

Release Date 7-11-67

CONFIDENTIAL

P-W



Tenneco Oil #1 Federal-A 374
SESE 18-12N-17E Navajo County

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 P. O. Box 1714, Durango, Colorado 81301	
Federal, State or Indian Lease Number or name of lessor if fee lease AR-035858		Well Number 1	Field & Reservoir Wildcat
Location Sec. 18, T-12-N, R-17-E		County Navajo	
Sec. TWP-Range or Block & Survey 660 FSL, 660 FEL			
Date 1/5/67	Date total depth reached 1/9/67	Date completed, ready to produce P&A L/11/67	Elevation (DF, RKB, RT or Gr.) 6686 Gr. feet
Total depth 1700	P.B.T.D. P&A Dry hole	Single, dual or triple completion? ---	Elevation of casing hd. flange --- feet
Producing interval (s) for this completion Dry Hole		Rotary tools used (interval) 0-1700	Cable tools used (interval) ---
Was this well directionally drilled? Yes	Was directional survey made? Yes	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, Gamma Ray Density, Dual Induction Laterlog			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.	12-1/4" & reamed	13-3/8	32#	41'	150 sx	None

TUBING RECORD

LINER RECORD

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

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
		DST 1393-1469		Dry Hole

INITIAL PRODUCTION

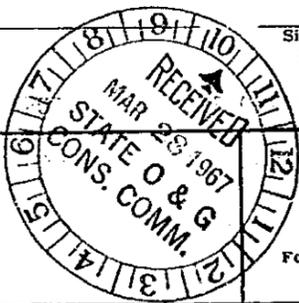
Date of first production Dry Hole	Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) Dry Hole					
Date of test Dry Hole	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	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 March 27, 1967

Signature [Signature]



STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
File One Copy

Permit No. **374**

Form No. 4

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Coconino	258	830	Fresh water sandstone
Ft. Apache	1322	1502	Salt water limestone DST: Rec. 660' salt water. FP 231-301 SIP 300-301 HP 755-739

* 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 driller's 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO. **AR-035858**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME **Federal "A"**

9. WELL NO. **1**

10. FIELD AND POOL, OR WILDCAT **Wildcat-Heber Area**

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA **Sec. 18-T12N-R17E**

12. COUNTY OR PARISH **Navajo**

13. STATE **Arizona**

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED **1-5-67**

16. DATE T.D. REACHED **1-9-67**

17. DATE COMPL. (Ready to prod.) **P.&A. 1-11-67**

18. ELEVATIONS (DP, RKB, RT, OR, ETC.)* **6686' GR**

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **1700'**

21. PLUG, BACK T.D., MD & TVD **P.&A. - Dry Hole**

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DEILLED BY **0-1700'**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* **Dry Hole**

25. WAS DIRECTIONAL SURVEY MADE **Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN **Gamma Ray Neutron, Gamma Ray Density, Dual Induction Laterolog**

27. WAS WELL CORED **No**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	32#	41'	12-1/4" & Reamed	150 sz.	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	Dry Hole	

31. PERFORATION RECORD (Interval, size and number) **None - Dry Hole. DST 1393-1469'.**

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Dry Hole	

33. PRODUCTION

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

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

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

35. LIST OF ATTACHMENTS

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

SIGNED **Harold C. Nichols** TITLE **Senior Production Clerk** DATE **February 6, 1967**

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3-UGGS-Farmington, N.M.
2-AOMGCC-Phoenix, Ariz.

1-File

CONFIDENTIAL



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 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 35.

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

FORMATION		TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
NAME	ELEVATION	ELEVATION	ELEVATION	DESCRIPTION	MEAS. DEPTH	TRUE VERT. DEPTH
Coconino	258'	830'	830'	Fresh water sandstone	258'	830'
Ft. Apache	1322'	1502'	1502'	Salt water limestone DST. Rec. 660' salt water. FP 231-301# SIP 300-301# HP 753-759# DST 1343-1469	830' 1322' 1502' T.D.	830' 1322' 1502' T.D.

Telephone 1-9-67

Set 31' surface cog.
TD 1700' (through
Ht. Apache)

- Logging

Visited loc 1-10-66 prep to test.

DST Ht. Apache : fresh wtk

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN APPLICATION
(Other instructions on reverse side)

Form approved,
Budget Bureau No. 42-R1421.

5. LEASE DESIGNATION AND SERIAL NO.

AR-035858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal "A"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat-Heber Area

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

Sec. 18-T12N-R17E

12. COUNTY OR PARISH, 13. STATE

Navajo 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

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

660' FSL 660' FEL

14. PERMIT NO.

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

6686' GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

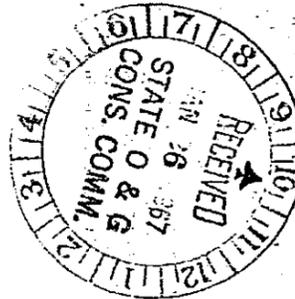
ABANDONMENT*

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

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

P.&A. as follows: Set plugs 1250-1500' w/ 70 sx. and 830-930' w/ 50 sx. Dry hole marker installed. Welded cap on surface casing. Well to be left for water well.

Note: Mr. Phil McGrath, U.S.G.S. manager, Farmington, notified by telephone.



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-USGS-Farmington, N.M.
2-Ariz. O.G.C.C.-Phoenix
1-File

*See Instructions on Reverse Side

CONFIDENTIAL

374

Form 9-531
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Wildcat	5. LEASE DESIGNATION AND SERIAL NO. AR-035858
2. NAME OF OPERATOR Tenneco Oil Company	6. IF INDIAN, ALIQUOT OR TRIBE NAME
3. ADDRESS OF OPERATOR Box 1714, Durango, Colorado	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FSL 660' FEL	8. FARM OR LEASE NAME Federal "A"
14. PERMIT NO.	9. WELL NO. 1
15. ELEVATIONS (Show whether DF, WT, GR, etc.) 6686' GR	10. FIELD AND POOL, OR WILDCAT Wildcat-Heber Area
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 18-T12N-R17E
	12. COUNTY OR PARISH 13. STATE Navajo Arizona

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

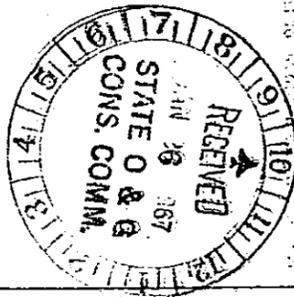
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>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

Well to be P.&A. as follows: Set plugs 1250-1500' w/ 70 sx. and 830-930' w/ 50 sx. Dry hole marker installed. Weld cap on surface casing. Well to be left for water well.

Note: Mr. Phil McGrath, U.S.G.S. manager, Farmington, notified by telephone.



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-USGS-Farmington, N.M.
2-Arizona O.&G.C.C.-Phoenix, Ariz.
1-File *See Instructions on Reverse Side **CONFIDENTIAL**

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS DATE*
(Other instructions on reverse side)

Form Approved
Budget Bureau No. 42 R1421
5. LEASE DESIGNATION AND SERIAL NO.

AR-035858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER Wildcat

2. NAME OF OPERATOR

Domoco 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

660' FSL 660' FEL

14. PERMIT NO.

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

6686' GR

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal "A"

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Wildcat-Heber Area

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

Sec. 18-T12N-R17E

12. COUNTY OR PARISH; 13. STATE

Navajo

Arizona

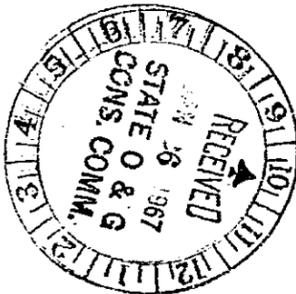
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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 checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE 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.)

Spud 1-5-67. Drill to 41'. Ran 13-3/8" casing set at 41' w/ 150 sx. Cement circulated. W.O.C. Drilled to T.D. 1700' on 1-9-67. Logged. Ran DST 1393-1469'. P.&A. 1-11-67. Released rig.



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

*See Instructions on Reverse Side

CONFIDENTIAL

#374

12



Young Delq. Co. moving in on
Tenneco #1 Federal A
About 2 miles E. Heber.

JAN 4, 1967 : moving in.

374

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

Tenneco Oil Company

Address

City

State

P. O. 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 "A" #1 AR-035858	1	6686 Gr.

Well location and acreage dedicated to the well (give footage from section lines) Section--township--range or block & survey
660 ESL 660 FEL Section 18, T. 12 N., R. 17 E.

Field & reservoir (If wildcat, so state)	County
Wildcat - Heber Area	Navajo

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:
660 feet	None - Wildcat feet

Proposed depth:	Rotary or cable tools	Approx. date work will start
1600'	Rotary	December 26, 1966

Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:
2541.61 80 acres dedicated S/2 SE/4	None - Wildcat

If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
	None	

Status and amount of bond	Organization Report	Filing Fee of \$25.00
In force	On file On file Or attached	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 TD of 1600'. Run GRI, GRD and GRS logs. Run casing shown on reverse side. Complete as a single oil well. Install lift equipment if productive. Run 2 3/8" tubing and conduct potential test.

*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.

Harold C. Nichols
Signature

CONFIDENTIAL W I L D C A T

12/12/66

Date

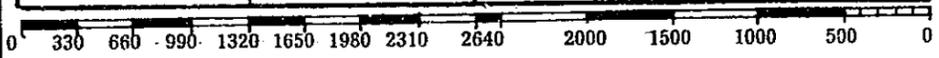
Permit Number: **374**
 Approval Date: **12-17-66**
 Approved By: *John J. Ammeter*
 Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
 See instruction on Reverse Side of Form

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	890'	890'	Cement to surface Cement w/volume to cover 200' above uppermost zone.
4 1/2"	10.5#	J-55	0	1600'	1600'	



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 Federal A
(WELL NAME)

located 660' FSL and FEL (SE SE)

Section 18 Township 12N Range 17E, Navajo County, Arizona.

The S/2 SE/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 15th day of December, 19 66.

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL
YOU MUST BE IN FULL COMPLIANCE WITH RULE
105, SECTION A THRU G (S.W.C.M.G.) WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

OIL AND GAS CONSERVATION COMMISSION

By John V. Bennett
EXECUTIVE SECRETARY

PERMIT No 374

RECEIPT NO. 9468

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

COMPANY TENNECO OIL COMPANY

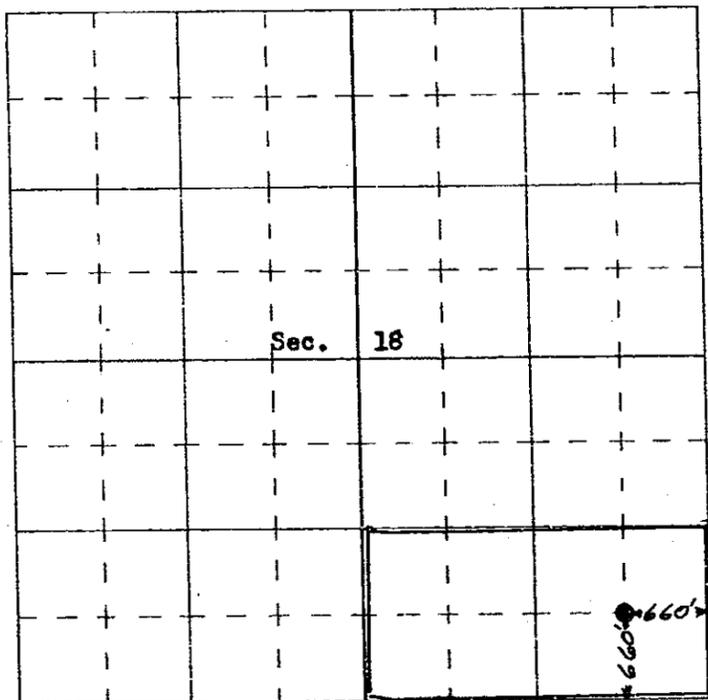
Well Name & No. FEDERAL A-1 Lease No. _____

Location 660 FEET FROM THE SOUTH LINE & 660 FEET FROM THE EAST LINE

Being in center SE SE

Sec. 18, T. 12 N., R. 17E, G & SRM, Navajo County, Arizona

Ground Elevation 6686' ungraded



Scale -- 4 inches equals 1 mile

Surveyed 9 December 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:

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





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

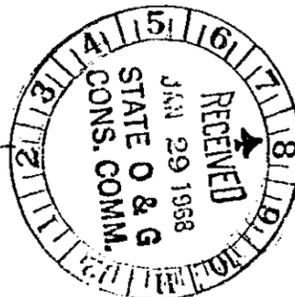
PLEASE COMPLETE THE ACKNOWLEDGMENT AND RETURN ONE COPY TO US.

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

Executive Secretary

OIL & GAS CONSERVATION COMMISSION
 STATE OF ARIZONA
 1624 WEST ADAMS - SUITE 202
 TELEPHONE: 271-5161
 PHOENIX, ARIZONA, 85007

U. S. F. & G.



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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

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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

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February 6, 1967

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

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

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

Gentlemen:

This office was advised by Mr. Bergstrom of your company on this date that captioned well was completed February 5, 1967 and that it is the intention of the company to turn over this well as a water well to the land owner.

Verbal permission was given that cement plugs be set from 1390 - to 1490 feet, and that a 100 foot plug be set from 700-600 feet. This will effectively plug off the Fort Apache and Supai formations.

In order to complete our files we are enclosing our Application to Plug, Plugging Record, and Well Completion Report, together with a water well acceptance form, which should be filed with this office at your earliest convenience.

We request that the dates for submission of these reports as well as copies of logs and samples be watched. If you have any questions will you please advise.

Also, we are enclosing water well acceptance forms to cover the #1 Federal A well, SE SE 18-12N-17E, Navajo County, Arizona. These should be signed by the cognizant agent and returned to this office as soon as possible.

Very truly yours,

John Bannister
Executive Secretary
MB
enc

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January 17, 1967

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

Attention: Mr. Bob Siverson

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

Gentlemen:

It is our understanding that captioned well was plugged and abandoned approximately January 11, 1967.

As has been pointed out to you previously, this Commission must be kept currently informed as to the operations on any well drilling within the State of Arizona.

At your earliest convenience, will you please forward copies of sundry reports showing spud date and any other reports indicating the progress of your operations.

I would call your attention to Rule 201.B which states the operator shall notify this Commission prior to commencing plugging operations. At your earliest convenience will you please forward Application to Plug. The Plugging Record of course is to be filed within 30 days after plugging is completed.

Well Completion Reports and copies of all logs shall be filed within 90 days after completion. Samples of course must be submitted within six months from date of completion." (Rule 119)

Tenneco Oil Company
January 17, 1967
Page 2

So as not to burden you unduly in keeping us currently informed, we will accept copies of your reports to U.S. Geological Survey. Well Completion Reports, however, shall be on our form.

Your cooperation is appreciated.

Very truly yours,

John Bannister
Executive Secretary
mr
enc

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December 15, 1966

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

Attention: Mr. Harold C. Nichols

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

Gentlemen:

Enclosed is approved copy of Application to Drill, Permit
to Drill, and Receipt 9468 for filing fee, covering cap-
tioned well.

Very truly yours,

John Bannister
Executive Secretary
nr
enc

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