SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

	Form Budget	approved Bureau	No.	42-R142
)				

UNITED STATES

	DEPARTMEN	T OF THE II	NTERIOR		5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	GICAL SURVE	ΕΥ		
APPLICATIO	N FOR PERMIT	TO DRILL D	FEPEN OR P	ILIG BACK	SF-078390 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK		10 5 11 12 1	PECILITY, OR I	LOO DACK	-
DR	ILL 🖾	DEEPEN [PLI	JG BACK 🗆	7. UNIT AGREEMENT NAME
b. TYPE OF WELL					
MELL O	VELL XX OTHER		SINGLE ZONE	MULTIPLE ZONE	S. FARM OR LEASE NAME
2. NAME OF OPERATOR					Price
Tenneco Oil	Company		£		9. WELL NO.
3. ADDRESS OF OPERATOR					4
	ado Blvd., Denve				10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (R	deport location clearly and	l in accordance with	any State requiremen	nts.*)	Basin Dakota
980' FNL, 90	5° FEL				11. SEC., T., R., M., OR BLK.
At proposed prod. zor	ne		•		AND SURVEY OR AREA
					Sec. 14, T 28N, R 8W
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH 13. STATE
ll miles SE o	of Blanco NM				San Juan NM
10. DISTANCE FROM PROPE LOCATION TO NEARES	USED*		16. NO. OF ACRES IN	LEASE 17. NO.	OF ACRES ASSIGNED
PROPERTY OR LEASE I	LINE, FT.		1851.96		His MACL
18. DISTANCE FROM PROP	OSED LOCATION*		19. PROPOSED DEPTH		320
TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,		7360	20. ROTA	Rotary
21. ELEVATIONS (Show who			7300		
7360 GR	,		•		22. APPROX. DATE WORK WILL START*
23.		DODOGDD			ASAP
		ROPOSED CASING	G AND CEMENTING	PROGRAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING DE	PTH	QUANTITY OF CEMENT
12½"	9 5/8" New	36#, K-55	300'	Circu	ulate to Surface
8 3/4"	7" New	23#, K-55	3,000'		ualte to Surface
6 ¹ 4"	4½" New	10.5#-11.6	7,360'		ulate through liner hange
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SEE ATTACHED)		*		
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	\	CEOLOGICAL N.	1/1.	<u> </u>	
	\ u.:	S. GEOMINGTON			101
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	\			. 1	Cotta Costa Zar
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If p	roposal is to deepen	or Ding back, give de	ita on procent produc	active sone and proposed new productive
zone. If proposal is to d preventer program, if any		ly, give pertinent d	ata on subsurface loca	ations and measured	and true vertical depths. Give blowout
24.	·				
	11/	1, 1			
BIGNED J. D. Tray	ywick ////	MAYLUN TITLE	Administration	on Superviso	r October 29, 1979
(This space for E.	2) 22 (2)				DATE
(This space for Federa	ut or State office use)	/			
PERMIT NO.			APPROVAT NAME		
-			_ APPROVAL DATE		

oh Fruh

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _

M1000

*See Instructions On Reverse Side

		All distances must be !	from the cuter by underles of	the Section	-
Operator			Lease		Well No.
TENNECO OIL COMPANY			PRICE		4
Unit Letter	Section	Township	Range	County	
A	14	28N	8W	San Juan	
Actual Footage Loc					
980	feet from the No	rth line on	a 905 🖛 fe	et from the East	line
Ground Level Elev.	Producing Fo		Pool		Dedicated Acreage:
6293	Dakota		Basin Dakota	a /	320 Acres
2. If more th interest ar	an one lease is	dedicated to the wo		entify the ownership t	hereof (both as to working
dated by c Yes If answer this form i No allowal	ommunitization, No If a is "no," list the f necessary.) De will be assign	unitization, force-poons	of consolidationscriptions which have a	ctually been consolid	ated. (Use reverse side of
forced-poo sion.	ling, or otherwise) or until a non-stand	ard unit, eliminating su	ch interests, has beer	approved by the Commis-
		<u> </u>	**************		CERTIFICATION
		Sec.	CONOCO TENNECO OIL CO.	None J. Adminis Position Tenneco Company October	D. Traywick stration Supervisor Oil Company 29, 1979
			SF-078390 NOV 16 1979 L. COM. COM. DIST. 3	shown on notes of under my is true of knowledg Date Survey Augus Registered and/or Lang	t 29 1979 % Prelessional Engineer I surveyor.
	1			Certificate	No.
0 330 660	90 1320 1650 19	80 2310 2640 20	000 1800 1000	soo o 3950	

TERMECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain - DATE: August 28, 1979

LEASE: Price WELL NO.: #4

LOCATION: 980' FNL, 905' FEL FIELD: Basin Dakota

Sec. 14, T 28N, R 8W

San Juan County, New Mexico

ESTIMATED ELEVATION: 6,320 (D.F. Elevation)

ESTIMATED TOTAL DEPTH: 7,360'

PROJECTED HORI'ZON: Dakota

DRILLING, CASING AND CEMENT PROGRAM: SURFACE FORMATION NACIMIENTO

(1) MIRURT.

- (2) Drill a 12 1/4" hole to 300÷. Run 9 5/8", 36#, K-55, ST&C casing to T.D. and cement to surface. Use 2% CaCl₂ in cement.
- (3) Cut off casing and weld on casing head. Pressure test weld to 1000 psi. NUBOP's and manifold. Pressure test casing, BOP's and manifold to 1000 psi for 30 minutes.
- (4) Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3000±. Run 7", 23#, K-55, ST&C casing to T.D. and cement to surface. (Set 7" 200-300' into Lewis shale.)
- (5) Land casing in slips and cut off. Install drilling spool on casing head. Install rotating head, manifold and flare line. Pressure test blind rams, manifold and casing to 1000 psi for 15 minutes. Pick up drilling assembly and 3 1/2" drill pipe. Pressure test pipe rams to 1000 psi for 15 minutes.
- (6) Drill out of 7" with 6 1/4" bit using gas as circulating fluid. Drill a few feet of formation and then blow hole with gas until it is dusting. Drill to T.D.
- (7) Log the hole dry as directed by the wellsite geological engineer and gauge the natural flow from the Dakota.
- (8) If productive, run 4 1/2", 10.5#-11.6#, casing to T.D. as per casing design. Cement in one stage. Bring cement through liner hanger.
- (9) If nonproductive, plug and abandon as per U.S.G.S. requirements.

ESTIMATED FORMATION	TOPS: Surface	formation NACIMIENTO	
OJO Alamo	1,840'	Point Look Out	4,985'
Pictured Cliffs	2,770'	Mancos	5,130'
Lewis	3,050'	Gallup	6,060'
Cliffhouse	4,400'	Greenhorn	7,980'
Menefee	4,500'	Dakota "A"	7,095'
	,	T.D.	7360 '

0 - 300' Spud Mud

300' - T.D. 7" casing. Low solids fresh water mud. No. W. L. Control.

3,000' + - T.D. Gas

CORING AND TESTING PROGRAM:

No cores or tests. Guage natural flow from the Dakota.

DEVIATION SURVEYS:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at
- 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 10 per 100'.

SAMPLES:

As directed by wellsite geological engineer.

WELL SURVEYS:

GR/FDC/CNL caliper from T.D. to base of Mesaverde.

GR/SP/SN induction from T.D. to surface casing.

BOP: From 300' to T.D. as per U.S.G.S. requirements.

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RE-CORDED ON THE AAODC 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 costs, plus any other pertinent information; will be called into Tenneco...Oil Company, Denver, Colorado between 7:30 A.M. and 8:00 A.M.

- 303-758-7130 (office) Don Barnes
 303-758-7287 Don Barnes private line Monday-Friday (before 7:45 A.M.)
- 2. 303-936-0704 (home) Don Barnes weekends and holidays
- 3. 303-795-0221 (home) John Owen if Don Barnes not available

The yellow sheet of the TADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY
PENTHOUSE
720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: DRILLING DEPARTMENT

In case of an emergency, notify the following:

- 1. Mr. Don Barnes, Division Drilling Engineer 303-936-0704.
- Mr. John Owen, Project Drilling Engineer 303-795-0221
- 3. Mr. Mike Lacey, Division Production Manager 303-979-0509.

PRICE 4

1. Existing Roads

- A. Proposed Well Site Location: The site as surveyed is located 980' FNL, 905' FWL, Sec. 14, T 28N, R 8W, San Juan County, NM. (See Exhibit I, Acreage Dedication Plan.)
- B. Planned Access Route: The planned access begins at the Largo Canyon entrance from NM Hwy 64. Proceed SE on the North side of the wash for 8 miles to Jesus Canyon. Turn NE up Jesus Canyon for 2.5 miles then turn SE up the Mesa, take first road to the South for 45 miles to the site.
- 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

(All roads are existing roads.)

- A. Width:
 The average width of the road is twenty feet.
- B. Maximum Grades: Less than 8%.
- 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:
- F. Surfacing Material:
 Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

2. Planned Access Roads (Cont'd)

- G. Gates, Cattleguards, Fence Cuts: No gates, cattleguards or fences will be needed.
- H. New Roads Centerlined Flagged: None Existing Roads.

3. Location of Existing Wells

The proposed well is a development well. ExhibitIII shows existing wells within a one mile radius.

Α.	Water Wells:	None
В.	Abandoned Wells:	None
C.	Temporarily Abandoned Wells:	None
D.	Disposal Wells:	None
Ε.	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
	Oil Gathering Lines -	None
(4)	Gas Gathering Lines -	None
(5)	Injection Lines -	None
(6)	Disposal Lines -	None

- B. New facilities in the event of production:
 - (1) New facilities within the dimensions of the drill pad.
 - (2) Dimensions are 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 <u>fenced</u> as needed.

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

- B. New facilities in the event of production: (cont'd)
 - (5) New facilities will consist of a wellhead, 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.

Location and Type of Water Supply

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

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. <u>Methods for Handling Waste Disposal (Cont'd)</u>

- 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. See 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: The proposed site is located in a sage flat above Jesus Canyon. Principal vegetation is sage, mustard weed, snakeweed, & various grasses. 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:
 - 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

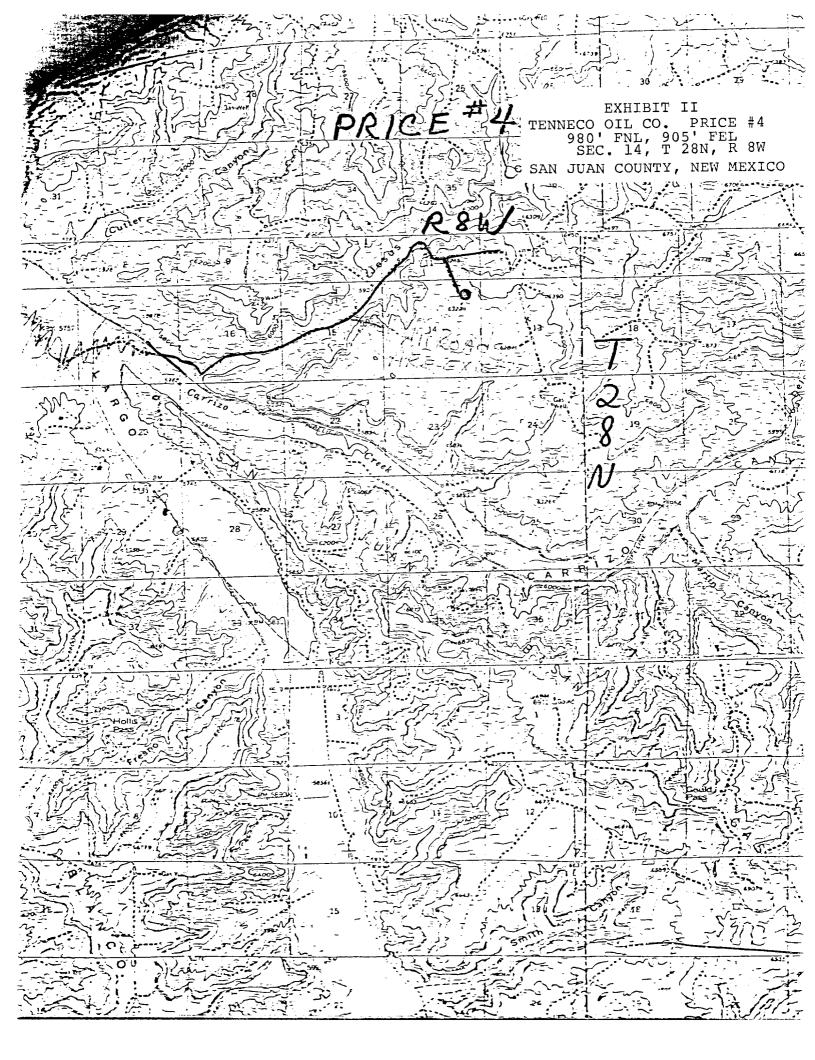
13. <u>Certification</u>

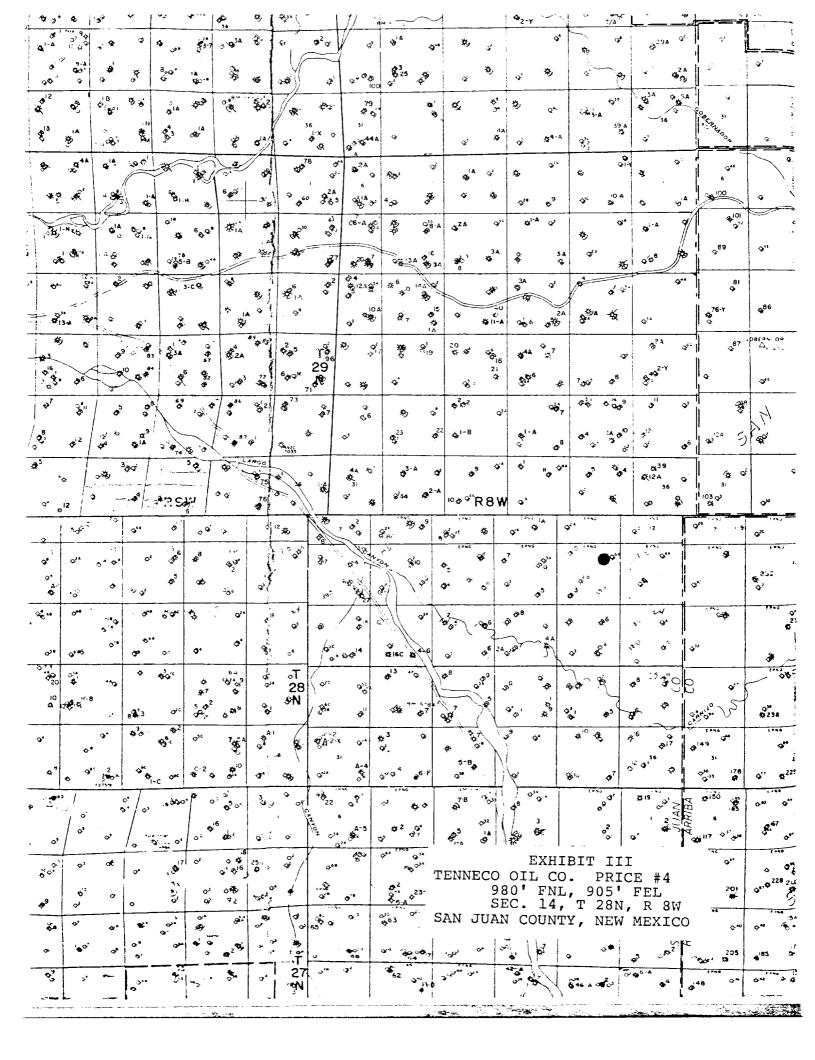
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work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

Date: October 30, 1979

J/ D. Traywick

Administration Supervisor





TENNECO OIL COMPANY

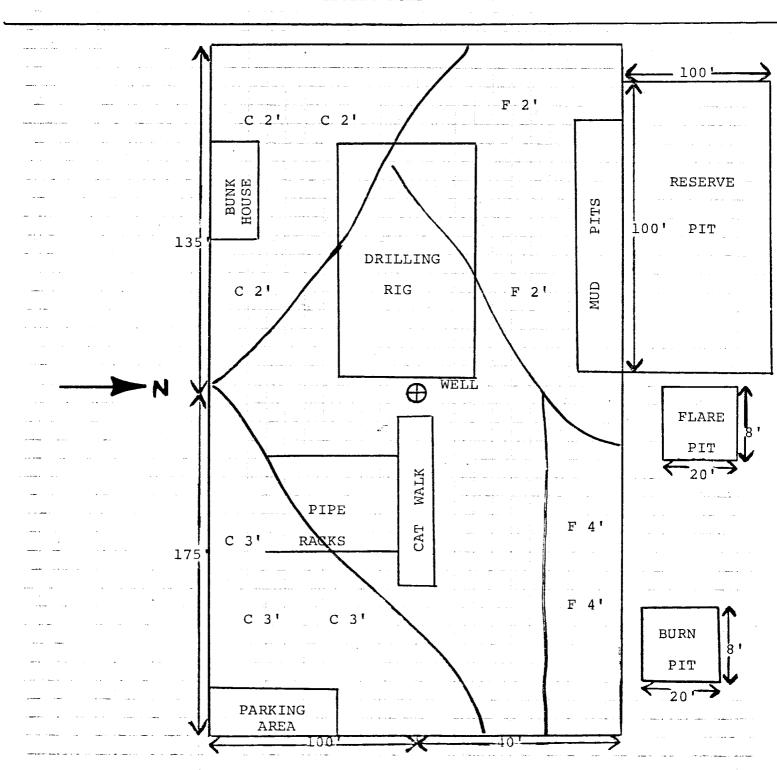
CALCULATION SHEET

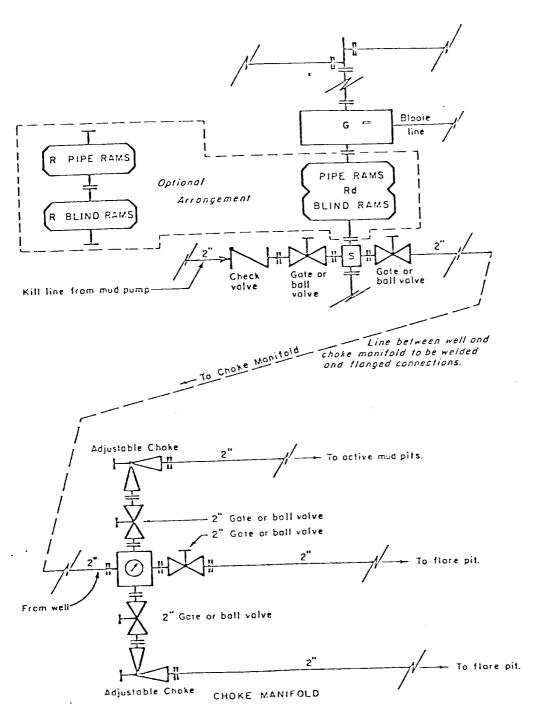
DRILLING WELL SITE LAYOUT PRICE #4

LOCATION 980' FNL, 905' FEL, SEC. 14, T 28N, R 8W DATE: 11-79

SAN JUAN COUNTY, NEW MEXICO

EXISTING ROAD





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

Double ram type preventer with two sets of rams. Rd

- Single ram type preventer with one set of rams. R
- Drilling spool with side outlet connections for choke and kill lines. S
- Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION

REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD

J. MAGILL 10-26-79 EVI