SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

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DEPARTMENT	OF	THE	INTERIOR

		TED STATES T OF THE IN		reverse side)	30-045-24789 5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	GICAL SURVEY	r		NOOC-14-20-7971 3.143
APPLICATIO	N FOR PERMIT	TO DRILL, DE	EPEN, OR PI	LUG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Joe Bonnie
A. TYPE OF WORK DR	RILL 🗵	DEEPEN 🗆	.→ PLU	JG BACK 🗆	7. UNIT AGREEMENT NAME
	WELL X OTHER		SINGLE X	MULTIPLE	S. PARM OR LEASE NAME
NAME OF OPERATOR	VELL COM OTHER		ZONE GE	2012	- Navajo
Tenneco Oi	1 Company				9. WELL NO.
ADDRESS OF OPERATOR					#2E
P.O. Box 3	3249, Englewood,	Colorado 80	0155		10. FIELD AND POOL, OR WILDCAT
At surface	Report location clearly and	in accordance with a	any State requiremen	its.*)	Basin Dakota
1660	FSL, 870 FWL				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. so	ne				
	as above				Sec. 28, T26N, R11W
	AND DIRECTION FROM NEA				12. COUNTY OR PARISH 13. STATE San Juan N.M.
Approximat	ely 1/2 mile We		Trading Pos		
LOCATION TO NEARES PROPERTY OR LEASE	ST	, i		100	O. OF ACRES ASSIGNED OTHIS WELL
(Also to nearest dr)	lg. unit line, if any)	870	2039,26		W/320
DISTANCE FROM PROTO NEAREST WELL, I	DRILLING, COMPLETED,	11	9. PROPOSED DEPTH ±6000	20. BC	TARY OR CABLE TOOLS
OR APPLIED FOR, ON TE	<u> </u>		<u> </u>		Rotary
ELEVATIONS (Show Wi	hether DF, RT, GR, etc.)	6131 ' GR			22. APPROX. DATE WORK WILL STAR February 1981
	1	PROPOSED CASING	AND CEMENTING	PROGRAM	——————————————————————————————————————
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER FOOT	SETTING DE	EPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" new	36#	±250	Circ	culate to surface
7 7/8"	4 1/2" new	11.6#, 10.5	# ±6000	Cem	ent in two stages
mague o e		NO ARE			The state of the s
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ABOVE SPACE DESCRIB	E PROPOBED PROGRAM : If	proposal is to deepen	JAN 1	9 1981 Late CO Wesser D	roductive sone and proposed new product
ABOVE SPACE DESCRIB	E PROPOSED PROGRAM: If drill or deepen directions	proposal is to deepen	JAN 1	9 1981 late of present properties and present	roductive sone and proposed new product ared and true vertical depths. Give blowd
ABOVE SPACE DESCRIB	E PROPOSED PROGRAM: If drill or deepen directions	proposal is to deepen	JAN 1	9 1981 lata Con Wessen pre-	roductive sone and proposed new producti ared and true vertical depths. Give blowd
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ABOVE SPACE DESCRIB	TE PROPOSED PROGRAM: If drill or deepen directions	proposal is to deepen	JAN 1 or pare of the constraint of the constrain	etiogs and neast	ared and true vertical depths. Give blowd
ABOVE SPACE DESCRIB ie. If proposal is to venter program, if ar siened (This space for Federal	TE PROPOSED PROGRAM: If drill or deepen directions as: Ro, A. Mi	proposal is to deepen ally, give pertinent da	JAN 1 or phenets, 800 ata on subsurfacile sr. Product	tion Analys	ared and true vertical depths. Give blowd
ABOVE SPACE DESCRIB	TE PROPOSED PROGRAM: If drill or deepen directions as: Ro, A. Mi	proposal is to deepen ally, give pertinent da	JAN 1 or pare of the constraint of the constrain	tion Analys	December 10, 19
ABOVE SPACE DESCRIB	TE PROPOSED PROGRAM: If drill or deepen directions as: Ro, A. Mi	proposal is to deepen ally, give pertinent da	JAN 1 or physically at on unbourface to see the second sec	tion Analys	roductive sone and proposed new productive and true vertical depths. Give blowd state December 10, 19

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STATE OF NEW MEXICO DIERGY AND MINERALS DEPARTMENT

Actual Footage Location of W

Producing Formation

Operator

Unit Letter

Ground Level Elev:

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107

Acres

		All distances	must be few	m the cuter hounds	seles ed t	the Section.		
TENNECO (OIL COMPANY			NAVAJO			Well No. 2E	
it Letter L	Section 28	Township 26N		Range 11W	C	San Juan		
tual Footage L 1660	Location of Well:	South	line and	870	feet f	wm the West	line	

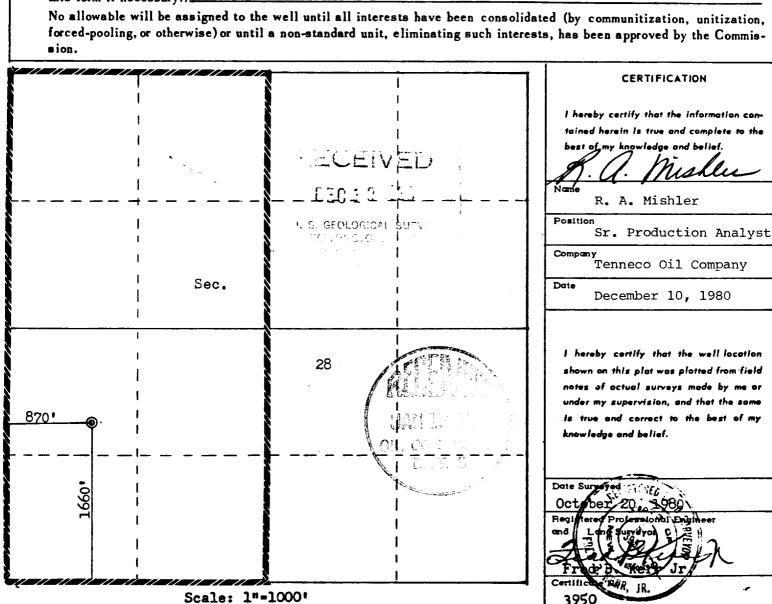
feet from the

- 6131 Dakota Basin Dakota 320 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

Yes	☐ No	If answer is "yes," type of consolidation
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If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.).

forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-



I hereby certify that the information con-

Dedicated Acreage:

shown on this plat was plotted from field notes of octual surveys made by me or under my supervision, and that the same is true and correct to the best of my

TENNESS GIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE: September 10, 1980

LEASE: Navajo

WELL NO.: 2E

LOCATION: 1660 FSL, 870 FWL

Sec. 28, T26N, R11W

San Juan County, New Mexico

FIELD: Gallegos Canyon

Area

ELEVATION: 6131 Est. G.L.

TOTAL DEPTH: 6000

PROJECTED HORIZON: Dakota B

SUBMITTED BY: Dale Kardash DATE: September 10, 1980

APPROVED BY: Jah 20. Que DATE: 9/5/50

CC: Administration DSB Well File

Field File

ESTIMATED FORMATION TOPS

4775

Ojo		
Fruitland	1125	(Water)
Pictured Cliffs	1250	(Gas)
Lewis	1390	
Cliff House	2100	(Gas)
Menefee	2185	(Gas)
Point Lookout	3400	(Gas)
Mancos	3900	

Greenhorn 5650

Gallup

Dakota 5770 (Gas)

T.D. 6000

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ORILLING, CASING, AND CEMENTING PROGRAM

- 1. MIRURT.
- 2. Drill a 12 1/4" hole to \pm 250' with Gel-Water Mud.
- 3. RU and run 9 5/8", 36#, K-55, ST&C casing to TD. Cement with Class B + 2% CaCl $_2$ in sufficient quantity to circulate cement to surface. WOC 12 hours.
- 4. Screw on 9 5/8 8rd x 11-3000 casing head, NU BOPS. Pressure test casing, lines, and blinds to 1000 PSI for 30 minutes. GIH with drill pipe and test pipe rams to 1000 PSI for 30 minutes. Record all tests on IADC Report.
- 5. Drill out using a 7 7/8" Bit to T.D. Log open hole as directed by G.E. Department.
- 6. Run 4 1/2", 11.6, and 10.50#, K-55, ST&C as designed.
- 7. Cement in two stages with sufficient volume to circulate cement to surface. Locate DV tool + 250' above Cliffhouse to prevent lost returns in Mesaverde. Lead in first stage with light cement (pozmix, Halliburton lite, etc.). Tail in with sufficient volume of Class "B" cement to cover the Dakota. Circulate a minimum of four hours between stages. Lead in second stage with light cement.
- 8. Install tree and fence reserve pit.
- 9. If non-productive, P & A as required by the USGS.

Casing Program Interval Length Size Weight Grade Coupling 0-250 250 9 5/8 36# K-55 STC 0-6000 6000 4 1/2 10.5# K-55 STC

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0-250 Spud mud.

250-6000 Low solid, fresh water mud. (Nater and Denex.) Mud up prior to running casing.

Gas.

EVALUATION

Cores and DST's: None.

Daviation Surveys:

- Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is 1-1/2°.
- 3. From surface to total depth, deviation surveys must be taken every 500' or each trip, whethever is first. This may entail running the TOTCO on wireline. Record each survey on the IACC Drilling Report Sheet. Maximum allowable change in deviation is 1° per 100'. Maximum deviation allowable is 5°.

<u>Samples:</u> As requested by Wellsite Geological Engineer.

Logs: 1. GR/IND FDC-GR-Cal TD to %%

BLOWDUT EQUIPMENT

11" - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC Drilling Report Sheet.

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REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 A.M. Monday thru Friday.

TENNECO OIL COMPANY
P.O. BOX 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

Office Directory

Don S. Barnes	740-4814
John W. Owen	740-4810
Tom Dunning	740-4813
Jack Magill	740-4802
Dale Kardash	740-4809

In case of emergency or after hours call the following in the preferred order.

(1)	Don S. Barnes Division Drilling Engineer	740-4814 936-0704	
(2)	John W Owen	740_4810	Office

Project Drilling Engineer 795-0221 Home

(3) Mike Lacey 797-2651 Home Division Production Manager

TENNECO OIL COMPANY - 10 POINT PLAN

The geological name of the surface formation: Racements
Estimated Formation Tops: 1.

Estimated Formation Tops: 2 & 3.

(See Attached Drilling Procedure)

4.. Proposed Casing Program:

(See Attached Drilling Procedure)

- 5. **Blowout Preventors:**
 - Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
- Mud Program: (Sufficient quantity of mud and weight material will be available 6. on location).

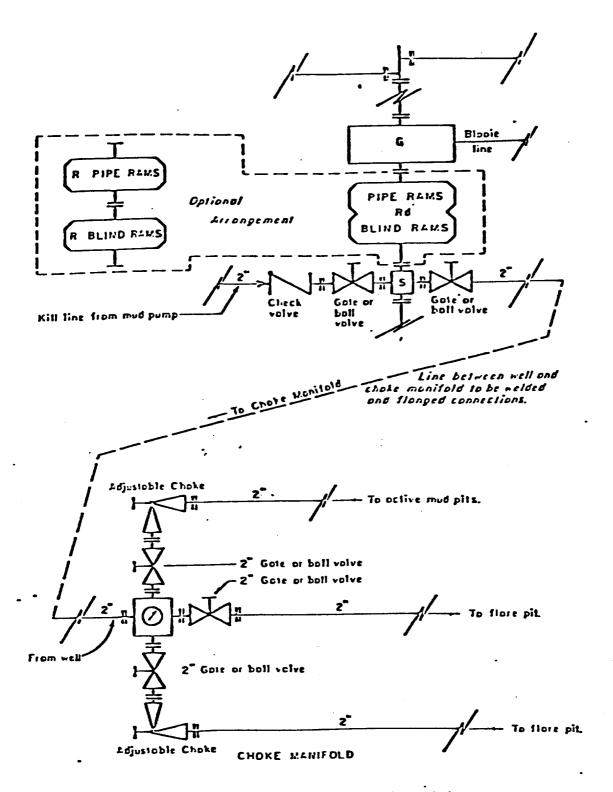
(See Attached Drilling Procedure.

- 7. Auxiliary Equipment:
 - a. Kelly cock will be in use at all times.
 - b. Stabbing valve to fit 'drill pipe will be present on floor at all times.
 - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
 - d. Floats at bits.
 - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
- 8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)

- 9. No abnormal pressures, temperatures or potential hazards such as H2S are expected to be encountered.
- The drilling of this well will start approximately filling () and continue for 10 to 12 days. 10. continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.



All equipment to be 3,000 psi working pressure except as noted.

- Rd Double com type preventer with two sets of coms.
- R Single rom type preventer with one set of roms.
- S Drilling spool with side outlet connections for choke and kill lines.
- G Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
REQUIRED MINIMUM
BLOWOUT PREVENTER AN
CHOKE MANIFOLD
J. MAGILL 10-26-70 EVI

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2.
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a private source.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at lease three feet (3'). A latrine, the location of which is also shown on Plat No. 1. will be provided for human waste. If large amounts of liquids are J left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.

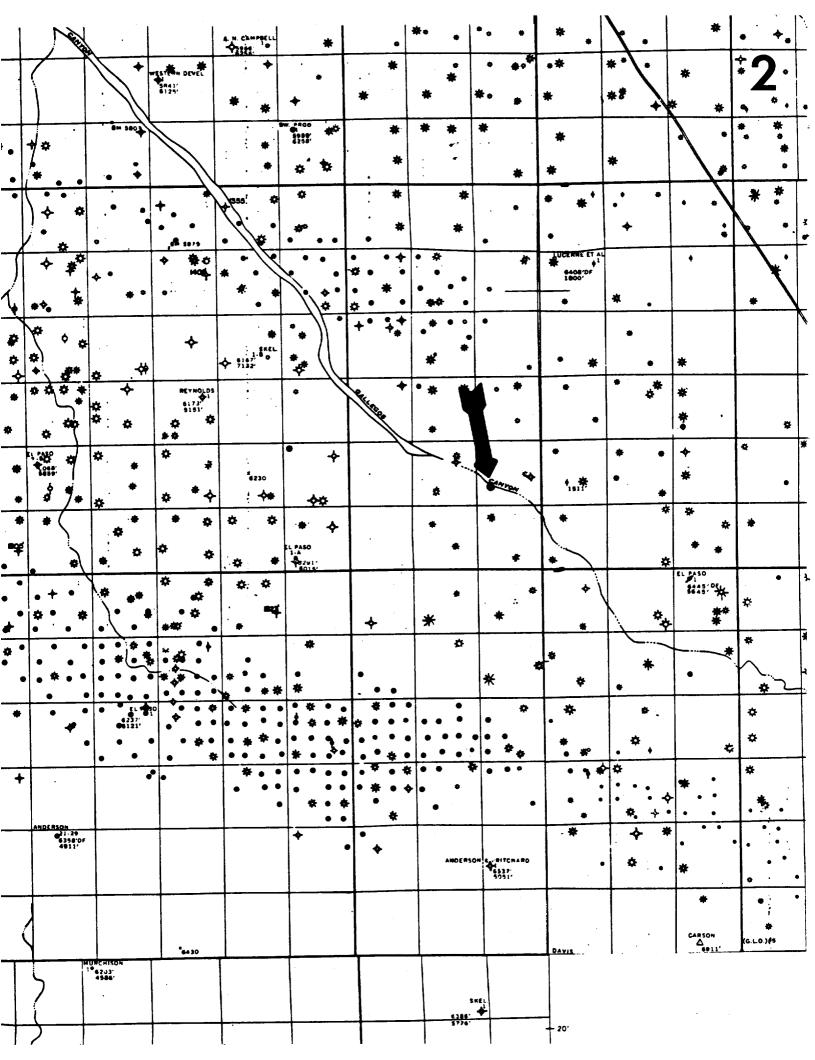
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project
 the location will be cleaned and leveled. The location will be
 left in such a condition that will enable reseeding
 operations to be carried out. Seed mixture as designated
 by the responsible government agency will be used. The
 reseeding operation will be performed during the time
 period set forth by the regulatory body. The location
 production equipment will be painted as designated by the
 responsible government agency.
- 11. Other Information Location is on a sage flat. Soil is sandy clay. Drainage is northeasterly. Vegetation includes sage, snakeweed, Indian ricegrass, alkalai socotone, and other native grasses.
- 12. Operator's Representative See drilling prognosis.
- 13. Certification -

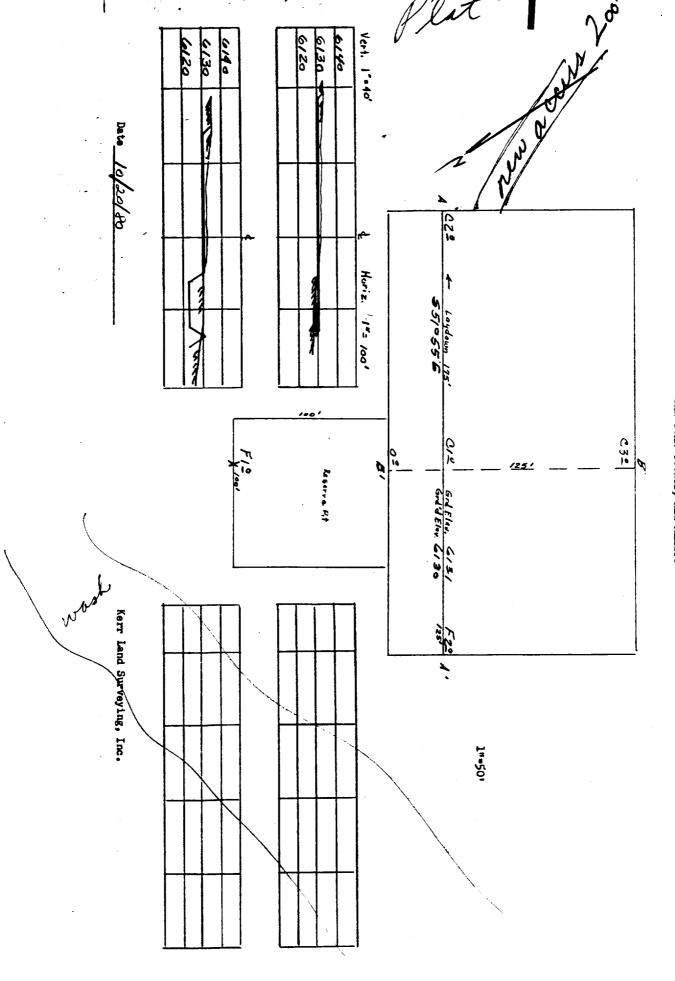
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements mad in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Tenneco Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

R. A. Mishler

Sr. Production Analyst







Profile Map for TENNECO OIL COMPANY #2E NAVAJO 1660'FSL 870'FWL Sec. 28-T26N-R1LW SAN JUAN COUNTY, NEW MEXICO