

CONFIDENTIAL
Release Date 7-2-67

P-W

TENNECO OIL #1 FEDERAL-B 370
SW NE 4-10N-24E Apache County

ARIZONA 370
APACHE CO.
WILDCAT (W)



Petroleum Information Corp.
Denver, Colorado
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Twp 10n-24e
Section 4
SW NE
1980 s/n 1980 w/e

OPR: Tenneco Oil

WELL #: 1 Federal-B

ELEV: 6852 Gr
TOPS: Log-Sample

DSTS. & CORES:

SPUD: COMPL: 12-29-66

TD: 4669
CSG:

FB:

PERF:

5350 preCambrian test.

PROD. ZONE:

INIT. PROD: D&A. (Tight hole).

Contr:

(CARD WILL BE RE-ISSUED WHEN DATA AVAILABLE)

ARIZ1-760110

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well
 Work-Over
 Deepen
 Plug Back
 Same Reservoir
 Different Reservoir
 Oil
 Gas
 Dry

DESCRIPTION OF WELL AND LEASE

Operator: Tenneco Oil Company Address: Box 1714, Durango, Colorado

Federal, State or Indian Lease Number or name of lessor if fee lease: AR-035875 Well Number: 1 Field & Reservoir: Wildcat

Location: Federal "B" County: Apache

Sec. TWP-Range or Block & Survey: Sec. 4-T10N-R24E

Date spudded: Date total depth reached: 12-31-66 Date completed, ready to produce: P&A 1-2-67 Elevation (DP, BKB, RT or Gr.): 6852' GR Elevation of casing hd. flange: feet

Total depth: 4657' P.B.T.D.: Dry Hole Single, dual or triple completion?: If this is a dual or triple completion, furnish separate report for each completion:

Producing interval (s) for this completion: None - Dry Hole Rotary tools used (interval): 0-4657' Cable tools used (interval): 0

Was this well directionally drilled?: No Was directional survey made?: No Was copy of directional survey filed?: No Date filed:

Type of electrical or other logs run (check logs filed with the commission): (Gamma Ray Neutron, GRD, IES) Date filed:

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Csg.	13-3/4"	16"	65#	45'	125	None
Csg.	Reamed to 20"	Re-cemented with 200 sx.				
	9-5/8"	8-5/8"	24#	1751'	700	

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)
	<u>Dry Hole</u>						

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
	<u>None - Dry Hole</u>	<u>Permit #370</u>		

INITIAL PRODUCTION

Date of first production: Dry Hole Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:):

Date of test: Hrs. tested: Choke size: Oil prod. during test: Gas prod. during test: Water prod. during test: Oil gravity:

Tubing pressure: Casing pressure: Cal'd rate of Production per 24 hrs.: Oil: Gas: Water: Gas-oil ratio:

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Senior Production Clerk of the Tenneco Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date: February 20, 1967

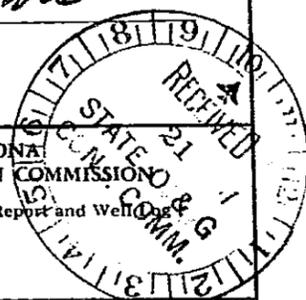
Signature: Harold C. Nichols
 Signature Harold C. Nichols

CONFIDENTIAL - Do not release information until notified.

Permit No. 370

Form No. 4

File One Copy



DETAIL OF FORMATIONS PENETRATED *

Formation	Top	Bottom	Description*
Coconino Ft. Apache	1000' 2162'	1450' 2336'	Fresh water, sandstone. Limestone. DST. Recovered 120' mud. SIP 415-404# FP 18-62# HP 1172-1161#
Perm. Naco	3850'	4400'	Limestone. DST. Recovered 300' salt water cut mud and 2529' salt water. FP 976-1406# SIP 1470-1449# HP 2075#
Miss. Redwall	4400'	4500'	Limestone. DST. Recovered 120' mud. SIP 1304-1166# FP 106-112#

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE
(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL GAS WELL DRY Other Dry Hole

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

3. NAME OF OPERATOR
Tenneco Oil Company

4. ADDRESS OF OPERATOR
Box 1714, Durango, Colorado

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):
At surface 1980' FRL 1980' FRL
At top prod. interval reported below
At total depth

6. LEASE DESIGNATION AND SERIAL NO.
AR-035875

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

8. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME
Federal "B"

10. WELL NO.
1

11. FIELD AND POOL, OR WILDCAT
Wildcat

12. SEC. T. R. M., OR BLOCK AND SURVEY OR AREA
Sec. 4-T10N-R24E

13. COUNTY OR PARISH
Apache

14. STATE
Arizona

15. DATE SPUDDED
12-31-66

16. DATE T.D. REACHED
1-2-67 P.S.A.

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (OF, RES. RT, GR, ETC.)*
6852' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD
4657'

21. PLUG, BACK T.D., MD & TVD
Dry Hole

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY
0-4657'

24. ROTARY TOOLS

25. CABLE TOOLS

26. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None - Dry Hole.

27. WAS DIRECTIONAL SURVEY MADE?
Yes

28. TYPE ELECTRIC AND OTHER LOGS RUN
Gamma Ray Neutron, Gamma Ray Density, Induction E-Log

29. WAS WELL CORED?
No

30. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>16"</u>	<u>65#</u>	<u>45'</u>	<u>13-3/4" & Reamed to 20"</u>	<u>125 sx.</u>	<u>None</u>
<u>8-5/8"</u>	<u>24#</u>	<u>1751'</u>	<u>9-5/8"</u>	<u>700 sx.</u>	

31. LINER RECORD

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

32. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	<u>Dry Hole</u>	

33. PERFORATION RECORD (Interval, size and number)

None - Dry Hole.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<u>Dry Hole</u>	

35. PRODUCTION

DATE FIRST PRODUCTION
Dry Hole

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)
Dry Hole

WELL STATUS (Producing or shut-in)
Dry Hole

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS—BBL.

FLOW. TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL—BBL.

36. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Dry Hole

37. TEST WITNESSED BY

38. LIST OF ATTACHMENTS
None

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

SIGNED Harold C. Nichols TITLE Senior Production Clerk DATE February 1, 1967

1-File (See Instructions and Spaces for Additional Data on Reverse Side)
3-USGS-Farmington, N.M.
2-AOAGCC-Phoenix, Ariz.

CONFIDENTIAL

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INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 25, and 28, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 33.

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

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

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

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

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

FORMATION		TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF. CORRECTION INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES					MEAS. DEPTH	TRUE VERT. DEPTH
Coconino	1000'	1450'		Fresh water sandstone.	1000'	1450'
Ft. Apache	2162'	2336'		Limestone. DST. Rec. 120' mud. SIP 415-404# FP 18-62#	2162'	2336'
Farm, Neco	3850'	4400'		HP 1172-1161# Limestone. DST. Rec. 300' salt water cut mud and 2929' salt water. FP 976-1406# SIP 1470-1469# FP 2975#	3450'	4400'
Miss. Redwall	4400'	4500'		Limestone. DST. Rec. 120' mud. SIP 1304-1156# FP 106-112#	4500'	4500'
					4580'	4630'
					4630'	T.D.

Form 9-331
(May 1963)

4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.
G. LEASE DENOMINATION AND SERIAL NO.
AR-035875

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 Wildcat - Dry Hole

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 1714, Durango, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1980' FNL 1980' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, CR, etc.)
6852' GR

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal "2"

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
Sec. 4-T10N-R24E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

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 (Other) <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.)

T.D. 4657'. P.&A. as follows: Set plugs 4350-4445' w/ 50 sx., 3800-3900' w/ 50 sx., 3400-3500' w/ 50 sx. and 1700-1800' w/ 50 sx. Cut off surface casing at ground level. Weld plate over hole. Install dry hole marker and clean location. Well P.&A. 1-2-67.

Note: Mr. Phil McGrath, Manager of U.S.G.S. in Farmington, verbally approved plugging by telephone w/ Leon Bergstrom, Tenneco.



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

SIGNED Harold C. Nichols TITLE Senior Production Clerk DATE January 25, 1967

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

3-U.S.G.S.-Farmington, N.M.
2-Arizona O.&G.C.C.-Phoenix, Ariz.
1-File

*See Instructions on Reverse Side

CONFIDENTIAL

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Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DENOMINATION AND SERIAL NO.

AR-035875

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal "B"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 4-T10N-R24E

12. COUNTY OR PARISH 13. STATE

Apache

Arizona

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 Wildcat - Dry Hole

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 1714, Durango, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' FNL 1980' FEL

14. PERMIT NO. 15. ELEVATIONS (Show whether OF, ST, OR, etc.)
6852' GR

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.)*

T.D. 4657'. P.&A. as follows: Set plugs 4350-4445' w/ 50 sx., 3800-3900' w/ 50 sx., 3400-3500' w/ 50 sx. and 1700-1800' w/ 50 sx. Cut off surface casing at ground level. Weld plate over hole. Install dry hole marker and clean location. Well P.&A. 1-2-67.

Note: Mr. Phil McGrath, Manager of U.S.G.S. in Farmington, verbally approved plugging by telephone w/ Leon Bergstrom, Tenneco.



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

SIGNED Harold C. Nichols TITLE Senior Production Clerk DATE January 25, 1967

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:
3-U.S.G.S.-Farmington, N.M.
2-Arizona O.&G.C.C.-Phoenix, Ariz.
1-File

*See Instructions on Reverse Side

CONFIDENTIAL

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN ORIGINAL
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DENOMINATION AND SERIAL NO.

AR-035875

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal "B"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 4-T10N-R24E

12. COUNTY OR PARISH 13. STATE

Apache Arizona

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 Wildcat - Dry Hole

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 1714, Durango, Colorado

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

1980' FNL 1980' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DV, ST, GR, etc.)

6852' GR

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

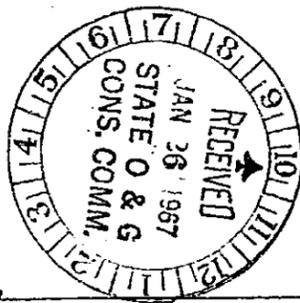
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>		
CHANGE PLANS	<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.)*

T.D. 4657'. We plan to P.&A. as follows: Set plugs 4350-4445' w/ 50 sx., 3800-3900' w/ 50 sx., 3400-3500' w/ 50 sx. and 1700-1800' w/ 50 sx. Cut off surface casing at ground level. Weld plate over hole. Install dry hole marker and clean location. Well P.&A. 1-2-67.

Note: Mr. Phil McGrath, Manager of U.S.G.S. in Farmington, verbally approved plugging by telephone w/ Leon Bergstrom, Tenneco.



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

SIGNED Harold C. Nichols

TITLE Senior Production Clerk

DATE January 25, 1967

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

3-USGS-Farmington, N.M.

2-Arizona O.&G.C.C.-Phoenix, Ariz.

1-File

*See Instructions on Reverse Side

CONFIDENTIAL

6
 SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Tenneco Oil Company
 2. OIL WELL GAS WELL OTHER (Specify) Wildcat
 3. Well Name Federal "B" #1 AR-035875
 Location 1980' FNL 1980' FEL
 Sec. 4 Twp. 10N Rge. 24E County Apache, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease AR-035875
 5. Field or Pool Name Wildcat (Holbrook Area)

6. 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 checked="" type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>
(OTHER) <input type="checkbox"/>		(OTHER) <input type="checkbox"/>	

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

7. 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.)

Spud 11-25-66. Drill to 45'. Ran 16" conductor pipe set at 45' w/ 125 sx. cement. Cement circulated. W.O.C. Drilled to 1144'. Recemented conductor pipe w/ 200 sx. W.O.C. Drilled to 1755'. Ran Dual Induction and GR Neutron logs. Ran 8-5/8" 24# casing set at 1751' w/ 700 sx. cement. Cement circulated. W.O.C. Now drilling ahead.

I hereby certify that the foregoing is true and correct.

Signed

Harold C. Nichols
 Harold C. Nichols

Title Sr. Production Clerk Date January 11, 1967

CONFIDENTIAL

Release Date _____
 Permit No. _____

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25

2-Arizona O. & G. Comm.
 1-File

7 From the Desk of

JAMES R. SCURLOCK

Visited location 12-2-66. Drilling
at 1100'



Tenneco #1 Fed. B

Telephone : 12-28-66 : TD 4657 '
have Logged. Testing.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

APPLICATION TO DRILL DEEPEN PLUG BACK RE-ENTER OLD WELL

NAME OF COMPANY OR OPERATOR

DATE November 21, 1966

Tenneco Oil Company

Address

City

State

Box 1714

Durango

Colorado 81301

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number or name of lessor, if fee lease	Well number	Elevation (ground)
Federal "B"	1	6852' GR
Well location and acreage dedicated to the well (give footage from section lines)		Section—township—range or block & survey
1980' FNL 1980' FEL. (S1/2 NE1/4)		Sec. 4-T10N-R24E
Field & reservoir (If wildcat, so state)	County	
Wildcat	Apache, Arizona	

Distance, in miles, and direction from nearest town or post office

Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling completed or applied—for well on the same lease:
1980 feet	None - Wildcat feet

Proposed depth:	Rotary or cable tools	Approx. date work will start
5350'	Rotary	November 25, 1966

Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:
2541.61	None - Wildcat

If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address

Status and amount of bond	Organization Report	Filing Fee of \$25.00
In Force	On file Or attached	Attached No*

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

We plan to drill to approximate T.D. 5350'. Log. Perforate and frac and complete as an oil well if productive. Run casing as shown on reverse side. Install lift equipment and conduct potential tests. Logs: GRD, GRN, GR Induction Laterlog.

*Note: Please transfer permit number 370 from Rhode State #1, which will not be drilled, to this well.

CONFIDENTIAL

*Fill in Proposed Casing Program on reverse side (over)

Release Date

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Senior Production Clerk of the

Tenneco Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Note: This well will be drilled instead of the Rhode State #1, Permit #370.

Harold C. Nichols
Signature Harold C. Nichols

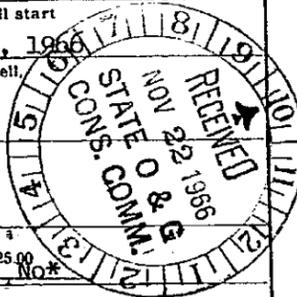
November 21, 1966
Date

Permit Number: 370 (Old Rhode State #1)
Approval Date: October 21, 1966 11-23-66
Approved By: *John J. Amstutz*

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
See Instruction on Reverse Side of Form

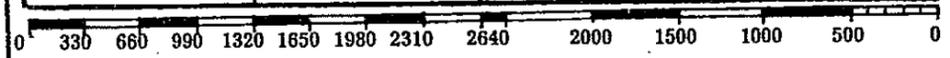
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill, Deepen or Plug Back and Plat
File Two Copies

Form No. 3



- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES NO If answer is "yes," Type of Consolidation _____
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description
See Attached Plat	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p><i>Harold C. Nichols</i></p> <p>Name Harold C. Nichols</p> <p>Position Senior Production Clerk</p> <p>Company Tenneco Oil Company</p> <p>Date November 21, 1966</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed _____</p> <p>Registered Professional Engineer and/or Land Surveyor</p> <p>Certificate No. _____</p>



PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
10-3/4"	32#	J-55	0	1300'	1300'	Cement to surface.
4-1/2"	10.5#	J-55	0	5350'	5350'	Cement w/ sufficient volume to bring top of cement 200' above uppermost productive zone.

COMPANY TENNECO OIL COMPANY

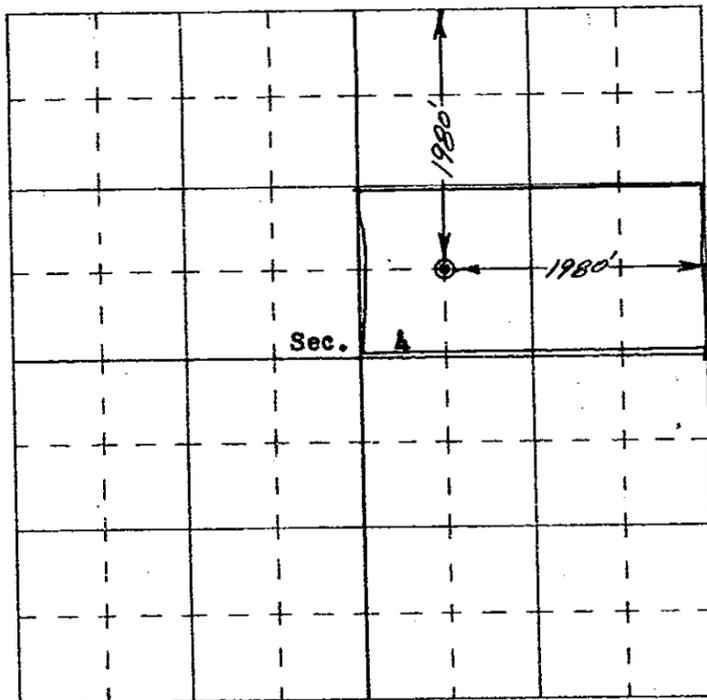
Well Name & No. FEDERAL B-1 Lease No. _____

Location 1980' FROM THE NORTH LINE & 1980' FROM THE EAST LINE

Being in Center SW NE

Sec. 4, T10 N., R. 24 East, G & SRM, Apache County, Arizona

Ground Elevation 6852' ungraded



Scale - 4 inches equals 1 mile

Surveyed 18 November 1966, 19____

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 Professional
Engineer and Land Surveyor.
Robert H. Ernst
Colo. PE & LS 4979
N. Mex. PE & LS 2463

Ernst Engineering Co.
Durango, Colorado

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

APPLICATION TO DRILL DEEPEN PLUG BACK RE-ENTER OLD WELL

NAME OF COMPANY OR OPERATOR

DATE October 17, 1966

Tenneco Oil Company
 Address P. O. Box 1714 City Durango State Colorado 81301

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number or name of lessor, if fee lease Well number Elevation (ground)
 Rhode State 1 6864' GR

Well location and acreage dedicated to the well (give footage from section lines) Section—township—range or block & survey
 1980' ENL, 660' FWL, Section 2, T-10-N, R-24-E

Field & reservoir (if wildcat, so state) County
 Wildcat Apache County, Arizona

Distance, in miles, and direction from nearest town or post office

Nearest distance from proposed location to property or lease line: 660 feet
 Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: None feet

Proposed depth: 5350 Rotary or cable tools Rotary Approx. date work will start October 20, 1966

Number of acres in lease: 322.82 Number of wells on lease, including this well, completed in or drilling to this reservoir: None Wildcats

If lease, purchased with one or more wells drilled, from whom purchased: Name Address

Status and amount of bond In Force Organization Report On file Or attached Filing Fee of \$25.00 Attached Yes

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

We plan to drill to approximate T.D. of 5350 ft. Log, perforate and frac and complete as an oil well if productive. Run casing as shown on reverse side. Install lift equipment and conduct potential tests.

Logs: GRD, GRN, GR Induction Laterlog.



*Fill in Proposed Casing Program on reverse side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Senior Production Clerk of the Tenneco Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature Harold C. Nichols

Date October 17, 1966

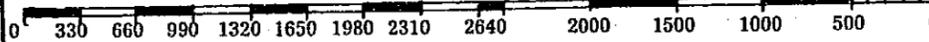
Permit Number: 370
 Approval Date: 10-21-66
 Approved By: John V. Gannister
 Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
 See Instruction on Reverse Side of Form

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Drill, Deepen or Plug Back and Plat
 File Two Copies

Form No. 3

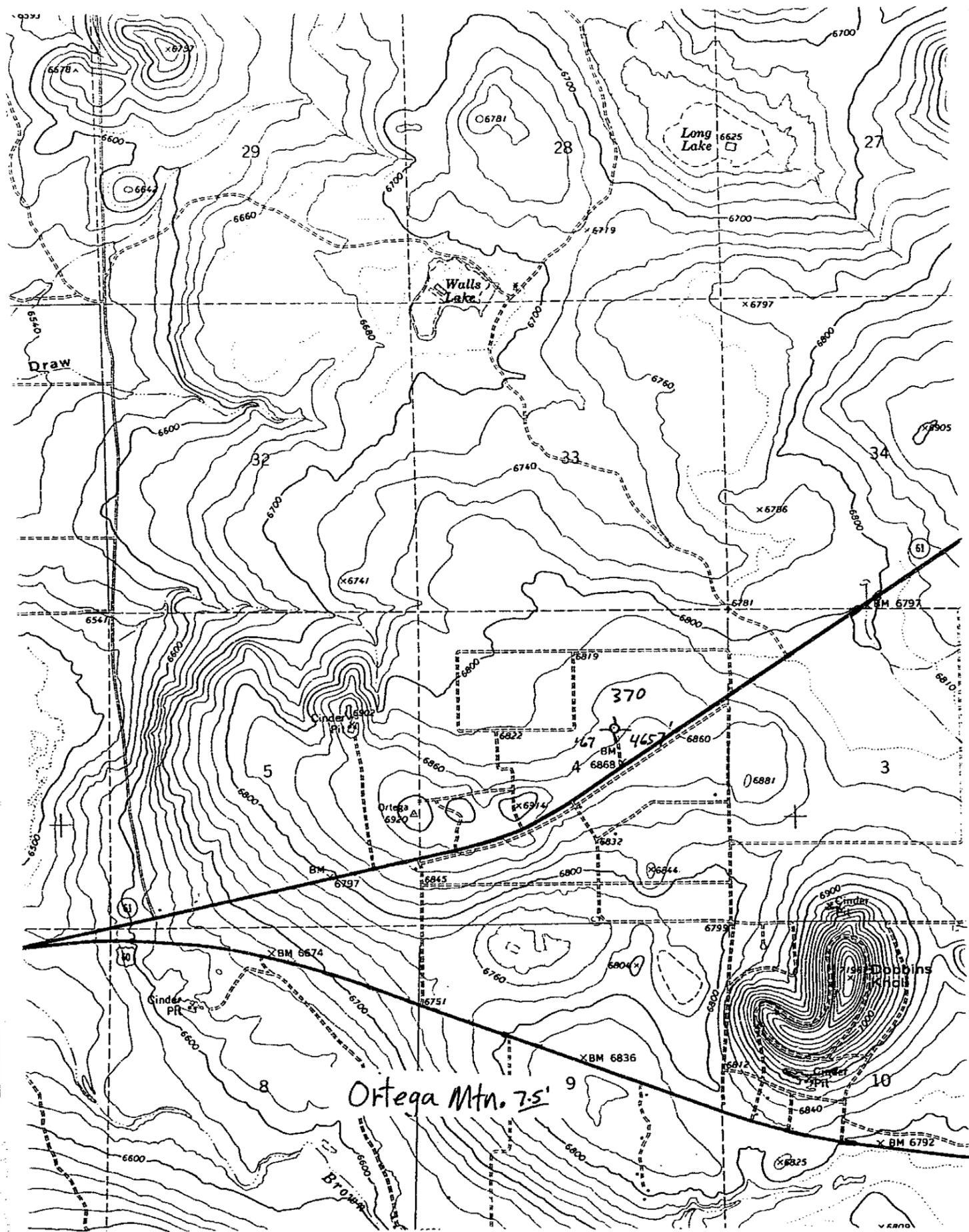
1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO
5. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES NO If answer is "yes," Type of Consolidation _____
6. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description
SEE ATTACHED PLAT	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name _____</p> <p>Position _____</p> <p>Company _____</p> <p>Date _____</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed _____</p> <p>Registered Professional Engineer and/or Land Surveyor _____</p> <p>Certificate No. _____</p>



PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8-5/8	24#	J-55	0	1300'	1300'	Cement to surface
4-1/2	10.5#	J-55	0	5350'	5350'	Cement with sufficient volume to bring top of cement 200' above upper most productive zone.





PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: TENNECO OIL COMPANY
(OPERATOR)

to drill a well to be known as

TENNECO OIL #1 ~~ARIZONA STATE~~ *Federal B*
(WELL NAME)

located 1980' FNL and ~~200' FNL~~ *1980' FEL* (SW/4NE/4)

Section 24 Township 10N Range 24E, Apache County, Arizona.

The W/2 NW/4 of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 21 day of October, 19 66.

*Relocated 11-26-66
Approved*

OIL AND GAS CONSERVATION COMMISSION
By John Bunnister
EXECUTIVE SECRETARY

PERMIT N^o 370

RECEIPT NO. 9465

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

COMPANY TENNECO OIL COMPANY

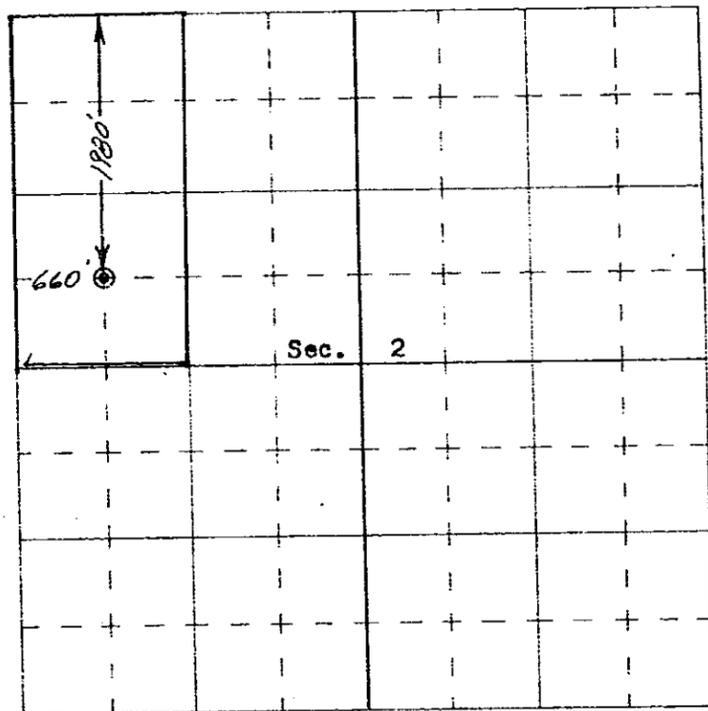
Well Name & No. RHODE STATE No. 1 Lease No. _____

Location 1980' FROM THE NORTH LINE & 660' FROM THE WEST LINE

Being in CENTER SW NW

Sec. 2, T 10N., R. 24 E, G & S R M, Apache County, Arizona

Ground Elevation 6864' ungraded

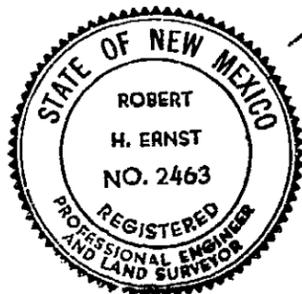


Scale - 4 inches equals 1 mile

Surveyed 12 October, 19 66

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:



Ernst Engineering Co.
Durango, Colorado

Robert H. Ernst

Registered Professional
Engineer and Land Surveyor.
Robert H. Ernst
Colo. PE & LS 4979
N. Mex. PE & LS 2463

Operator TENNECO OIL COMPANY

Bond Company U.S. Fidelity & Guaranty Co. Amount \$25,000

Bond No. 68214-13-1361-66 Date Approved 10-21-66

Permits covered by this bond:

- 368 *see this file*
- 369
- 370
- 371
- _____
- _____
- _____
- _____
- _____
- _____

CANCELLED

DATE 1-29-68

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

320



UNITED STATES FIDELITY AND GUARANTY COMPANY
 3401 FANNIN STREET, P. O. BOX 8426
 HOUSTON, TEXAS 77004
 TELEPHONE: 713/JACKSON 6-1551
 ELWOOD W. PIERCE
 MANAGER

JOHN F. ROUGAGNAC
 ASSISTANT MANAGER

January 25, 1968

JOSEPH S. KNIGHT
 SUPERINTENDENT - CLAIMS

Oil & Gas Conservation
 Commission
 State of Arizona
 Phoenix, Arizona

NOTICE OF CANCELLATION

RE: 68214-13-1361-66 - Tenneco Oil Company

Whereas on or about the 20 day of October, 1966 United States
 Fidelity and Guaranty Company, as Surety, executed Blanket Oil
 Well Bond in the penalty of \$25,000.00

on behalf of Tenneco Oil Company

in favor of State of Arizona

Bond No. 68214-13-1361-66, and:

Whereas it is our desire to cancel said bond in accordance with the
 terms thereof.

Signed, sealed this 25 day of January, 19.68.

UNITED STATES FIDELITY AND GUARANTY COMPANY

BY: *Alfreda Mills*
 Attorney-in-Fact
 ACKNOWLEDGMENT

United States Fidelity and Guaranty Company
 Houston, Texas

Your Notice of Cancellation as set forth above received. We have
 arranged to cancel said bond effective:

Date: 1-29-68

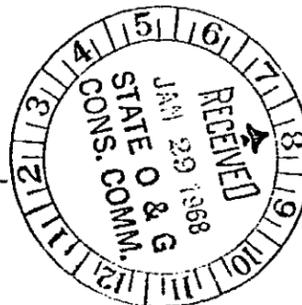
PLEASE COMPLETE THE ACKNOWLEDGMENT AND RETURN ONE COPY TO US.

cc: Ms. Virginia Hilley
 George Bruce & Co.
 Houston, Texas

Executive Secretary

OIL & GAS CONSERVATION COMMISSION
 STATE OF ARIZONA
 1824 WEST ADAMS - SUITE 202
 TELEPHONE: 271-5181
 PHOENIX, ARIZONA, 85007

U. S. F. & G.



March 23, 1967

Tenneco Oil Company
P.O. Box 1714
Durango, Colorado 81302

Attention: Mr. Robert E. Siverson, District Production Supt.

Gentlemen:

In order to complete our files on the wells recently drilled by you in Arizona in compliance with this Commission's Rules and Regulations, we are showing below the information yet to be submitted.

Tenneco #1X Ft. Apache 56
NE SE 31-10-21E, Navajo County Arizona
Permit 368

Logs: GRN and GRD

Tenneco #1 Federal C
NW NW 15-10N-19E, Navajo County, Arizona
Permit 369

Water well forms

Tenneco #1 Federal B
SW NE 4-10N-24E, Apache County, Arizona
Permit 370

Logs: GRN and GRD

Tenneco #1 Merrill Fee
SW SW 26-10N-30E, Apache County, Arizona
Permit 371

Water well forms

371

1-54-
Tenneco Oil Company
March 23, 1967
Page 2

Tenneco #1 Federal A
SE SE 18-12N-17E, Navajo County, Arizona
Permit 374

Well Completion Report, on this Commission's form
Logs: Dual Induction, GRD

Tenneco Federal C
SE NW 22-11N-28E, Apache County
Permit 375

Logs: Dual Induction, Sidewall Neutron Porosity, Compensated
Formation Density

In addition, we also remind you that samples from all the wells
must be furnished. As previously advised, these can be de-
livered to Four Corners Sample Cut, Farmington, New Mexico, or to
this office.

If you have any questions, or if this office may be of help to
you in any way we may, please let us know. Your cooperation
is very much appreciated.

Very truly yours,

John Bannister
Executive Secretary

mr

enc: Form 4, Well Completion Report
Form 26, Water Well Acceptance

370

January 17, 1967

Tenneco Oil Company
P.O. Box 1714
Durango, Colorado 81301

Attention: Mr. Bob Siverson

Re: Tenneco Oil #1 Federal B
SW NE 4-10N-24E, Apache County, Arizona
Permit 370

Gentlemen:

Sundry report of January 11, 1967 states captioned well "Now drilling ahead." Other sources indicate this well was plugged and abandoned approximately December 29, 1966.

Your attention is directed to Rules 201 and 119. Should this well in actuality be plugged and abandoned, you must bring it into compliance with our Rules and Regulations.

Your earliest cooperations is requested.

Very truly yours,

John Bannister
Executive Secretary
mr

370

January 6, 1967

Tenneco Oil Company
P.O. Box 1714
Durango, Colorado 81301

Attention: Mr. Bob Siverson

Re: Tenneco Oil #1 Federal B
SW NE 4-10N-24E, Apache County, Arizona
Permit 370

Gentlemen:

It is our understanding that captioned well has been plugged and abandoned.

As we have indicated, this Commission should be kept currently informed as to the operations on any well drilling within the State of Arizona. For your convenience in reporting wells drilling on Federal leases, we will accept copies of your reports to U.S. Geological Survey.

However, when a well is completed we do require that our Well Completion Report form be submitted. As we have advised previously, the Well Completion Report, together with samples, copies of logs, etc., should be submitted within 60 days of completion of the well. We do appreciate receiving this information, however, as soon as possible.

All of your wells are being kept confidential by this Commission and will remain so for the statutory period, i.e. six months from date of completion.

At your earliest convenience would you please submit the reports to reflect the current status of captioned well.

Should you have any questions, will you please advise.

Very truly yours,

John Bannister
Executive Secretary
mr
enc (Form 25, 9, 10, 4)

370

January 3, 1967

Mr. John Bannister
Oil and Gas Conservation Commission
State of Arizona
Room 302
1624 West Adams
Phoenix, Arizona 85007

Dear Mr. Bannister:

Please keep all information confidential for six months on
the following "tight" wells:

Federal "B" No. 1
1980' PNL, 1980' FEL
Section 4, T-10-N, R-24-E
Apache County, Arizona
Permit No. 370

Artec Land No. 1
400' FSL, 1255' FEL
Section 31, T-12-N, R-19-E
Navajo County, Arizona
Permit No. 375

Very truly yours,

TENNECO OIL COMPANY

Don B. Brown 370
Don B. Brown
District Exploration Superintendent

HCH:hes



November 23, 1966

Tenneco Oil Company
P.O. Box 1714
Durango, Colorado 81301

Attention: Mr. J.H. Watkins, District Office Supervisor

Re: Tenneco Oil #1X Fort Apache 56
NE SE 31-10N-21E, Navajo County, Arizona
Permit 368

Tenneco Oil #1 Federal B
SW NE 4-10N-24E, Apache County, Arizona
Permit 370

Gentlemen:

With respect to the #1X Fort Apache well, in order to complete our records we need a Well Completion Report (on our form attached). And since the top of the well is unplugged for the Indians to use as a water well, we are enclosing our water well acceptance form which should be completed and returned to this office.

Copies of all logs run should also be forwarded to this office. In addition, would you please advise as to the disposition of samples on both the #1 and #1X Fort Apache holes.

We have revised our records and permit to show the change in location under Permit 370. Approved application for this change of location is attached. Will you please advise us of the Federal lease number on which this new location will be drilled. 370

Very truly yours,

John Bannister
Executive Secretary
mr
enc

October 21, 1966

Tenneco Oil Company
P.O. Box 1714
Durango, Colorado 81301

Attention: Mr. J.M. Watkins, District Office Supervisor

Re: Tenneco Oil #1 Fort Apache 56
NE SE 31-10N-21E, Navajo County, Arizona
Permit 368

Tenneco Oil #1 Federal
NWNW 15-10-19E, Navajo County, Arizona
Permit 369

Tenneco Oil #1 Rhode State
SW SW 2-10N-24E, Apache County, Arizona
Permit 370

Tenneco Oil #1 Merrill Pee
SW SW 26-10N-30E, Apache County, Arizona
Permit 371

Gentlemen:

Enclosed are approved copies of Applications to Drill, Permits
to Drill, and Receipt 9465 for the filing fees.

If this office may assist you in any way, please let us know.

Very truly yours,

John Hannister
Executive Secretary
MR
enc

370



TENNECO OIL COMPANY • P. O. BOX 1714 • 835 SECOND AVENUE • DURANGO, COLORADO 81302

October 20, 1966

Oil and Gas Conservation Commission
State of Arizona
Suite 202
1624 West Adams Street
Phoenix, Arizona 85007

Attention: John Banister

Gentlemen:

In line with our conversation this date, this letter is to confirm that we desire to keep all information confidential on the below listed wells:

Rhode State No. 1
Section 2, T-10-N, R-24-E

Merrill No. 1
Section 26, T-10-N, R-30-E

Federal No. 1
Section 15, T-10-N, R-19-E

Fort Apache Tract 56 No. 1
Section 31, T-10-N, R-21-E

Very truly yours,

TENNECO OIL COMPANY


John H. Watkins
District Office Supervisor

370

JHW:hes

CC: D. B. Brown

October 18, 1966

Tenneco Oil Company
P.O. Box 1714
Durango, Colorado 81301

Attention: Mr. Harold C. Nichols, Senior Production Clerk

Re: Tenneco Oil #1 Rhoda State ⁸⁸²³
³⁷⁰ SW NW 2-10N-24E, Apache County, Arizona

Tenneco Oil #1 Merrill Fee ^{OK}
³⁷¹ SW SW 26-10N-30E, Apache County, Arizona

Tenneco Oil #1 Federal ^{AR-DB5869}
³⁶⁹ NW NW 15-10N-19E, Navajo County, Arizona

Tenneco Oil #1 Fort Apache 56 ^{1A 20-D450-5914}
³⁶⁸ NE SE 31-10N-21E, Navajo County, Arizona

Gentlemen:

This will acknowledge receipt of your applications for permits to drill the four captioned wells.

Please be advised that before we may issue the permits to drill these wells we must have furnished to this Commission a bond in the amount of \$5,000 for each well, or in lieu thereof, a \$25,000 state-wide blanket bond. We would refer you to our Rule 101 as to our bonding requirements..

Would you also please furnish this office with an up-to-date Organization Report. Copies of this form are attached.

Would you please also furnish to this Commission the Federal, State, and Indian lease numbers upon which you are drilling these wells. We are assuming that your #1 Merrill is a fee lease held by Tenneco.

Would you also advise the name of your drilling contractor.

Young & Co. - Farmington

*Tight
per Wilkins telegram 10-22-66
(303) 247-5494*

370

Tenneco Oil Company
October 18, 1966
Page 2

We will proceed with the processing of these applications, but as aforesaid, permits cannot be issued until the above requirements are met.

Please be assured of our cooperation and best wishes.

Very truly yours,

John Bannister
Executive Secretary
nr
enc

370