SUBMIT IN TRIPLICATE. (Other instructions on

Form approved. Budget Bureau No. 42-R1425.

	UNIT DEPARTMENT	TED STATES T OF THE I		RIOR	reverse s	ide)	5. LEASE DESIGNATIO	22581	
	GEOLO	GICAL SURV	ΕY	_			Contract #		o.
APPLICATION	N FOR PERMIT	TO DRILL I	DEEDI	N OP	DI LIC B	ACK	6. IF INDIAN, ALLOTT		Œ
1a. TIPE OF WORK	1 TOK TEKNIII	O DRILL, I	JELI I	-14, OK	LUG B	- ACK	Jicarilla		
b. TYPE OF WELL		DEEPEN [Pl	UG BA	ok 🗆	7. UNIT AGREEMENT	NAME	_
WELL W	YELL X OTHER			NGLE X	MULTIP Zone	" 🗆 🖠	8. PARM OR LEASE N.	IME	_
2. NAME OF OPERATOR	_	3					near	ulla .	J
Tenneco Oil	Company	Ĉŧ.				7	9. WELI NO.		_
	49, Englewood,	Colorado 15	0155		11/11	· 1	#2E		_
4. LOCATION OF WELL (R.	eport location clearly and	in accordance wit	h any S	thee requirem	ents.*)	- -	10. FIELD AND POOL,	OR WILDCAT	
At Buriace	FSL, 1520 FEL	\	•			1. [11. SEC., T., R., M., OR	BLK.	_
) At proposed prod. son	ie	1	DEC 1 5 1980				AND SURVEY OR	REA	
same	as above			a 050) 03	ICAL SURV	/EY	Sec. 18, T	26N, R5W	
14. DISTANCE IN MILES A	as above	EEST TOWN OR POS	OFFICE	FARMINGT	ON, N. M.		12. COUNTY OR PARIS	H 13. STATE	_
Approximate.	ly 24 miles NW	of Lindrith	<u> </u>				Rio Arriba	N.M.	
16. DISTANCE FROM PROPU LOCATION TO KRAREST PROPERTY OR LEASE L	•		16. No	OF ACRES II	LEASE	17. NO. O	OF ACRES ASSIGNED HIS WELL 320		_
(Also to nearest drig	r. unit line, if any)	120'		2558.36					
18. DISTANCE FROM PROP- TO NEAREST WELL, DI OR APPLIED POR, ON THI	RILLING, COMPLETED.	**	19. PR	0 P08ED DEPTH ±7555	I	20. ROTAL	RY OR CABLE TOOLS		_
21. ELEVATIONS (Show whe				±7333		1	Rotary		
	emer Dr. Mr. dit. eu.;	6601 GR					January		r•
23.	P	ROPOSED CASIN	G AND	CEMENTIN	G PROGRA	M			_
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	тос	SETTING			QUANTITY OF CEMI		
12 1/4"	9 5/8" new	36#		±30			ulate to surfa		
7 7/8"	4 1/2" new	11.6#, 10	<u>•5#</u>	±755	5	Cemen	nt in two stac	jes	_
Frankling Resident	TO ACTIONIZED ARE	a a]						
one. If proposal is to dreventer program, if any	dedicated. PROPOSED PROGRAM: If particular in the proposed program is the proposed processor.	proposal is to deep lly, give pertinent	en or pl data or	ug back, give n subsurface l	data on pr	OII CO	QN 9 1987 S. COM	ed new producti	194
\mathcal{B}	1. miske	~	Sr	. Produc	ction A	nalyst	Decembe	r 10, 198	30
SIGNED .	R. A. 1	tishler ***					DATE	, = -	_
(This space for Feder	al or State office use)								_
PERMIT NO.				APPROVAL DAT	E		•		
	APPROVE	D	'			, .			_
APPROVED BYCONDITIONS OF APPROVA	AS AMEND	_	LE				DATE		_

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DIAN () 7 1981

See Instructions On Reverse Side

DISTRICT ENGINEER

NUMBE

STATE OF NEW MEXICO EHERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

FORM 24-11

All distances must be from the cuter boundaries of the Section.							
Operator			Lease				Well No.
TENNECO OI	L COMPANY Section	Township		ICARILLA MAM			2E
O Actual Footage Loca	18	26N		5W *	County Rio A	rriba	
1120	_	uth 111	ne cand 1	520 fee		Do od	
Ground Level Elev:	Producing For		Pool	100	from the	East	line Dedicated Acreage:
6601	Dakota		B	asin Dakota			320 Acres
1. Outline the	e acreage dedica	ted to the subj			r hechure m	arks on th	
2. If more th interest an	 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 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 that dated by co	n one lease of dommunitization, u	ifferent ownersh mitization, force	ip is dedica -pooling. etc	ted to the well, ?	have the in	terests of	all owners been consoli-
Yes	No If an	swer is "yes,"	type of cons	olidation			
If answer i	s "no," list the o	owners and trac	t description	s which have a	tually been	consolida	ted. (Use reverse side of
No allowab	le will be assigne	ed to the well un or until a non-st	til all intere andard unit,	sts have been deliminating suc	consolidated h interests,	l (by communication like) has been	nunitization, unitization, approved by the Commis-
							CERTIFICATION
	i			1			CERTIFICATION
	· i			i		I hereby c	ertify that the information con-
				i			ein is true and complete to the
	1		0	i			knowledge and belief.
				1		R.O	Mishler
				1		Name	77007000
	· 			7			. Mishler
	1	Š		1		Position Sr 1	Production Analyst
	•			İ		Company	Froduction Analyst
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	Sec	• 3 🚦		· 1		Date	
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	Scale	e: 1"=1000'				A SOLEN	CEXIVE IN

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE: September 23, 1980

LEASE: Jicarilla WELL NO.: A-2E

LOCATION: 1120 FSL, 1520 FEL FIELD: Basin Dakoa Section 18, T26N, R5W

Rio Arriba County, New Mexico

ELEVATION: 6601

TOTAL DEPTH: 7555

PROJECTED HORIZON: Dakota

SUBMITTED BY:_	Bruce Ladd	DATE: September 23, 1980
APPROVED BY:	DJ. Karlash	DATE: <u>Movember 12, 1</u> 980

CC: Administration DSB Well File Field File

ESTIMATED FORMATION TOPS

Ojo	1705	Water
Fruitland	•	
Pictured Cliffs	3025	Gas
Lewis	3105	
Cliff House	4735	Gas
Menefee		Gas
Point Lookout		Gas
Mancos	5430	
Gallup	ı	
Greenhorn	71 55	
Dakota	7255	Gas
T.D.	7555	

DRILLING, CASING AND CEMENTING PROGRAM

- MIRURT
- 2. Drill a 12½" Hole to ± 300' 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 $4\frac{1}{2}$ " 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 Mesa Verde. 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. MORT
- 9. Install tree and fence reserve pit.
- 10. If non-productive, P & A as required by the USGS.

Casing Program

Interval	Length	<u>Size</u>	Weight	Grade	Coupling
0-300	300	9 5/8	36#	K-55	STC
6930 - 7555	625	4 1/2	11.6#	K-55	STC
6930 - 0	6930	4 1/2	10.5#	K-55	STC

MUD PROGRAM

0-300 Native solids. Have sufficient viscosity to gel chemical to clean hole and run casing.

300-TD Low solids. Gel chemical. 32 viscosity and 10-15 water loss down through the Mancos. Before reaching Gallup, add 6% LCM and run viscosity at 38-40 seconds. After penetrating Gallup, let LCM drop.

EVALUATION

Cores and DST's: None.

Deviation Surveys:

:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is 1-1/2°.
- 2. From surface to toal depth, deviation surveys must be taken every 500' or each trip, whichever is first. The may entail running the TOTCO on wireline. Record each survey on the IADC 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 MV

BLOWOUT 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.

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

740-4814
740-4810
740-4813
740-4802
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 Project Drilling Engineer	740-4810 795-0221	
(3)	Mike Lacey Division Production Manager	797-2651	Home

-

TENNECO OIL COMPANY - 10 POINT PLAN

The geological name of the surface formation: 1.

Estimated Formation Tops: 2 & 3.

(See Attached Drilling Procedure)

Proposed Casing Program: 4..

(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).

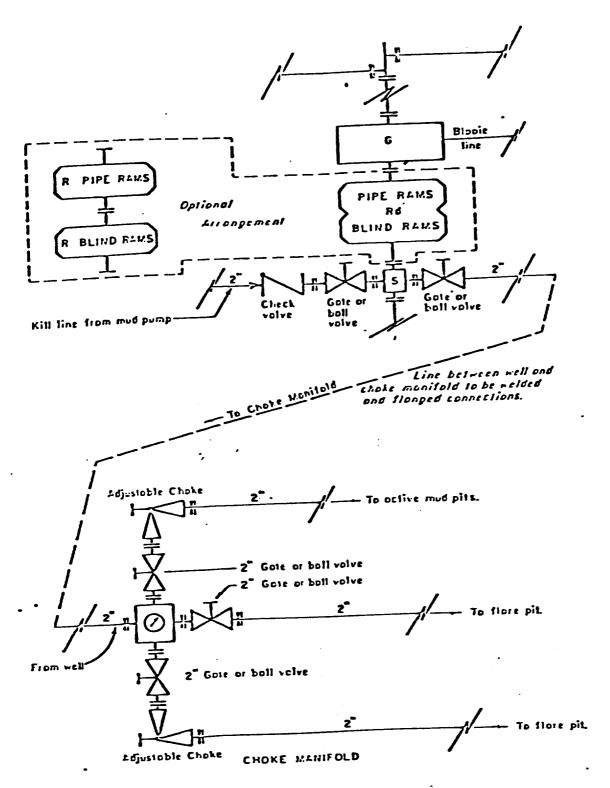
(See Attached Drilling Procedure.

- Auxiliary Equipment: 7.
 - 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.
- Coring, Logging, and Testing Program: 8.

(See Attached Drilling Procedure)

- No abnormal pressures, temperatures or potential hazards such as H2S are ex-9. pected to be encountered.
- The drilling of this well will start approximately (annual) 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.

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

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION

REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD

10-26-78 EVI J. MAGILL

- 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 The location is on a relatively flat area draining to the SE.

 Soil is sandy clay. Vegetation includes sage, pinon & juniper, snakeweed, galleta 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





