### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

5. LEANE DESIGNATION AND SERIAL NO.

# (Other instructions on reverse side) 30-045-24391

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY				SF 078472			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OR TRIBE NAM		
DRILL DEEPEN DEEPEN PLUG BACK					7. UNIT AGREEMENT NAME		
b. Type of well	AS 📆		61	NGLE	MULTIN		SAN JUAN 32-7 UNIT
WELL W	ELL X OTHER			NE L	ZONE	<u>"                                    </u>	8. FARM OR LEASE NAME
2. NAME OF OPERATOR	DHI THE CODDODAM	TON					SAN JUAN 32-7
NORTHWEST PIPELINE CORPORATION  3. ADDRESS OF OPERATOR					63		
P.O. BOX 90	P.O. BOX 90, FARMINGTON, NM 87401					10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface					BASIN DAKOTA		
5	N, R7W, 1795 FN	L, 1575 FEI					11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
SAME							SEC. 28, T32N, R7W
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	REST TOWN OR POS	T OFFICE	•			12 COUNTY OR PARISH 18. STATE
	TH OF TIFFINY,	COLORADO					RIO ARRIBA   N.Mexi
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	75 <b>'</b>	N.	. of acres in i	LEASE	N 320	
18. DISTANCE FROM PROP TO NEAREST WELL, DO OR APPLIED FOR, ON THE	RILLING, COMPLETED,			OPOSED DEPTH		1	RY OR CABLE TOOLS
21. ELEVATIONS (Show whe	ether DF, RT, GR, etc.)	···	<u> </u>	· · · · · · · · · · · · · · · · · · ·			22. APPROX. DATE WORK WILL STAR
6650 GR.							JUNE 1, 1980
23.	F	ROPOSED CASI	NG AND	CEMENTING	PROGRA	.M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DE	РТН		QUANTITY OF CEMENT
12 1/4"	9 5/8"	32.3 #		350			185 Sks
8 3/4"	7 "	20 #		3927			175 Sks
6 1/4"	4 1/2"	10.5# & 1]	L.6#	8220			350 Sks
A BOP will be All subsequer The north had RECEL  APR 1 & U. S. GEOLOGIC FARMINGTOL	AL SURVEY N, N. M.	termined at er the surf conducted 8 is dedica	T.D	casing is ugh BOP's to this we control of the contr	set a	Gas is	ented.  dedicated.  R 171000  CONCENT SURVEY  Heative poperand proposed new product d anti-fully vertical depths. Gire blow.
preventer program, if any							
81GNED Farel	6-Thomps	ral TIT	ne Dr	illing Eng	gineer	,	3-27-80
(This space for Fede	ral or State office use)	<del></del>					
PERMIT NO.				APPROVAL DATE	<del></del>		- FEVER
APPROVED BY			ri P		- 2	1-44	A STATE
CONDITIONS OF APPROV	AL, IF ANY;	TI	TLE		1	A	103C

**NMOCC** 

\*See Instructions On Reverse Side

BILLER LITTLE OF THE CHARTELIED ARE SUBJECT TO CHARLES WHITE ATTACHED "CENERAL BETTELLERENTS" / 72.1

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

		. All distances must be from		the Section.	Well No.
Operator		Le	dse		Well No.
NORTHWEST	NOTITIVE OF THE PARTY OF THE PA		SAN JUAN 32-7		63
Unit Letter	Section	Township	Range	County	
G	28	32N	<u> </u>	San Juan	
Actual Footage Loca			יז קטל	Fact	l'ac
1795		orth line and		ot from the East	line Dedicated Acreage:
Ground Level Elev:	Producing For	i			
6650		kota	Basin Dakot		360
2. If more the interest and a lf more that	nan one lease is nd royalty). an one lease of c		outline each and id	entify the ownership	thereof (both as to working  of all owners been consoli-
X Yes  If answer this form i  No allowa forced-poo	No If a is "no," list the if necessary.)	owners and tract descri	ptions which have a	actually been consolic	dated. (Use reverse side of mmunitization, unitization, approved by the Commis-
sion.					CERTIFICATION
	Sec		1575'	Norme Paul T Position Drilli Company	certify that the information con- mercin is true and complete to the my knowledge and belief.  Chompson  Ing Engineer  Test Pipeline Corp.  -80
· · · · · · · · · · · · · · · · · · ·		28	OIL CON COM	shown	2-10700
djb				Certification 3950	MEN. IL

#### DRILLING PROGNOSIS

Date: April 11, 1980 San Juan 32-7 Unit #63

I. Location: 1795' FNL & 1575' FEL

Sec. 28, T32N, R7W

Rio Arriba County, NMex.

Elevation: 6650' GR. Field: Basin Dakota

#### Geology: II.

Α.	Formation	Depth	Formation	Depth
	Ojo Alamo:	2563'	Point Lookout:	58801
	Kirtland:	2707 ¹	Mancos:	60451
	Fruitland:	2992 <b>'</b>	Gallup:	6795 <b>¹</b>
	Pictured Cliffs:	3540'	Greenhorn:	7950¹
	Lewis:	3727 <b>'</b>	Graneros:	8008
	Cliff House:	5572 <b>'</b>	Dakota:	8110 <b>'</b>
			Total Depth:	8220 <b>'</b>

B. Logging Program: I-ES with Sp and Gamma Ray and Neutron-Density

with Gamma Ray at Intermediate casing depth. Gamma Ray-Induction & Density at Total Depth.

C. Coring Program: None.

D. Natural Gauges: Gauge @ 5880', 6795', 8008' and @ total depth.

Record all gauges on daily drilling reports and morning report. Gauge all noticeable increases

in gas while drilling and report.

## III. Drilling:

÷-

A. Contractor:

Mud Program: Mud, water & gas will be furnished by Northwest

Pipeline Corporation from surface to toal depth.

a) Spud Mud: Water, Gel, & Lime

b) Surface Casing to Intermediate casing depth: Water, Gel, Lime &

Barite

c) From Intermediate casing depth to T.D. will be drilled with gas.

#### IV. Materials:

A. Casing Program:

Hole Size	Depth	Casing Size	WT & Grade	<u>Depth Set</u>
12-1/4"	350	9-5/8"	36# K-55	350 <b>'</b>
8-3/4"	3927 <b>'</b>	7"	20# K-55	3927'
6-1/4"	8220 <b>'</b>	4-1/2"	10.5# K-55	0' - 6800'
0 17 1		4-1/2"	11.6# K-55	6800' - TD

B. Float Equipment:

Surface Casing: 9-5/8" Larkin Guide Shoe and Self-Fill insert float valve.

Intermediate Casing: 7" Dowell Guide Shoe.

Dowell Self-Fill insert float valve.

Dowell Centralizers (5) five.

Production Casing: 4-1/2" Larkin Geyser Shoe.

Larkin Flapper type float collar.

C. Tubing: 8170' of 2-3/8", 4.7#, J-55, 8 RD EUE tubing w/ common seating nipple above bottom joint.

D. Well Head Equipment: Gray Tool Company drawing # E-5533, or equivalent. Well Well head representative to set slips on intermediate & Production strings.

## V. Cementing:

A. Surface Casing: 9-5/8" - Use 185 sks C1 "B" cmt w/ 1/4# gel flake/sk & 3% CaCl2. (100% excess to circ 9-5/8" csg). WOC 12 hrs. Test to 600 PSI for 30 min.

B. Intermediate Casing: 7" - Use 125 sks of 65/35 C1 "B" poz w/ 12% gel & 15.52 gal of wtr per sk. Tail in w/ 50 sks of C1 "B" w/ 2%  $CaCl_2$  (330 cu.ft of slurry, 60% excess to cover Ojo Alamo). Use top rubber plug only. Run temp survey after 8 hrs. WOC 12 hrs. Test csg to 1200 psi for 30 min.

C. Production Casing: 4-1/2" - Precede cmt w/ 40 bbls wtr mixed w/ 4 sks gel. Cmt w/ 250 sks Cl "B" cmt w/ 8% gel, 12-1/2# fine gilsonite/sk and 0.4% HR-4. Tail in w/ 100 sks Cl "B" cmt w/ 1/4# fine tuf - plug/sk & 0.4% HR-4/sk. (660 cu.ft of slurry) (50% excess to fill to intermediate csg). Run temp survey after 8 hrs. Perforate after 18 hrs.

F. H. Wood

# NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the

San Juan 32-7 Unit

Well Number #63

- 1. Existing Roads: See attached topographic map. All existing roads used, shall be maintained in a serviceable condition at all times during the drilling operation.
- 2. Planned Access Roads: See attached topographic map. Maximum grade is approximately 1%. The road surface will not exceed twenty feet in width. Upon completion of drilling operations the access road will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary. All activities will be confined to the access road and drill pad.
- 3. Location of Existing Wells: See attached topographic map.
- 4. Location of Tank Batteries; Production Facilities; and Production, Gathering and Service Lines: See attached topographic map for locations of existing and proposed gas gathering lines.
- 5. Location and Type of Water Supply: Water needed for the drilling operation will be hauled from the Pine River.
- 6. Source of Construction Materials: No additional materials will be needed.
- 7. Methods for Handling Waste Disposal: All garbage, debris, and trash will be buried at least three feet deep. A portable toilet will be supplied for human waste. After drilling operations have been completed the reserve pit will be fenced and the liquid portion will be allowed to evaporate before the location is cleaned up and leveled. The earthen pits will not be located on natural drainages and will be constructed in such a manner so that they will not leak. Any evaporator pit containing toxic liquids will be fenced.
- 8. Ancillary Facilities: There will be no camps or airstrips associated with the drilling of this well.
- 9. Well Site Layout: See attached location layout sheet. There will be a drainage ditch above the cut slope.
- 10. Plans for Restoration of the Surface: Upon completion of drilling, the location will be cleaned, and leveled so that no cut or fill banks will be steeper than 3:1.

All of the area disturbed in connection with the drill site will be seeded as close as possible for any above ground equipment while still allowing for access to the equipment. Seeding will be done within one year after drilling is completed and during the period from July 1 through September 15. Seeding will be done with seed Mixture #1.

All equipment above ground will be painted a non-glare, non-reflective, non-chalking color that simulates the natural color of the site. For this well code number 595-34127, green.

11. Other Information: If, during operations, any historic or prehistoric ruin, monument or site, or any object of antiquity is discovered, then work will be suspended and the discovery will be reported to the District Manager of the BLM.

All liquids from the line will be contained at the site unless otherwise specified by the surface agency's representative.

Page 2

When drilling with gas, the line used to discharge and burn off the gas will be located so as not to damage vegetation in the area, and if necessary an earthen screen will be constructed to protect the vegetation. All liquids from the line will be contained at the site unless otherwise specified by the surface agency's representative.

The area covered by the location and proposed access road is gently sloped with scattered brush and some grasses.

- 12. Operator's Representative: Paul Thompson P.O. Box 90 Farmington, New Mexico 87401. Phone: 327-5351 Extension # 115
- 13. Certification:

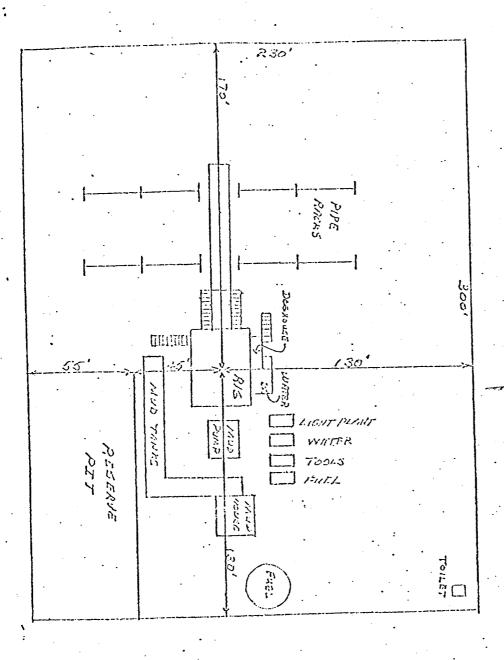
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by Northwest Pipeline Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4-14-80 Date

Paul Thompson

Drilling Engineer

WJB/ch



DATE.

#### OPERATIONS PLAN

Date: April 14, 1980

I. Location: 1795' FNL & 1575' FEL Lease Number: San Juan 32-7 #63

Sec. 28, T32N, R7W

Rio Arriba County, NMex.

Field: Basin Dakota Elevation: 6650' GR.

### II. Geology:

Α.	Formation Tops	Depth	Formation	Depth
	Ojo Alamo:	2563 ¹	Point Lookout:	5880 <b>'</b>
	Kirtland:	2707 <b>'</b>	Mancos:	6045 <b>'</b>
	Fruitland:	2992 <b>'</b>	Gallup:	6795 <b>'</b>
	Pictured Cliffs:	3540'	Greenhorn:	7950 <b>'</b>
	Lewis:	3727 <b>'</b>	Graneros:	8008
	Cliffhouse:	5572'	Dakota:	8110'
			Total Depth:	8220 <b>'</b>

B. Logging Program: I-ES with SP and Gamma Ray and Neutron-Density

with Gamma Ray at Intermediate casing depth.
Gamma Ray-Induction & Density at Total Depth.

C. Coring Program: None.

D. Testing Program: Gauge at 5880'. 6795', 7669'. and Total Depth.

Record all gauges on daily drilling report and morning report. Gauge all noticeable increases

in gas while drilling and report.

#### III. Drilling:

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A. B.O.P.: Blind rams and pipe rams, 10", 900 series, double gate, rated at 3000 PSI.

B. Mud Program: Mud, water & gas will be furnished by Northwest Pipeline Corporation from surface to total depth.

a) Spud Mud: Water, Gel, & Lime

b) Surface Casing to Intermediate casing depth: Water, Gel, Lime &

c) From Intermediate casing depth to T.D. will be drilled with gas.

#### IV. Materials:

A. Casing Program:

Hole Size	Depth	Casing Size	WT. ε	Grade	Depth Set
13-1/2"	350 t	9-5/8"	36#	K-55	350'
8-3/4"	3927 <b>†</b>	7"	20#	K-55	3927 <b>'</b>
6-1/4"	0'-6800'	4-1/2"	10.5#	K-55	0'-6800'
6-1/4"	6800'-T.D.	4-1/2"	11.6#	K-55	6800'-T.D.

B. Float Equipment:

Surface: 9-5/8" - Larkin guide shoe and self fill insert float valve. Intermediate: 7" - Dowell guide shoe, Dowell self filling insert float valve, Dowell centralizers five (5).

Production: 4-1/2" - Larkin Geyser shoe, Larkin flapper type float collar.

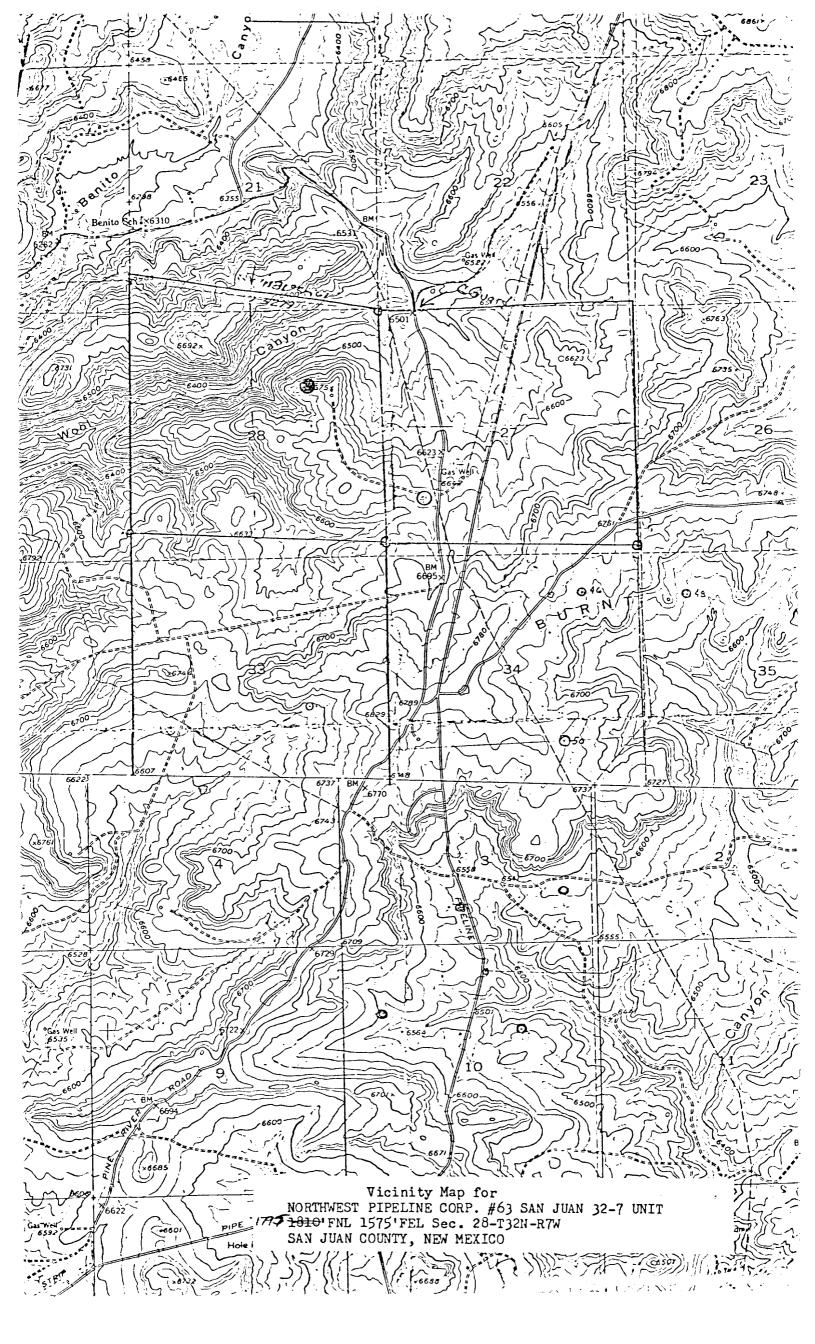
- C. Tubing: 8170' of 2-3/8", 4.7#, J-55, 8RD EUE tubing with a common seating nipple above bottom joint.
- D. Well Head Equipment: Gray Tool Company drawing No. E-5533, or equivalent. Well head representative to set slips on intermediate and production strings.

#### V. Cementing:

- A. Surface Casing: 9-5/8" Use 185 sks of C1 "B" Cement with 1/4# gel flake per sk and 3% CaCl<sub>2</sub>, (100% excess to circulate 9-5/8" casing). WOC 12 hrs. Test to 600 PSI for 30 min.
- B. Intermediate Casing: 7" Use 125 sks of 65/35 Cl "B" poz with 12% gel and 15.52 gals. of water per sk. Tail in w/50 sks Cl "B: with 2% CaCl<sub>2</sub> (350 cu.ft. of slurry 60% excess to cover Ojo Alamo). Use top rubber plug only. Run temperature survey after 8 hrs. WOC 12 hrs. Test casing to 1200 PSI for 30 minutes.
- C. Production Casing: 4-1/2" Precede cement with 40 barrels of water mixed with 4 sks gel. Cmt with 250 sks

  Cl "B" cmt with 8% gel, 12 1/2# fine gilsonite per sk and 0.4% Hr-4. Tail in w/100 sks of Ci "B" cmt with 1/4% fine tuf-plug per sk and 0.4% HR-4 per sk. Run temperature survey after 8 hrs. Perforate after 18 hrs.

Paul C. Thompson



#### REVISED

#### DRILLING PROGNOSIS

RECENTER 11, 1980 San Juan 32-7 Unit #63 1795' FNL & 1575' FEI Location: MAY Sec. 28, T32N, R7W y. s. centectiat stilley. Rio Arriba County, NMex. FARMINGTON, M. I. Elevation: 6650' GR. Basin Dakota

Surface: San Jose Geology: II.

Field:

Α.	Formation	Depth	Formation	Depth
	Ojo Alamo:	25631	Point Lookout:	5880'
	Kirtland:	2707'	Mancos:	6045'
	Fruitland:	29921	Gallup:	6795 <b>'</b>
	Pictured Cliffs:	35401	Greenhorn:	<b>7</b> 950 <b>'</b>
	Lewis:	37271	Graneros:	8008
	Cliff House:	5572 1	Dakota:	8110'
	01111 110400.	· <del>-</del>	Total Depth:	8220 <b>'</b>

I-ES with Sp and Gamma Ray and Neutron-Density Logging Program:

with Gamma Ray at Intermediate casing depth. Gamma Ray-Induction & Density at Total Depth.

None. Coring Program:

Natural Gauges: Gauge @ 5880', 6795', 8008' and @ total depth. D.

Record all gauges on daily drilling reports and morning report. Gauge all noticeable increases

in gas while drilling and report.

#### III. Drilling:

÷-

- Contractor:
- Mud Program: Mud, water & gas will be furnished by Northwest Pipeline Corporation from surface to toal depth.
  - a) Spud Mud: Water, Gel, & Lime
  - b) Surface Casing to Intermediate casing depth: Water, Gel, Lime &
  - c) From Intermediate casing depth to T.D. will be drilled with gas.
- C. While drill pipe is in use, pipe rams shall be actuated to test proper functioning not less than one each day.

Once each trip, the blind rams shall be actuated to test proper functioning.

Record all tests on Northwest Pipeline tour report, with time each test was conducted.

#### IV. Materials:

	Canina	Drograms
·A.	Casing	Program:

Hole Size	Depth	Casing Size	WT & Grade	<u>Depth Set</u>
12-1/4"	350'	9-5/8"	36# K-55	350 <b>'</b>
8-3/4"	3927 <b>'</b>	7"	20# K-55 `	3927'
6-1/4"	8220	4-1/2"	10.5# K-55	0' - 6800'
0-1/4	0220	4-1/2"	11.6# K-55	6800' - TD

B. Float Equipment:

Surface Casing: 9-5/8" Larkin Guide Shoe and Self-Fill insert float valve.

Intermediate Casing: 7" Dowell Guide Shoe.

Dowell Self-Fill insert float valve.

Dowell Centralizers (5) five.

Production Casing: 4-1/2" Larkin Geyser Shoe.

Larkin Flapper type float collar.

C. Tubing: 8170' of 2-3/8", 4.7#, J-55, 8 RD EUE tubing w/ common seating nipple above bottom joint.

D. Well Head Equipment: Gray Tool Company drawing # E-5533, or equivalent. Well Well head representative to set slips on intermediate &

Production strings.

## V. Cementing:

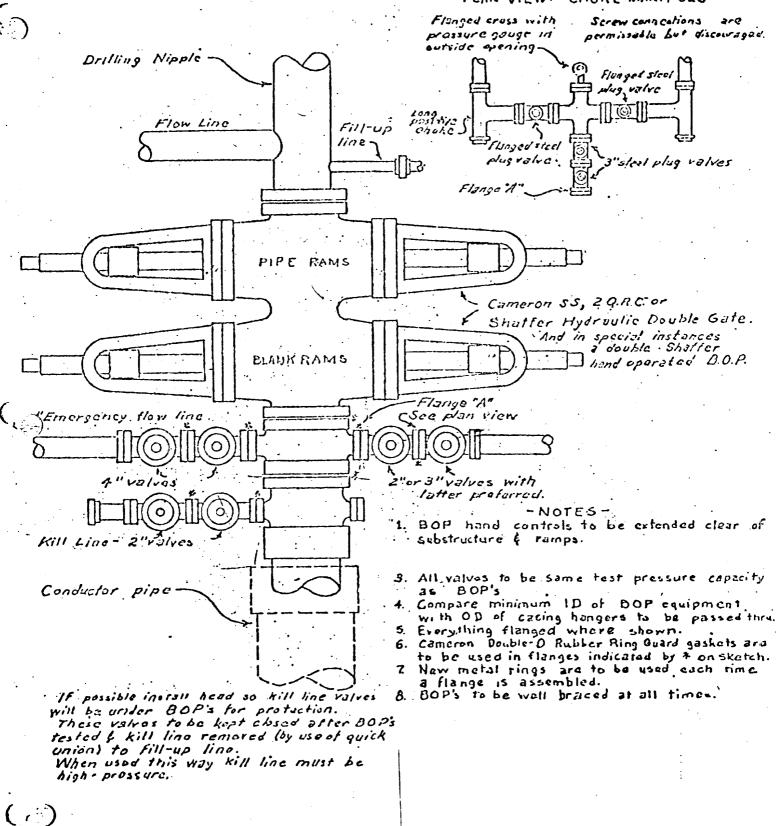
A. Surface Casing: 9-5/8" - Use 185 sks C1 "B" cmt w/ 1/4# gel flake/sk & 3% CaCl2. (100% excess to circ 9-5/8" csg). WOC 12 hrs. Test to 600 PSI for 30 min.

B. Intermediate Casing: 7" - Use 125 sks of 65/35 C1 "B" poz w/ 12% gel & 15.52 gal of wtr per sk. Tail in w/ 50 sks of C1 "B" w/ 2% CaCl<sub>2</sub> (330 cu.ft of slurry, 60% excess to cover Ojo Alamo). Use top rubber plug only. Run temp survey after 8 hrs. WOC 12 hrs. Test csg to 1200 psi for 30 min.

C. Production Casing: 4-1/2" - Precede cmt w/ 40 bb1s wtr mixed w/ 4 sks gel. Cmt w/ 250 sks Cl "B" cmt w/ 8% gel, 12-1/2# fine gilsonite/sk and 0.4% HR-4. Tail in w/ 100 sks Cl "B" cmt w/ 1/4# fine tuf - plug/sk & 0.4% HR-4/sk. (660 cu.ft of slurry) (50% excess to fill to intermediate csg). Run temp survey after 8 hrs. Perforate after 18 hrs.

F. H. Wood





SINGLE PIPE RAM
BLOWOUT PREVENTOR HOOKUP