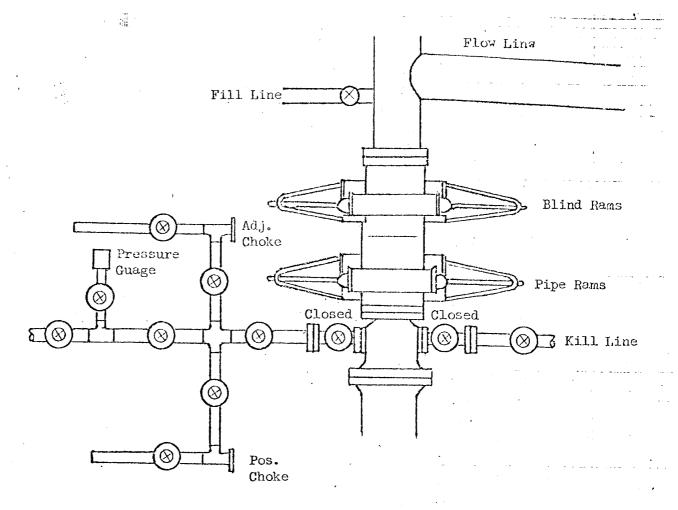
	DEPARTMENT	5. LEASE DESIGNATION AND HERIAL NO.						
A DELICATION	GEOLOG	SF-079511-A 6. IF INDIAN, ALLOTTER OR TRIBE NAME.						
1a. Type or work	Y FOR PERMIT T							
b. TYPE OF WELL		DEEPEN [BACK 🗌	7. UNIT ACHREMENT NAME				
OIL G WELL G W	AB OTHER	NE						
TENNECO OIL	COMPANY	- + <u>.</u>			Florance 9. WELL NO			
3. ADDRESS OF OPERATOR	St., Suite 1200	#46A 10. FIRLD AND POOL, OR WILDGAT						
4. LOCATION OF WELL (R At surface	eport location clearly and	in accordance with a	by State requirements.*)	0295	Blanco Mesa Verde 11. BEC., T., R., M., OR BUK. AND SURVEY OR AREA			
At proposed prod. zon	•	nit J			Sec. 29, T30N, R8 W			
Turn E on Le	and direction from NKAR ase Rd. off Hwy III Lease Rd. to	17, one mi,	S,of,Archuleta	go E 1½ n	12. COUNTY OF PARISH 13. STATE			
Urn right 0 15. DISTANCE FROM PROPERTY TO NEAREST	SED*	existing P.C.	. WOII.	E 17. NO. (F ACRES ASSIGNED			
PROPERTY OR LEASE L (Also to Dearest drip	ine, FT. ; unit line, if any)		+ 320		E/+325 287, 18			
18. DISTANCE FROM PROP TO NEAREST WELL, DO OR APPLIED FOR, ON THE	RILLING, COMPLETED,	18	+5338'	1	ARY OR CARLE TOOLS			
21. ELEVATIONS (Show who	ther DF, RT, GR, etc.)			<u> </u>	22. APPROX. DATE WORK WILL START*			
6173 GL	1 01	NAMES OF SING	AND OTHERWISE TO		April 21, 1977			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	AND CEMENTING PRO	PSRAM				
12-1/4"	9-5/8"	36#	+ 200'	Suff.	to circulate to surface			
8-3/4" 6-1/8"	7" 4-1/2"	23# 10.5#	+ 3388'	Suff.	to cement to surface csg. to cement to 7" csg.			
-	• •							
- The geologic n	ame of this suri	race formatio	on is (San Jose	Eocene/狄	exinixexxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
2&3Formation Tops								
Pictured Cli Cliff House	TTS	+ 2 + 4	,888 'Possib ,608 'Possib	le oil or le oil or	gas producer gas producer			
Menefee		+ 4	,688 'Possib	le oil or	gas producer			
Point Lookou Mancos Shale	t		,088 'Possib ,218 '	le oil or	gas producer			
Casinghead wil	e pottom of /" o l be a 10" 900 s tors: Hydraulic	esg. to I.D. Series w/a 30 . double ram	and circulate of the color of t	cement bad t of rams	csg. Run a 4½" csg. Liner ck to the top of 4½' csg.			
line will be 2	", choke relief	line will be	2" with varial	ole choke.				
- We will use; sp conditions from	pud mud from 0-± m <u>+</u> 200'- <u>+</u> 3388;	200'; Gel Ch Compressed g	emical w/low so as from <u>+</u> 3338;	olids as r to T.D	needed to maintain good hole			
b. Stabbing vc. Mud monito	will be in use valve to fit dri	ll pipe will sual, no abn	be present on ormal pressures	floor at s are anti	all times. cipated in this area.			
and Compensated	ll be taken at t d Density logs w this well will	fill be run.	Any other eva	. No core	es will be taken. Gamma Ray hat may be necessary during			
- No abnormal pre equipment.	ssures or tempe	ratures are	anticipated. S	See point	#5 for blowout prevention			
O-The drilling of Southern Union	this well will Gathering Co.	take approx	imately eight o	lays. The	e gas is contracted to			
in above space describe zone. If proposal is to d preventer program, if any,	rill or deepen directionally	oposal is to deepen o g, give pertinent dat	or plug back, give data of a on subsurface location	n present room	tive zone and proposed new productive			
19.4D	Musen		Div. Productio	Manager	1077 2-16-77			
(This space for Federal	al or State office usel	TITLE		-CR2	CON DECENIE			
, .	·			1-011	MECEIVED			
PERMIT NO.			APPROVAL DATE	10	FEB 2 2 1977			
APPROVED BY	L, IP ANT:	TITLE _		-	DATE			
Ola	al				S. GEOLOGICAL SURVEY			



All valves 2"

All BOPs, flanges, spools, valves, & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado

WELL LOCATION AND ACERAGE DEDICATION PLAT

Operator				Lease				l W	/ell No.	
TENNECO OIL COMPANY			FLORANCE					46 - A		
Unit Letter J	Section 29	Township 30 NO	RTH	Range 8 16	EST	County	IN JUAN	······································		
Actual Footage Loc	cation of Well:		· · · · · · · · · · · · · · · · · · ·	- ! -		1				
1450	feet from the	SOUTH	line and	151	5 16	et from the	EAST	line		
Ground Level Elev. 6173	_	Formation anco Mesa	Verde	Pool Blar	ico Mes	sa Verde		Dedicated	Avereoge E/a	287,70 Acres
1. Outline the	acerage dedica	ited to the subj	ect well by co	olored penci	or hach	ure marks o	n the plat b	elow.		
(x) Yes (If answer is "r	an one lease of ation, unitizati	on, force-pooli If answer is "y ners and tract	ng. etc? es," type of	consolidation	. Co	ommunitiz	ation		•••••	***************************************
No allowable w	vill be assigned erwise) or until	to the well unt	il all interests d unit, elimin	s have been ating such	consolic nterests	dated (by o	communitize	ation, unit	ization nission.	, forced-
							CEI	TIFIC	ATI	0 N
	. 4.	olean'W	(4	eich.		he	I hereby con	tify that the	informa	ition contains

Position Production Analyst ¥ #46 Company Tenneco Oil Company Date February 14 **(**0 7 February

79.48Chi

589º12'W

Registered Professional Engineer and/or Land Surveyor James P. Leese

1463

OIL DIST. Gertificate No.

Existing Roads: See surveyors plat for actual staking. The well site is located approximately 1½ miles SE of Archuleta, N.M. b. See Exhibit "B" for access roads. С. d. Not applicable. See Exhibit "B" for one mile radius road map.

No new road will be necessary because PC well is 150' south of stake. We will e. construct water bars where necessary, and slope road through all arroyos. Planned Access Roads: See Exhibit "B". b. Width=14 No turnouts. c. Drainage=Water bars will be constructed where required to prevent erosion. đ. Road will be cut into any arroyos and sloped across the bottom to maintain normal e. Cuts or fills will be kept to a minimum. No gates or cattle guards are needed. f. Road is center line flagged. q. Location of Existing Wells. See Exhibits "B" and "C" for well locations. Location of Existing and/or Proposed Facilities.

a. See Exhibit "B" and "C". Lines are buried. This is expected to be a dry gas well. If condensate is encountered, a 300 bbl b. steel tank painted <u>green</u> to match the surrounding area, will be set on a gravel base near the well as shown on Exhibit "A". A dirt bank will be erected around the tank to contain any spills. The possible spill area will be fenced. If well is productive, pits will be backfilled, leveled and reseeded as soon as practical to original contours. Location and type of Water Supply

a. Water will be hauled from the San Juan River, or El Paso water wells. Trucks will be used to haul water. b. No water well will be drilled. C. Source of Construction Materials No construction materials will be used. Surface soil will be stockpiled. a. We will not be getting any construction materials from Federal or Indian lands. b. No construction materials will be used. c. No access roads for construction materials will be needed. d. Methods for Handling Waste Disposal
a. Cuttings will be disposed of in the reserve pit. Drilling fluids and produced water will be collected in the reserve pit and b&c hauled away to an approved disposal system or a separate disposal application will be submitted. Any produced oil will be run to the tank (see 4:8) All detrimental waste will be hauled away, burned or buried with a minimum dåe cover of 24" of dirt. After the rig moves out, See 4:C. If unproductive, a dry hole marker will be f. installed and all pits will be filled, leveled and entire location reseeded to your specifications. Roads will be leveled and reseeded. Ancillary Facilities No camps or airstrips will be needed in the drilling of this well. Well Site Layout. See Exhibit "A" a. Pits will be unlined. Plans for Restoration of Surface.

a. See 4:C and 7:A-F

b. BLM SEEDING REQUIREMENTS IN THE FARMINGTON RESOURCE AREA

We will use seed mixture (\(\)\ \(\)\ \(\)\ A disc-type drill set for 8"-10" rows with two boxes for various seed sizes will used. The seed will drilled on the contour not less than \(\)\ deep or more than 1" deep, followed by a drag, packer, or roller to compact and cover the seed adequately. Where slopes are to steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered by whatever means are practical. The following species in lbs. pure-live-seed per acre will used:

SEED MIXTURE 1

SEED MIXTURE 2

SEED MIXTURE 1

2-\frac{1}{2} lbs. Smooth Brome (Bromus inermis)

1 lb. Nomad Alfalfa (Medicago sitiva)

2-\frac{1}{2} lbs. Fourwing Saltbush (dewinged) (Atriplex conescens)

2-\frac{1}{2} lbs. Crested Wheatgrass (Agropyron desertorum)

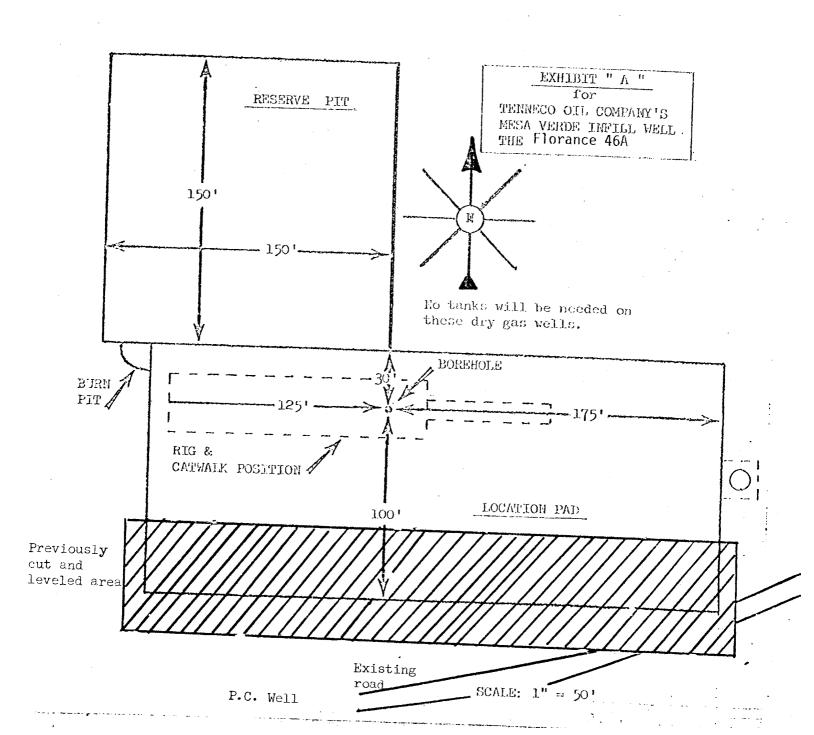
Sand Dropseed (Sporobolus cryptandrus)

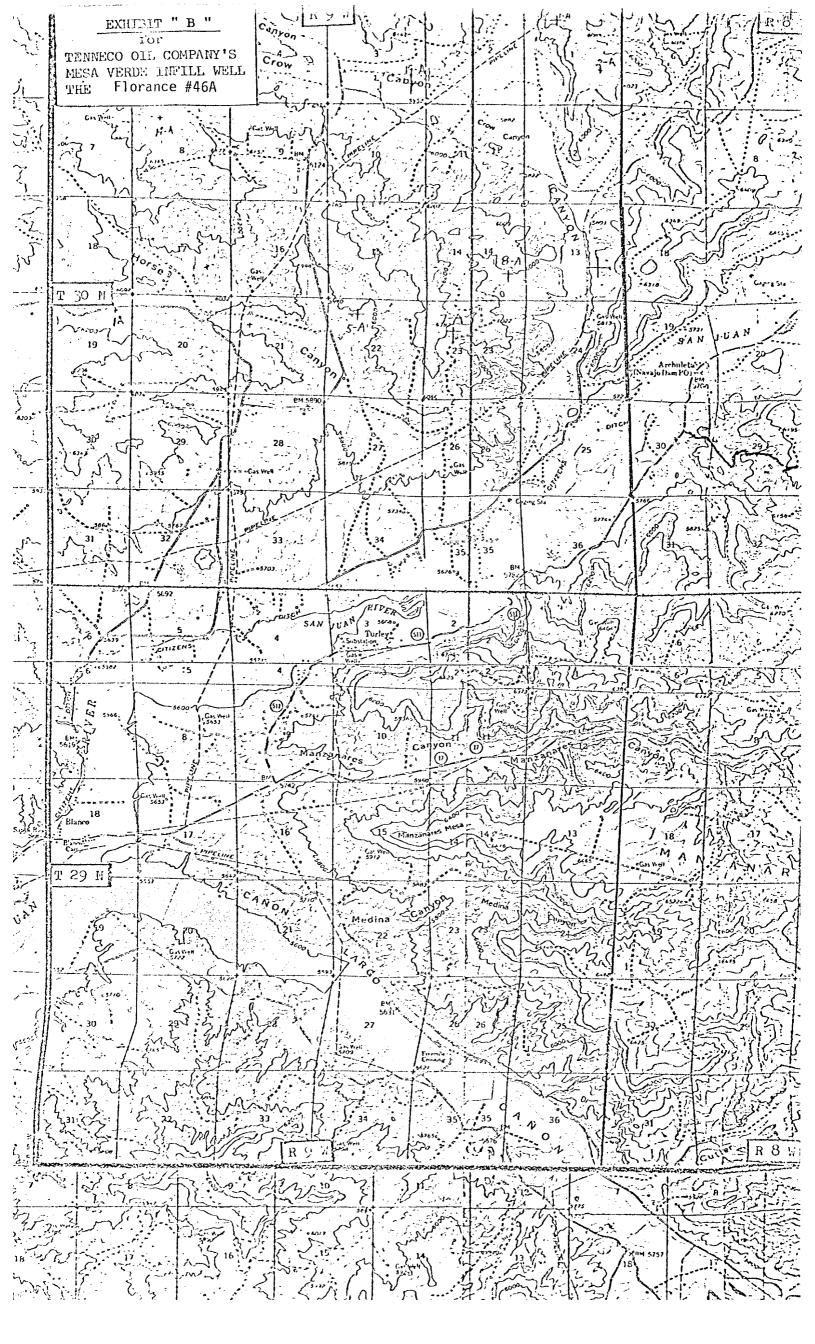
Winterfat (Eurotia lanata)

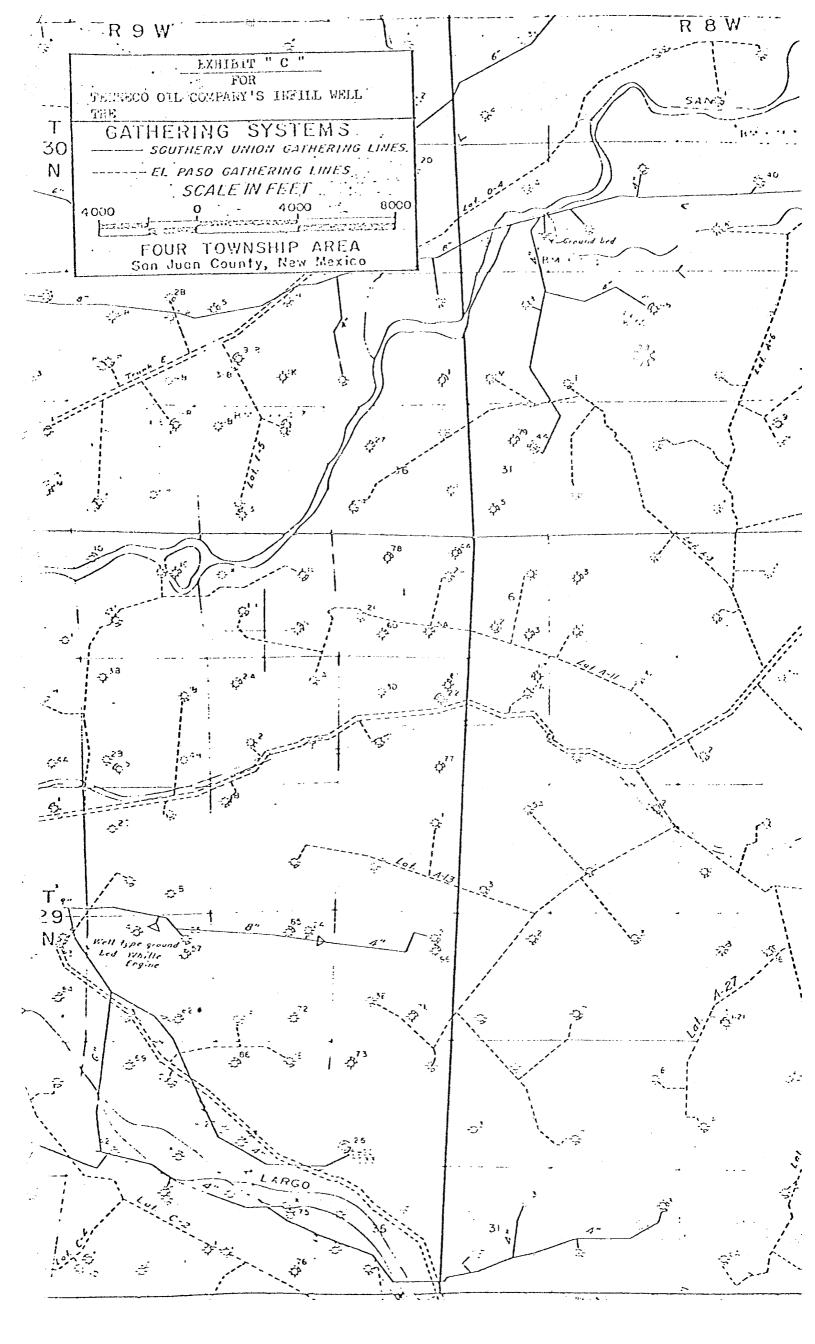
Alkali Sacaton (Sporobolus airoides)

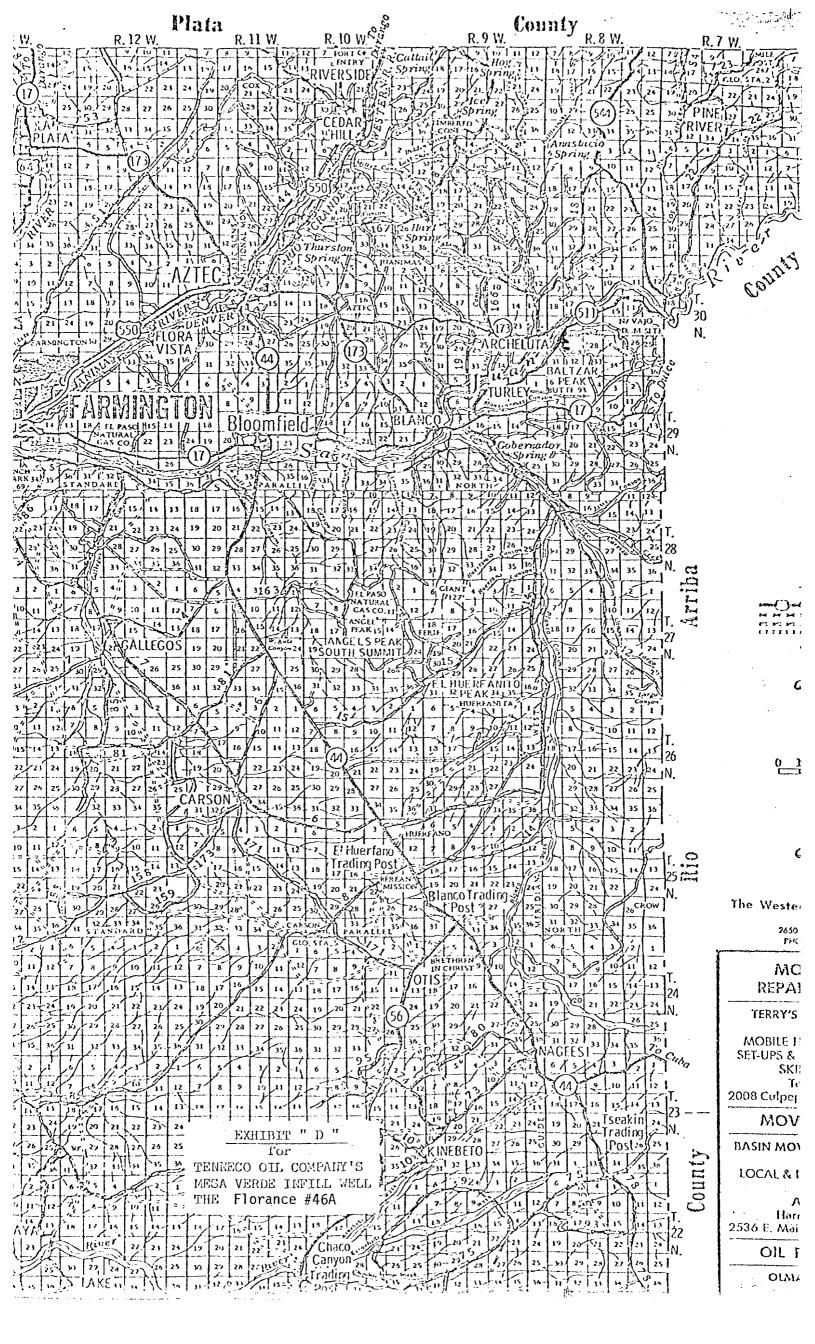
1 lb.
3-1 lbs.
1 lb.
2 lb.
2 lb.

If any oil is on the pit, it will be removed or flagged. d. Rehabilitation operations will be done during the best weather conditions to е. promote regrowth in area. All seeding will take place between July 1 and Sept. 11. Other information. Site is located in Junipers with bentonite and sand for soil. The vegetat is predominately Juniper and grass. The surface is used for grazing, for wildlife No open water, occupied dwellings, archaeological, historical or cultural site С. will be disturbed by this location. 12-Operator's Representative. a. Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows: Darrell Brown, 1860 Lincoln, Suite 1200, Denver, Colorado 80295 Home=303-771-8297 13--Certification. 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 sub-contractors will conform to this plan. 2-16-77 D.E. Brown Date Division Drilling Engineer











DEPARTMENT OF THE INTERIOR

To All Operators:

upon federally supervised lands shall provide the following information on with Form v-331C, "Application for Permit to brill, Deepen, or Effective July 1, 1976, to comply with ATL-6, all operators drilling Plug Back:

- The geologic name of the surface formation.
- The estimated tops of important geologic markers.
- other mineral-bearing formations are expected to be encountered The estimated deaths at which anticipated water, oil, gas, or
- weight-per-foot of each string and whether new or used. The proposed casing program, including the size, grade, and
- The type and characteristics of the proposed circulating needing or mediums to be employed for rotory drilling and the testing procedures and testing frequency. control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings (or API series), and The lessee's or operator's minimum specifications for pressure
- The auxiliary equipment to be used, such as (1) kelly cocks, (2) floats at the pit, (3) monitoring equipment on the mud system, (4) a sub on the floor with a full opening valve to be stabbed into drill pipe when the kelly is not in the the quantities and types of muc and weighting material to be maintainec.
- ç
- ٠, The testing, logging, and coming programs to be followed with provision made for required flexibility.

 Any antic rated abnormal pressures on temperatures expected to encountered or potential hazards such as hydrogen sulfide gos, along with plans for miticating such hazards.
- ö 91,1 anticipated starting date and duration of the operations

Worthern Rocky Mountain Area Chacksheet for HTL-6 Multipoint Requirements to Accompany APD

Existing Roads - a legible map showing:

- Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes.)
 Soute and distance from meanest town or locatable*reference
- Access road(s) to location color-coded or labeled. point to where well access route leaves main road.
- If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.).
- af well site. f development well, all existing roads within a 1-mile radius
- F. / Plans for improvement and/or maintenance of existing roads.

Planned Lecess Roads
Map showing all necessary access roads reconstructed, showing: to be constructed pr

- Yakimum grades
- Turnouts
- E333 mador cuts and fills Drainage design Location and size of culverts and brief description of any
- urfacing material
- ESE coursey gutes, cattleguerds, or ferce cuts recited coads are to be center-line flegged

Location of Existing Wells

development well, showing and identifying existing: Two-mile radius map if exploratory, or 1-mile radius map

- Meter wells
- Temporarily abandoned wells Disposal wells Orilling wells Abandoned wells

- Producing Wells
- Shut-in wells njection wells

Monitoring or observation wells for other resources

Location of Existing and/or Proposed Facilities

:-

Within 1-mile redies of location slow the following existing facilities owned or controlled by lessee/operator:

- fank betteries

- (2) Production facilities
 (3) Oil gathering lines
 (4). Gas gathering lines
 (5) Injection lines
 (6) Disposal lines
- (Indicate if any of the above lines are buried.) If new facilities are contemplated, in the event of p the event of production.
- 3 Proposed location and attendent lines by flagging if off of well pad
- Dimensions of facilities
- Construction methods and materials
- **E** 60 5 Protective measures and devices to protect livestock and wildlife
- Plan for rehabilitation of disturbed areas no for operations after construction completed. ionger needed
- Location and Type of Water Supply

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- A. 'Show location and type of water supply either on map or
- writton description. 'State method of transporting water, and show any roads or pipelines needed.
- for water well necessary, however, unless it will penetrate potential hydrocarbon horizons.) If water well is to be drilled on lease, so state. (No Sav
- <u>e of Construction Materials</u> Show information either on map or by written description.
- Describe where materials, such as sand, gravel, stone, and Identify if from Federal or Indian land.
- Show any needed access roads crossing Federal soil material, are to be obtained and used. or Indian lands
- under item 2.
 Methods for Mandling Waste Disposal
- disposal of waste material, including: Describe methods and location of proposed containment and
- Cuttings
 Drilling fluids
 Produced fluids (oil, water)
- (4) \ Sewage (5) "Garbage and other waste material (Trash pits should be fenced with small mush wire to prevent wind scattering fenced with small mush wired or buried.)
- 6 Statement regarding proper cleanup of well site area

53 Ancillary facilities

center and direction center lines to be staked on the ground.) Identify all proposed camps and airstrips on a map as to their location, area required, and construction methods. (Camp

- A plat (not less than !" * 50') showing:
- Cross sections of drill pad with cuts and fills
- Location of mud tanks, reserve, burn and trush pits, pracks, living facilities, and soil material stockpyles
- Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking or facilities may be done at time of field inspection. A registered surveyor is not mandatory for such operations.) Rig orientation, parking areas, and access roads

for Restoration of Surface

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state restoration program upon completion of operations,

including:
()) - Backfilling, leveling, contouring, and waste disposal;

- segregation of spoils materials as needed
 (2). Revegetation and rehabilitation including access roads
 (normally per BLM recommendations)
- (3). Prior to rig release, pits will be fenced and so maintained until cleanup
- (4) If oil on pit, remove oil or install overhead flagging (5). Timetable for commencement and completion or rehabilitation Subtantado
- Other Information

Ξ. General description of:

- Topogruphy, soft characteristics, geologic features, flora
- (2) Other surface-use activities and surface ownership of all involved lands
- 3 Proximity of water, occupied dwellings, archeological, historical or cultural sites
- 7 surface use and operations plan. tive who is responsible for assuring compliance with the approyed Lessee's or enerator's representative. Include the name, address, and phone number of the lessee's or operator's field representa-
- Contification. The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in item No. 12 of the pian: field representative who is identified in

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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 plun are, to the best of my knowledge, true and correct; and that the proposed work performed by this plan. and its contractors are sub-contractors will conform

Name and Title