PERMIT NO	L approv	TITL	r		DATE
Deskur No			APPBOVAL DATE		
(This space for Fede	eral or State office use)			8-13-7	79
	ordon Klimit	• TITL	División Drill	ng Engine	DATE 5/25/79
N ABOVE SPACE DESCRIB one. If proposal is to reventer program, if an 4.	drill or deepen direction	proposal 18 to deepe ally, give pertinent	data on subsurface location	s and measured	and true vertical depths. Give blowout
				1911 C	SA, NEW MEXICO
6. Perforate		as necessary	• HED EXHIBITS*****		
5. Drill to	on all trips. 9200' T.D. Log	and Test as w	varranted. Run 5	'2" casing	inf pgorgagive.
Test Annu	lar B.O.P. and	8-5/8" casing	Test rath type B. g to 1500 psi. F	unction t	GEMED
surface.	This will ceme	nt off the G	5/8" casing with rayburg and San A	indres betw	ween 2560' to 3000'.
surface.	Nipple up 10"	- 3000# W.P. E	-3/8" casing with 3.0.P.'s.		
1. Set 40' o	f 20" conductor	pipe. Cemer	nt with Redi-Mix.	N.	· · ·
, ,,0	$5\frac{1}{2}$ " New	17# K-55 ST	1	Cement	from 7650' to 9200'
<u>11"</u> 7-7/8"	8-5/8" New 5 ¹ 2" New	<u>32# K-55 ST</u> 15.5# K-55 S			irculate
512E OF HOLE	13-3/8" New	WEIGHT PEB FOO 48# H-40 ST		Suffic	QUANTITY OF CEMENT
· · · · · · · · · · · · · · · · · · ·	[PROPOSED CASING	AND CEMENTING PROC	GRAM	
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At proposed prod, zon	•	- /			Sec. 33 T17S-R29E
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ADDRESS OF OPERATOR 6800 Park Ten	Blvd, Suite-200) North San /	Antonio, Jexas 79		0. FIELD AND POOL, OR WILDCAT
Tenneco 011 Co	ompany	0. 6. 6	-		-ederal 33-G WELL NO.
	ELL. OTHER	AUG 1 0 1.	JANNELE MUL- ZONE ZONE		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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		GICAL SURVEY			M 057-495USA <u>LC-05-7495</u> as <u>Cruces</u>
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(May 1963)			(Other Inst		Budget Bureau No. 42-R1425.

NEW MEXICO OIL CONSERVATION COMMISSION <u>EXHIBIT "A"</u> WELL CATION AND ACREAGE DEDICATION AT Location & Elevation Plat

		All distances must be f	rom the outer boundaries	of the Section.		
Tenn	eco Oil	Co.	Leasel		5-1 s-Gru ces	Well No.
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Yes	No If a	nswer is "yes," type o	of consolidation			
this form No allow	if necessary.) able will be assign	owners and tract desc ned to the well until all)or until a non-standar	l interests have beer	ı consolidate	d (by communi	tization. unitization.
		5272 Rec.			CEF	RTIFICATION
					toined herein is best of my know	that the information con- true and complete to the vedge and belief. Capaseotes
			1820	<u>.</u>	Company	resident
		33	Fed. 33-6	Rec.	Date 6/6/79	
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United States Department of the Interior ECEIVED

GEOLOGICAL SURVEY P. O. Drawer U Artesia, New Mexico 88210 AUG 1 6 1979

D. C. C. ARTESIA, OFFICE August 13, 1979

Tenneco Oil Company 6800 Park Ten Blvd. Suite 200 North San Antonio, Texas 79213 TENNECO OIL COMPANY Federal 33-C No. 1 1980 FNL 1820 FEL Sec. 33, T17S, R29E Eddy County Lease No. LC 057459

Above Data Required on Well Sign

Gentlemen:

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 9,300 feet to test the Wolfcamp formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- Drilling operations authorized are subject to compliance with the attached General Requirements for Oil and Gas Operations on Federal Leases, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the Surface Use Plan and these Conditions of Approval including the attached General Requirements.
- 3. Submit a Daily Report of Operations from spud date until the well is completed and the Well Completion Report (form 9-330) is filed. The report should be not less than 8" x 5" in size and each page should identify the well.
- 4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Guidelines. The color used should simulate sandstone brown (Federal Standard Color No. 595A, color 20318 or 30318).
- 5. Before drilling below the 8-5/8" casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.
- 6. A kelly cock will be installed and maintained in operable condition.
- 7. After setting the 8-5/8" casing string and before drilling into the Wolfcamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.

8. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the Wolfcamp formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:

-

- (1) A recording pit level indicator to determine pit volume gains and losses.
- (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
- (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
- 9. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

(Orig. Sgd.) ALBERT R. STALL

Albert R. Stall Acting District Engineer

EXHIBITS ATTACHED:

"A" Location and Elevation Plat
"B" The Ten-Point Compliance Program
"C" The Blowout Preventer Diagram
"D" The Multi-Point Requirements for A.P.D.
"E" Access Road Map to Location
"F" Radius Map of Field
"G" Drill Pad Layout & Production Facilities

"H" Drill Rig Layout

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C Tenneco Oil Company #1 Federal 33-G 1980' FNL & 1820' FEL Sec. 33 T17S R29E Eddy County, New Mexico

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U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

1. The Geologic Surface Formation

The surface formation is Quaternary Alluvium.

2. Estimated Tops of Important Geologic Markers

B Salt	700'
Yates	900'
Queen	1,875'
Grayburg	2,320'
San Andres	2,700'
Abo	6,675'
Wolf C	8,182'
Cisco	8.850'
Total Depth	9,300'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Grayburg - San Andres	2,560'-3,000'	Oil (will cement off)
Wolf Camp	8,650'	0i1
Cisco	9,080'	0il

4. TI	he Prop	The Proposed Casing Program	rogram						
Casing Design	<u>qn</u>								
CAS ING STRING	HOLE	INTERVAL	SECTION	SIZE	WEIGHT, GRADE & JOINT	NEW OR USED	MUD * WEIGHT	SF SF SF	σ.
Conductor	1 1	0-40'	40'	20"	1 1 1 1 1 1 1	1		1	•
Surface	17½"	0-300'	350'	13-3/8"	48# H-40 ST&C	New	8.8		High
Intermediate	"[[0-3400'	3400'	8-5/8"	32# K-55 ST&C	New	10.0		2.7
Production	7-7/8'	7-7/8" 0-5400'	5400'	512"	15.5# K-55 ST&C	New	9.5	1.5 1.5	1.4
		5400'-9200'	3800'	5,2,"	17# K-55 ST&C	New	9.5	3.4 1.1	1.5
* At casing setting	setting								
Cement Design	nE								
In setting	13-3/8"	In setting 13-3/8" and 8-5/8". cement will be circulated.	ement will !	be circulat	ed.				

In setting 13-3/8" and 8-5/8", cement will be circulated. 512" pipe will be cemented from 7650' to 9200' (T.D.)

EXHIBIT "B" Page 2

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to 3000 psi. after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include a kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

Interval	Mud Weight (ppg)	Viscosity (sec.)	Fluid Loss	Remarks
0-300*	8.8	34	NC	
350'-3400'	10.0	29	NC	Brine
3400'-9200'	9.5	34	10 cc.	

7. The Auxiliary Equipment to be Used

- (a) A kelly cock will be kept in the string at all times.
- (b) A float will not be used at the bit.
- (c) Flow-show and PVT will be used in monitoring mud system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

- (a) DST's are anticipated in the Wolf Camp and Cisco horizons. Other zones will be tested as needed.
- (b) The logging program will consist of a Dual Laterolog, a Density/Neutron from 3550' to T.D. and Gamma Ray to surface. Any other logs will be determined at well site to best evaluate any shows.
- (c) No coring is anticipated.
- (d) Stimulation procedures will consist of acidizing if indicated after evaluation of logs. Appropriate Sundry Notice will be submitted.

9. Any Anticipated Abnormal Pressures or Temperatures

Possible high pressures are anticipated in Wolf Camp horizon. These will be contained by heavy drilling mud. Bottom hole pressure in 1974 was 3730' psig. Pressure buildup in 1976 indicates BHP of 2200' psig.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for August 1, 1979, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 50 days.



All equipment will be 3000 psi working pressure, or better.

DATE 6/6/79

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C Tenneco Oil Company #1 Federal 33-G SW NE Sec. 33 T17S R29E 1980' FNL & 1820' FEL Eddy County, New Mexico

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U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

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1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A".
- B. The distance from Artesia, New Mexico is 19.0 miles. Proceed East along Highway #83 for a distance of 17.5 miles, thence Southeast along oil field road 1.5 miles to location, as shown on EXHIBIT "E".
- C. All roads to location are color-coded on EXHIBIT "E".
- D. N/A
- E. This is a development well. All existing roads within a one-mile radius are shown on EXHIBIT "E".
- F. The existing roads need no improvement. Maintenance will be performed as required.
- 2. Planned Access Roads

Map showing all necessary access roads to be constructed or reconstructed is shown as <u>EXHIBIT "E"</u> for the following:

- (1) The maximum width of the running surface of the existing oil field road will be 18'.
- (2) The grade will be 8% (eight percent) or less.

2. Planned Access Roads - cont'd.

- (3) No turn outs are planned.
- (4) Appropriate water bars will be constructed to assure drainage off location to conform with the natural drainage pattern.
- (5) No culverts are needed. No major cuts or fills are anticipated along access road during drilling operation.
- (6) Surfacing materials will be native soil.
- (7) No gates, cattle guards, or fence cuts are needed.
- (8) The new access road to be constructed was staked and centerline flagged, as shown on <u>EXHIBIT</u> "E".

3. Location of Existing Wells

For all existing wells within a one-mile radius of development well, see <u>EXHIBIT "F"</u>.

- (1) There are no water wells within a one-mile radius of this location.
- (2) Any abandoned wells in this one-mile radius are shown on EXHIBIT "F".
- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) Tenneco #2 Federal 33 will be drilled to Wolf Camp and Cisco in NE NW of Section 33.
- (7) There are no shut-in wells.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

A. Within a one-mile radius of location the following existing facilities are owned or controlled by lessee/operator:

4. Location of Existing and/or Proposed Facilities - cont'd.

- (1) Tank Batteries: One condensate tank at #1-33.
- (2) Production Facilities: Gas production unit at #1-33.
- (3) Oil Gathering Lines: None
- (4) Gas Gathering Lines: None
- (5) Injection Lines: None
- (6) Disposal Lines: None
- B. If the well is productive, new facilities will be as follows:
 - A Separator will be located on solid ground of drill pad, as shown on EXHIBIT "G".
 - (2) Well flow lines will not be buried and will be on the well site and battery site.
 - (3) All construction materials for battery site and pad will be obtained from site. No additional material from outside sources is anticipated.
 - (4) Any necessary pits will be fenced and flagged to protect livestock and wildlife.
- C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with B.L.M. stipulations.

5. Location and Type of Water Supply

- A. Water will be obtained from a commercial water hauler, or from an existing local well, if available.
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

6. Construction Materials

- A. No construction materials are needed for drilling and access roads into the drilling location unless well is productive. The surface soil materials will be sufficient or will be purchased from Dirt Contractor as needed. Pad surface material will be compacted Caliche.
- B. No construction materials will be taken off Federal or Indian land.
- C. All surface soil materials for construction of access roads are sufficient.
- D. All major access roads presently exist as shown on EXHIBIT "E".

7. Handling of Waste Materials and Disposal

- (1) Drill cuttings will be buried in the reserve pit and covered.
- (2) Drilling fluids will be handled in the reserve pit.
- (3) Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed.
- (4) Chemical facilities will be provided for human waste.
- (5) Garbage and non-flammable waste and salts and other chemicals produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in burn pit. Drill fluids, water, drilling mud and tailings will be kept in reserve pit, as shown on <u>EXHIBIT "H"</u>. The trash and/or burn pit will be totally enclosed with small mesh wire to prevent wind scattering trash before being burned or buried. Reserve pit will be fenced on three sides and the fourth side fenced upon removal of the rig.
- (6) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any dangerous open pit will be fenced during drilling and kept closed until such time as the pit is leveled.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

- (1) <u>EXHIBIT "G"</u> is the Drill Pad Layout as staked, with elevations, by Powers Elevation of Durango, Colorado. Cuts and fills have been drafted to visualize the planned cut across the location spot and the deepest part of the pad. Topsoil will be stockpiled per B.L.M. specifications determined at time of pre-drill inspection.
- (2) <u>EXHIBIT "H"</u> is a plan diagram of the proposed rig and equipment, reserve pit, burn and trash pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be a trailer on site.
- (3) <u>EXHIBIT "G</u>" is a diagram showing the proposed production facilities layout.
- (4) The reserve pits will be lined. Steel mud tanks may be used during drilling operations.

10. Plans for Restoration

- Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- (2) The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the B.L.M. Revegetation is recommended for road area, as well as around drill pad.
- (3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until leveling and cleanup are accomplished.
- (4) If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- (5) The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best in Spring, 1980 unless requested otherwise.

11. Other Information

- The soil is sandy. No distinguishing geological features are present. The area is covered with cactus and sagebrush. There are lizards and rabbits in the area. The topography is sand piles desert terrain.
- (2) There is little apparent use of this land other than for oil and gas production. The surface is owned by the U.S. Government.
- (3) There is no live water within several miles.

The closest occupied dwellings are 7 miles East at Loco Hills.

There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about August 1, 1979. It is anticipated that operations will be completed within 50 days after commencement of drilling.

12. Lessee's or Operator's Representative

George Lapaseotes	Bob Dixon
Agent Consultant for	Tenneco Oil Company
Tenneco Oil Company	6800 Park Ten Blyd.
600 South Cherry Street Suite 1201 Denver, Colorado 80222 Phone (303) 321-2217	Suite 200 North San Antonio, Texas 78213 Phone (512) 734-8161

EXHIBIT "D" Page 7

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 made 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

6-6-79

George Rapaseotes

Agent Consultant for Tenneco Oil Company



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1980 FNL 1820 FEL

33-,17-5, 29E Eddy Co, N. Mex.

EXHIBIT "H"

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Drill Rig Layout

Tenneco Oil Company #1 Federal 33-G 1980'FNL & 1820'FEL Sec. 33 T17S R29E Eddy County, New Mexico



Scale: 1'' = 100'