

*Release 1-29-65*  
~~CONFIDENTIAL~~



P-W

Tenneco Oil Co. 1 Navajo  
SE/4 - SW/4 Sec. 24 - Twp. 38N - R19E

28

s1

COUNTY Navajo AREA \_\_\_\_\_ LEASE NO. Navajo 8351

WELL NAME Tenneco Oil Company 1 Navajo

LOCATION SE/4 SW/4 SEC 24 TWP 38N RANGE 19E FOOTAGE 1433.65 FW, 1195.60 FS

ELEV 5857 GR 5864 KB \_\_\_\_\_ SPUD DATE 6-11-64 STATUS \_\_\_\_\_ TOTAL \_\_\_\_\_  
COMP. DATE 7-26-64 DEPTH 7400'

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
20"	60'	150 sx	na	<input checked="" type="checkbox"/>
13 3/8"	1450	500 sx		DRILLED BY CABLE TOOL _____
				PRODUCTIVE RESERVOIR _____
				INITIAL PRODUCTION <u>P&amp;A</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Navajo	390		x	Am Strat differs
Kayenta	1090		x	
Wingate	1270		x	
Chinle	1390		x	
Shinarump	2305		x	
Moenkopi	2434		x	
Organ Rock	3574		x	
Hermosa	4995		x	
Ismay	5429		x	
D.c.	5532		x	
Paradox Sh	5586		x	
B. G.	5750		x	
Molas	5925		x	
Miss	6002		x	
Dev.	6403		x	

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Induction-Laterlog;GRN Sonic GR	NA	NA	Am Strat SAMPLE DESCRP. SAMPLE NO. 1286 CORE ANALYSIS <input checked="" type="checkbox"/> DSTs <input checked="" type="checkbox"/> Tuc. 2013

REMARKS	APP. TO PLUG
	<input checked="" type="checkbox"/>
	PLUGGING REP. <input checked="" type="checkbox"/>
	COMP. REPORT <input checked="" type="checkbox"/>

WATER WELL ACCEPTED BY \_\_\_\_\_

BOND CO. U. S. Fidelity & Guaranty Co. BOND NO. 68214-13-493-64  
 DATE \_\_\_\_\_ ORGANIZATION REPORT   
 BOND AMT. \$ 10,000 CANCELLED 10-27-65  
 FILING RECEIPT 9381 LOC. PLAT  WELL BOOK  PLAT BOOK   
 API NO. 02-017-00283 DATE ISSUED 6-10-64 DEDICATION E/2 SW/4

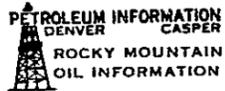
PERMIT NUMBER 283  
 (over) Release Date 1-29-65

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ARIZONA  
NAVAJO CO.  
WILDCAT (W)

283



Twp 38n-19e  
Section 24  
se sw  
1196 n/s 1434 e/w

OPR: Tenneco Oil

WELL #: 1 Navajo-8351

ELEV: 5857 Gr

TOPS: Log-~~3377#~~  
Summerville surf, Entrada 30,  
Carmel 270, Navajo 390,  
Kayenta 1090, Wingate 1270,  
Chinle 1390, Shinrump 2304,  
Moenkopi 2434, DeChelly  
2682, Cutler 3574, Honaker  
Trail 4437, Ismay 5110,  
Desert Creek 5234, Akah  
5302, Barker Creek 5534,  
Molas 5925, Redwall 6001,  
Ouray ls 6403, Elbert 6503,  
McCracken 6710, Aneth  
6871, Bright Angel 7033,  
Tapeats 7134, Granite 7382.

DSTS. & CORES:  
No cores. DST 6960-  
7054, open 15 mins, SI  
1 hr, open 30 mins, SI  
1 hr, rec 94 mud w/  
trace live oil & asphaltic  
residue, FP 132-142#,  
SIP 253-152#, HP 3397-  
3377#.

SPUD: 6-11-64      COMPL: 7-26-64  
TD: 7400      PB:  
CSG: 20" @ 60 w/150  
13-3/8" @ 1450 w/500

PERF:

BROD. ZONE:

INIT. PROD: D&A

Contr: Rowan

ARIZ6-561150

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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 8351 Well Number 1 Field & Reservoir Wildcat

Location 1196 FSL, 1434 FWL SW/4, Sec. 24, T38N, R19E County Navajo, Arizona

Sec. TWP-Range or Block & Survey See Above

Date spudded 6-11-64 Date total depth reached 7-24-64 Date completed, ready to produce 7-26-64 Elevation (DE, RKB, RT or Gr.) feet GR 5857 Elevation of casing hd. flange feet

Total depth 7400 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 None - Dry Hole Rotary tools used (interval) 0-7400 Cable tools used (interval) --

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

Type of electrical or other logs run (check logs filed with the commission) Gamma Ray - Neutron Date filed Sonic - Gamma Ray - Dual Induction - Laterlog

CASING RECORD

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

Table with 7 columns: Purpose, Size hole drilled, Size casing set, Weight (lb./ft.), Depth set, Sacks cement, Amt. pulled. Rows for Surface and another Surface.

TUBING RECORD

LINER RECORD

Table with 8 columns: 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

Table with 4 columns: Number per ft., Size & type, Depth Interval, Am't. & kind of material used, Depth Interval.

INITIAL PRODUCTION

Date of first production None Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) None - Dry P & A 7-26-64

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

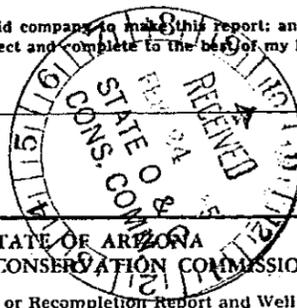
Tubing pressure Casing pressure Cal'ed rate of Production per 24 hrs. Oil Gas Water Gas-oil ratio

Disposition of gas (state whether vented, used for fuel or sold): None

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 22, 1965 Date

Signature



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Permit No.

Released 1-29-65

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

Form No. 4

File One Copy

2

[Redacted]

\*

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
See USGS Report Attached (Geological Zones on Back Page)			

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

**INSTRUCTIONS:**

Attach drillers log or other acceptable log of well.

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

Form No. 4

**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 (well logs, 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.)

RECEIVED  
FEB 24 1965  
STATE O & G  
COMM.

37. SUMMARY OF POROUS ZONES, SHOWING ALL INTERVAL ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL, TESTED, CUSHION USED, TIME TOOL DOWN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	NAME	DEPTH
Mississippian	6035	Summerville	Surface
	6160	Entrada	30
	6319	Carmel	270
	6376	Nevajo	390
	6413	Kayenta	1090
	6506	Wingate	1270
	6960	Chinle	1390
		Shinarump	2304
		Moenkopi	2434
		De Chelly	2682
		Cutler	3574
		Honaker Trail	4437
		Ismay	5110
		Desert Creek	5234
		Akah	5302
		Barker Creek	5534
		L. Barker Creek	5706
		Molas	5925
		Redvill	6001
		Ouray	6403
		U. Elbert	6503

DESCRIPTION, CONTENTS, ETC.

Is - Log analysis 5% por, 80% SW.  
 Is - Log analysis 1% porosity.  
 Dolo - Log analysis 9% por, SW=100%; RW=0.1  
 Dolo - Log analysis 9% por, SW= 80%.  
 Dolo - Log analysis 5% por average.  
 Dolo - Log analysis 6% por, SW=71%; RW=0.07  
 DST #1  
 IF 15", tool up w/wk blo, steady.  
 ISI 60", FF 30", Op tool, no blo through-  
 out. FSI 60". Reverse circ. rat hole  
 mud from top of drill collars. Recovered  
 94' drlg fluid(mud) w/tr live oil glob-  
 ules and asphaltic residue on muds sur-  
 Test tool rec. drlg fluid(mud-2750 cc)  
 w/tr live oil globules and asphaltic  
 residue.  
 IF 15" 132# BHP 132°  
 FF 30" 142# Mud Res. 2.3 @ 90°  
 ISI 60" 253#  
 FSI 60" 152#  
 IH 3397#  
 FH 3377#

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**PLUGGING RECORD**

Operator <b>Tenneco Oil Company</b>		Address <b>P. O. Box 1714, Durango, Colorado</b>	
Name of Lease <b>Navajo 8351</b>		Well No. <b>1</b>	Field & Reservoir <b>Wildcat</b>
Location of Well <b>NW SE SW Section 24, T. 38 N., R. 19 E.</b>		Sec-Twp-Rge or Block & Survey <b>Navajo</b>	
Application to drill this well was filed in name of <b>Tenneco Oil Company</b>	Has this well ever produced oil or gas <b>No</b>	Character of well at completion (initial production): Oil (bbls/day)      Gas (MCF/day)      Dry? <b>X</b>	
Date plugged: <b>July 26, 1964</b>	Total depth <b>7400</b>	Amount well producing when plugged: Oil (bbls/day)      Gas (MCF/day)      Water (bbls./day) <b>-0-      -0-      -0-</b>	
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 squeeze cemented, giving amount cement.
<b>Cambrian-Muav Frm.</b>	<b>Oil stain in samples</b>	<b>6871-7033</b>	

**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
20"	60'	-	60'	-	Guide
13-3/8"	1438'	-	1438'	-	Guide



Was well filled with mud-laden fluid, according to regulations? **Yes**

Indicate deepest formation containing water. **None**

**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.

Date July 29, 1964

*[Signature]*  
Signature

**CONFIDENTIAL**

# 383

STATE OF ARIZONA OIL & GAS  
CONSERVATION COMMISSION  
Form No. P-15      Plugging Record      File two copies

APPLICATION TO ABANDON AND PLUG

FIELD Wildcat
OPERATOR Tenneco Oil Company ADDRESS P. O. Box 1714, Durango, Colorado
LEASE Navajo 8351 WELL NO. 1 COUNTY Navajo
SURVEY Gila & Salt River SECTION 24 DRILLING PERMIT NO. 283
LOCATION 1434' FWL 1196' FSL, Section 24, T. 38 N., R. 19 E.

TYPE OF WELL Dry Hole TOTAL DEPTH 7400'
ALLOWABLE (If Assigned) (Oil, Gas or Dry Hole)

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

PRODUCING HORIZON PRODUCING FROM TO

1. COMPLETE CASING RECORD 60' 20" 52.73# conductor pipe, set at 60' w/150 sx.
13-3/8" 48# csg set at 1450' w/500 sx.

2. FULL DETAILS OF PROPOSED PLAN OF WORK

Set plugs as follows using 210 sx cmt.
1400-1500; 2550-2650; 4400-4500; 5950-6050; 6350-6450; 6820-6920; 10 sx at surface.
Set 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 July 26, 1964

NAME OF PERSON DOING WORK Rowan Drilling Co. ADDRESS Midland, Texas

CORRESPONDENCE SHOULD BE SENT TO R. E. Siverson, Tenneco Oil Company
P. O. Box 1714, Durango, Colorado

NAME John W. Bunnister

TITLE

Date Approved July 26 1964

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

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



# 283
CONFIDENTIAL

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.

8351 #1

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 1196' FSL; 1434' FWL  
At top prod. interval reported below  
At total depth

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-0603-8351

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Navajo 8351

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
24-38N-19E

12. COUNTY OR PARISH  
Navajo

13. STATE  
Arizona

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUNDED 6-11-64 16. DATE T.D. REACHED 7-24-64 17. DATE COMPL. (Ready to prod.) P&A 7-26-64 18. ELEVATIONS (DP, RRB, RT, GR, ETC.)\* GR 5857'

19. TOTAL DEPTH, MD & TVD 7400 20. FLUG, BACK T.D., MD & TVD \_\_\_\_\_ 21. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 22. INTERVALS DRILLED BY \_\_\_\_\_ 23. ROTARY TOOLS 0-7400 24. CABLE TOOLS \_\_\_\_\_

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  
Sonic-Gamma Ray, Dual Induction-Laterolog, Gamma Ray-Neutron

27. WAS WELL CORED  
No

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	52.73	60		150 sx	
13-3/8"	48	1438	17 1/2	500 sx	

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION  
DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) P&A 7-26-64

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

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

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

SIGNED [Signature] TITLE District Office Manager DATE July 30, 1964



CONFIDENTIAL (Instructions and Spaces for Additional Data on Reverse Side) CONFIDENTIAL





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

APPLICATION TO DRILL  DEEPEN  PLUG BACK

NAME OF COMPANY OR OPERATOR Tenneco Oil Company DATE June 1, 1964  
P. O. Box 1714 Durango Colorado  
 Address City State

**DESCRIPTION OF WELL AND LEASE**

Name of lease <u>Navajo 8351</u>	Well number <u>1</u>	Elevation (ground) <u>5415</u>
Well location <u>1434 FWL 1196 FSL</u>	Section—township—range or block & survey <u>Sec. 24, T. 38 N., R. 19 E. APM</u>	
Field & reservoir (if wildcat, so state) <u>Wildcat</u>	County <u>Navajo</u>	
Distance, in miles, and direction from nearest town or post office <u>8 miles southwest Kayenta, Arizona</u>		
Nearest distance from proposed location to property or lease line: <u>1196</u> feet	Distance from proposed location to nearest drilling completed or applied—for well on the same lease: <u>None</u> feet	
Proposed depth: <u>7500</u>	Rotary or cable tools <u>Rotary</u>	Approx. date work will start <u>June 10, 1964</u>
Number of acres in lease: <u>1280</u>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>None</u>	
If lease, purchased with one or more wells drilled, from whom purchased: <u>None</u>		

Status of bond  
Filed with Arizona Commission

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 other 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.

June 1, 1964  
Date

*[Signature]*  
Signature

Permit Number: 283  
 Approval Date: JUN 10 1964  
 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

Form No. P-1

File two copies

Effective Feb. 28, 1962.

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
10-3/4"	45#	J-55	surface	300		400
4-1/2"	9.5#	J-55	surface	T.D.		200
	11.6#	J-55				

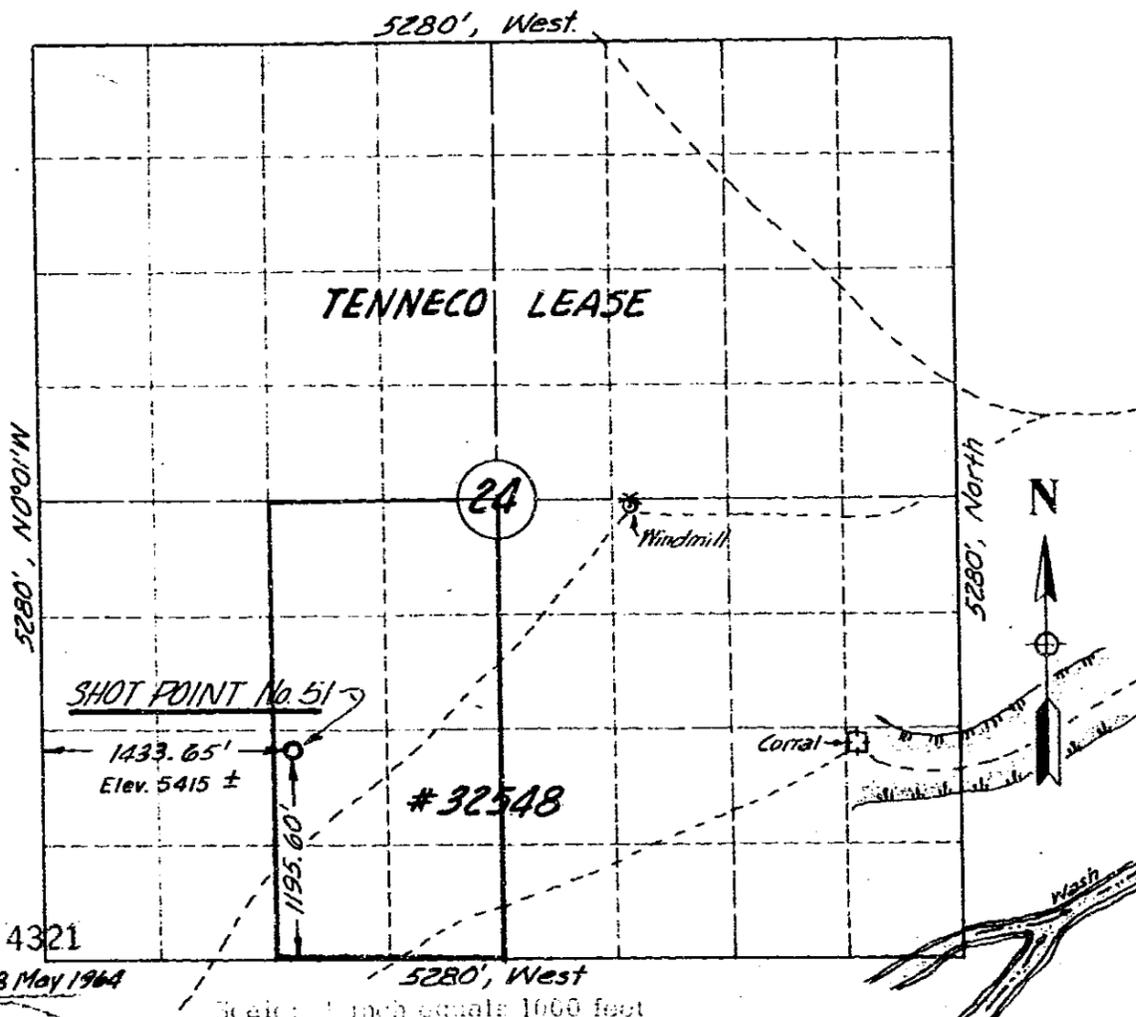
Form No. P-1



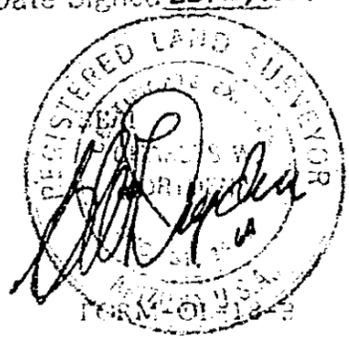
ARIZONA ENGINEERING COMPANY  
FLAGSTAFF, ARIZONA

WELL LOCATION PLAT

COMPANY Tenneco Oil Company  
 LEASE Navajo 8351 WELL NO. 1  
 SECTION 24 TOWNSHIP T.38N. RANGE R.19E.  
 WELL NAME No. 1 Navajo 8351  
 LOCATION 1196 FSL 1434 FWL Section 24, T. 38 N., R. 19 E.  
 STATE ARIZONA COUNTY NAVAJO  
 DATE SURVEYED May, 1964



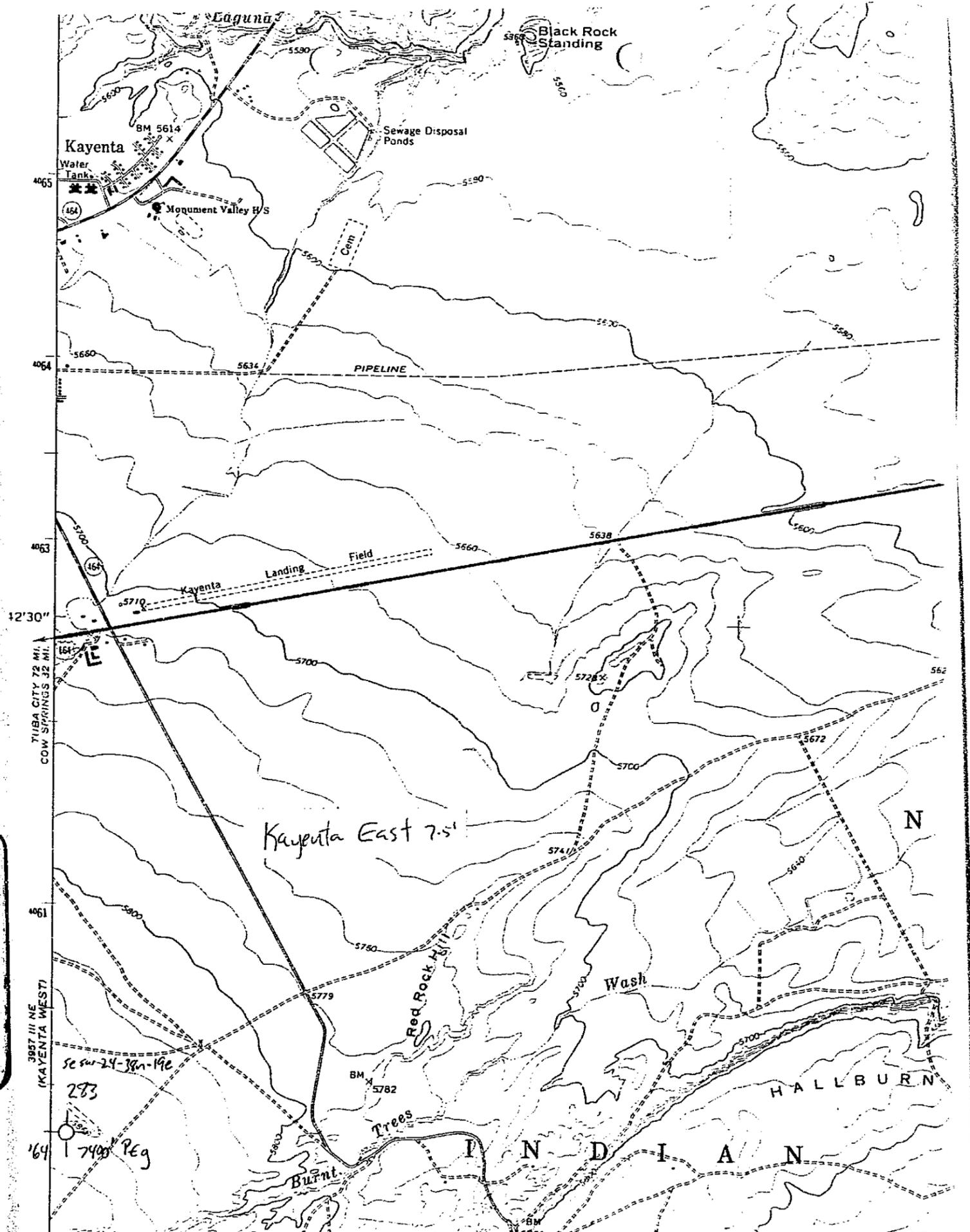
Certificate No. 4321  
Date Signed 28 May 1964



This is to certify that the above plat was prepared from field notes of actual surveys made under my supervision and that the same are true and correct to the best of my knowledge and belief.

*[Signature]*  
G. W. DRYDEN  
Registered Professional Engineer

RECEIVED  
JUL 2 1964  
STATE O & G  
CONS. COMM.



Kayenta  
Water Tank  
Monument Valley H/S

Black Rock Standing

Sewage Disposal Ponds

PIPELINE

Kayenta East 7.5'

HALLBURN

INDIAN

TUBA CITY 72 MI.  
COW SPRINGS 32 MI.

3957 III NE  
(KAYENTA WEST)

Se sur-24-38-19c  
283  
164  
7400 96g

BM 5782

Burnt

Trees

Wash

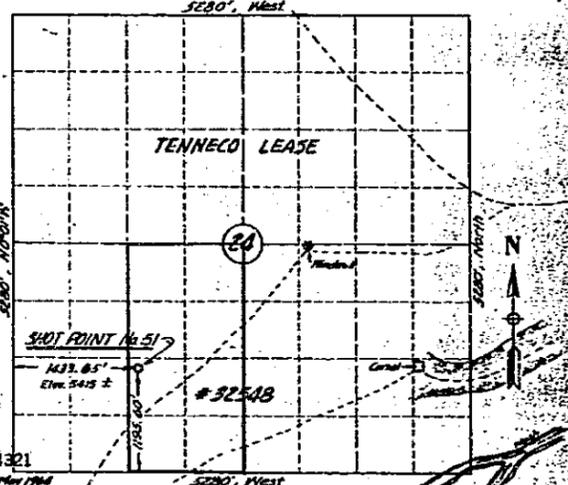
Red Rock Hill

N

ARIZONA ENGINEERING COMPANY  
FLAGSTAFF, ARIZONA

WELL LOCATION PLAT

COMPANY Tenneco Oil Company  
 LEASE Navajo 8353 WELL NO. 1  
 SECTION 24 TOWNSHIP T. 38 N. RANGE R. 19 E.  
 WELL NAME No. 1, Navajo 8353  
 LOCATION 1196 EBL 183A P.M. Section 24, T. 38 N., R. 19 E.  
 STATE ARIZONA COUNTY HAVAJO  
 DATE SURVEYED MAY, 1964



Certificate No. 4321  
 Date Signed 28 May 1964



This is to certify that the above plat was prepared from field notes of actual surveys made under my supervision and that the same are true and correct to the best of my knowledge and belief.

*[Signature]*  
 Registered Professional Engineer

ARIZONA GEOLOGICAL SURVEY 416 W. CONGRESS, SUITE 100, TUCSON, AZ 85701

**FAX**

State of Arizona  
Arizona Geological Survey  
416 W. Congress, Suite 100  
Tucson, Arizona 85701  
(520) 770-3500



Levy D. Feltus  
Director and State Geologist

Date: 12-11-96

Number of pages including cover sheet: 5

To: Don Bills  
USGS - Flagstaff

Phone:

Fax phone: 556-7169

CC:

From: Steve Rauzi

Phone: (520) 770-3500

Fax phone: (520) 770-3505

REMARKS:  Urgent  For your review  Reply ASAP  Please comment

Completion Report w/ tops for  
Tenneco / Navajo, Permit 283



ARCO Exploration & Production Technology  
2300 West Plano Parkway  
Plano TX 75075-8499

July 6, 1992

Larry D. Fellows  
Director and State Geologist  
Arizona Geological Survey  
845 North Park Ave., #100  
Tucson, Arizona 85719

*file copy in each well file 5/2 file P/W 283*

Dear Mr. Fellows,

Following the agreement set forth in the Arizona Geological Survey sample policy I am forwarding (1) the results of Rock-Eval analysis Aneth Shale cuttings samples from eight wells in the Black Mesa basin and (2) vitrinite reflectance data collected for the Amerada Hopi #1 well. We waive the rights to the six month confidentiality period.

Thank you for your cooperation.

Sincerely,

Jeff Corrigan

cc: Steve Rauzi

Table 1. Rock-Eval data for Aneth Shale from sampled Black Mesa cuttings.

Sample ID	Depth Interval (ft)	TOC (weight %)	S1 (mg/g rock)	S2 (mg/g rock)	HI (mg HC/g TOC)	OI (mg CO <sub>2</sub> /g TOC)
<b>Amerada Hopi 1 (312)</b>						
92R1477	7350-7370	0.08	0.07	0.10	125	362
92R1478	7370-7390	0.09	0.06	0.07	78	378
92R1479	7390-7410	0.07	0.04	0.01	14	514
92R1480	7410-7430	0.10	0.08	0.06	60	360
92R1481	7430-7450	0.11	0.10	0.04	36	327
92R1482	7450-7470	0.16	0.10	0.07	44	213
92R1483	7470-7490	0.13	0.06	0.02	15	246
92R1484	7490-7510	0.16	0.06	0.01	6	144
92R1485	7510-7540	0.11	0.06	0.02	18	318
92R1486	7540-7560	0.26	0.13	0.41	158	135
<b>Cactus Navajo 8515 (325)</b>						
92R1487	5540-5560	0.09	0.09	0.12	133	289
92R1488	5560-5580	0.04	0.11	0.03	72	563
92R1489	5580-5600	0.06	0.10	0.08	133	550
<b>Cactus Navajo 8816 (345)</b>						
92R1490	5540-5560	0.08	0.06	0.00	0	313
92R1491	5560-5580	0.08	0.05	0.01	13	362
92R1492	5580-5600	0.09	0.06	0.04	44	289
92R1493	5600-5620	0.07	0.05	0.02	29	429
<b>Cactus Navajo -C2 (3-5)</b>						
92R1494	4460-4480	0.08	0.06	0.04	50	425
92R1495	4480-4500	0.07	0.07	0.04	55	378
<b>Tenneco 1 Navajo (283)</b>						
92R1496	6870-6890	0.05	0.06	0.03	58	725
92R1497	6890-6910	0.07	0.09	0.09	123	434
92R1498	6910-6930	0.06	0.06	0.03	48	473
92R1499	6930-6950	0.08	0.06	0.04	51	464
92R1500	6950-6970	0.15	0.09	0.13	89	217
92R1501	6970-6990	0.19	0.09	0.16	85	218
92R1502	6990-7010	0.21	0.12	0.30	144	132
92R1503	7010-7030	0.32	0.17	0.64	202	88
92R1504	7030-7050	0.15	0.08	0.09	62	287
<b>ARCO Hopi 9-1 (312)</b>						
92R1505	6280-6300	0.11	0.14	0.18	173	323
92R1506	6300-6320	0.14	0.12	0.09	66	203
92R1507	6320-6340	0.08	0.07	0.01	12	306
92R1508	6340-6360	0.04	0.05	0.03	72	808
92R1509	6360-6380	0.13	0.08	0.01	8	220
92R1510	6380-6400	0.14	0.10	0.02	15	226
92R1511	6400-6420	0.13	0.07	0.07	56	277
92R1512	6420-6440	1.14	0.35	3.06	269	26
92R1513	6440-6460	0.31	0.15	0.59	192	115
92R1514	6460-6480	0.28	0.19	0.56	195	105
<b>Moore, Moore &amp; Miller (324)</b>						
92R1515	6540-6560	0.16	0.08	0.14	90	215
92R1516	6560-6580	0.08	0.04	0.02	24	331
92R1517	6580-6600	0.08	0.06	0.04	48	380
92R1518	6600-6640	0.11	0.07	0.03	29	323
92R1519	6640-6660	0.17	0.07	0.03	18	178
92R1520	6660-6700	0.21	0.06	0.14	67	93
92R1521	6700-6710	0.21	0.09	0.42	202	98
92R1522	6710-6730	0.26	0.08	0.39	150	223
<b>Texasco 1-A Hopi (307)</b>						
92R1523	5650-5670	0.05	0.14	0.08	154	705
92R1524	5670-5690	0.09	0.09	0.05	53	348
92R1525	5690-5710	0.09	0.08	0.05	53	316
92R1526	5710-5730	0.13	0.15	0.09	72	237
92R1527	5730-5750	0.13	0.07	0.06	48	204

ARCO OIL + GAS CO.  
PLANO  
TEXAS  
U.S.A.

Fax No. 010 1 214 754 6807

VITRINITE REFLECTANCE DETERMINATIONS SERIES 92R 1462 - 1486  
ATTN. CHARLIE LANDIS ✓

SAMPLE No.	R.O. AVER.	No. of READINGS	CONF.	U.V.	COMMENTS
92R1462	0.39	20	C	Y-Y/O SPORES	---
92R1463	0.43	4	C	Y SPORES	PHYT. DEGRADED
92R1464	0.43	10	C	Y SPORES	PHYT. V. DEGRADED
92R1465	N.D.P.	---	---	---	RED SILTY SST. HAEMATITE
92R1466	N.D.P.	---	---	---	RED SANDY SILT.
92R1467	N.D.P.	---	---	---	RED SILT.
92R1468	N.D.P.	---	---	---	RED MARL
92R1469	N.D.P.	---	---	---	Mxd. LITH. HAEMATITE
92R1470	N.D.P.	---	---	---	10% SST. 90% SH. HAEMATITE
92R1471	N.D.P.	N.D.P.	---	Y-Y/O CARB.	20% HAEMATITE CRYS.
92R1472	N.D.P.	---	---	---	RED SST.
92R1473	N.D.P.	---	---	---	RED SILTY SST.
92R1474	N.D.P.	---	---	Y/O CARB.	HAEMATITE
92R1475	N.D.P.	---	---	Y/O CARB.	70% HAEMATITE MARL
92R1476	N.D.P.	---	---	---	50% LST. HAEMATITE
92R1477	N.D.P.	---	---	Y/O CARB.	70% LST. + 30% RED SPALS
92R1478	N.D.P.	---	---	Y/O CARB.	70% LST.; 30% RED SPALS
92R1479	N.D.P.	---	---	L.O. CARB.	10% LST.; 90% RED SILTY SPALS
92R1480	N.D.P.	---	---	Y/O CARB.	30% MARLY LST. 70% RED SPALS

SAMPLE No.	R.O. ANAL.	No. of READING	CONF.	U.V.	COMMENTS
92R1481	N.D.P.	—	—	1/10 L.O. CARB.	10% ST.; 50% LST.; 40% RED SHALE
92R1482	N.D.P.	—	—	1/10 CARB.	MARLY LST. HAEM. SPERKS
92R1483	N.D.P.	—	—	1/10 CARB.	90% MARLY LST. 10% RED SHALE
92R1484	N.D.P.	—	—	1/10 CARB.	MARLY LST. HAEMATITE TERRES
92R1485	N.D.P.	—	—	1/10 CARB.	LST. HAEMATITE TERRES
92R1486	N.D.P.	—	—	1/10 CARB.	SHALY LST. HAEM. TER. GLAUCONITE

SORRY. I CAN'T REALLY DO ANYTHING WITH THIS LOT. THE FIRST FEW SAMPLES ARE O.K. BUT WHEN WE GET INTO THE RED BEDS THE PHOSPHATES DISAPPEAR. EVEN WHEN THE HAEMATITE DECREASES IN THE FINAL FEW SAMPLES, THE SUCCESSION IS ALMOST WHOLLY LIMESTONE WHICH IS BAZZED.

ANOTHER APOLOGY FOR THE HANDWRITING BUT THE SECRETARY IS ON HOLIDAY TODAY. I WILL CONSERVE THE DATA, FOR WHAT IS WORTH, LATER THIS WEEK

BEST WISHES

MICK JONES.



Bond No. 68214-13-493-64

BLANKET BOND

KNOW ALL MEN BY THESE PRESENTS,

That we: TENNECO OIL COMPANY, a Delaware corporation of the County of: Harris in the State of: Texas as Principal, and UNITED STATES FIDELITY AND GUARANTY COMPANY, 3401 FANNIN STREET, of HOUSTON, TEXAS, authorized to do business within the State of Arizona,

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The condition of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon lands situated within the State, and

WHEREAS, said Principal desires to give a blanket bond in lieu of individual bonds to cover any and all wells drilled or to be drilled by Principal within the State of Arizona.

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil & Gas Conservation Commission, especially with reference to the requirements of A. R. S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of Ten Thousand and No/100-----(\$10,000.00) Dollars

Witness our hands and seals, this 28th day of May, A. D. 1964

TENNECO OIL COMPANY

ATTEST:

*Edna Young*  
Assistant Secretary

BY: *J. S. Collins*  
Vice President Principal  
P. O. Box 2511, Houston, Texas 77001  
Business Address

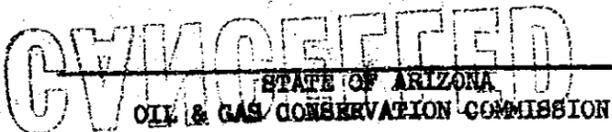
Witness our hands and seals, this 28th day of May, 1964

UNITED STATES FIDELITY AND GUARANTY COMPANY

BY: *Gene J. Resdon*  
Attorney-in-Fact Surety  
3401 Fannin Street, Houston, Texas  
Business Address

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney, or other evidence of authority must accompany the bond.)

Approved \_\_\_\_\_ Date \_\_\_\_\_



*June 10 64*

Bond No. 68214-13-493-64

BLANKET BOND

KNOW ALL MEN BY THESE PRESENTS,

That we: TENNECO OIL COMPANY, a Delaware corporation of the County of: Harris in the State of: Texas as Principal, and UNITED STATES FIDELITY AND GUARANTY COMPANY, 3401 FANNIN STREET, of HOUSTON, TEXAS, authorized to do business within the State of Arizona,

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The condition of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon lands situated within the State, and

WHEREAS, said Principal desires to give a blanket bond in lieu of individual bonds to cover any and all wells drilled or to be drilled by Principal within the State of Arizona.

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil & Gas Conservation Commission, especially with reference to the requirements of A. R. S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of Ten Thousand and No/100-----(\$10,000.00) Dollars

Witness our hands and seals, this 28th day of May, A. D. 1964

TENNECO OIL COMPANY

**CANCELLED**

DATE 10-27-65

UNITED STATES FIDELITY AND GUARANTY COMPANY, HOUSTON, TEXAS

(CERTIFIED COPY)

GENERAL POWER OF ATTORNEY

No. 62154

Know all Men by these Presents:

That UNITED STATES FIDELITY AND GUARANTY COMPANY, a corporation organized and existing under the laws of the State of Maryland, and having its principal office at the City of Baltimore, in the State of Maryland, does hereby constitute and appoint

Irene F. Risdon

of the City of Houston, State of Texas its true and lawful attorney

for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said UNITED STATES FIDELITY AND GUARANTY COMPANY, through us, its Board of Directors, hereby ratifies and confirms all and whatsoever the said

Irene F. Risdon

may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said UNITED STATES FIDELITY AND GUARANTY COMPANY has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its Vice-President and Assistant Secretary, this 4th day of February, A. D. 19 48

UNITED STATES FIDELITY AND GUARANTY COMPANY.

(Signed) By Charles C. Conlon Vice-President.

(SEAL)

(Signed) L. M. Smith Assistant Secretary.

STATE OF MARYLAND } as: BALTIMORE CITY.

On this 4th day of February, A. D. 1948, before me personally came Charles C. Conlon, Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and L. M. Smith, Assistant Secretary of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said that they resided in the City of Baltimore, Maryland; that they, the said Charles C. Conlon and L. M. Smith were respectively the Vice-President and the Assistant Secretary of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so affixed by order of the Board of Directors of said corporation, and that they signed their names thereto by like order as Vice-President and Assistant Secretary, respectively, of the Company. My commission expires the first Monday in May, A. D. 19 49

(Seal) (Signed) Dorothy S. Drexel Notary Public.

STATE OF MARYLAND } Sect. BALTIMORE CITY.

I, M. Luther Pittman, Clerk of the Superior Court of Baltimore City, which Court is a Court of Record, and has a seal, do hereby certify that Dorothy S. Drexel, Esquire, before whom the annexed affidavits were made, and who has thereto subscribed his name, was at the time of so doing a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and sworn and authorized by law to administer oaths and take acknowledgments, or proof of deeds to be recorded therein. I further certify that I am acquainted with the handwriting of the said Notary, and verily believe the signature to be his genuine signature.

In Testimony Whereof, I hereto set my hand and affix the seal of the Superior Court of Baltimore City, the same being a Court of Record, this 4th day of February, A. D. 1948

(SEAL) (Signed) M. Luther Pittman Clerk of the Superior Court of Baltimore City.

COPY OF RESOLUTION

That Whereas, it is necessary for the effectual transaction of business that this Company appoint agents and attorneys with power and authority to act for it and in its name in States other than Maryland, and in the Territories of the United States and in the Provinces of the Dominion of Canada and in the Colony of Newfoundland.

Therefore, be it Resolved, that this Company do, and it hereby does, authorize and empower its President or either of its Vice-Presidents in conjunction with its Secretary or one of its Assistant Secretaries, under its corporate seal, to appoint any person or persons as attorney or attorneys-in-fact, or agent or agents of said Company, in its name and as its act, to execute and deliver any and all contracts guaranteeing the fidelity of persons holding positions of public or private trust, guaranteeing the performances of contracts other than insurance policies and executing or guaranteeing bonds and undertakings, required or permitted in all actions or proceedings, or by law allowed, and

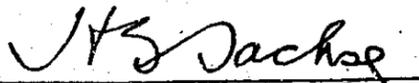
Also, in its name and as its attorney or attorneys-in-fact, or agent or agents to execute and guarantee the conditions of any and all bonds, recognizances, obligations, stipulations, undertakings or anything in the nature of either of the same, which are or may by law, municipal or otherwise, or by any Statute of the United States or of any State or Territory of the United States or of the Provinces of the Dominion of Canada or of the Colony of Newfoundland, or by the rules, regulations, orders, customs, practice or discretion of any board, body, organization, office or officer, local, municipal or otherwise, be allowed, required or permitted to be executed, made, taken, given, tendered, accepted, filed or recorded for the security or protection of, by or for any person or persons, corporation, body, office, interest, municipality or other association or organization whatsoever, in any and all capacities whatsoever, conditioned for the doing or not doing of anything or any conditions which may be provided for in any such bond, recognizance, obligation, stipulation, or undertaking, or anything in the nature of either of the same.

I, **H.G. Sachse**, an Assistant Secretary of the UNITED STATES FIDELITY AND GUARANTY COMPANY, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney given by said Company to **Irene F. Risdon**

of **Houston, Texas**, authorizing and empowering her to sign bonds as therein set forth, which power of attorney has never been revoked and is still in full force and effect.

And I do further certify that said Power of Attorney was given in pursuance of a resolution adopted at a regular meeting of the Board of Directors of said Company, duly called and held at the office of the Company in the City of Baltimore, on the 11th day of July, 1910, at which meeting a quorum of the Board of Directors was present, and that the foregoing is a true and correct copy of said resolution, and the whole thereof as recorded in the minutes of said meeting.

In Testimony Whereof, I have hereunto set my hand and the seal of the UNITED STATES FIDELITY AND GUARANTY COMPANY on **May 28, 1964**  
(Date)

  
Assistant Secretary.



TENNECO OIL COMPANY • P. O. BOX 2511 • TENNESSEE BUILDING • HOUSTON, TEXAS 77001  
October 26, 1965

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

Attention: Mr. John Bannister  
Executive Secretary

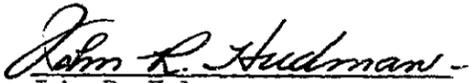
Re: U. S. Fidelity & Guaranty Company  
Bond 68214-13-493-64

Gentlemen:

Reference is made to your letter of October 15, 1965 relative to the change in bonding requirements. Since we do not contemplate any additional drilling within the near future, it is requested that liability under our subject bond be terminated.

Yours very truly,

TENNECO OIL COMPANY

  
John R. Hudman  
Properties Supervisor

JRH/ld

cc: Mr. J. David Baird, Fire & Casualty

cc: Mr. A. H. Trostman  
Tenneco Oil Company  
201 Wall Building  
Midland, Texas 79702



October 15, 1965

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

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

Gentlemen:

As you are aware, the captioned bond in the amount of \$10,000 is on file with this Commission to cover bonding requirements of this Commission.

As a result of the public hearing held September 22, 1965 in Phoenix, Arizona, concerning the Rules and Regulations of this Commission, the bonding requirements have been increased to \$5,000 for a single well and to \$25,000 for a state-wide blanket bond.

As required by law, certified copy of the new Rules and Regulations was filed with the Secretary of State on October 1, 1965, and consequently on that date the new Rules became effective.

In reviewing our files we note that all wells drilled by you have been completed and all information has been filed in accordance with our Rules and Regulations. Therefore, if you desire, this bond may be terminated after written request from you is received in this office. At such time as you again commence operations in Arizona it will be necessary that a new bond in the amount of \$25,000 be filed with this Commission.

If you desire to maintain a current bond, it is requested that at your earliest convenience you take the necessary steps to increase your state-wide bond to \$25,000. Upon receipt of your new bond then the old bond of course may be released.

Your earliest cooperation will be appreciated.

Yours very truly,

John Bannister  
Executive Secretary  
nr



SAMUEL P. GODDARD  
GOVERNOR  
LYNN LOCKHART  
CHAIRMAN  
R. KEITH WALDEN  
VICE CHAIRMAN  
ORNE 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: 271-5161

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  
mf

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



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

February 22, 1965

Oil & Gas Conservation Commission  
State of Arizona  
Room 202, 1624 West Adams  
Phoenix, Arizona 85007

ATTENTION: Mr. J. R. Scurlock

Gentlemen:

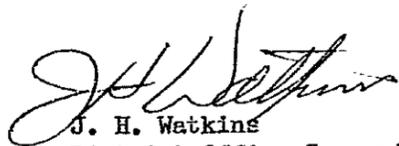
Attached are copies of three logs run in Navajo 8351-1 Well.  
Also attached is Well Completion Report and Well Log, as  
requested by your office.

We would appreciate it very much if you could keep the informa-  
tion and logs confidential until we are in a position to  
release all information on this well. Sorry for the delay in  
submitting.

*Released  
1-27-65*

Yours very truly,

TENNECO OIL COMPANY

  
J. H. Watkins  
District Office Supervisor

HON:sg

Attachments: 3 logs  
Well Completion Report and Well Log



February 17, 1965

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

Attention: Mr. J.H. Watkins

Re: Tenneco Navajo 8351-1 well  
SE/4SW/4 S24-T-38N-R19E, Navajo County, Arizona  
Permit 283

Gentlemen:

Captioned well was plugged July 26, 1964. According to Arizona's Rules and Regulations Well Completion Report and all logs run must be submitted to this Commission within sixty days from date of completion.

To date these have not been received. For your convenience we are enclosing copies of the Well Completion Report form and we do request that it and duplicate copies of the logs be forwarded to this Commission as soon as possible.

Yours very truly,

J.R. Scurlock  
Geologist  
mr  
enc

XXXXXXXXXXXXXX  
XXXXXX

July 31, 1964

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

Attention: Mr. J. H. Watkins

Re: Tenneco Oil Company - Navajo 8351 Well No. 1  
Our File No. 283

Gentlemen:

Enclosed for your files is approved Application to Abandon  
and Plug captioned well.

Very truly yours,

John Bannister  
Executive Secretary

JB:mkc  
Encl.



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

July 29, 1964

Mr. John Bannister  
Arizona Oil & Gas Conservation Commission  
Suite 202, 1624 W. Adams Street  
Phoenix 7, Arizona

Dear Mr. Bannister:

Enclosed are Arizona Commission forms No. P-15 and No. 15-A, pertaining to our Navajo 8351 No. 1, Navajo County, Arizona. Also enclosed are USGS Sundry Reports pertaining to water shut off, Notice of Intent to abandon, and Subsequent Report of Abandonment. It is requested that all information contained in these reports be kept confidential.

Yours very truly,

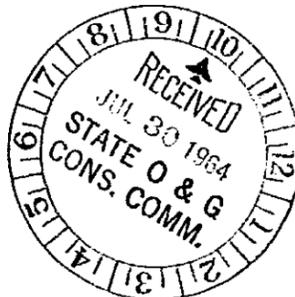
TENNECO OIL COMPANY

  
J. H. Watkins  
District Office Supervisor

*Release  
1-29-65*

:bjo

Encl.



# 283  
**CONFIDENTIAL**



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

June 17, 1964

Re: Lease 32548  
Kayenta Area  
Navajo County, Arizona

Mr. John K. Petty  
Petroleum Geologist  
Oil & Gas Conservation Commission  
State of Arizona  
1624 West Adams  
Phoenix 7, Arizona

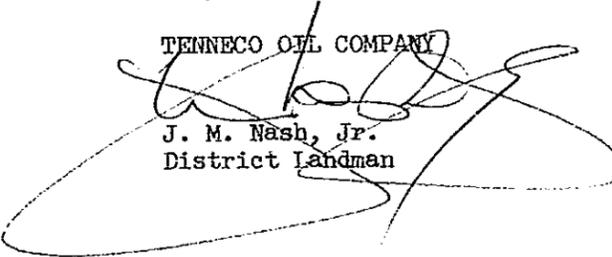
Dear John:

I enclose herewith the original of an Organization Report from the Tenneco Oil Company, duly completed and signed by L. R. Spence, Secretary of Tenneco Oil Company, on June 15, 1964.

I believe that the enclosed will complete all papers necessary for your files. If not, please advise me.

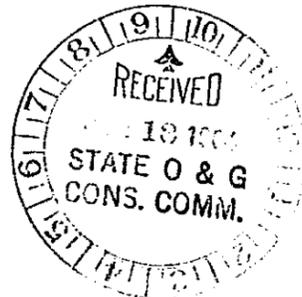
Very truly yours,

TENNECO OIL COMPANY

  
J. M. Nash, Jr.  
District Landman

encls.  
JMN:js

CC: Mr. A. H. Frostman  
Mr. John R. Hudman



JKD

MEMO

June 10, 1964

TO: John Petty  
FROM: John Bannister

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RE: Tenneco Oil Company Navajo No. 8351 No. 1 Well  
1434 FWL, 1196 FSL, Section 24 - T38N - R19E  
Navajo County, Arizona

Our File No. 283

Mr. Watkins of Tenneco advised me this date that the captioned well should be spudded on June 11, 1964.

The Organization Report which had caused our delay in issuing this permit is currently in Houston for execution and will be forwarded to this office soon. Consequently, I have issued the permit in order to avoid unnecessary delay.

JB:mkc

June 10, 1964

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

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

Re: Tenneco Oil Company Navajo No. 8351 No. 1 Well  
1434 FWL, 1196 FSL, Section 24-T38N-R19E  
Navajo County, Arizona  
Our File No. 283

Gentlemen:

Enclosed please find approved copy of Permit No. 283 authorizing the commencement of the captioned well. This letter will evidence the approval of the Oil and Gas Conservation Commission of the State of Arizona of this unorthodox location.

We have been advised by phone on this date that the Organization Report on Tenneco Oil Company is presently being processed and will be forwarded to this office in the near future.

May we wish you the best of luck on this venture.

Yours very truly,

John Bannister  
Executive Secretary

JB:mkc  
Encl.



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

June 4, 1964

Arizona Oil & Gas Conservation Commission  
Suite 202, 1624 W. Adams  
Phoenix, Arizona

Attention: Mr. John Petty

Dear Sir:

Re: No. 1 Navajo 8351

In reply to your letter of June 2, 1964, we wish to advise that our location of subject well is not in strict accordance with the 330-acre spacing pattern due to our desire to place this well on a specific geological structure.

Yours very truly,

TENNECO OIL COMPANY

  
J. H. Watkins  
District Office Supervisor

JHW:bjo



June 2, 1964

Mr. J. H. Watkins, District Office Supervisor  
Tenneco Oil Company  
P. O. Box 1714  
Durango, Colorado

Re: Navajo 8351 Well No. 1  
Section 24 - T38N - R19E, Navajo County, Arizona  
Our File No. 283

Dear Mr. Watkins:

This acknowledges receipt of Application to Drill, plats,  
filing fee and bond in connection with captioned well.

It is necessary that we have an Organization Report on  
file for your company; therefore enclosed are two copies  
of same which we ask that you complete and return one  
copy to us as soon as possible, so that your permit may  
be granted.

Very truly yours,

John K. Petty  
Petroleum Geologist

JKP:nkc  
Encl. 2



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

June 1, 1964

Arizona Oil & Gas Conservation Commission  
Suite 202, 1624 W. Adams Street  
Phoenix 7, Arizona

Gentlemen:

Enclosed is an Application to Drill our Navajo No. 1-8351 in Navajo County, Arizona. Also attached are plats showing the well location and acreage dedicated. It is requested that all information pertaining to this well be kept confidential.

Yours very truly,

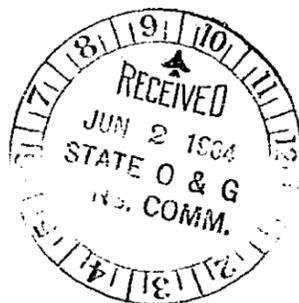
TENNECO OIL COMPANY

  
J. H. Watkins  
District Office Supervisor

:bjc

Encl.

PS: Also attached is our Working Fund Check No. 370 for the filing fee pertaining to this application.



**TENNECO OIL COMPANY**  
 DURANGO, COLORADO  
**REMITTANCE STATEMENT**

DATE	INVOICE No.	PARTICULARS	AMOUNT	DISCOUNT	NET	
6-1-64		Filing fee for application to drill # 8351 - Navajo County, Arizona	Navajo, \$25.00		\$25.00	1
						2
						3
						4
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283

TAXPAYER IDENTIFICATION NO. \_\_\_\_\_