SUBMIT IN TRIPLICATE*

Form approved.

425.

	(Other instructions on	Budget Bureau No. 42-R14
UNITED-STATES	reverse side)	30-045-2396
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	DEPARTMEN'	T OF THE I	NTERIO	₹				-0376E	
						5. LEASE DESIGNATION			
GEOLOGICAL SURVEY						NM-013860-A			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							6. IF INDIAN, ALLOTTE	E OR TRIBE NAME	
1a. TYPE OF WORK									
DRI	LL 🛣	DEEPEN [PLUG	BACK		7. UNIT AGREEMENT N	AME	
b. TYPE OF WELL									
OIL GA	ELL XX OTHER		SINGLE ZONE		MULTIPLE ZONE		8. FARM OR LEASE NA	ME	
2. NAME OF OPERATOR							Russell		
Tenneco Oil Co	ompany						9. WELL NO.		
3. ADDRESS OF OPERATOR		·					#3	-	
720 S. Colorad	do Blvd., Denve	r, CO 802	22				10. FIELD AND POOL, C	R WILDCAT	
4. LOCATION OF WELL (Re	eport location clearly and	In accordance wit	h any State r	equirements.	•)		Basin Dakot	a 🖊	
		from Doot	1:00				11. SEC., T., R., M., OR	BLK.	
 1,120' from No At proposed prod. zone 		from East	TIUE				AND SURVEY OR AS	ELA	
At proposed prod. zone							Sec. 25, T	28N, R 8W	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE®							12. COUNTY OR PARISH	13. STATE	
12.8 miles SF	E of Blanco, NM						San Juan	NM	
15. DISTANCE FROM PROPO	SED*		16. No. of	ACRES IN LEA	SE 1	7. NO 0	F ACRES ASSIGNED		
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.		1.2	00.00			0.00	_	
(Also to nearest drig 18. DISTANCE FROM PROPO			19. PROPOSE				TY OR CABLE TOOLS		
TO NEAREST WELL, DE	RILLING, COMPLETED,			-	-	Rot			
									
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6,310							22. APPROX. DATE WORK WILL START* ASAP		
23.						ADAI			
20.	I	PROPOSED CASIN	G AND CEM	ENTING PI	ROGRAM				
SIZE OF HOLE	SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH			QUANTITY OF CEMEN	īT				
13 3/4"	9 5/8 new	36# K-55		250' ±	C	ircul	ate to surface		
8 3/4"	7" new	23# K-55	3	,500'±	Ci	ircul	ate to surface		
$6\frac{1}{4}$ " $4\frac{1}{4}$ " new $10.5-11.6$ #		7	,343'	C	ircul	rculate through liner har			
	•			•	1		3 ·	5	
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SEE ATTA	CHED								

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

7.//	1		· · · · · · · · · · · · · · · · · · ·	
BIGNED J. D. Traywick	MATTER _	Administration Super	visor DATE	October 22, 1979
(This space for Federal or State office use)				
PERMIT NO.		APPROVAL DATE		
APPROVED BY	TITLE		DATE	

oh Fronk

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

Form C-102 Revised 10-1-78

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

		All distances must be fr	om the cuter bounders	es of the Section.		
Operator TENNECO C	OIL COMPANY		Lease RUSSELL			Well No.
Unit Letter	Section	Township	Range	County	·	
A	25	28N	8W		Juan	•
Actual Footage Loc				Dan	- Juan	
1120	feet from the	lorth line on	d 790	feet from the	East	Vine .
Ground Level Elev.	Producing For Dakota	mation	Pool Basin D		Dec	dicated Acreage:
6310			<u></u>			Астев
1. Outline th	e acreage dedica	ted to the subject	well by colored pe	encil or hachure	marks on the p	lat below.
2. If more the interest as	nan one lease is nd royalty).	dedicated to the w	ell, outline each a	nd identify the	ownership there	of (both as to working
		ifferent ownership i initization, force-poo		well, have the	interests of all	owners been consoli-
Yes	No If a	nswer is "yes," type	of consolidation			
T É	* 44 57 1*1	1		••		•
II answer	is 'no,' list the if necessary.)	owners and tract de	scriptions which h	ave actually be	en consolidated	. (Use reverse side of
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forced-non	uie wiii de assign	or until a non-stand	an interests have	peen consolidat	ed (by commun	itization, unitization,
norcea-poo	ding, or otherwise	or until a non-stand	ard unit, eliminati	ng such interest	s, nas been app	proved by the Commis-
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]	.		1 6		I hereby certif	y that the information con-
	!		1 6	10711	tained herein	is true and complete to the
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	i				Octobe:	r 22, 1979
1	1 9	ec.	ENNECO DIL C		Date	
	i S		NM-01 ³ 3860-	-A		·
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	l	25	1 1		I hereby cert.	ify that the well-location
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TENNECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: August 6, 1979

LEASE: Russell WELL NO.: 3

LOCATION: 1,120' FNL, 790' FEL FIELD: Basin Dakota

Section 25, T 28N, R 8W San Juan County, New Mexico

ESTIMATED ELEVATION: 6300'

ESTIMATED TOTAL DEPTH: 7343'

PROJECTED HORIZON: Dakota

DRILLING, CASING AND CEMENT PROGRAM:

(1) MIRU Rotary tools.

(2) Drill 13 3/4" to surface hole to \pm 250'.

- (3) Run 9 5/8 36# K-55 ST&C casing. Set at 250'. Cement with sufficient volume to circulate to surface.
- (4) Nipple up well head & blow out equipment. Test prior to drilling out to 600 psi 1/2 hour.
- (5) Reduce hole to 8 3/4". Drill to 3,500' with water and Benex.
- (6) Run 7" casing. Set at 3,500'. Cement with sufficient volume to circulate to surface.
- (7) Nipple up well head & rig to drill with air or air mist to total depth.
- (8) Run 4 1/2" liner consisting of 400' of 4 1/2" 11.6#, 3,593' of K-55 ST&C 10.6# casing.
- (9) Cement with sufficient volume to circulate cement.
- (10) MORT.

ESTIMATED FORMATION TOPS:

SURFACE - San Jose Formation.

OJO Alamo	1839'	(water)	Mancos	5076 '	
Pictured Cliffs	2769 '	(gas)	Greenhorn	6984'	
Cliffhouse	4524'	(gas)	Dakota	7174' (gas)	ŀ
Menefee	4568'	(gas)			
Point Look Out	5026'	(gas)			

DRILLING MUD PROGRAM:

0 - 250' Native solids. Use sufficient viscosity to clean hole and run surface casing.

250' - 3,000' Low Solids. Use sufficient viscosity to clean hole and run intermediate casing.

3,000' - TD Gas or air/air mist.

CORING AND TESTING PROGRAM:

No cores or DST's are anticipated.

0 - 250' - 2° Max. DEVIATION SURVEYS: 250' - 3,500' - 3° Max. 3,500' - TD - 5° Max.

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at(1° per 100')
- 2. FROM SURFACE TO TOTAL DEPTH DEVIATION SURVEYS MUST BE TAKEN EVERY 500' OR EACH TRIP WHICHEVER IS FIRST. This may entail running the TOTCO on wireline. Record each survey on the AAODC Drilling Report Sheet. Maximum allowable change in deviation is 1° per 100'.

SAMPLES:

30' - 2,500' - 3,000'. Insure 300 into Lewis shale.

WELL SURVEYS:

Induction - Gamma Ray
Density - Gamma Ray - Caliper

BOP: 10" x 900 series Double Ram Preventor w/closing unit.

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RE-CORDED ON THE AAODC DRILLING REPORT SHEET.

RUSSELL #3

1. Existing Roads

- A. Proposed Well Site Location: Was surveyed and staked by a certified registered land surveyor and is located at 1,120' from the North line, 790' from East line, Sec. 25, T 28N, R 8W, San Juan County, NM. (See Exhibit I, Form C-102.)
- B. Planned Access Route: Begins at the intersection of Canyon Largo & New Mexico Hwy. 64. Proceed down the North side of Canyon Largo for approx. 9 miles, go North/East up Jesus Canyon for 2½ miles, go East and gain access on top of the Mesa, go East for 1 mile, South for 3 miles to flagged access.

C. Access Road Labelled:'

Color Code: Red - Improved Surface Blue - New Access Road

- D. Not applicable the proposed well is a development well.
- E. The proposed well is a development well. See Exhibit II for existing roads within a one mile radius.
- F. Existing Road Maintenance or Improvement Plan:
 The existing roads will require minimal maintenance.

2. Planned Access Roads

There will be approximately 50' of new access road construction.

- A. Width:
 The average width of the road is twenty feet.
- B. Maximum Grades: Less than 3%.
- C. Turnouts:
 There are no turnouts planned as sight distance is sufficient.
- D. Drainage Design:
 The road is center crowned to allow drainage. The road is flat primarily.
- E. Culverts Use Major Cuts and Fills: None required.
- F. Surfacing Material:
 Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

Planned Access Roads (Cont'd)

- G. Gates, Cattleguards, Fence Cuts: No gates, cattleguards or fences will be needed.
- H. New Roads Centerlined Flagged: Existing Roads.
- 3. Location of Existing Wells

The proposed well is a development well. Exhibit IIIshows existing wells within a one mile radius.

Α.	Water Wells:	None
В.	Abandoned Wells:	None
C.	Temporarily Abandoned Wells:	None
D.	Disposal Wells:	None
E.	Drilling Wells:	None
F.	Producing Wells: See Exhibit	III
G.	Shut-In Wells:	None
Н.	Injection Wells:	None
I.	Monitoring or Observation Wells:	None.

4. Location of Existing and/or Proposed Facilities

A. Existing facilities within one mile owned or controlled by Lessee/Operator:

- ((1)	Tank batteries -	None
((2) (3)	Production facilities	-See Exhibit III
((3)	Oil Gathering Lines -	None
((4)	Gas Gathering Lines -	None
((5)	Injection Lines -	None
1	(4) (5) (6)	Disposal Lines -	None

- B. New facilities in the event of production:
 - (1) will be within the dimensions of the drill pad
 - (2) Dimensions will be shown on Exhibit IV.
 - (3) Construction Materials/Methods:
 Construction materials will be native to the site.
 Facilities will consist of a well pad.
 - (4) Protection of Wildlife/Livestock: Will be fenced as needed to protect wildlife/livestock.

4. <u>Location of Existing and/or Proposed Facilities (Cont'd)</u>

- B. New facilities in the event of production: (cont'd)
 - (5) Will consist of well head, tank & production unit.
- C. Rehabilitation of Disturbed Areas:
 Following the completion of construction, those areas
 required for continued production will be graded to provide drainage and minimize erosion. Those areas unnecessary
 for use will be graded to blend with surrounding topography
 per BLM recommendations.

5. Location and Type of Water Supply

- A. Location and type of water supply:
 Water will be hauled from private source.
- B. Water Transportation System: Water trucks will be used.
- C. Water wells: N/A.

6. Source of Construction Materials

- A. Materials:
 Construction materials will consist of soil native to the site. Any topsoil, if present, will be stripped and stockpiled as needed.
- B. Land Ownership;
 The planned site and access road is on federal land administered by the Bureau of Land Management.
- C. Materials Foreign to the Site: N/A.
- D. Access Roads: No additional roads will be required.

7. Methods for Handling Waste Disposal

- A. Cuttings: Cuttings will be contained in the reserve pit.
- B. Drilling Fluids: Drilling fluids will be retained in the reserve pit.
- C. Produced Fluids:
 Produced fluids, including produced water will be collected in the reserve pit. Any small amount of hydrocarbon that may be produced during testing will be retained in the reserve pit. Prior to clean up operations, the hydrocarbon material will be skimmed.

7. Methods for Handling Waste Disposal (Cont'd)

- D. Sewage:
 Sanitary facilities for sewage disposal will consist of at least one pit toilet, during the driller operations.
 The pit will be backfilled immediately following completion of the drilling operation.
- E. Garbage:
 There probably will not be much putriscible garbage to dispose of. However, it will be disposed of along with the refuse in a constructed burn pit, which will be fenced. The small amount of refuse will be burned and the pit will be covered with a minimum 36 inch cover upon completion.
- F. Clean-Up of Well Site:
 Upon the release of the drilling rig, the surface of the drilling pad will be prepared to accommodate a completion rig, if testing indicates potential productive zones. In either case, the "mouse hole" and "rat hole" will be covered to eliminate a potential hazard to livestock. The reserve pit will be fenced to prevent entry of livestock until the pit is backfilled. Reasonable clean up will be performed prior to final restoration of the site.

8. Ancillary Facilities

None required.

9. Well Site Layout

- A. Exhibit IV
- B. Location of pits, etc. See Exhibit IV
- C. Rig orientation etc. See Exhibit IV
- D. Lining of pits:

 Pits will not be lined. They will be covered with a fine mesh netting, if necessary, for the protection of wildlife if fluids are found to be toxic.

10. Plans for Restoration of Surface

A. Reserve pit clean up:
The pit will be fenced prior to rig release and shall be maintained until clean up. Prior to backfilling any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured as needed to minimize erosion. The reserve pit area will be seeded per BLM recommendations during the appropriate season following final restoration of the site.

10. Plans for Restoration of Surface (Cont'd)

- B. Restoration Plans Production Developed:
 The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography, and seeded, per BLM recommendations. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those under Item C. below.
- C. Restoration Plan No Production Developed:
 The reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored. The site will be contoured to blend with the surrounding topography. The site will be seeded according to BLM recommendations. If the new access road is not required for other development plans, it will be obliterated and restored and seeded per BLM recommendations.
- D. Rehabilitation Time Table:
 Upon completion of operations the intial clean up of the well site will be performed. Final restoration of the site will be performed as soon as possible according to procedural guidelines published by the USGS and BLM. Seeding of the disturbed areas which are no longer required will be performed during the appropriate season, following final restoration.

11. Other Information

- A. Surface Description: For the proposed well site is atop the Mesa above Corezo Canyon, the topography is level to gently rolling, principle vegetations is sage, the soil is sandy loam.
- B. Surface Use Activities:
 The surface is federally owned and managed by the BLM. The predominant surface use is mineral exploration and production.
- C. Proximity of Water, Dwellings and Historical Sites:
 - 1. Water:

There are no reservoirs or streams in the immediate area.

 Occupied Dwellings: There are no occupied dwellings or buildings in the area.

3. Sites: An archeological reconnissance has been performed for this location and clearance has been granted.

12. Operator's Field Representative

Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

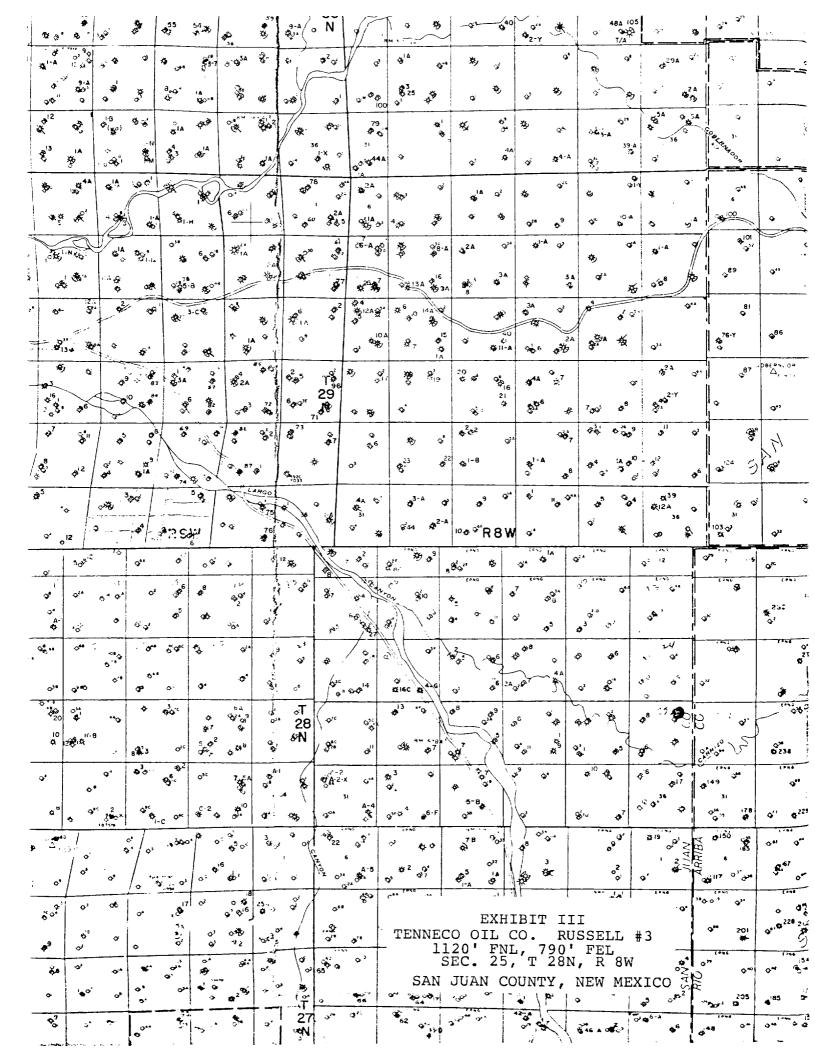
13. <u>Certification</u>

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and subcontractos will conform to this plan.

Date: October 23, 1979

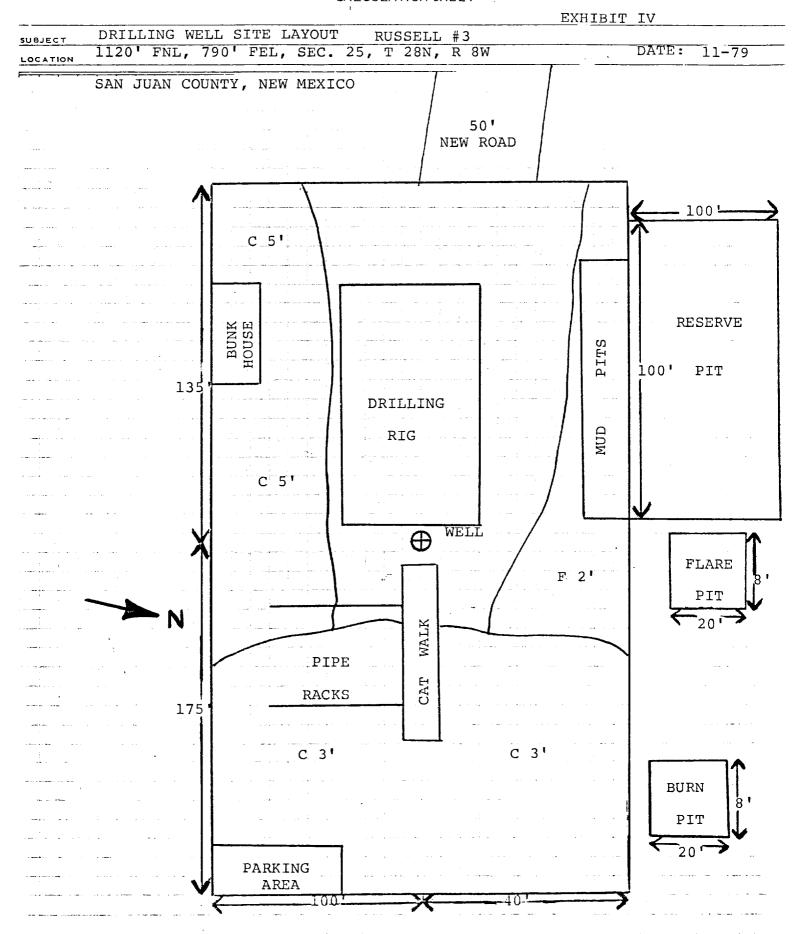
Administrative Supervisor

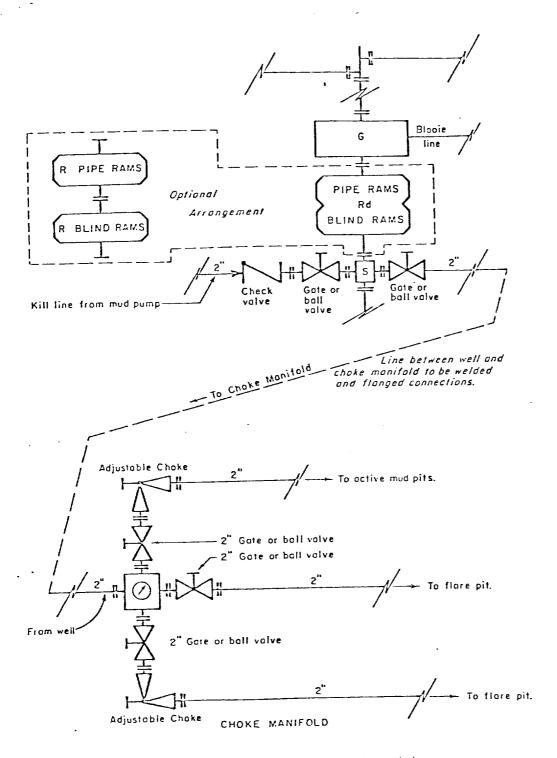
Sec. 25-28N-8W Russell #3 UNITED STATES ARTMENT OF THE INTERIOR EXHIBIT II GEOLOGICAL SURVEY



TENNECO OIL COMPANY

CALCULATION SHEET





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

- Rd Double ram type preventer with two sets of rams.
- 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 10-25-79 EVI