12 006' N	659800	4120265	31023 A 3777	5/4/62	
9	12-0722	85-614	87-208	17-41S-25E	37° 13 010' N 109° 11 832' N	659880	4120230	31023 A 3777	5/8/62	
10	12-0723	85-615	87-209	17-41S-25E	37° 12 996' N 109° 11 806' N	659960	4120270	31023 A 3777	5/12/62	
11	12-0724	85-616	87-210	17-41S-25E	37° 12 963' N 109° 11 809' N	660060	4120210	29718 31023	11/28/62	
12	12-0725	85-617	87-211	17-41S-25E	37° 13 026' N 109° 11 768' N	660125	4120270	29718 A 3777	12/5/62	Not in Service, no pump
13	12-0726	85-618	87-212	18-41S-25E	37° 13 432' N 109° 12 415' N	659145	4121010	29718 31023	12/9/62	
14	12-0727	85-619	87-213	18-41S-25E	37° 13 436' N 109° 12 473' N	659045	4121010	A-31023	12/12/62	
15	12-0728	85-620	87-214	17-41S-25E	37° 13 404' N 109° 12 365' N	659230	4120950	A-31023	12/26/62	
16	12-0729	85-621	87-215	17-41S-25E	37° 13 361' N 109° 12 341' N	659265	4120870	A-31023	1/6/63	
17	12-0730	85-622	87-216	17-41S-25E	37° 13 312' N 109° 12 329' N	659285	4120785	A-31023	1/12/63	
18	12-0731	85-623	87-217	17-41S-25E	37° 13 027' N 109° 12 894' N	659640	4120270	29718 A3777	4/5/63	
19	12-0732	85-624	87-218	17-41S-25E	37° 13 002' N 109° 12 900' N	659625	4120230	29718 A3777	4/10/63	
20	12-0733	85-625	87-219	17-41S-25E	37° 13 062' N 109° 12 994' N	659780	4120335	29718 A3777	4/17/63	
21	12-0734	85-626	87-220	17-41S-25E	37° 13 013' N 109° 12 905' N	659835	4120240	29718	4/19/63	
22	12-0735	85-627	87-221	17-41S-25E	37° 13 030' N 109° 12 016' N	659750	4120278	A3777 29718	4/22/63	Community
O-24	12-0736	85-628	87-222	17-41S-25E	37° 13 476' N 109° 12 504' N	659815	4120300		3/14/64	former oil well MCU O-24, 13-3/8" surf. 8-5/8" prod. csgs 1200' deep, out of service since 1975, needs P&A

Sundry Number: 35790 API Well Number: 43037164020000

Produced and Abandoned Water Wells

Well No.	OWF No.	WUP # 1966	WUP # 1967	Sec-Twp-Rq	GPS Coordinates	East (1966)	North (1966)	Appl #	Completed	Comments
Rutherford										
1	09-0614	95-496	97-224	5-41S-24E	37° 15.333' N 109° 17.603' W	650740	4124380	32-773	11/21/61	
2	09-0615	95-497	97-225	5-41S-24E	37° 15.330' N 109° 17.665' W	650730	4124380	32-773	11/22/61	
3	09-0616	95-496	97-226	5-41S-24E	37° 15.332' N 109° 17.928' W	650380	4124380	32-753	12/2/61	
4	09-0617	95-499	97-227	5-41S-24E	37° 15.331' N 109° 17.900' W	650470	4124380	32-753	12/3/61	
5	09-0618	95-500	97-228	5-41S-24E	37° 15.335' N 109° 17.835' W	650650	4124380	32-733	12/11/62	
6	09-0618	95-501	97-229	5-41S-24E	37° 15.349' N 109° 17.776' W	650640	4124380	32-733	12/28/62	
7	09-0620	95-502	97-230	5-41S-24E	37° 15.353' N 109° 17.750' W	650660	4124380	32-733	12/15/62	
8	09-0621	95-503	97-231	5-41S-24E	37° 15.355' N 109° 17.720' W	651040	4124380	32-733	12/21/62	
9	09-0622	95-502	97-232	5-41S-24E	37° 15.360' N 109° 17.689' W	651120	4124400	32-732	12/27/62	
10	09-0623	95-504	97-233	5-41S-24E	37° 15.364' N 109° 17.659' W	651205	4124425	32-733	1/2/63	
11	09-0624	95-505	97-234	5-41S-24E	37° 15.365' N 109° 17.627' W	651290	4124430	32-733	1/5/63	
13	09-0625	95-506	97-235	5-41S-24E	37° 15.364' N 109° 17.545' W	651470	4124430	32-733	1/5/63	
14	09-0626	95-507	97-236	5-41S-24E	37° 15.367' N 109° 17.500' W	651560	4124430	32-733	1/16/63	
15	09-0627	95-508	97-237	5-41S-24E	37° 15.368' N 109° 17.464' W	651640	4124430	32-733	2/3/63	
16	09-0628	95-509	97-238	5-41S-24E	37° 15.373' N 109° 17.421' W	651760	4124460	32-733	2/4/63	
17	09-0629	95-510	97-239	5-41S-24E	37° 15.374' N 109° 17.381' W	651840	4124460	32-733	2/6/63	
14-33	09-0642	95-511	97-240	5-41S-24E	37° 15.389' N 109° 17.360' W	645850	4119050			Water well abandoned 09-01-1998. Cap & Capped

Summary		35	operated wells							
		2	not prod	95-528	95-517					
		2	aband	95-529	95-511					
		1	NTU	95-527						
		40	Total Wells in listed in RCMA-55-06.							
			WUP 06-496 to 95-628 & 95-202							

Additional Unlisted Wells at Rutherford			Sec-Twp-Rq	GPS Coordinates			Appl #	Completed	Comments
19			5-41S-24E	37° 15.217' N 109° 16.769' W			32-773	4/22/64	In service
20			5-41S-24E	37° 15.220' N 109° 16.689' W			32-773	4/14/64	In Service
22			5-41S-24E	37° 15.219' N 109° 16.632' W			32-773		Operable, but has power problems
23			5-41S-24E	37° 15.228' N 109° 17.014' W			32-773	4/20/64	Operable, but has power problems
		4	Additional unlisted wells						

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/21/2013

API NO. ASSIGNED: 43-037-16402

WELL NAME: RU 10-23
 OPERATOR: RESOLUTE NATURAL (N2700)
 CONTACT: SHERRY GLASS

PHONE NUMBER: 303-573-4886

PROPOSED LOCATION:

NESW 10 410S 240E
 SURFACE: 1949 FSL 2009 FWL
 BOTTOM: 0872 FNL 2181 FWL
 COUNTY: SAN JUAN
 LATITUDE: 37.23487 LONGITUDE: -109.27120
 UTM SURF EASTINGS: 653354 NORTHINGS: 4122328
 FIELD NAME: GREATER ANETH (365)

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

LEASE TYPE: 2 - Indian
 LEASE NUMBER: 14-20-603-4043
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: DSCR
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

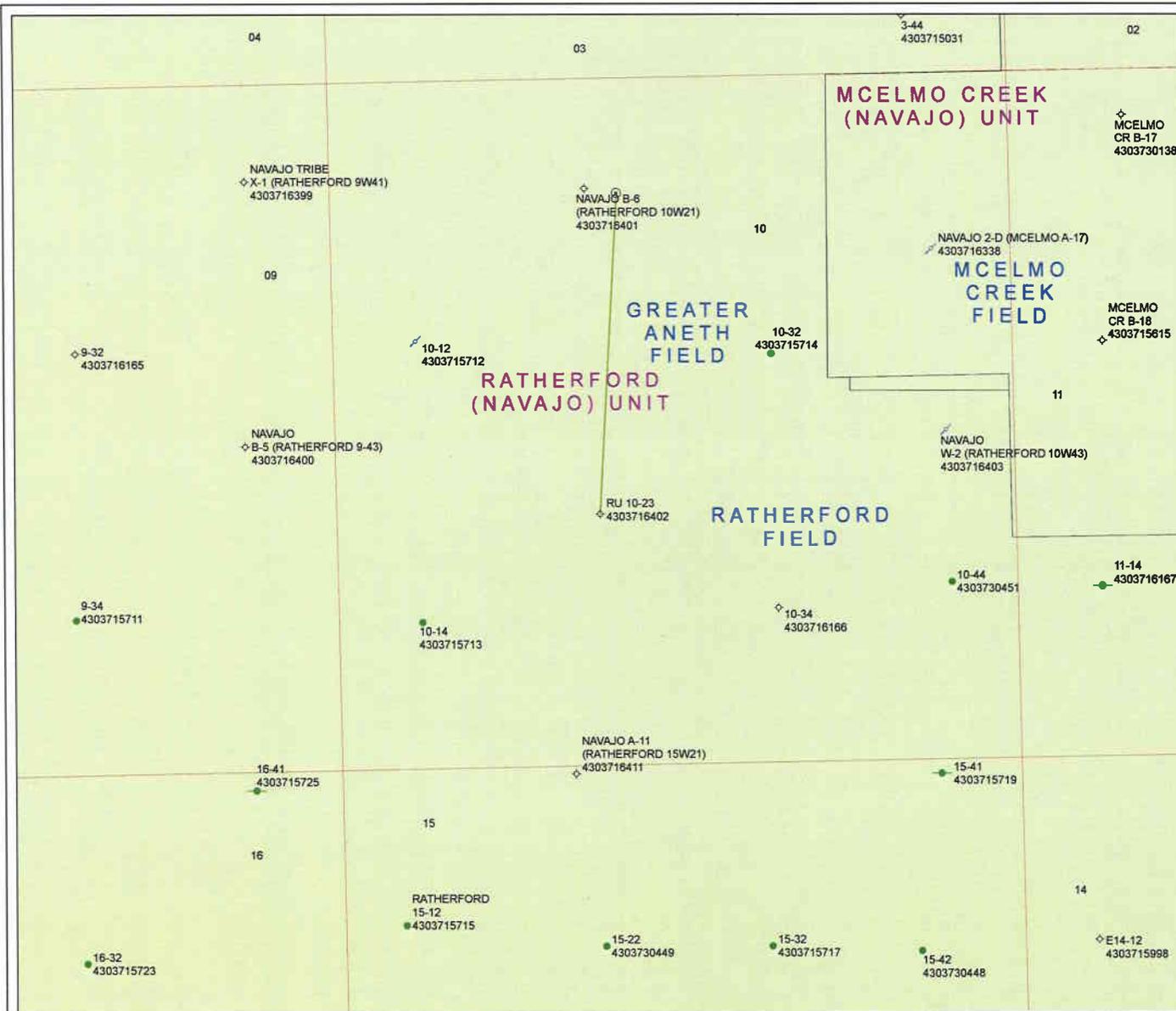
- Plat
- Bond: Fed[] Ind[2] Sta[] Fee[]
(No. PA002769)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 12-0736)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

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: Suspends General Siting
- R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____
1. Section Approval
2. HORIZONTAL



API Number: 4303716402

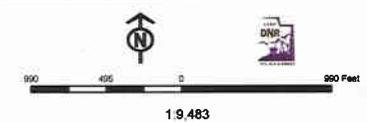
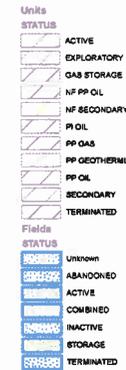
Well Name: RU 10-23

Township T41.0S Range R24.0E Section 10

Meridian: SLBM

Operator: RESOLUTE NATURAL RESOURCES

Map Prepared:
Map Produced by Diana Mason





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 26, 2013

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

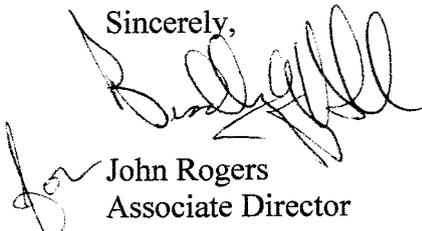
Subject: RU 10-23 Well, Surface Location 1949' FSL, 2009' FWL, NE SW, Sec. 10, T. 41
South, R. 24 East, Bottom Location 872' FNL, 2181' FWL, NE NW, Sec. 10, T. 41
South, R. 24 East, San Juan County, Utah

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 43-037-16402.

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 RU 10-23
API Number: 43-037-16402
Lease: 14-20-603-4043

Surface Location: NE SW **Sec. 10** **T. 41 South** **R. 24 East**
Bottom Location: NE NW **Sec. 10** **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.



GARY R. HERBERT
Governor

SPENCER J. COX
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

June 5, 2014

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

Re: APD Rescinded – RU 10-23 (DEEPENING),
Sec. 10, T. 41S, R. 24E, San Juan County, Utah API No. 43-037-16402

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on March 26, 2013. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective June 5, 2014.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Monticello