SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

	SOUTH IN THE LICH
UNITED STATES	(Other instructions of reverse side)
PARTMENT OF THE INTERIOR	

30-045-2428 5. LEASE DESIGNATION AND SERIAL NO. **GEOLOGICAL SURVEY** <u>SF 06555</u>7 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 6. IF INDIAN, ALLOTTEE OR TRIBE NAME la. TIPE OF WORK DRILL 🖾 DEEPEN [7. UNIT AGREEMENT NAME PLUG BACK b. TYPE OF WELL WELL XX WELL SINGLE Zone MULTIPLE $\mathbf{k}\mathbf{x}$ S. FARM OR LEASE NAME OTHER ZONE 2. NAME OF OPERATOR Cornell "E" Tenneco Oil Company 9. WELL NO. 3. ADDRESS OF OPERATOR 720 S. Colorado Blvd., Denver, CO . 80222 4. LOCATION OF WELL (Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location clearly and in accordance with any Extraction of the Report location of the R 10. FIELD AND POOL, OR WILDCAT At surface 820' FNL, 1,550' FEL FW Basin Dakota FEB 21 1980 11. SEC., T., E., M., OE BLK. AND SURVEY OR AREA At proposed prod. zone 14. DISTANCE IN MILES AND DIRECTION FROM NEABEST TOWN OR POST OFFICED. S. GEOLOGICAL SURVEY 12, 29N, 12W FARMINGTON, N. M. 12. COUNTY OR PARISH | 13. STATE 3.5 miles North northeast of Bloomfield, MK San Juan 15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL 320 (Also to nearest drig, unit line, if any) 320 18. DISTANCE FROM PROPOSED LOCATIONS 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6600 Rotary 1. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 5817 GR ASAP 3 PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT QUANTITY OF CEMENT SETTING DEPTH 124" 8 5/8" 24#, K-55 new 300 Circulate to surface 7 7/8" 4 2" 10.5#, K-55 new ±6600 Circulate to surface in two stages

- If non-productive plug and abandon per U.S.G.S/BLM specifications.
- No abnormal temperatures, pressures or other geologic hazards are expected.
- The gas is dedicated.

N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zon N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on process process. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true productive Gire blowout Staff Production Analyst 18, 1980 SICNED (This space for Federal or State office use) PERMIT NO. APPROVAL DATE

APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:

THE PROPERTY OF THE PARTY OF TH

*See Instructions On Reverse Side

DISTRICT ENGINEER

Fred B. Kenr Centificate New S. KERR

	ALS DEPARTMENT	_	A FL, NEW MEX						
perator	Leose	Lease				Well No.			
TENNECO OII			CORNELL	<u>,"王"</u>			l	1-E	
init Letter	Section	Township	Ronge		County	T		,	
Ctual Footage Loca	12	29N	12W		San	Juan			
820	feet from the	North "	ne and 1550	[eet	from the	West	1	line	
round Level Elev.	Producing Fo		Pool			,	Dedica	1ed Acreage: 309-10	_
5817	Dako		Basin D				W	320,00	Acres
3. If more that dated by control Yes If answer this form is	nd royalty). In one lease of communitization, No If a 'no'' list the f necessary.)	different ownersh unitization, force answer is "yes," owners and trac	ip is dedicated to the pooling, etc? type of consolidation to descriptions which the consolidation to the consoli	he well, h	tually be	interests o	f all ov	vners been c Use reverse	side of
forced-pool sion. SF-065557 TOC - 25.09	ling, or otherwise		tandard unit, elimina			s, has been	n appro		ommis-
Amax - 21.3 Producing F	Royalties - 53	3.575% 	FEB 21 1	ED 980 AL SURVEY		None M. L. F. Position	reeman	ion Analy	n
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TOC-78.669% Amax - 21.3	Southla Royalty 31% 80.00 A	nd - 100%	2 ;			shown of notes of under my is true	n this pla octual s supervi	that the well it was plotted for surveys made be sion, and that the ect to the bes lief.	rom field by me or the same
80.00 Acres				CEN	1980	Date Surve	7 - 25	1680	

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PROGNOSIS TO DRILL AND COMPLETE

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DIVISION: Rocky Mountain DATE: September 13, 1979

Cornell "E" LEASE: WELL NO.: 1-E

820' FNL, 1550' FEB FWL Sec. 12, T 29N, R 12W LOCATION: FIELD: Basin Dakota

San Juan County, New Mexico

ESTIMATED ELEVATION: 58001

ESTIMATED TOTAL DEPTH: 66001

PROJECTED HORIZON: Dakota

DRILLING, CASING AND CEMENT PROGRAM:

(1) MIRURT.

(2) Drill 12 1/4" hole to \pm 300'. Run 8 5/8" O.D. 24 \pm K-55 ST&C casing to 300'. Cement with sufficient volume to circulate cement to surface.

- (3) WOC minimum of 12 hours. Nipple up BOE. Test BOP, blind and pipe rams, casing " and manifold to 600 psi prior to drilling out for 1/2 hour.
- (4) Drill 7 7/8" hole to T.D.
- (5) Run open hole logs as required.
- (6) Run 4 1/2", 10.5#, K-55 STaC casing. Cement in 2 stages with stage collar + 4800'.
- (7) Cement first stage with sufficient volume to raise cement to stage tool. Circulate and WOC 4 hours between stages. Cement 2nd stage with sufficient volume to circulate to surface.
- (8) Set casing slips, cut off 4 1/2" casing. Nipple up well head.
- (9) RD. MORT.

ESTI	MATED FORMATION TOPS:	Surface	- Nacimiento			
	OJO	720'	Water	•		
	Pictured Cliffs	1990'	Gas	Mancos	4720'	
	Lewis	2190'		Gallup	5610'	Oil/Gas
	Cliffhouse	3580 '	Gas	Greenhorn	6340'	,
	Menefee	3720 '	Gas	Dakota	6450 '	Gas
	Point Lookout	4320'	Gas	TD	6600'	

DRILLING MUD PROGRAM:

0 - 250'	Native Solids.	V/C WL.	Use sufficient	Viscosity	to clean hole
	and run casing.				

250' - TD Low Solids. 15 cc WL. Use sufficient viscosity to clean hole. Log and run casing.

CORING AND TESTING PROGRAM:

NONE

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 1° per 100'.

SAMPLES:

Surface to 6300' 30' samples 6300' to T.D. 10' samples

WELL SURVEYS:

Majority of logs will be cased hole. GR-Neutron, or TDT. A few will be open hole GR-Induction.

BOP: 10" 900 Series Fydraulic operated with complete shut off and pipe rams.

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

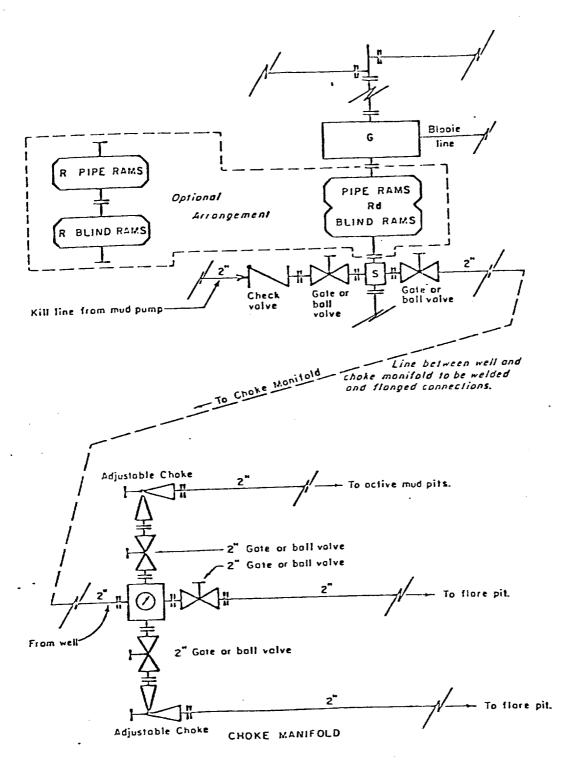
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

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.
- 2. Mr. John Owen, Project Drilling Engineer 303-795-0221
- Mr. Mike Lacey, Division Production Manager 303-979-0509.



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

- Double ram type preventer with two sets of roms. Rđ
- 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 G

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD EVI J. MAGILL 10-26-79

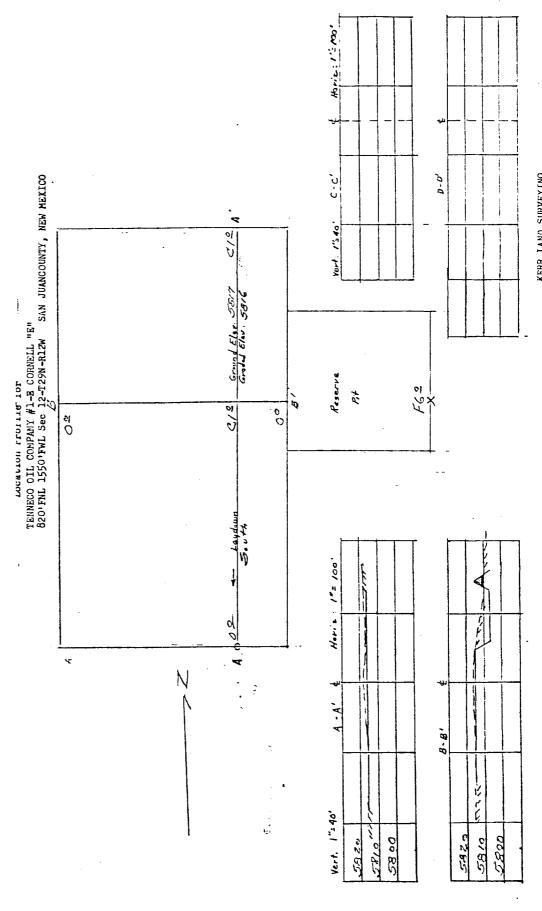
- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- Planned Access Roads Please refer to Map No. 1. The grade of the access 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 I 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 proposed site is located in an area of broken rolling hills with sandy loam soil. The principal vegetation is Pinon and Juniper. The drainage is to the South.
- 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 0:1 Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. Preeman

Staff Production Analyst



KERR LAND SURVEYING Date: JANUARY 25, 1980

