

TENNECO*NAVAJO
S33-T41N-R26E, Apache County

304

P-M

sl

COUNTY Apache AREA _____ LEASE NO. 14-20-603-4332

WELL NAME Tenneco #1 Navajo

LOCATION SW SW SEC 33 TWP 41N RANGE 26E FOOTAGE 660' FSL 660' FWL _____

ELEV 5244 GR 5258 KB _____ SPUD DATE 1-6-65 STATUS _____ TOTAL _____
COMP. DATE 2-12-65 DEPTH 6606'

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>9 5/8</u>	<u>776'</u>	<u>350 sx</u>	<u>NA</u>	<u>x</u>
				DRILLED BY CABLE TOOL _____
				PRODUCTIVE RESERVOIR _____
				INITIAL PRODUCTION <u>D&A</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Chinle	680		x	
DeChelly	1816			
Organ Rock	2334			
Hermosa	3897			
Ismay	4634			
Desert Creek	4752			
Akah	4849			
Molas	5426			
Miss.	5535			
Ouray	5893			
Elbert	5981			
McCracken	6131			
Aneth	6310			
Bright Angel	6430			
Tapeats	6518			
Permian	6600			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG <u>Am Strat</u>
<u>Dual Ind./Laterlog GR</u>	<u>NA</u>	<u>Na</u>	SAMPLE DESCRP. _____
			SAMPLE NO. <u>1280*</u>
			CORE ANALYSIS _____
			DSTs _____
			*Tuc 2018

REMARKS _____	APP. TO PLUG <u>x</u>
_____	PLUGGING REP. <u>x</u>
_____	COMP. REPORT <u>x</u>

WATER WELL ACCEPTED BY _____

BOND CO. U.S. Fidelity & Guaranty Co. BOND NO. 68214-13-493-64

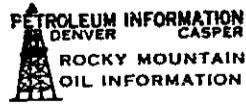
BOND AMT. \$ 10,000 CANCELLED 1-27-65 DATE _____ ORGANIZATION REPORT 6-16-60

FILING RECEIPT 9403 LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. _____ DATE ISSUED 5-28-64 DEDICATION W/2 SW/4

PERMIT NUMBER 304

ARIZONA
APACHE CO.
WILDCAT (W)



Twp 41n-26e
Section 33
SW SW
660 n/s 660 e/w

OPR: Tenneco Oil

WELL #: 1 Navajo

ELEV: 5260 KB
TOPS: Log-2wpx
Chinle 680
DeChelly 1618
Organ Rock 2334
Hermosa 3897
Ismay 4634
Desert Creek 4752
Akah 4849
Barker Creek 5096
Moias 5426
Mississippian 5535
Ouray 5893
Elbert 5931
McCracken 6131
Aneth 6310
Bright Angel 6430
Tapeats; 6518
preCambrian 6600

DSTS. & CORES:
Crd 4721-81, rec 1 ls,
scattered ppp, bleeding
oil & gas. DST 4722-
41, SI 1 hr, open 2 hrs,
SI 2 hrs, rec 1800 gas,
95 G&MCO, FP 10.8-
10.8#, SIP 1235-1342#,
open 25 mins, SI 1 hr 40
195 WCM, 265 sli O&G
108-270#, SIP 1504-1497#

Contr: Moran

SPUD: 1-6-65
TD: 6606
CSG: 9-5/8" @ 776 w/350

COMPL: 2-14-65

PB:

HP 2178-2178#. DST 4883-5070,
mins, open 2 hrs, SI 2 hrs, rec
cut WCM, 170 sli O&GCW, FP
#, HP 2300-2273#.

BROD. ZONE:

INIT. PROD: D&A

ARIZ3-562030

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**

Federal, State or Indian Lease Number or name of lessor if fee lease: **Navajo 4332-1** Well Number: **1** Field & Reservoir: **Wildcat**

Location: _____ County: **Apache, Arizona**

Sec. TWP-Range or Blotk & Survey: **660' FSL, 660' FWL, Sec. 33, T41N, R26E**

Date spudded: **1-6-65** Date total depth reached: **2-11-65** Date completed, ready to produce: **Dry Hole** Elevation (DB, BICA, RT or Gr.) feet: **5248 GR** Elevation of casing hd. flange feet: _____

Total depth: **6606** P.B.T.D.: _____ 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: _____ Rotary tools used (interval): **6606** Cable tools used (interval): _____

Was this well directionally drilled? **No** 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 Sonic, 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
Surface	13-3/4	9-5/8	32.30	776	350 sx.	None

TUBING RECORD

LINER RECORD

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

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production: **Dry Hole** Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump.): **Well P & A 2-12-65**

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)

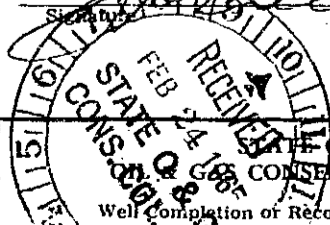
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Office Supervisor 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: **2-22-65**

CONFIDENTIAL



Permit No. **304**

Form No. 4

File One Copy

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Navajo	<i>SURFACE</i> 0	680	
Chinle	680	1816	
DeChelly	1816	2334	
Organ Rock	2334	3897	
Hermosa	3897	4634	
Ismay	4634	4752	
Desert Creek	4752	4849	
Akah	4849	5096	
Barker Creek	5096	5426	
Molas	5426	5535	
Mississippian	5535	5893	
Ouray	5893	5981	
Elbert	5981	6131	
McCracken	6131	6310	
Aneth	6310	6430	
Bright Angel	6430	6518	
Tapeats	6518	6600	
Pre-Cambrian	6600	6606 TD	

* 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.

PLUGGING RECORD

Operator Tenneco Oil Company		Address P. O. Box 1714, Durango, Colorado		
Name of Lease Navajo 4332	Well No. 1	Field & Reservoir Wildcat		
Location of Well 660' FSL 660' FWL Section 33, T. 41 N., R. 26 E.				County Apache
Application to drill this well was filed in name of Tenneco Oil Company	Has this well ever produced oil or gas no	Character of well at completion (initial production): Oil (bbls/day) 0 Gas (MCF/day) 0 Dry? Yes		
Date plugged: February 12, 1965	Total depth 6606	Amount well producing when plugged: Oil (bbls/day) - Gas (MCF/day) - Water (bbls./day) -		
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones aqueous cemented, giving amount cement.	
All zones tested dry				

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped etc)	Packers and shoes
9-5/8"	775	-	775	-	surface

Was well filled with mud-laden fluid, according to regulations? **Yes** Indicate deepest formation containing fresh water. **Unknown**

NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well:

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail
File this form in duplicate with the State of Arizona Oil & Gas Conservation Commission

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Office Supervisor 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.

February 16, 1965
Date

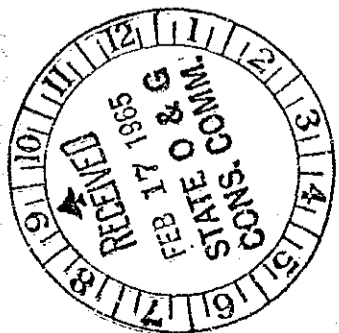
J. H. Watkins
Signature **J. H. Watkins**

**STATE OF ARIZONA OIL & GAS
CONSERVATION COMMISSION**

Form No. P-15 Plugging Record File two copies
Authorized by Order No. 4-8-50
Effective April 8, 1950

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APPLICATION TO ABANDON AND PLUG

FIELD Wichita
 OPERATOR Frontier Oil Company ADDRESS P. O. Box 1714, Durango, Colorado
 LEASE Marble Creek WELL NO. 2 COUNTY Apache
 SURVEY City & Salt River SECTION 33 DRILLING PERMIT NO. 304
 LOCATION 660' SW 660' SW Section 33, T42N R. 20E

TYPE OF WELL Dry hole TOTAL DEPTH 6806
(On Gas or Dry Hole)
 ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls) WATER _____ (Bbls)
 GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD 790' 9-5/8", 32.3#, surface casing set at 775'.

2. FULL DETAILS OF PROPOSED PLAN OF WORK _____
Set plugs as follows using 950 sacks cement:
6250-6350; 5825-5925; 5375-5475; 4800-4900; 4575-4675; 3825-3925; 1650-1900; 725-825
50 sack plug in top with dry hole marker

If well is to be abandoned, does proposed work conform with requirements of Rule 202? Yes If not, outline proposed procedure above.

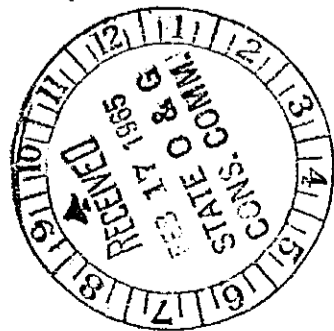
DATE COMMENCING OPERATIONS February 12, 1965
 NAME OF PERSON DOING WORK Moran Bros. Company ADDRESS 1200 Oil & Gas Bldg., Midland, Texas
 CORRESPONDENCE SHOULD BE SENT TO R.E. Siverson, P.O. Box 1714, Durango, Colorado

NAME J. H. Watkins J. H. Watkins
 TITLE District Office Supervisor
John Bannister
 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Date Approved 6-3-65

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Abandon and Plug
 Form No. 15A File 2 Copies
 Authorized by Order No. 4-6-59
 Effective April 6, 1959

304



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.)

5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-4332	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Navajo 4332	
9. WELL NO. 1	
10. FIELD AND POOL, OR WILDCAT Wildcat	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33, T41N, R26E	
12. COUNTY OR PARISH Apache	13. STATE Arizona
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, ST, OR, etc.) 5248 GL

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.)

Well drilled to TD of 6606' and all zones tested dry. Well plugged and abandoned as follows:

Depth	No. sacks cement
6250-6350	100
5825-5925	100
5375-5475	100
4800-4900	100
4575-4675	100
3825-3925	100
1650-1900	250
725- 825	100

50 sack cement plug installed in top of 9-5/8" surface casing and dry hole marker installed. Location will be returned to original contours as soon as pits are dry.

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

Original Signed By: J. H. WATKINS TITLE District Office Supervisor DATE 2-15-65

SIGNED J. H. WATKINS J. H. WATKINS

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



Form 9-331
(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.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-4332

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo 4332

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 33, T41N, R26E

12. COUNTY OR PARISH

Apache

13. STATE

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

P. O. 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' FWL, Section 33, T. 41 N., R. 26 E.

14. PERMIT NO.

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

5248 GL

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.)*

Well drilled out from under 9-5/8" surface casing at 776' to T.D. of 6606' and all zones tested dry. We propose to plug and abandon well as follows:

Depth	No. sacks cement
6250-6350	100
5825-5925	100
5375-5475	100
4800-4900	100
4575-4675	100
3825-3925	100
1650-1900	250
725- 825	100

50 sacks in top of surface pipe and install dry hole marker.

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

SIGNED J. H. Watkins

TITLE District Office Supervisor

DATE 2-15-65

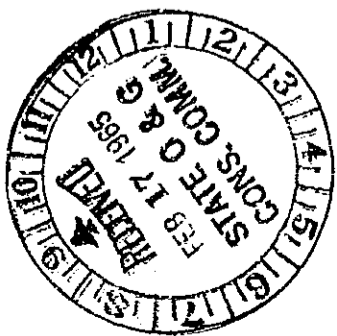
(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:



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 *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 1714, Durango, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 660' FSL 660' FWL Section 33, T. 41 N., R. 26 E.
At top prod. interval reported below same
At total depth same

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-4332

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo 4332

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 33, T41N, R26E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUNDED 1-6-65 16. DATE T.D. REACHED 2-11-65 17. DATE COMPL. (Ready to prod.) dry hole 18. ELEVATIONS (OF, RES., RT., OR, ETC.)* 5248 GR

20. TOTAL DEPTH, MD & TVD 6606 21. PLUG, BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY rotary 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None 25. WAS DIRECTIONAL SURVEY MADE Yes 26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray-Sonic, Dual Induction Laterolog, Caliper 27. WAS WELL CORDED No

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gamma Ray-Sonic, Dual Induction Laterolog, Caliper

23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8	32.30	776-775	13-3/8"	350 SX	none

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None							

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None			None

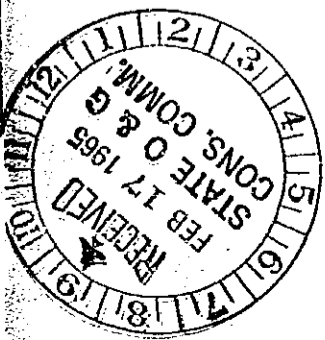
33. PRODUCTION
DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) _____

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

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.
Original Signed By: J. H. WATKINS
SIGNED: J. H. WATKINS
TITLE: District Office Superintendent
DATE: 2-15-65



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 33, 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.

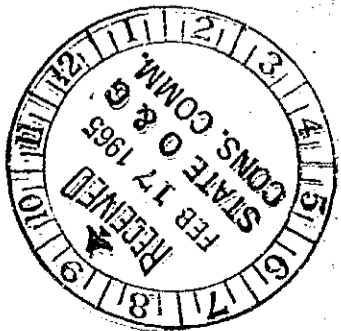
Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

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.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Navajo	0	680				
Chinle	680	1816				
DeChelly	1816	2334				
Organ Rock	2334	3897				
Hermosa	3897	4634				
Ismay	4634	4752				
Desert Creek	4752	4849				
Akah	4849	5096				
Barker Creek	5096	5426				
Molas	5426	5535				
Mississippian	5535	5893				
Ouray	5893	5981				
Elbert	5981	6131				
McCracken	6131	6310				
Aneth	6310	6430				
Bright Angel	6430	6518				
Tapeats	6518	6600				
PreCambrian	6600	6606 TD				



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-4332

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo 4332

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 33, T. 41 N., R. 26 E.

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

14. PERMIT NO.

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

5248 O.L.

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

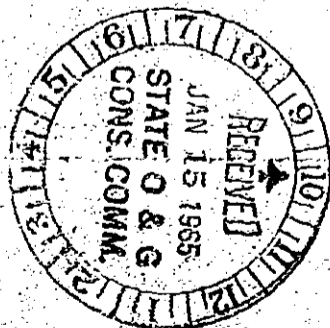
CHANGE PLANS

(Other)

(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 spudded 1-6-65. Drilled 13-3/4" hole to T.D. of 780'. Ran 24 Jts 9-5/8" 32.30# casing landed at 776'. Cemented with 350 psi Class "C" cement. Circulated to surface. Tested casing and BOP to 1000 psi, held ok. Now drilling ahead.



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

SIGNED J. H. WATKINS J.H. Watkins TITLE District Office Supervisor DATE 1-11-65

(This space for Federal or State office use)

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

304

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

12/22/64

Address

City

State

P. O. Box 1714

Durango

Colorado

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number or name of lessor, if fee lease

Well number

Elevation (ground)

14-20-603-4332

1

5248

Well location and acreage dedicated to the well (give footage from section lines)

Section--township--range or block & survey

660' F/SL, 660' F/WL, Sec. 33, T-41-N, R-26-E, 80 Acres

Field & reservoir (if wildcat, so state)

County

Wildcat

Apache

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

feet

Proposed depth:

Rotary or cable tools

Approx. date work will start

6900'

Rotary

December 29, 1964

Number of acres in lease:

Number of wells on lease, including this well, completed in or drilling to this reservoir:

2560

None

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

Name

Address

Status and amount of bond

Organization Report
On file
Or attached On File

Filing Fee of \$25.00 X
Attached

On File

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)

*Fill in Proposed Casing Program on reverse side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Office Supervisor 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

J. H. Watkins

Date

December 22, 1964

Permit Number: # 304

Approval Date: 4-4-65

Approved By: John Bannister

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 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 _____
- If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description
	<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 <u>J. H. WATKINS</u> District Office Supervisor</p> <p>Company <u>Tenneco Oil Company</u></p> <p>Date <u>December 22, 1964</u></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 <u>19 December 1964</u> Registered Professional Engineer and/or Land Surveyor <u>Robert H. Ernst</u> Certificate No. <u>N.M. P.E. & L.S. 2463</u></p>

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9-5/8	32.25	J-55	0	800	800	300
7	20		0	3400		(300
7	23		3400	6900)



SAMUEL P. GODDARD
GOVERNOR

LYNN LOCKHART
CHAIRMAN

R. KEITH WALDEN
VICE CHAIRMAN

ORME LEWIS
MEMBER

LUCIEN B. OWENS
MEMBER

GEORGE T. SILER
MEMBER

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

ROOM 202

1624 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-5181

JOHN BANNISTER
EXECUTIVE SECRETARY

J. R. SCURLOCK
PETROLEUM GEOLOGIST

October 27, 1965

Tenneco Oil Company
P.O. Box 2511
Houston, Texas 77001

Attention: Mr. John R. Hudman, Properties Supervisor

Re: U.S. Fidelity & Guaranty Company Bond 68214 13 493 64

Gentlemen:

This will acknowledge receipt of your letter of October 26, 1965.

All wells drilled under this bond have been completed and all required information has been submitted in compliance with our Rules and Regulations.

This letter then will constitute authority from this Commission to terminate captioned bond as of this date.

Very truly yours,

John Bannister
Executive Secretary
mj

cc: U.S. Fidelity & Guaranty Co.
3401 Fannin Street
Houston, Texas

304

June 3, 1965

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

Attention: Mr. J. H. Watkins

Re: Tenneco 4332-1 Navajo well
SW/4 SW/4 33-T41N-R26E, Apache County, Arizona
Permit 304

Gentlemen:

Enclosed is proved copy of application to abandon and
plug captioned well.

All the information will be kept confidential until
~~November 17, 1965.~~
AUGUST

Yours very truly,

John Bannister
Executive Secretary

Enclosure
cb

February 18, 1965

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

Attention: Mr. J.H. Watkins

Re: Tenneco 4332-1 Navajo well
SW/4SW/4, S33-T41N-R26E, Apache County, Arizona
Permit 304

Gentlemen:

We note captioned well was plugged February 12, 1965. For your convenience we are enclosing the Well Completion form and remind you that this form and duplicate copies of logs must be submitted within sixty days from the date of plugging.

Yours very truly,

J.R. Scurlock
Geologist
mr
enc

February 18, 1965

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

Attention: Mr. J.H. Watkins

Re: Tenneco 4332-1 Navajo well
SW/4SW/4, S33-T41N-R26E, Apache County, Arizona
Permit 304

Gentlemen:

We note captioned well was plugged February 12, 1965. For your convenience we are enclosing the Well Completion form and remind you that this form and duplicate copies of logs must be submitted within sixty days from the date of plugging.

Yours very truly,

J.R. Scurlock
Geologist
nr
enc

Petroleum Information

ROCKY MOUNTAIN REGION REPORT

1-29-65

Vol 38 No 20

Early Weeks Of
'65 Add Luster
To Rockies' Outlook

Few years in recent Rocky Mountain oil history have commenced as auspiciously as this one has. With 1965 just one month old, new interest has been generated in several significant areas, confirmation of earlier indications of success has been forthcoming, and the momentum of the final quarter of 1964 has been increased.

Powder River Basin
Pennsylvanian Discovery
Creates Major Lead Play

Shell Oil's official release of data at its Pennsylvanian discovery on the Reno unit in Wyoming's Johnson County indicates the possibility of a large scale revision of thinking on the potential of Pennsylvanian formations at depth in the Powder River Basin. Shell's success, showing a recovery of nearly 6000 ft of 34.5 gravity green oil in an hour and a half with high flowing and shut in pressures, explained the major land activity which has taken place during the past week. Not for more than a decade has a land play of this magnitude been seen in the state. Leases which have changed hands during the week are universally estimated at more than half a million acres and more liberal estimates run well beyond this figure.

In southern Wyoming, McCulloch Oil logged a flow of 74 bbls of oil per hour at its confirmation to a Niobrara discovery in Carbon County. The discovery flowed more than 1000 bbls per day.

New exploration in the state included a projected 12,000 ft wildcat south of Shoahoni in the Wind River Basin.

Another Kibbey
Discovery Indicated
In Montana

In Montana, unofficial, but apparently credible reports say that Gulf Oil is running pipe at its wildcat northeast of the Kibbey discovery in the Weldon Fault area of McCone County...adding, if true, a great deal to the apparent stature of this new area of production. Tenneco Oil's hearing request on its Devonian discovery in Roosevelt County apparently confirms the reports of commercial success which had previously drawn no comment from Tenneco.

Recovery of gas with a significant helium content at a Kit Carson County Colorado wildcat drilled by Continental Oil led to much speculation as to the potential of this area. Significance cannot be determined short of further drilling.

Arizona Wildcat Tests
Oil Show...New Work
Planned In State

In Arizona, Tenneco Oil recovered a small amount of oil from Pennsylvanian at a wildcat southeast of Walker Creek field, is still to test deeper formations. New Arizona exploration included a projected test to Devonian by Cactus Drilling at a prospect 14 miles south of Walker Creek.

Pipe Set At
Utah Wildcats

In Utah, pipe was set at a wildcat southeast of Monument Butte field, Duchesne County, and at another in Emery County 24 miles northwest of production at Big Flat. Neither of these were obvious successes from the information available, but both attracted interest. In Uintah County, California Oil staked a wildcat southeast of Red Wash field and northwest of the recent East Red Wash discovery.

January 5, 1965

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

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

Re: Tenneco Navajo #1 well
S33 T41N R26E, Apache County, Arizona
Permit 304

Gentlemen:

Enclosed are approved copy of your Application to Drill captioned well and Receipt 9403 for the filing fee.

We note the Organization Report on file from your company is dated June 16, 1960. If there have any any organizational changes since that time, the Report should be up-dated. We are enclosing the form for this purpose should you need it.

If this office may be of assistance to you, please let us know.

Yours very truly,

J.R. Scurlock
Geologist

mr
enc

TENNECO OIL COMPANY
 DURANGO, COLORADO
REMITTANCE STATEMENT

DATE	INVOICE No.	PARTICULARS	AMOUNT	DISCOUNT	NET	
12-22-64		Fee for Permit to Drill the Navajo 4332 #1, Apache County, Arizona TOC Lease No. 32656	\$25.00		\$25.00	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

TAXPAYER IDENTIFICATION NO. _____