

CONFIDENTIAL
Release Date 8-6-67

P-1

TENNECO OIL #1 MERRILL
SW SW 26-10N-30E Apache Count 271

COUNTY Apache AREA Mogollon Rim LEASE NO. Fee

WELL NAME Tenneco Oil #1 Merrill

LOCATION SW SW SEC 26 TWP 10N RANGE 30E FOOTAGE 660' FSL & 660' FWL
 ELEV 6968 GR 6979 KB SPUD DATE 1-27-67 STATUS Am Strat TOTAL DEPTH 1577'
 → sec 7.5' Coyote Creek Quad. COMP. DATE 2-6-67 Am Strat 1585'
 CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
13 3/8	67'	145 SKS	NA	<input checked="" type="checkbox"/>
				DRILLED BY CABLE TOOL <input type="checkbox"/>
				PRODUCTIVE RESERVOIR <input type="checkbox"/>
				INITIAL PRODUCTION <u>Dry</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Moenkopi	Surface	X	X	
Kaibab	184'			
Coconino	518'			
Supai	752'			
Fort Apache	1446'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Comp. Formation Density	1400-1500'		Am Strat
Sidewall Neutron Porosity	700-800'		Farm Cut
Dual Induc. Laterlog			SAMPLE NO. <u>T-2064</u>
			CORE ANALYSIS
			DSTs

REMARKS Permit extended to 3-21-67 APP. TO PLUG
 PLUGGING REP.
 COMP. REPORT

WATER WELL ACCEPTED BY Della Merrill, Eagar, AZ

BOND CO. U. S. Fidelity & Guaranty BOND NO. 68214-13-1361-66
 BOND AMT. \$ 25,000 CANCELLED 1-29-68 DATE 10-20-66
 FILING RECEIPT 9465 LOC. PLAT WELL BOOK PLAT BOOK
 API NO. 02-001-05261 DATE ISSUED 10-22-66 DEDICATION W/2 SE/4

PERMIT NUMBER 371 (over) Release Date 8-6-67

CONFIDENTIAL

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			
Lease Name Merrill (Fee Lease)		Well Number 1	Field & Reservoir Wildcat (Antelope Valley)		
Location 660 FSL 660 FWL					Sec.—TWP-Range or Block & Survey Sec. 26-T10N-R30E
County Apache	Permit number 371	Date Issued	Previous permit number ± 7022'	Date Issued ± 7033'	
Date spudded 1-27-67	Date total depth reached 2-6-67	Date completed, ready to produce Dry 2-6-67	Elevation (DF, RKB, RT or Gr.) 6968' GR	Elevation of casing hd. flange 6968' feet	
Total depth 1577'	P.B.T.D. Dry P.&A.	Single, dual or triple completion? Dry		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) 0-1577'		Cable tools used (interval) 0	
Was this well directionally drilled? No	Was directional survey made? Yes	Was copy of directional survey filed? No	Date filed Dry hole		
Type of electrical or other logs run (check logs filed with the commission) Dual Ind. - Lat., Side wall neutron porosity, Comp. fm. density					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
Surface Csg	12 1/2" & Reamed	13 3/8	48#	67	145 sx	None

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
in.	ft.	ft.	in.	ft.	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	
None		Dry hole		None		Dry hole	
P & A	1400-1500	100sx cement					

700-800 100sx cement INITIAL PRODUCTION

Date of first production Dry hole P & A 2/6/67		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): Dry hole - No cores or tests!				
Date of test	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): Note: Well left for Merrill for use as water well.						

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 **2/8/67**



Signature **Harold C. Nichols**
Harold C. Nichols

CONFIDENTIAL

Permit #371

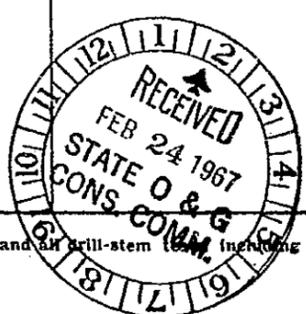
STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. P-7 File two copies

Sec 7.5' Coyote Creek Quad.

4.

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Triassic:			
Moenkopi	0	184	<u>Sandstone & Shale</u>
Permian			
Kaibab	184	518	<u>Limestone & Dolomite</u> Fresh water with slight show of non-flammable gas (probably CO ₂)
Coconino	518	752	<u>Sandstone</u> (Fresh water)
Supai Fm. Corduoy Mbr.	752	1446	<u>Sandstone, Siltstone, Limestone & Anhydrite</u>
Fort Apache Mbr. of Supai Fm.	1446	1540	<u>Dolomite</u> Slightly saline water
			NO CORES OR D.S.T.'S



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* 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.

2

La Merrill
Eagar Arizona

TO: Oil and Gas Conservation Commission
State of Arizona
1624 West Adams, Room 202
Phoenix, Arizona 85007

This is to advise you that I accept the abandoned wildcat well, known as the Tenneco Oil #1 Merrill Fee

located on the SW SW $\frac{1}{4}$ - $\frac{1}{4}$ of Section 26 Township 10N
Range 30E, County of Apache, Arizona, as
a water well to be used for domestic purposes.

Further, I accept full responsibility for the proper maintenance and use of the above well, including final plugging, in full compliance with the Rules and Regulations adopted by the Oil and Gas Conservation Commission.

I understand that I am responsible for compliance with the provisions of the State Water Code, Chapter 1, Title 45, Arizona Revised Statutes and with any applicable requirements of U.S. Geological Survey.

Signature Della Merrell

Street _____

City and State Eagar Ariz

STATE OF Arizona

COUNTY OF Maricopa

On this, the 8th day of May, 1967, before me
Vivian O. Skousen, the undersigned officer, per-

sonally appeared Della Merrell, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same for the purpose therein contained.

In witness whereof I hereunto set my hand and official seal.

Notary Public Vivian O. Skousen

My Commission expires My Commission Expires Aug. 14, 1970



Permit No. 371

State of Arizona
Oil & Gas Conservation Commission
WATER WELL ACCEPTANCE
Form 26 - File one copy

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5 SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Tenneco Oil Company, Box 1714, Durango, Colorado

2. OIL WELL GAS WELL OTHER (Specify) Wildcat

3. Well Name Merrill #1 (Fee Lease)

Location 660' FSL 660' FWL Elev.: 6968' GR ± 7022'

Sec. 26 Twp. 10N Rge. 30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Merrill (Fee Lease)

5. Field or Pool Name Wildcat (Antelope Valley)

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 type="checkbox"/>	MONTHLY PROGRESS	<input checked="" 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"/>	Plug & Abandon	<input checked="" 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.)

2-1-67--Drilled to T.D. 1577' on 2-6-67. Prepare to P.&A. Dry hole. We plan to P.&A. as follows: Set cement plug 1400-1500' w/ 100 sx. and 700-800' w/ 100 sx. Weld cap on surface casing and install dry hole marker. We will turn this well over to Merrill for use as a water well.

Note: Mr. John Bannister, Arizona Commission, verbally approved by telephone above plugging to Leon Bergstrom of Tenneco Oil.

OK [Signature]



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

Signed Harold C. Nichols Title Sr. Production Clerk Date February 9, 1967

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

Permit No. 371

CONFIDENTIAL

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SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator Tenneco Oil Company, Box 1714, Durango, Colorado

2. OIL WELL GAS WELL OTHER (Specify) Wildcat

3. Well Name Merrill #1 (Fee Lease)
 Location 660' FSL 660' FWL Elev.: 6968' GR ± 7022'
 Sec. 26 Twp. 10N Rge. 30E County Apache, Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Merrill (Fee Lease)

5. Field or Pool Name Wildcat (Antelope Valley)

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 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) <u>Plug & Abandon</u>	ABANDONMENT <input checked="" 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.)

P.&A. as follows: Set cement plug 1400-1500' w/ 100 sx. and 700-800' w/ 100 sx. Well P.&A. 2-6-67. Rig released. Weld cap on surface casing and install dry hole marker. We will turn this well over to Merrill for use as a water well.

Note: Mr. John Bannister, Arizona Commission, verbally approved by telephone above plugging to Leon Bergstrom of Tenneco Oil.



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

Signed Harold C. Nichols
 Harold C. Nichols

Title Sr. Production Clerk Date February 9, 1967

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

Permit No. 371

CONFIDENTIAL

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9 SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator Tenneco Oil Company, Box 1714, Durango, Colorado 81301

2. OIL WELL GAS WELL OTHER (Specify) Wildcat

3. Well Name Merrill #1 Fee Lease

Location 660' FSL 660' FWL

Sec. 26 Twp. 10N Rge. 30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Merrill (Fee Lease)

5. Field or Pool Name Wildcat (Antelope Valley)

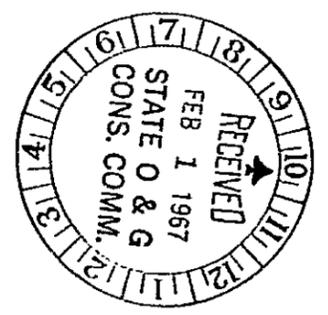
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

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"/>			

(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 1-27-67. Drill to 67'. Ran 13-3/8" 48# casing set at 67' w/ 145 sx. cement. Cement circulated. W.O.C. Drilled cement and now drilling ahead at 301' on 1-30-67.



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

Signed Harold C. Nichols Title Sr. Production Clerk Date January 31, 1967

Harold C. Nichols

CONFIDENTIAL

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

Permit No. 371 Release Date _____

WELL SITE CHECK

By JVB
Date 2-6-67

Contractor Young Oil Co. Farmington Person(s) Contacted Bergstrom -
Spud Date 1-27-67 Durango office - by phone
Type Rig _____ Rotary Cable Tool Present Operations _____
Samples _____
Pipe _____ Drilling with Air Mud
Water Zones Kaiab 195-395, Coconino 390' to 500' Size Hole _____
Lost Circ. Zones Kaiab Size Drill Pipe _____
Formation Tops Snopi 620', Ft. Apache 1490' Type Bit _____
Cores, Logs, DST _____ No. Bit _____ Drilling Date _____
Ind, Neutron, Gamma Ray Formation _____
Crews _____ Lithology _____

REMARKS, PHOTO, MAP

Note. Tenneco phoned this date - well completed 2-5-67 at 9 pm. Will turn over to rancher as water well for Coconino water. Verbal permission given to set plug (100 ST) 1390' to 1490', & 700' to 600' 60' of pipe (conductor) will be left at surface - plate welded on a location marked. No porosity encountered.

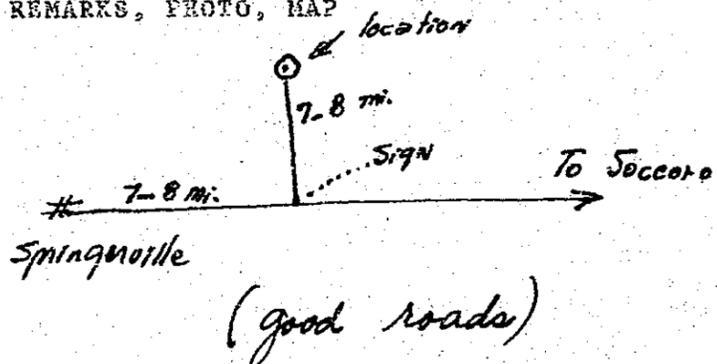
WELL NAME Tenneco #1 Merrill

Permit No. 371
Confidential: Yes No

Telephone
WELL SITE CHECK

Contractor Young DrLg Co. Person(s) Contacted pusher w/Young By JRS Date 1-31-67
Spud Date 1-27-67 El Joe Motel - Springerville.
Type Rig Rotary Cable Tool Present Operations Drly 330'; losing
Samples circ.
Pipe Set 13 3/8 at 67' w/ 125 SX Drilling with Air
Water Zones _____ Mud
Lost Circ. Zones _____ Size Hole _____
Formation Tops _____ Size Drill Pipe _____
Ceres, Logs, DST _____ Type Bit _____
_____ No. Bit _____ Drilling
_____ Date _____
Crews _____ Formation _____
_____ Lithology _____

REMARKS, PHOTO, MAP



WELL NAME Zenneca #1 Merrill Fee

Permit No. 371
Confidential: yes No

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**

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

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number or name of lessor, if fee lease: **Merrill** Well number **1** Elevation (ground) **6968' GR**
 Well location and acreage dedicated to the well (give footage from section lines) Section—township—range or block & survey **± 7022'**
660' FSL, 660' FWL, Section 26, T-10-N, R-30-E
 Field & reservoir (if wildcat, so state) **Wildcat** County **Apache County**

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 Wildcat** feet

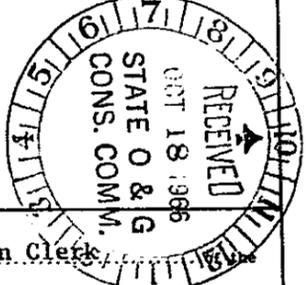
Proposed depth: **1600'** Rotary or cable tools **Rotary** Approx. date work will start **October 17, 1966**

Number of acres in lease: **480** Number of wells on lease, including this well, completed in or drilling to this reservoir: **None Wildcat**

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** 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 1600 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 **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**

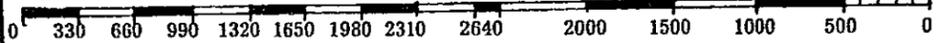
Permit Number: **371**
 Approval Date: **10-21-66**
 Approved By: **John Vannister**
 Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
 See Instruction on Reverse Side of Form

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Drill, Deepen or Plug Back and Plat
 File Two Copies
 Form No. 3

See 7.5' Coyote Creek Quad

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 CERTIFIED PLAT ATTACHED	<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	650	650	Cement to surface
4-1/2	10.5#	J-55	0	1600	1600	Cement with sufficient volume to bring top of cement 200' above upper most productive zone.
Liner						

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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 MERRILL FRK
(WELL NAME)

located 660' FSL and FWL (SW/4SW/4)

Section 26 Township 10N Range 30E, Apache County, Arizona.

The W/2SW/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 21st day of October, 19 66.

OIL AND GAS CONSERVATION COMMISSION

By John Bannister
EXECUTIVE SECRETARY

PERMIT N^o 371

RECEIPT NO. 9465

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

COMPANY TENNECO OIL COMPANY

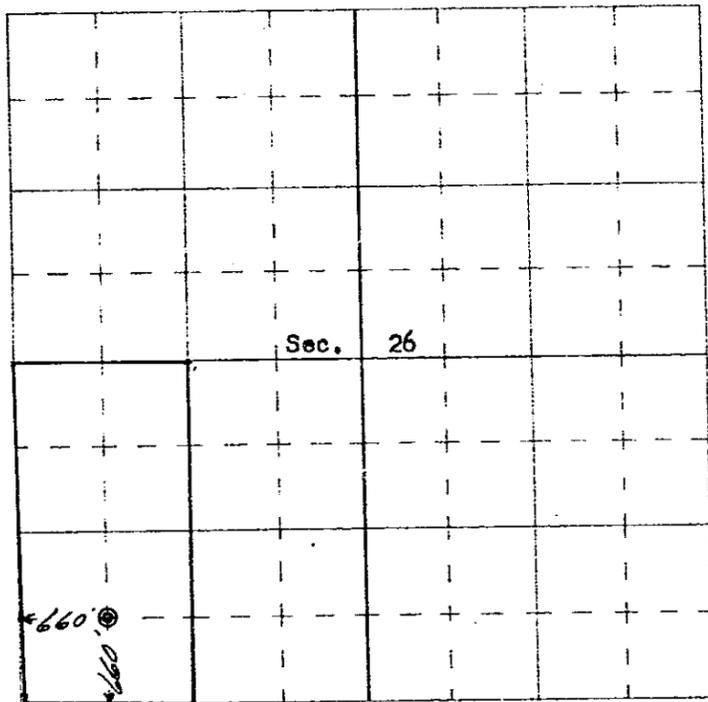
Well Name & No. MERRILL
~~XXXXXXXXXXXX~~ No. 1 Lease No. _____

Location 660' FROM THE SOUTH LINE & 660' FROM THE WEST LINE

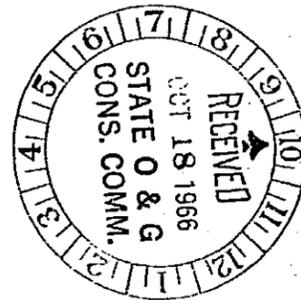
Being in center sw sw

Sec. 26, T 10N., R 30E, G & S R M, Apache County, Arizona

Ground Elevation 6968' ungraded ? ± 7022' per 7.5' Coyote Creek Quad, 1969



Scale -- 4 inches equals 1 mile



Surveyed 13 October 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

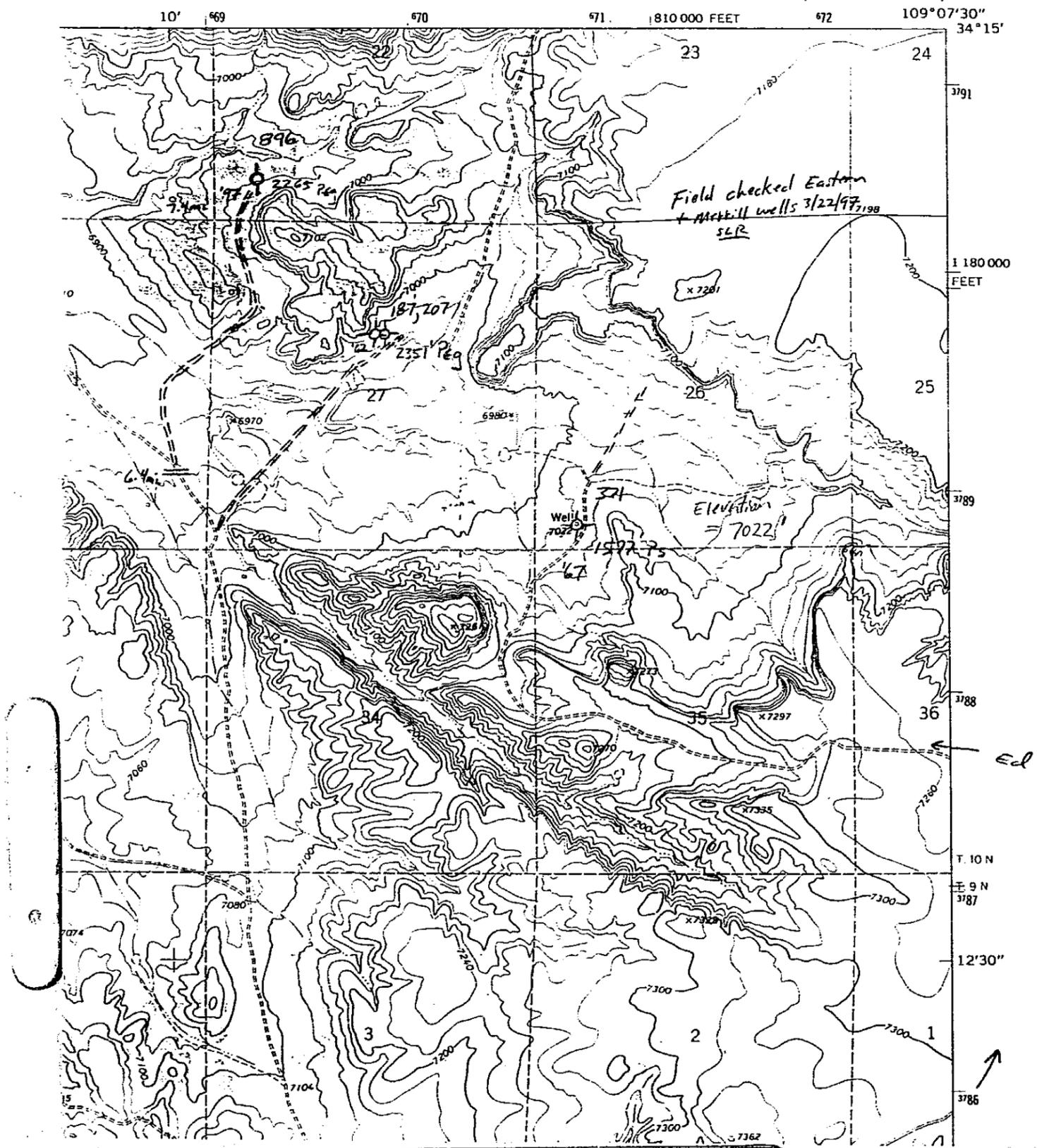
371



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

- 1. Feldspar
- 2. Chalcopyrite
- 3. Chrysocolla (green) and specular hematite (dark)

COYOTE HILLS QUADRANGLE
 ARIZONA - APACHE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)



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

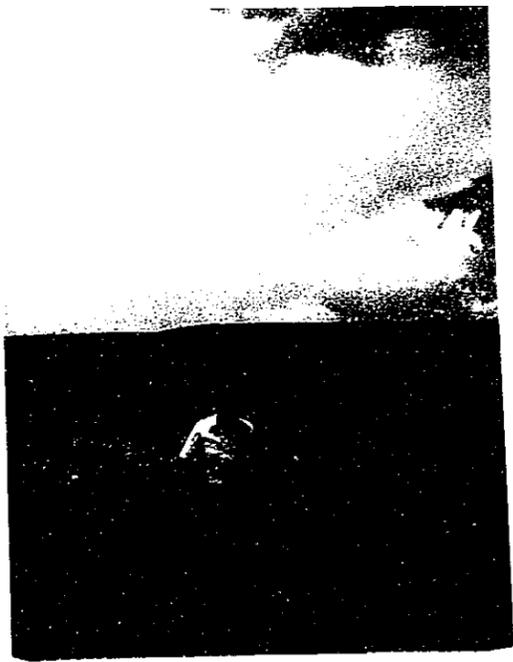
DATE 1-29-68



J whittaker



2 Whittaker

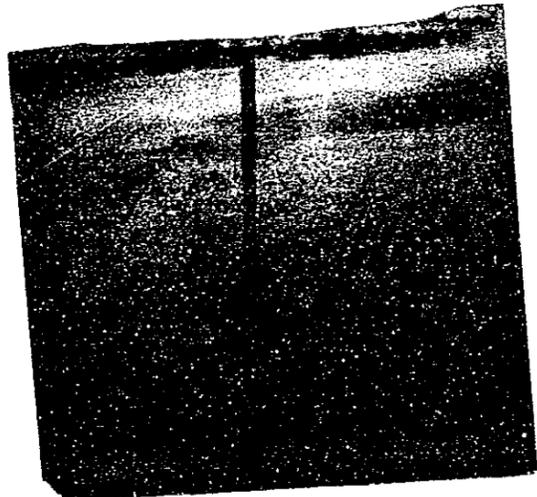


J whittaker



P/A 371





2/14 371



7-30-80

FILE

TRIP TO WEBSITE TO INVESTIGATE
CRATERED CONDITION OF HOLE

Reported well was NOT TENNESSEE
STATE PERMIT 3411 but a water well
that had been drilled approximately
100' S.E. of the TENNESSEE WELL.

Reported hole was approx 2' in dia
at top for 15' & tapered to 10' at about
20' where it was bridged over.

This hole is on fee land and
is not a responsibility of this
Commission. Investigated by
D. Whittaker & Bill Allen

Eden McCallister



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

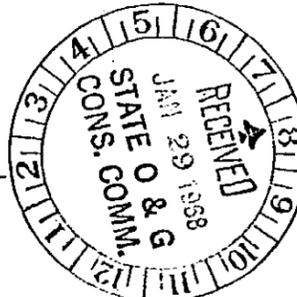
PLEASE COMPLETE THE ACKNOWLEDGMENT AND RETURN ONE COPY TO US.

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.



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-2SE, 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

nr

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

March 16, 1967

Mrs. R.O. Ranson
546 E. Millett
Mesa, Arizona 85201

Receipt of your letter requesting information concerning the well your mother is considering accepting as a water well is hereby acknowledge.

Enclosed please find your letter with our notations answering the questions proposed by you.

I would like to assure you that there will be no hardships in complying with the regulations of this Commission should your mother decide to accept this well as a water well. The status of the well would then be as that of any other water well on your ranch, with the exception that at such time as you choose to abandon this well this Commission would have to be consulted with the intended plugging program.

Should you have any further questions, please do not hesitate to contact us.

Very truly yours,

John Bannister
Executive Secretary
mr
enc

271

March 16, 1967

Mrs. R.O. Ranson
546 E. Millett
Mesa, Arizona 85201

Receipt of your letter requesting information concerning the well your mother is considering accepting as a water well is hereby acknowledge.

Enclosed please find your letter with our notations answering the questions proposed by you.

I would like to assure you that there will be no hardships in complying with the regulations of this Commission should your mother decide to accept this well as a water well. The status of the well would then be as that of any other water well on your ranch, with the exception that at such time as you choose to abandon this well this Commission would have to be consulted with the intended plugging program.

Should you have any further questions, please do not hesitate to contact us.

Very truly yours,

John Bannister
Executive Secretary
mr
enc

271

March 9, 1967
Mrs. R. O. Ransom
546 E. Millett
Mesa, Arizona 85201

Mr. John Bannister
Oil & Gas Conservation Commission
1624 W. Adams
Phoenix, Arizona

Dear Mr. Bannister:

In connection with our conversation this afternoon, I am listing the questions which my brother was concerned with, and leaving a space for any information that you might feel free to give us:

1. How deep is the water and how deep is the drill hole?

*depth to fresh wtr '518 (Coconino formation)
depth of drill hole: 1585'*

2. Is the water classed as drinking, potable, brackish or what?

drinking water

3. Does Arizona law require that each strata be plugged and what is it plugged with - drilling mud, cement, etc?

*Yes. Arizona Law does require each strata to be plugged. CEMENT plugs were set as follows:
1400-1500 FT. (100 Sacks cement)
700-800 FT. (100 Sacks cement)*

4. Was there any caverns encountered by the drill hole?

No.

5. Is there a source of salt water either above or below the good water which would mix with it?

No salt wtr either above or below.

We appreciate your help in this matter and he was so concerned because it usually costs several thousand dollars to plug a well in Texas and quite often, it was impossible.

Sincerely,

Mrs. R. O. Ransom 271

February 6, 1967

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

Attention: Mr. Robert E. Siverson, 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
mr
enc

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TENNECO OIL COMPANY A Major Component of Tenneco Inc.
P. O. BOX 1714 • 835 SECOND AVENUE • DURANGO, COLORADO 81302



January 26, 1967

Oil and Gas Conservation Commission
State of Arizona
Room 202
1624 West Adams
Phoenix, Arizona 87005

Attn: Mr. John Bannister

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

Gentlemen:

This is to notify you that we will commence operations on
the above captioned well on or about the 27th day of January,
1967.

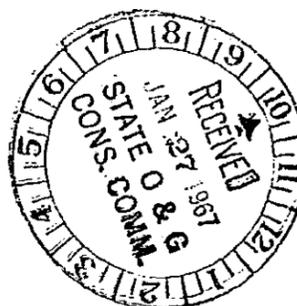
Very truly yours,

TENNECO OIL COMPANY

Robert E. Siverson

Robert E. Siverson
District Production Superintendent

:mkw



271

January 17, 1967

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

Attention: Mr. Robert E. Siverson
District Production Superintendent

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

Gentlemen:

Your letter of January 13, 1967 stated that because of un-anticipated drilling problems you were unable to commence drilling captioned location as scheduled.

This letter then extends captioned permit until March 21, 1967.

When operations are commenced on this location, we must of course be notified.

In addition, you stated you plan to start operations on your #1 Federal, NW NW 15-10N-19E, Navajo County, Arizona, sometime during this week. You must of course notify this office when operations are begun and keep us currently informed thereafter.

Your cooperation is very much appreciated.

Very truly yours,

John Bannister
Executive Secretary
mr

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TENNECO OIL COMPANY *A Major Component of Tenneco Inc.*
P. O. BOX 1714 • 835 SECOND AVENUE • DURANGO, COLORADO 81302



January 13, 1967

Mr. John Bannister
Arizona Oil and Gas Conservation Commission
1624 West Adams
Room 202
Phoenix, Arizona 85007

Dear Sir:

Please extend for 90 days, permit #371 on the Tenneco Oil #1 Merrill Fee well, SW SW of Section 26, T-10-N, R-30-E, Apache County, Arizona.

Because of unanticipated drilling problems, we have been unable to commence drilling on this prospect as previously scheduled.

We plan to drill this well as soon as we finish the Federal #1 NW NW of Section 15, T-10-N, R-19-E, Navajo County, Arizona, permit #369, which we plan to spud within the next week.

A 90 day extension would allow time to complete the present well and commence operations on the Merrill #1 well.

Your cooperation will be greatly appreciated. Thank you.

Yours very truly,

TENNECO OIL COMPANY

Robert E. Siverson

Robert E. Siverson
District Production Superintendent

HCN/mkw



January 5, 1967

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

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

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

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

Gentlemen:

Captioned permits were issued October 21, 1966. Our Rule 100 provides that unless operations are commenced within 90 days after date of approval, the permit to drill becomes null and void, unless an extension in writing is granted by the Commission.

Should you desire an extension of time on these permits, a written request, indicating the reason for delay and anticipated commencement date, should be submitted to this Commission.

If you have any questions, or if we may be of help to you in any way, please contact us.

Very truly yours,

John Bannister
Executive Secretary
nr

271

October 21, 1966

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

Attention: Mr. J.H. 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
NWHW 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 Fee
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 Bannister
Executive Secretary
MB
enc

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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

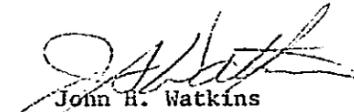
Merrill No. 1
Section 26, T-10-N, R-30-E

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

JHW:hes

CC: D. B. Brown

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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 Rhode 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-D35869}
³⁶⁹ NW NW 15-10N-19E, Navajo County, Arizona

Tenneco Oil #1 Fort Apache 56 ^{14-20-D450-5974}
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 & Nichols - Farmington

*Tight
per Williams (303) 247-5494
Telcom 11-26-66*

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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 Eannister
Executive Secretary
nr
enc