

Committed to water injection 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 4-11-59
OW WW TA
GW OS PA

Location Inspected
Bond released
State of Fee Land

LOGS FILED

Driller's Log 6-23-59
Electric Logs (No.) 3
E I E-I GR
Lat. Mi-L Sonic Others

GR-N Micro

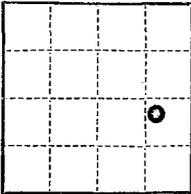
pr. Report 4-59 show completion

Completed - 4-11-59

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

Contract No. 14-20-603-4035



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee

Lease No.

Lease No. 186579

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.....		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 Tribe "X" Lease

Fort Worth, Texas, March 3, 1959.

Well No. 4 is located 1980 ft. from ^{xxx}S line and 660 ft. from ^EW line of sec. 4

NE/4 SE/4, Sec. 4 41-South 24-East SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Undesignated San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4474 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)

OBJECTIVE FORMATION	SIZE CASING	CASING PROGRAM (Approx.)	
		Set at	Cement
Top of Aneth 5351'	8-5/8" (1500')	1500'	1000 sx.
	5-1/2" (5550')	5550'	500 sx.

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

Company THE TEXAS COMPANY
P. O. Box 1720
Address Fort Worth 1, Texas

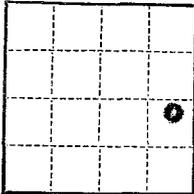
THE TEXAS COMPANY
By J. J. Velten
Title Division Civil Engineer

amm

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

Contract No. 14-20-603-4035



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____

Lease No. _____

Lease No. 186579

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.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribe "X" Lease

Port Worth, Texas, March 3, 1959.

Well No. 4 is located 1980 ft. from XXX line and 660 ft. from E line of sec. 4

NE/4 SE/4, Sec. 4 41-South 24-East SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Undesignated San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4474 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)

OBJECTIVE FORMATION	DEPTH	SIZE CASING	WEIGHT	TYPE	CASING PROGRAM (APPROX.)	
Top of Aneth	5351'	8-5/8"	{ 1500' }	24.0#	New	Set at 1500'
		5-1/2"	{ 5550' }	14.0#	New	Cement 1000 sz. 500 sz.

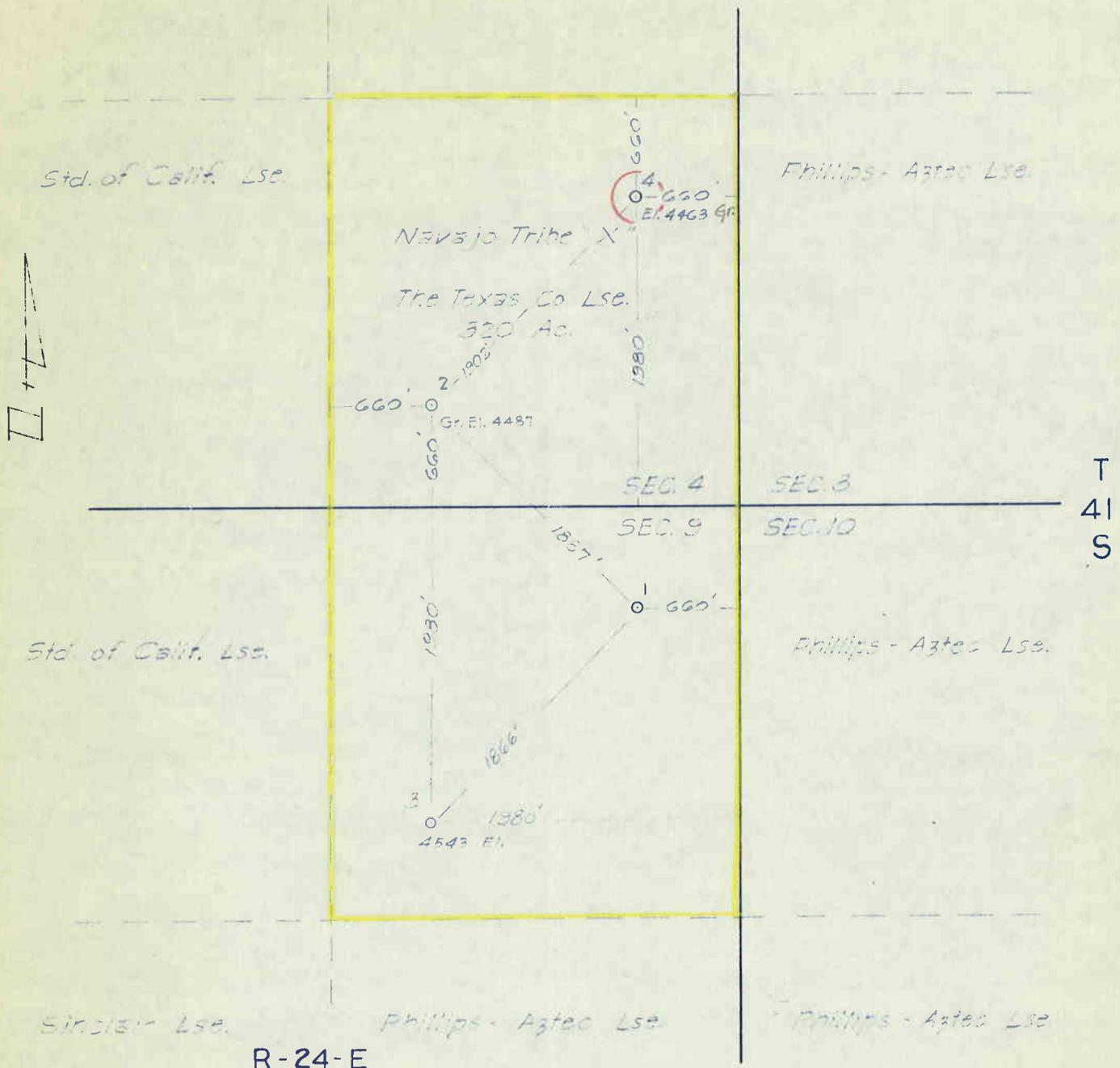
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company THE TEXAS COMPANY
P. O. Box 1720
 Address Port Worth 1, Texas

By J. J. Velten
J. J. Velten
 Title Division Civil Engineer

Navajo Tribal Lands

Navajo Tribal Lands



SAN JUAN COUNTY, UTAH

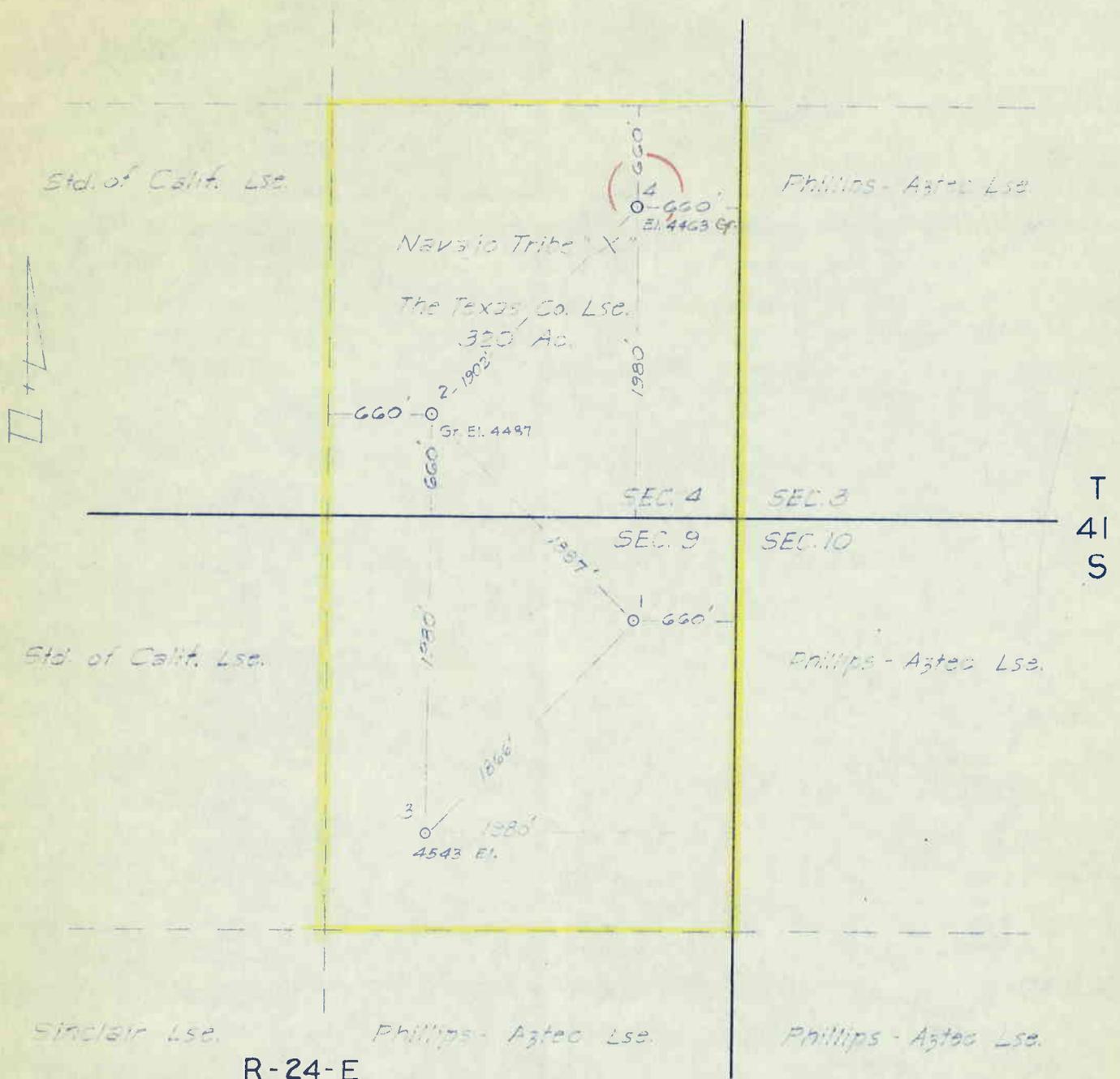
Scale 1" = 1000'

This is to certify that the courses, distances and objects reflected on the plat to which this certificate is affixed were observed and compiled under my supervision and, according to my best knowledge and belief, are true and correct.

[Signature]
 Division Civil Engineer - The Texas Company
 Registered Professional Engineer-State of Texas

Navajo Tribal Lands

Navajo Tribal Lands



R-24-E

SAN JUAN COUNTY, UTAH
Scale 1" = 1000'

This is to certify that the courses, distances and objects reflected on the plat to which this certificate is affixed were observed and compiled under my supervision and, according to my best knowledge and belief, are true and correct.

[Signature]
 Division Civil Engineer - The Texas Company
 Registered Professional Engineer-State of Texas

March 4, 1959

The Texas Company
P O Box 1720
Fort Worth 1, Texas

Attention: J.J. Veiten, Division Civil Engineer

Gentlemen:

This is to acknowledge receipt of your notices of intention to drill Well No. Navajo Tribe P - 17, which is to be located 790 feet from the North line and 2935 feet from the east line of Section 33, Township 40 South, Range 25 East, SLNM, and Well No. Navajo Tribe X - 4, which is to be located 1980 feet from the south line and 600 feet from the east line of Section 4, Township 41 South, Range 26 East, SLNM, San Juan County, Utah.

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

This approval terminates within 90 days if the above mentioned wells are not spudded-in within said period.

Yours very truly,

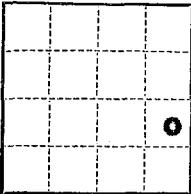
OIL & GAS CONSERVATION COMMISSION

GLENN B. PEIGHT
EXECUTIVE SECRETARY

CBV:cc

cc: Phil McGrath
EGCS, Farmington,
New Mexico

CONFIDENTIAL
(SUBMIT IN TRIPLICATE)



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Allottee _____
Lease No. 14-20-603-4035

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.....	X
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 Tribe "X" **June 22**, 19 **59**

Well No. 4 is located 1980 ft. from XX line and 660 ft. from E line of sec. 4
(S) (XX)

SE 1/4 of Sec. 4 41-S 24-E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Undesignated San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4474 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)

Total depth 5422'. Plugged back depth 5410'.

Perforated 4-1/2" casing from 5379' to 5390' and 5394' to 5398' with 4 jet shots per foot. Ran 2" tubing to 5388' with packer set at 5293' and acidized perforations with 3000 gallons of regular 15% acid.

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

Company TEXACO Inc.
 Address Box 817
Farmington, N. Mex.

By C. H. McLeod
 Title Asst. Dist. Supt.

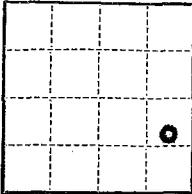
CONFIDENTIAL
(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Allottee _____

Lease No. 14-20-603-4035



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	XX
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 Tribe "X"

June 22, 19 59

Well No. 4 is located **1980** ft. from **XX** line and **660** ft. from **E** line of sec. 4

SE$\frac{1}{4}$ of Sec. 4 <small>($\frac{1}{4}$ Sec. and Sec. No.)</small>	41-S <small>(Twp.)</small>	24-E <small>(Range)</small>	SLM <small>(Meridian)</small>
Undesignated <small>(Field)</small>	San Juan <small>(County or Subdivision)</small>		Utah <small>(State or Territory)</small>

The elevation of the derrick floor above sea level is 4474 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)

Drilled 6-3/4" hole to 5422' and cemented 5412' of 4-1/2" O.D. casing at 5422' with 250 sacks of cement. Top of cement 4280'. Tested casing with 1000# pressure for 30 minutes. Tested OK.

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

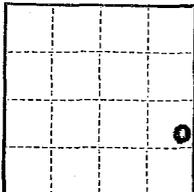
Company TEXACO Inc.

Address Box 817

Farmington, New Mexico

By *C.H. McLaughlin*

Title Asst. Dist. Supt.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-4035

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	XX
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	
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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)

June 22, 1959

Navajo Tribe "X"

Well No. 4 is located 1980 ft. from XXX line and 660 ft. from E line of sec. 4

SE 1/4 of Sec. 4 (1/4 Sec. and Sec. No.) 41-S 24-E (Twp.) (Range) SLM (Meridian)

Undesignated (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 4474 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 3:15 P.M., March 22, 1959.

Drilled 17-1/4" hole to 101' and cemented 90' of 13-3/8" O.D. casing at 101' with 150 sacks of cement. Cement circulated.

Drilled 11" hole to 1494' and cemented 1484' of 8-5/8" O.D. casing at 1494' with 1100 sacks of cement. Cement circulated. Tested casing with 800# pressure for 30 minutes. Tested OK.

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

Company TEXACO Inc.

Address Box 817

Farmington, New Mexico

By C. H. McLeod

Title Asst. Dist. Supt.

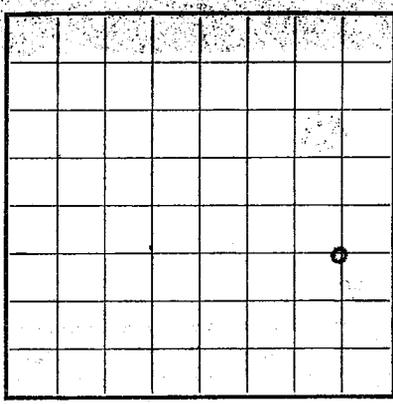
11/10

Returned 10-1-59

Budget Bureau No. 42-R365.4
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Nava jo
SERIAL NUMBER 14-20-603-4035
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company TEXACO Inc. Address Box 817, Farmington, New Mex.
Lessor or Tract Nava jo Tribe "X" Field Undesignated State Utah
Well No. 4 Sec. 4 T. 41R24E Meridian SLM County San Juan
Location 1980 ft. [N.] of S. Line and 660 ft. [E.] of W. Line of Section 4 Elevation 4474'
(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 [Signature]
Title Dist. Supt.

Date June 23, 1959

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

Commenced drilling March 22, 1959 Finished drilling April 7, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 5379 to 5398 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from None to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>13-3/8</u>	<u>48</u>	<u>8R</u>	<u>Sels</u>	<u>90</u>	<u>None</u>	<u>None</u>			
<u>8-7/8</u>	<u>46</u>	<u>8R</u>	<u>Sels</u>	<u>140</u>	<u>None</u>	<u>None</u>			
<u>4-1/2</u>	<u>9.5</u>	<u>8R</u>	<u>Sels</u>	<u>5412</u>	<u>Haker</u>	<u>None</u>			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>101</u>	<u>150</u>	<u>Halliburton</u>		
<u>8-7/8</u>	<u>1494</u>	<u>1100</u>	<u>Halliburton</u>		
<u>4-1/2</u>	<u>5422</u>	<u>250</u>	<u>Halliburton</u>		

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____
Adapters—Material None Size _____

SHOOTING RECORD

FOLD MARK

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
None						

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to **5422** feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
 The production for the first 24 hours was _____ barrels of fluid of which **Tested April 11, 54%**
 emulsion; _____% water; and _____% sediment. **792** Gravity, °Bé. **100**
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas **41.20**
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
Glenn Hitchum, Driller **O. H. Davenport**, Driller
Freeman Smith

FORMATION RECORD

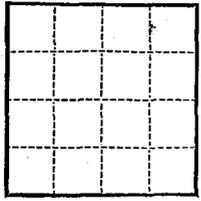
FROM-	TO-	TOTAL FEET	FORMATION
0	110	110	Shale & Gravel
110	385	275	Sand & Shale
385	1150	765	Sand, Shale & Anhydrite
1150	2726	1576	Sand & Shale
2726	3325	599	Shale
3325	3827	502	Shale & Anhydrite
3827	4378	551	Shale
4378	5422	1044	Lime & Shale
Total Depth 5422'			
Plugged Back Depth 5410'			

Copy N. L. C

Navajo

(SUBMIT IN TRIPLICATE)

Indian Agency _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Tribal

Allottee 1A-20-603-4035

Lease No. _____

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
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NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

Notice of intention to deepen 25' and X
convert to water injection.

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

Cortez, Colorado March 18, 1963

Ratherford Unit (Formerly Texaco Inc. Navajo Tribal "X" #4)

Well No. 4-43 is located 1980 ft. from ^N_S line and 660 ft. from ^E_W line of sec. 4

SE/4 Sec. 4

41S

24E

SLM

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

Greater Aneth

San Juan

Utah

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is 4474 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)

Kill well. Pull rods and tubing, drill cement plug 5410-22 and new hole from 5422-35 using gelled water for drilling fluid. Displace drilling fluid with clean water. Run 2" Marlex plastic lined tubing and Baker tension packer. Set packer at approximately 5330 and convert to water injection. Present production: 22 BO, 49 MCF gas, 0 water in 24 hours pumping.

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

Phillips Petroleum Company

Company _____

P. O. Drawer 1150

Address _____

Cortez, Colorado

By *C. M. Boles*
C. M. Boles

Title District Superintendent



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

June 12, 1963

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

Attention: Mr. Cleon S. Feight

Dear Sirs:

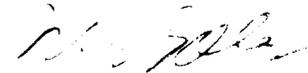
In accordance with Rule E-4 of the Utah General Rules and Regulations, we wish to advise that the following wells located on the Ratherford Unit in San Juan County, Utah, were converted to water injection wells.

<u>Old Well No.</u>	<u>New Well No.</u>	<u>Date Converted</u>	<u>Injection Rate</u>	<u>Injection Pressure</u>
3-42	3W42	5-29-63	619 BWPD	Vacuum
4-43	4W43	6-1-63	211 BWPD	2425#

Details of the above conversions will be furnished on USGS Form No. 9-331b in the near future.

Yours very truly,

PHILLIPS PETROLEUM COMPANY


C. M. Boles
District Superintendent

bh

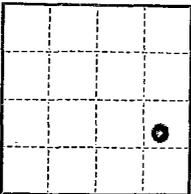
(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____

Lease No. 14-20-603-4035



SUNDRY NOTICES AND REPORTS ON WELLS

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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.....	INSTALLATION OF PUMPING EQUIPMENT	X

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

Navajo Tribe "X"

June 29, 1959

Well No. 4 is located 1960 ft. from ^{XXX}S line and 660 ft. from ^EXXX line of sec. 4

SE 1/4 of Section 4 41-S 24-E 51N
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Undesignated San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4474 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)

Installed pumping equipment and well commenced pumping May 26, 1959. On test ending June 3, 1959, well pumped 62 barrels of oil in 24 hours. Length of pump stroke 66" with 10 strokes per minute.

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

Company TEXACO Inc.

Address Box 617

Farmington, New Mexico

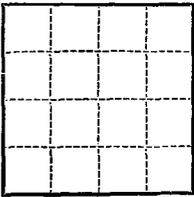
By C. H. McLeod

Title Asst. Dist. Supt.

Copy H-2

(SUBMIT IN TRIPLICATE)

Indian Agency _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Tribal _____
Allottee _____
Lease No. 14-20-603-4035

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	Subsequent Report to Deepen 25' and convert to Water Injection

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

Cortez, Colorado July 8 63

Ratherford Unit (Formerly Texaco Navajo Tribal "X" #4 and Ratherford Unit #4-43)
Well No. 4443 is located 1980 ft. from N line and 680 ft. from E line of sec. 4
SE/4 Sec. 4 41E 24E S1M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Greater Aneth San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4474 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)

Converted well to Water Injection (5-15-63 through 6-7-63).
Pulled rods and tubing, ran in with bit and tubing, tagged bottom at 5410', drilled cement to 5422', drilled new 3-7/8" hole to 5435' in line. Ran 2" tubing with Marx liner and Tension Packer, set at 5322'. Hooked up for water injection. Started injecting water 6-1-63. Changed well classification from Oil Well to Water Injection Well and changed well number from 4-43 to 4443.

Previous Production: (Greater Aneth - Paradox, Desert Creek Zone): 14 BO, 63 MCF Gas, 0 Water.

Present Production: (Greater Aneth - Paradox, Desert Creek Zone): Injected 211 BW in 24 hrs at 2425#.

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.

Address P. O. Drawer 1150
Cortez, Colorado

By *[Signature]*
G. H. Toles
Title District Superintendent

Copied H. S. E.

7

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency NAVAJO
Allottee TRIBAL
Lease No. 14-20-603-4035

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/ACIDIZE	<input checked="" type="checkbox"/>	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)

Rutherford Unit Cortez, Colorado September 4, 1963

Well No. 4W43 is located 1900 ft. from NXX line and 600 ft. from E line of sec. 4

SE/4 Sec. 4 A13 24E SLM

(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Greater Aneth SAN JUAN Utah

(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4474 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)

Acidize Injection well with 1,000 gallons regular acid, 250 gallons Sol-Block, and 2,000 gallons regular acid.

Present injections 132 BWPD at 2380%.

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 *C. M. Soles*
C. M. Soles

Title District Superintendent

11.

(SUBMIT IN TRIPLICATE)

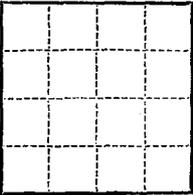
Indian Agency _____

NAVAJO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee TRIBAL

Lease No. 14-20-607-4035



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 WATER SHUT-OFF ACIDIZING	X
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)

Cortez, Colorado September 23, 1963

Rutherford Unit

Well No. 4443 is located 1980 ft. from ~~XNK~~ S line and 600 ft. from ~~XNK~~ E line of sec. 4

SE/4 Sec. 4
(1/4 Sec. and Sec. No.)

415
(Twp.)

24E
(Range)

SLM
(Meridian)

Greater Aneth
(Field)

San Juan
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 4474 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)

On September 5, 1963 acidised Water Injection well with 1000 gallons 1% regular acid, 250 gallons Sol Block, and 2000 gallons 1% regular acid.

Present Injection Rate: Injecting 300 BHPD at 2350# - Greater Aneth Field, Paradox formation, Desert Creek Zone.

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 C. M. Boles
C. M. Boles

Title District Superintendent

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 X CORPORATION
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE 4W43 WELL
SEC. 4 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>4W43</u>	Field <u>Greater Aneth</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>4W43</u> Sec. <u>4</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 type="checkbox"/> No <input checked="" type="checkbox"/> Date <u> </u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>Wingate 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 Oil & Gas	
Location of Injection Source(s) <u>Desert Creek Paradox I & II San Juan River</u>	Geologic Name(s) and Depth of Source(s) <u>Desert Creek (5567') San Juan River (Surface)</u>		
Geologic Name of Injection Zone <u>Desert Creek I</u>	Depth of Injection Interval <u>5379</u> to <u>5435</u>		
a. Top of the Perforated Interval: <u>5379</u>	b. Base of Fresh Water: <u>1550'</u>	c. Intervening Thickness (a minus b) <u>3829</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO See Attachment #4			
Lithology of Intervening Zones <u>See Attachment #1</u>			
Injection Rates and Pressures <u>SD 12/12/75</u> Maximum <u> </u> B/D <u> </u> PSI <u> </u>			
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
County of Natrona

PHILLIPS PETROLEUM COMPANY
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"	101	150	Surface	Returns
Intermediate	8-3/8"	1404	1100	Surface	Returns
Production	4-1/2"	5422	250	4280	Logs
Tubing	2-3/8"	5332	Name - Type - Depth of Tubing Packer Baker Tension Pkr @ 5330'		
0 Total Depth 5435	Geologic Name - Inj. Zone Desert Creek I	Depth - Top of Inj. Interval 5379	Depth - Base of Inj. Interval 5435		

14-20-603- 4035

(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. 43-037-16390

640 Acres
N

DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

COUNTY San Juan SEC. 4 TWP. 41S RGE. 24E

COMPANY OPERATING Phillips Petroleum Company

OFFICE ADDRESS P.O. Box 2920

TOWN Casper STATE ZIP Wyoming 82602

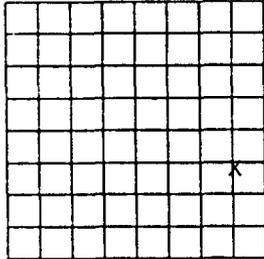
FARM NAME _____ WELL NO. 4W43

DRILLING STARTED 3-22 19 59 DRILLING FINISHED 4-7 19 59

DATE OF FIRST PRODUCTION 4-11-59 COMPLETED _____

WELL LOCATED NE $\frac{1}{4}$ SE $\frac{1}{4}$ _____
1980 FT. FROM SW OF $\frac{1}{4}$ SEC. & 660 FT. FROM EL OF $\frac{1}{4}$ SEC.

ELEVATION BERRICK/FLOOR 4474 GROUND 4464



Locate Well Correctly
and Outline Lease

TYPE COMPLETION

Single Zone X

Multiple Zone _____

Comingled _____

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Desert Creek I	5379	5398			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
13-3/8"	40#	H-40	101	No Test	150	No Rec.	Surface
8-5/8"	24#	J-55	1404	800#	1100	No Rec.	Surface
4-1/2"	9.5#	J-55	5422	1000#	250	No Rec.	4280

Open Hole TOTAL DEPTH 5435'

PACKERS SET
DEPTH Baker Tension Pkr @ 5330'

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	5379-90		
INTERVALS	5394-98		
	Open Hole		
	5422-35		
ACIDIZED?	9/5/63 3000 Gal 15% HCL Acid		
FRACTURE TREATED?	No		

INITIAL TEST DATA

(Deepened to 5435' from 5422')
Converted to Injector 6/8/63

Date	6/8/63		
Oil, bbl./day	--		
Oil Gravity	--		
Gas, Cu. Ft./day	--	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	--		
Water-Bbl./day	211		
Pumping or Flowing	Pumping		
CHOKE SIZE	--		
FLOW TUBING PRESSURE	2425#		

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 _____ 19 83

SEP 22 '83

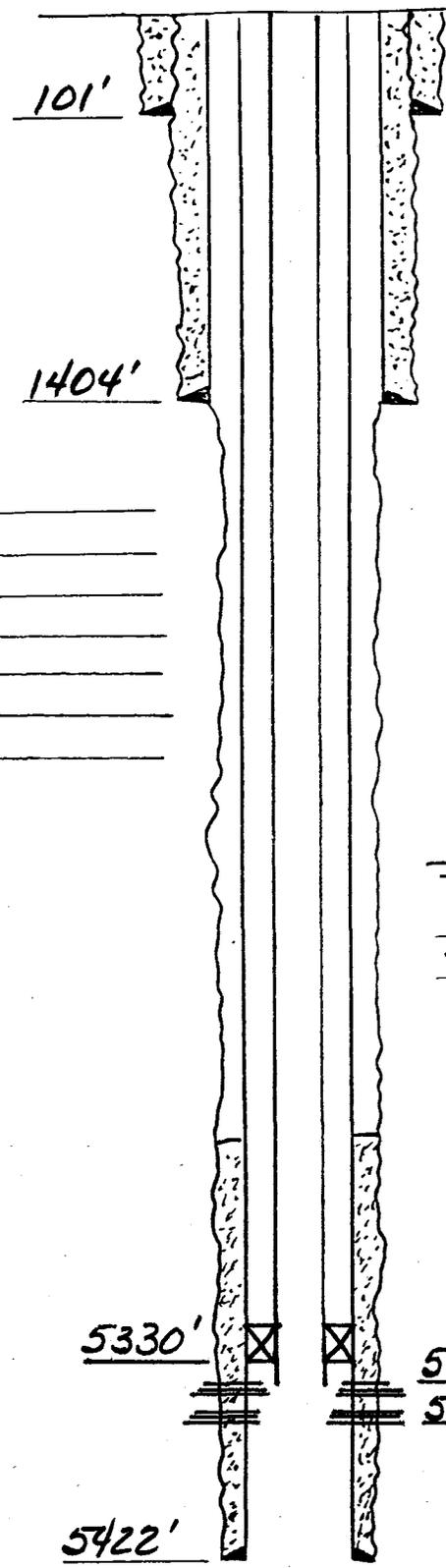
Casper

WELL: 4W43
LOCATION: NESE Sec 4 - T41S - R24E
FIELD: GREATER ANETH
RESERVOIR: Desert Creek I

W. COMPLETION: 6.8.63
PRESENT STATUS: S.I.

RKB 4474'
GL 4464'

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



INTERMEDIATE CASING: 8 5/8"
24# J-55

PRODUCTION CASING: 4 1/2" 9.5#
J-55

PERFORATIONS:
5379-5390
5394-5398
open hole:
5422-5435

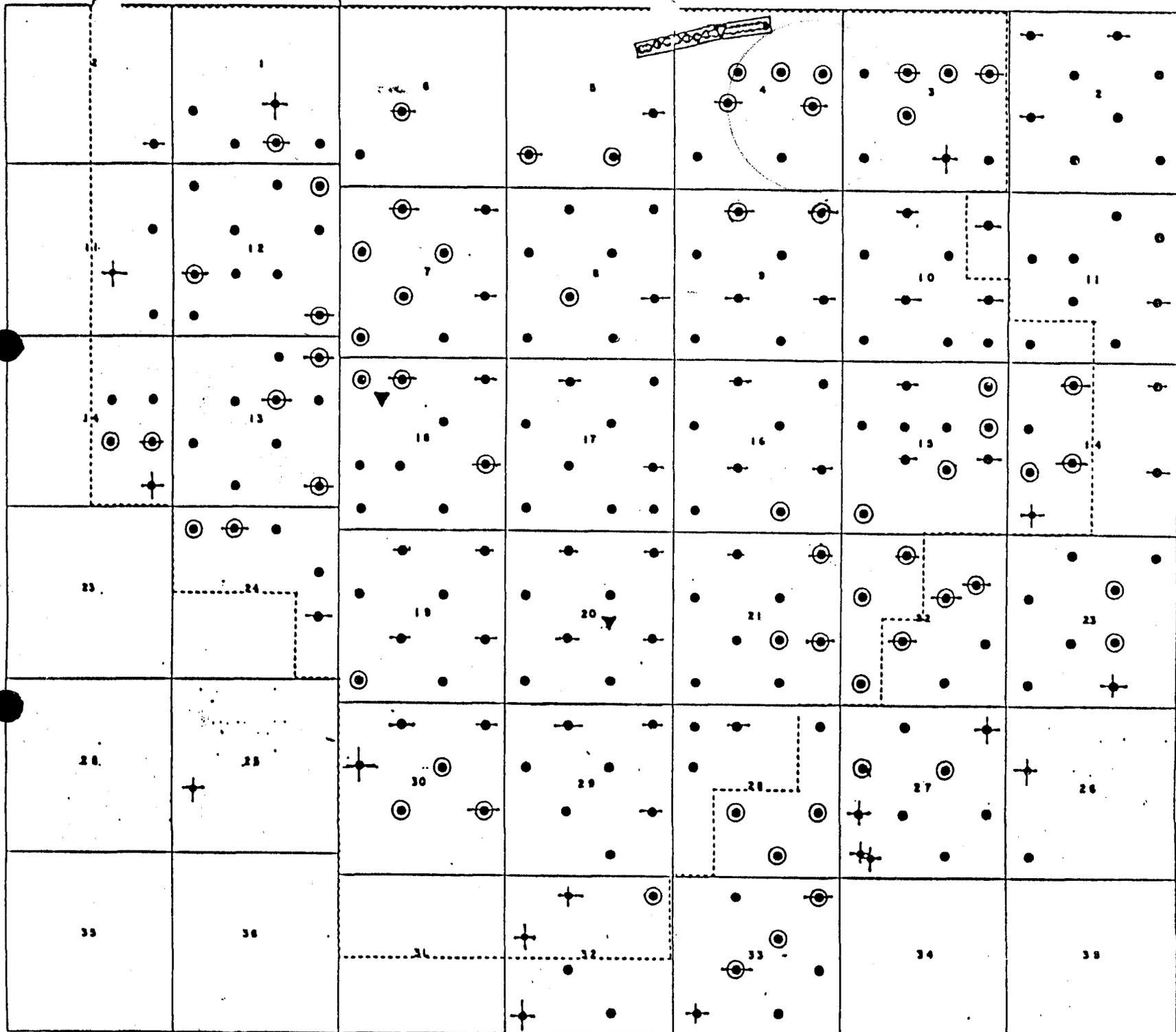
PACKER: Baker Tension
Pkr @ 5330
Tubing: 2 3/8" @ 5332

PBTD: 5422-
OTD: 5435

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

WTR 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 _____

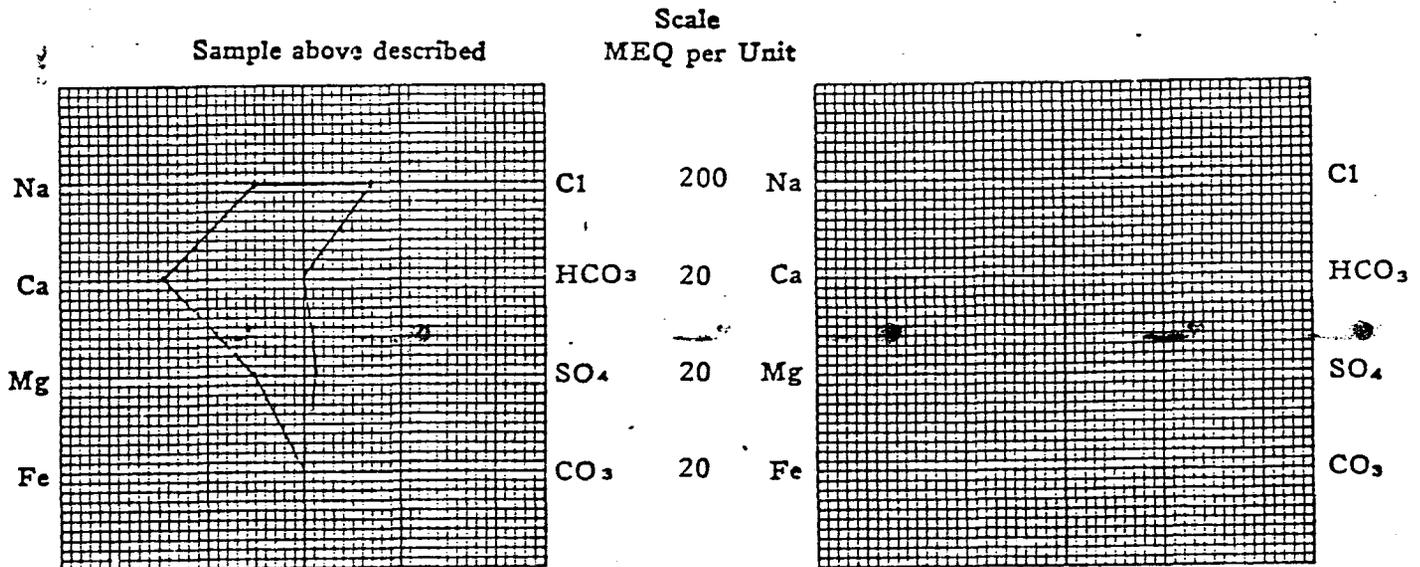
REMARKS & CONCLUSIONS: Specific gravity @68°F ----- 1.0646
 Oil and grease, mg/l ----- 2.5
 Aluminum (Al), mg/l ----- 0.90
 Iron (Fe), mg/l ----- 0.3
 Total Sulfides, mg/l ----- ND(0.1)

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

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

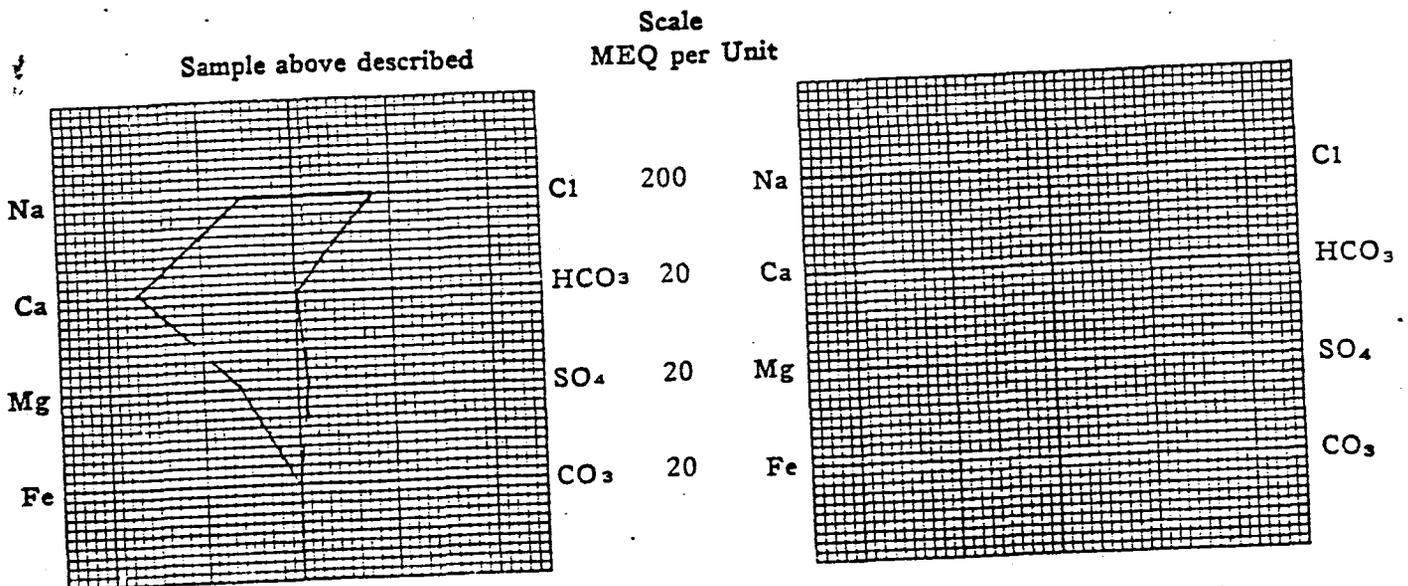
OPERATOR Phillips Petroleum Company DATE 7-22-83 LAB NO. W30636
 WELL NO. Ratherford Unit LOCATION _____
 FIELD _____ FORMATION _____
 COUNTY San Juan INTERVAL _____
 STATE Utah SAMPLE FROM Battery #1 Free water knockout
(7-5-83) @ 10:35
S/N 28568

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

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

OPERATOR: Phillips Petroleum
 FIELD: Greater Aneth LEASE: Rather ford
 WELL # 4W43 SEC. 4 TOWNSHIP 41S RANGE 24E
 STATE FED. FEE DEPTH 5435 TYPE WELL INJW MAX. INJ. PRESS. _____
 SI 12/12/75
 TEST DATE 6/17/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13 3/8</u>	<u>101</u>	<u>150</u>		<u>SE</u>	
<u>INTERMEDIATE</u>	<u>8 3/8</u>	<u>1404</u>	<u>1100</u>			
<u>PRODUCTION</u>	<u>4 1/2</u>	<u>5422</u>	<u>250</u>			
<u>TUBING</u>	<u>2 3/8</u>	<u>5332</u>			<u>Baker Packer Model A.</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>						

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Phillips Well No. Rutherford Unit 4W43
 County: San Juan T 41S R Sec. 4 API# 43-021-16390
 New Well Conversion Disposal Well Enhanced Recovery Well X

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

Fluid Source Desert Creek

Analysis of Injection Fluid	Yes <u>✓</u>	No <u> </u>	TDS <u>85655</u>
Analysis of Water in Formation to be injected into	Yes <u>✓</u>	No <u> </u>	TDS <u>102433</u>
Known USDW in area	<u>Wingate</u>	Depth <u>1350</u>	
Number of wells in area of review	<u>7</u>	Prcd. <u>6</u>	P&A <u>0</u>
		Water <u>0</u>	Inj. <u>1</u>
Aquifer Exemption	Yes <u> </u>	NA <u>✓</u>	
Mechanical Integrity Test	Yes <u> </u>	No <u>✓</u>	
	Date <u> </u>	Type <u> </u>	

Comments: TOC 4280

Reviewed by: 

08/28/91 D E T A I L W E L L D A T A B Y A P I MENU: OPTION 00
API NUMBER: 4303716390 PROD ZONE: DSCR SEC TWNShP RANGE QR-QR
ENTITY: 99998 (PA, LA, OR TA) 4 41.0 S 24.0 E NESE
WELL NAME: RATHERFORD UNIT 4W43 (NAV TRIB X-4)
OPERATOR: N0772 (PHILLIPS PETROLEUM COMPANY) MERIDIAN: S
FIELD: 365 (GREATER ANETH
CONFIDENTIAL FLAG: CONFIDENTIAL EXPIRES: 0 ALT ADDR FLAG:

* * * APPLICATION TO DRILL, DEEPEN, OR PLUG BACK * * *

1B. TYPE OF WELL (OW/GW/OT) OW 5. LEASE NUMBER: INDIAN LEASE TYPE: 2
4. SURFACE LOC: 1980 FSL 0660 FEL 7. UNIT NAME: RATHERFORD
PROD ZONE LOC: 1980 FSL 0660 FEL 19. DEPTH: 5550 PROPOSED ZONE: ANETH
21. ELEVATION: 4474' DF APD DATE: 590304 AUTH CODE:

* * * COMPLETION REPORT INFORMATION * * * DATE RECD: 0

15. SPUD DATE: 590322 17. COMPL DATE: 590411 20. TOTAL DEPTH: 5422'
24. PRODUCING INTERVALS: 5379-5398

4. BOTTOM HOLE: 1980 FSL 0660 FEL 33. DATE PROD: 0 WELL STATUS: PA
24HR OIL: 792 24HR GAS: 0 24HR WTR: 0 G-O RATIO: 0

* * * WELL COMMENTS * * * API GRAVITY: 41.00

861106 ADDED TO SYSTEM; PZ PER SUNDRY DATED 7/8/63 CONVERTED TO WIW 6/1/63
PA'D 9/23/86(14-20-603-4035)

OPTION: 21 PERIOD(YMM): 0 API: 4303716390 ZONE: ENTITY: 0

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

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved
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.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Water Injection Well		4. LEASE DESIGNATION AND SERIAL NO. 14-20-603-4035
2. NAME OF OPERATOR Phillips Oil Company		5. IF OTHER, ALLOTTEE OR TRACT NAME Navajo
3. ADDRESS OF OPERATOR P. O. Box 2920, Casper, WY 82602		6. OPER ASSIGNMENT NAME SW-I-4192
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FSL, 660' FEL		7. NAME OR LEASE NAME Ratherford Unit
14. PERMIT NO. 43-037-16390		8. WELL NO. #4W43
15. ELEVATIONS (Show whether SP, ST, OR, etc.) 4473' RKB		9. FIELD AND POOL, OR WILDCAT Greater Aneth
16. COUNTY OR PARISH San Juan		10. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 4-T41S-R24E
17. STATE Utah		

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"/>	PLUG 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 ACIDISE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDISING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) Return to Injection <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.)

It is proposed to return Ratherford Unit #4W43 to Zone I Injection, after performing minor surface equipment repairs.

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JUL 10 1985

DIVISION OF OIL
GAS & MINING

- 5-BLM, Farmington, NM
- 2- Utah O&G CC, Salt Lake City, Utah
- 1- P. J. Adamson
- 1- B. Conner, 318 B-TRW
- 1- J. R. Weichbrodt
- 1- C. M. Anderson
- 1- File RC

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

SIGNED <u><i>A. E. Stuart</i></u>	TITLE <u>Area Manager</u>	DATE <u>July 5, 1985</u>
<small>(This space for Federal or State office use)</small>		
APPROVED BY <u><i>Charles Wright</i></u>	TITLE <u>W. Manager</u>	DATE <u>7/11/85</u>

*See Instructions on Reverse Side

(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)

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

1. LEASE OPERATOR AND SERIAL NO.
14-20-603-4035

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
P. O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State/Indian permits.
See also space 17 below.)
At surface
1980' FSL, 660' FEL

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DIVISION OF
OIL, GAS & MINING

5. IF NECESSARY, ALLOTTEE OR TRUSS NAME
Navajo

6. WELL IDENTIFICATION NUMBER
SW-I-4192

7. NAME OF LEASE NAME
Ratherford Unit

8. WELL NO.
4W43

9. FIELD AND FOOT, OR WILDCAT
Greater Aneth

10. DATE OF WELL, OR DATE OF RE-ENTRY OR RE-ABANDONMENT
See 4-7413-8211

14. PERMIT NO.
43-037-16390

15. ELEVATIONS (Show whether OF, TO, OR, etc.)
4473' RKB

11. COUNTY OR PARISH 12. STATE
San Juan Utah

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)

PLUG 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 upon pertinent to this work.)

Please see attachment for Well Data, Justification and proposed operation to plug and abandon well rather than returning to Zone I injection, as was earlier intended.

A 10' x 8' x 6' fenced pit will be constructed on location in a previously disturbed area. Upon completion of the workover, the pit will be dried and recovered.

- 5-BLM, Farmington, NM
- 2-Utah O&G CC, Salt Lake City, Utah
- 1- P. J. Adamson
- 1- M. Williamson 302 TRW
- 1- J. R. Reno
- 1- Z. G. Sondelski
- 1- B. J. Murphy
- 1- File RC

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

SIGNED D.C. Gill
D. C. Gill

TITLE Area Manager

DATE August 8, 1986

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

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

DATE: 8-12-86

BY: Johanna D. Bay

Federal approval of this action is required before commencing operations.

*See Instructions on Reverse Side

RATHERFORD UNIT WELL #4W43

Item 17

Well Data:

13-3/8" 48# csg @ 101' w/150 sx cmt
8-5/8" 24# csg @ 1494' w/1100 sx cmt
4-1/2" 9.4# csg @ 5422' w/250 sx cmt

Perfs @ 5379-5390, 5394-5398, Open Hole: 5422-5435

Formation Tops: Dechelly @ 2485'
 Hermosa @ 4410'
 Desert Creek @ 5358'

TD: 5435'

JUSTIFICATION:

The well does not have economical use as an injection well and has no recompletion or stimulation potential. Earlier Sundry Notice dated July 5, 1986, was to return well to injection, which now will not be done.

PROPOSED OPERATION

- 1) Sqz perfs w/85 sx cmt. TOC @ 5180'.
- 2) Spot 25 sx cmt in 4-1/2" csg from 4550' to 4300' across Hermosa.
- 3) Perf 4-1/2" csg @ 2670'.
- 4) Pump 120 sx cmt to provide 270' balanced plug in annulus and 4-1/2" csg from 2670' to 2400' to isolate the Dechelly fm.
- 5) Perf 4-1/2" csg @ 1550'.
- 6) Pump 50 sx cmt to provide 150' balanced plug in annulus and in 4-1/2" csg from 1550' to 1400' to provide a plug across 8-5/8" surf csg shoe.
- 7) Pump 35 sx cmt plug in annulus and 4-1/2" csg to provide 100' plug to surface.
- 8) Install P&A marker, unless surface owner requests otherwise, and rehab surface.
- 9) Will use mud-laden fluid between all cmt plugs.

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AUG 11 1986

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

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.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Wtr Inj (P&A)</u>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-4035
2. NAME OF OPERATOR Phillips Petroleum Company		6. IF USMAN, ALLOTTEE OR TRUST NAME Navajo 102308
3. ADDRESS OF OPERATOR P. O. Box 2920, Casper, Wyoming 82602		7. UNIT AGREEMENT NAME SW-I-4192
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FSL & 1980' FEL, NE SE		8. FARM OR LEASE NAME Ratherford Unit
14. PERMIT NO. API #43-037-16390		9. WELL NO. 4W43
15. ELEVATIONS (Show whether SP, ST, GR, etc.) RKB 4504'		10. FIELD AND POOL, OR WILDCAT Greater Aneth
		11. SEC., T., R., E., OR BLK. AND SURVEY OR AREA Sec. 4-T41S-R24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <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 checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <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.)

September 19, 1986 through September 23, 1986 -

MI WS Unit 9/19/86. Unable to pull pkr at 5365'. Set 80 sx Class B Cmt Plug from 5365'-4350'. Perforate 2667-2670' & 1547-1550'. Set 4-1/2" Arrow Cmt Retainer at 2362'. Spot 125 sx Class B Cmt Plug from 2670'-2362' inside and outside csg. Spot 400 sx Class B Cmt Plug from 1550' to surface inside and outside csg. Cut surface & production casings off 5' below GL. Welded 3/8" plate on 8-5/8" csg. Installed permanent marker. Well Plugged & Abandoned 9/23/86.

RECEIVED
OCT 20 1986

DIVISION OF
OIL, GAS & MINING

- 4-BLM, Farmington, NM
- 2-Utah O&G CC, SLC, UT
- 1-M. Williams, B'Ville
- 1-J. Landrum, Denver
- 1-J. Reno, Cortez
- 1-Chieftain
- 1-Mobil Oil
- 1-Texaco, Inc.
- 1-Chevron USA
- 1-File RC

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

SIGNED D. C. Gill TITLE Area Manager DATE October 16, 1986

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY: _____

DATE 10-21-86
BY: [Signature]

*See Instructions on Reverse Side