SUBMIT IN TRI

(Other instruc

reverse side;

Form approved.

UNITED STATES

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	F	* ***	

	Budget	Bureau	Νo.	42-R142
i	015	-2	1/5	21

	CALDADIMALA	OL INLE	טווט	·-		
	DEFARTMEN	OF THE INTE	RIOR		5. LEASE DESIGNATION	AND SERIAL NO.
	GEOLO	GICAL SURVEY		•	NM 0554481	•
APPLICATION	N FOR PERMIT	O DRILL, DEEP	EN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK					7	
DR	ILL X	DEEPEN 🗌	PLUG BA	CK 📙	7. UNIT AGREEMENT N.	AME
b. TYPE OF WELL	AS FOT	•	SINGLE MULTI	or Br		
WELL N	ELL X OTHER		ZONE ZONE	<u> </u>	8. FARM OR LEASE NAM	Œ
2. NAME OF OPERATOR					Tracy Federal	_
Union Oil Cor	mpany of Califor	rnia			9. WELL NO.	
3. ADDRESS OF OPERATOR				,	1	- 1
P. O. Box 671		Texas 79701			10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (R At surface	eport location clearly and	in accordance with any	State reliemelts. E	VE		
1980'	FNL & 660' FV	VL, Sec. 11			11. SEC., T., R., M., OR B AND SURVEY OR AR	
At proposed prod. zor	le	·	APR 1 9	1974	Sec. 11, T-22	2-S, R-27-I
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST OFFI	CE*		12. COUNTY OR PARISH	13. STATE
3 miles east	of Carlsbad		O. C.	C.	Eddy	N. Mexico
15. DISTANCE FROM PROPOLOCATION TO NEAREST		16. N	O. OF ACRES IN LEAST.			
PROPERTY OF LEASE I	LINE, FT.	660' 200	(Federal)	TO TI	320	
18. DISTANCE FROM PROF TO NEAREST WELL, D		19. F	PROPOSED DEPTH	20. ROTAL	RY OR CABLE TOOLS	
OR APPLIED FOR, ON TH		•	11,950'		Rotary	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)			G 21	22. APPROX. DATE WOL	RK WILL START*
3101.8	3' GR				On approva	.1
23.	I	ROPOSED CASING AN	D CEMENTING PROGR.	AM .		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	T
17 1/211	12 2/011	4.0	4001	700	041	· · · · · · · · · · · · · · · · ·

11-1/2	13-3/0	40	400	700 SXS - CIfculate to Surface
12-1/4"	9-5/8"	40	5,550'	2700 sxs - Circulate to surface
8-3/4"	5-1/2"	15.5 & 17	11,950'	1500 sxs
	1	1		

3000 psi WP Manual/Hydraulic B.O.P. from 400' to 5550'

5000 psi WP Manual/Hydraulic B.O.P. from 5550' to T.D.

5000 psi WP Hydril from 5550' to T.D.

3000 psi WP Rotating Head from 5550 to T.D.

5000 psi WP B.O.P. and Hydril, and 3000 psi WP Rotating Head to be tested to working pressure by independent service company before drilling into the Wolfcamp formation at approximately 8935'.

IFS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

\sim	to the second	
BIGNED OF STROM	TITLE District Drilling Supt.	February 4, 1974
(This space for Federal or State office use)	Subject to appro	refres Chaunting to
PERMIT NO. SEQUE TO ATTACK	acreened prior	
ONTENE OF APTROVAL, IF ANY:	WELL CONTROL	DATE

STREET O SONTHS. JUL 13 1974-

to simple if operations

*See Instructions On Reverse Side

NEV EXICO OIL CONSERVATION COMMISSIO. WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Cylerator			Lease		Well No.
	COMPANY OF	CALIFORNIA	TRACY FEDER	RAL	1
True ester	Section	Township	Romge	County	
E	11	22 SOUTH	27 EAST	EDDY	
Action Protinge Los	cation of Well:		***		
1980	teer from the	NORTH line and	660 _{fee}	t from the WEST	line
Amound evel Elev.	Freducing For	mation	Pool		Dedicated Acreage:
3101.8	Morrow		Undesignated Mor	rrow Gas	320 A 2013
1 Outline th	e acreage ded.ca	ted to the subject we	ell by colored pencil of	r hachure marks on the	e plat below.
2 If more th interest ar	nan one lease is nd royalty).	dedicated to the well	, outline each and ide	ntify the ownership th	ereof (both as to working
	communitization, u	nitization, force-poolis	ng, etc ^o	have the interests of	all owners been consoli
		swer is "'yes!" type o:			
If answer this form i	is "no," list the d f necessary.)	owners and tract descr O be communities	riptions which have ac	tually been consolida	ted (I'se reverse side of
No allowat	ole will be assigne	ed to the well until all	interests have been c	onsolidated (by comm	nunitization, unitization,
	ling, or otherwise)	or until a non-standard	l unit, eliminating sucl	h interests, has been	approved by the Commis-
5 ion.					
		7.0	!		CERTIFICATION
Stolts &		/2 /2	1		
Hi i	00 Acres	/4	i	i hereby ce	ertify that the information rem-
	d. Lee. No.			tained here	ein is true and complete to the
	M 0556481		1	best of my	knowledge and belief
)86					
	1		1		· · · · · · · · · · · · · · · · · · ·
	+			AND	14 8 5A
	l .		i	Festive	
	1		!	District Compary	Brilling Supt.
66 0'- - 0	!		!	l i	l Co. of California
	I		i .	Frate	· Ant AT ATTITUTET
	1		1	Pebruary	4. 1974
I					
	Union of Gali		JGINEER &	shown on t	certify that the well location his plat was plotted from held
			STATE OF S	1 ,	ctual surveys made by me or upervision, and that the same
====	50 Acre	E.G. P.P.	676 SIRVEYOR	i •	d correct to the best of my
Greathouse	•	12	1. 0/2/		
Parts and	1/2		TON MEXICO	Date Surveye	1
1112	1/2		OHN W. WEST		r 29, 1974
40 Acres				Ť :	rofessional Engineer
Ted. Lee.	No.		ł	and or Land	/ / / /
IN 055448	2 Tracy		t .	1 UM	m/1/1/ort
				TITE PASSICALE N	CA. An Marie
330 660	90 1321 1650 ; 41	2310 2640 2010	100 1000 80	0 0	676

Union Oil and Gas Divicion: Central Region

N. O. C. C. Copy Urlion Oil Company of California 500 North Marienfeld, Midland, Texas 79701 Telephone (915) 682-9731

Union

Midland District

January 31, 1974

U. S. Geological Survey
P. O. Drawer U
Artesia, New Mexico 88210

Gentlemen:

TRACY FEDERAL WELL NO. 1 Eddy County, New Mexico Twelve-point Surface Use Plan

Attached herewith the "Application for Permit to Drill" on Federal lands is Union's Twelve-point Surface Use Plan.

- Item 1. Existing roads including location of the exit from main highway EXHIBIT A.
 - 2. Planned access roads EXHIBITS A, B, & C. Approximately 1000' of 12' wide caliche road will need be constructed.
 - 3. Location of existing wells EXHIBIT A.
 - 4. Lateral roads to well locations EXHIBIT A.

Location of tank batteries and flow lines - There are no flow lines nor tank batteries within a 1/2 mile radius of the proposed location. See EXHIBIT B for proposed location of tank battery and sales gas line.

Location and type of water supply - Water needed for drilling will be trucked from supply wells near Carlsbad.

- 7. Method for handling waste disposal All incendiary material will be burned on location. Other items will be hauled away.
- Location of camps Trailer house will be located on drill site for supervisory personnel. No other camps are anticipated.

RECEIVE

Page -2U. S. Geologic Survey
Re: TRACY FEDERAL WELL NO. 1
Twelve-point Surface Use Plan
January 31, 1974

- Item 9. Location of airstrips None.
 - 10. Location of layout to include position of the rig, mud tanks, reserve pits, burn pits, pipe racks, etc. - EXHIBIT C.
 - 11. Plans for restoration of the surface Upon completion or P&A of well, location pits will be filled and leveled and location cleaned up.
 - 12. Any other information Location is on rolling caliche hills sparsely covered with scrub mesquite. There are no steep hillsides or gullies. The location will be brought to grade by blasting and ripping caliche hillside.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

D. M. Johnson

Acting District Drilling Superintendent

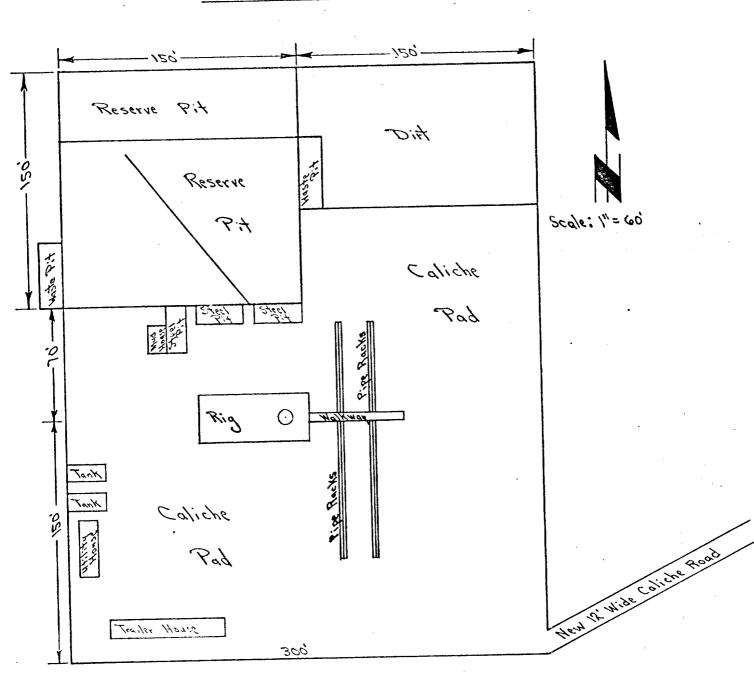
DMJ:1b

Attachments

Union Oil Company of California TRACY FEDERAL WELL NO. 1

Location: 1980' FHL & 660' FWL of Section 11, T-22-5, R-27-E, Eddy County, New Mexico

2 TIBIHX3

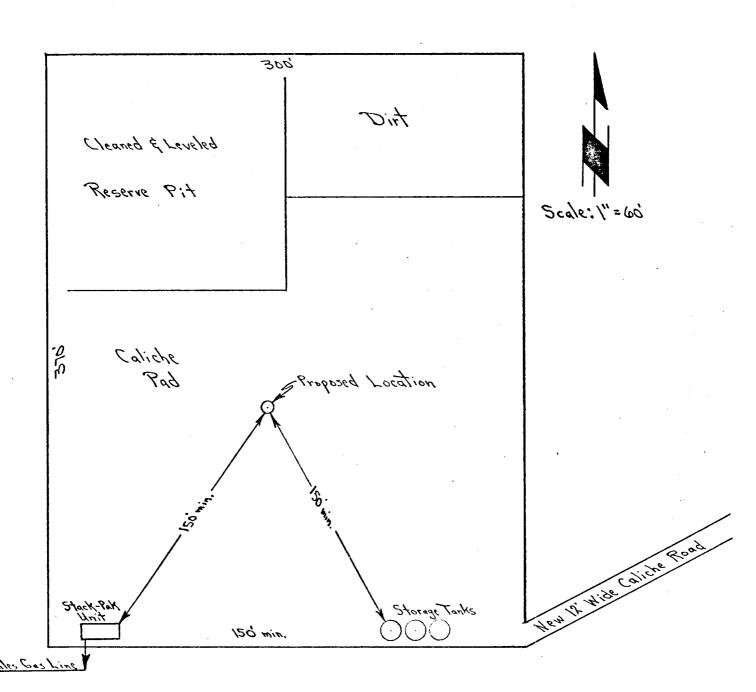


Rolling caliche hills with scrub mesquite

Union Oil Company of California TRACY FEDERAL WELL NO.1

Location: 1980' FML & 660' FML of Section 11, T-22-5, R-27-E, Eddy County, New Mexico

EXHIBIT B



DISTRICT OFFICE - MIDLAND, TEXAS

DRILLING PROGRAM

Field:

Undesignated Morrow Gas

Location: 1980' FNL & 660' FWL of

Well Name: TRACY FEDERAL WELL NO. 1

Section 11, T-22-S, R-27-E, Eddy County,

New Mexico.

Estimated Total Depth:

11,950'

Drilling Data:

Geolograph from surface to total depth.

Ten-foot drilling time from 2000' to total depth.

Samples:

At ten-foot intervals from 2000' to total depth.

Estimated Formation Tops:

Delaware Sand	2,155'
Bone Spring	5,455!
Wolfcamp	8,9351
Strawn	10,375'
Lusk	10,535'
Atoka	10,700'
Morrow	11,180'
Middle Morrow	11,480'
Lower Morrow	11,770'
Chester	11,930'

Logs:

Gamma Ray/Compensated Neutron Formation Density and Dual Laterolog with Caliper from total depth to surface.

DSTs:

One in Middle Morrow and one in Lower Morrow.

Cores:

None

Deviation:

Five degrees maximum from surface to total depth with rate of change not to exceed one degree per 100' of interval.

Casing & Mud Program:

		Size					Mud	
Depth	· · · · · · · · · · · · · · · · · · ·	Hole	Casing	Cement	W.O.C.	Wt.	Vis.	W.L.
0' to	400 '	17-1/2"	13-3/8"	*700	18 hours	As nee	ded to spu	d.
400' to	5,550'	12-1/4"	9-5/8"	**2700	18 hours	10.0 E	rine.	
5,550' to	9,500'	8-3/4"	-	-		8.4 Fr	esh Water.	
9,500' to	11,300'	8-3/4"	, -	-	-	10.0-1	1.0 30	NC
11,300' to	T.D.	8-3/4"	5-1/2"	***1500	6 hours	10.0-1	1.0 35-45	(15
Rig to be	released	after nip	pling up	5-1/2" cas	sing.			

*Surface casing to be cemented with 700 sacks Class "C" cement with 2% calcium chloride added. Cement calculated to circulate.

**Intermediate casing to be cemented with 2200 sacks HOWCO "LITE", or equivalent, followed by 500 sacks Class "H" neat cement. Cement calculated to circulate.

***Production casing to be cemented with 1500 sacks Class "H" cement with 0.75% CFR-2, 1/4#
Flocele and 8# salt per sack of cement. Precede cement with 1000 gallons mud flush.

NOTE: Changes in the above program will be at the direction of a qualified Union Oil Company of California representative and should be clearly indicated on the program posted at the rig.

T. G. Byrom

District Drilling Superintendent

TGB: DMJ: sd 1-23-74

FORM СR-13 1/72

CASING AND TUBING DESIGN

•		4	CASING AND TUBING DESIGN	DESIGN					
TIE	Tracy Tederal Mail FIEID Undy	FIELD Undwinghald Marron Sas	ſ						
CASING STR1	CASING STRING SUNTARCE & STATEMENT & COUNTY EARLY	STATE NOW MEXICO	Mexico	HI-SE-/ BIAD		DESIGN BY D.M. Johnson	Johnson	4	
CASING SIZE	3 13/3 29 5/4 HOLE SIZE NY 18 1/2 MUD WT. I 10.0	#/g. HYD GR.	I O.S.9 psi/ft. MD WT.	MUD WT. II	#/R. HYD. GR.	R. II	psi/ft. M.	M.S.P. 5000	, isb.
INTERVAL Bottom T	AL LENGTH DESCRIPTION Top Wt. Grade Thread	WEIGHT TENSION W W/BF -top of S' W/O BF section T	NINIMUM TOP STRENGTH TENSION 1000 lbs	F COLLAPSE PRESS. @ bottom psi	COLLAPSE CDF RESIST. tension psi	BURST PRESSURE ps1	INTERNAL MINIMUM YIELD PSI	BDF PRICE FER FER	COSE
1882)	3/2 Sutace 48 H-40 Bid 5T&C	19300	333 16.8		J70 3.70	1000	1730 8	5) 6/1	3860
5550	95/5 1478xxxx diste	333000 337000	ke: 2.34	3880	3090 1.08	2000	5750	1.15	50061
uoțe	Y=Tensile Load/Pipe Yield Strength	Formulae:		ଞା	Calculations:			Totel Cost	4?
		Collapse resistance in tension X (Collapse pressure rating	n tension = ne rating)						
Resist.		Burst Pressure = MSP + Depth (Hyd. Gr. II	. Gr. II5						
		BF (Bouyancy Factor) = 1.00 - (0.0153 X Mud Wt.	id Wt. I)						

TIZM	Tracy Federal Mail FIEID Undersonated		Merrey Sas	d									
CASING STRING	STRING RECAUTION COUNTY ENDA	7 7 7	STATE 1/8 43	Ry Maxico		DATE 1-23-14	-14	DESIGN	DESIGN BY DAM Johnson	Johnson	ı		
CASING SIZE	SVà Hole size S/4 Mud wr.	I/10 4/8.	g. HYD GR.	I 0.571 psi/ft.		MUD WT. II	#/8.	HYD. GR. II	II	psi/ft. M.S.P.	S.P.	5000	- :52
INI	INTERVAL LENGTH DESCRIPTION	WEIGHT W BF	TENSION -top of	MINIMOM STRENGTH	TDF	COLLAPSE PRESS @	COLLAPSE	CDF	BURST	INTERNAL	BDF	EDIRG CRD	ESOO
Eottom	rop Wt. Grade Thread	W/O BFV	section lbs	MOISNET 1000			tension		pst pst	XIEID psi		i ei	
700	0 700 17 M-80 Bathress	11900	203150	29.7	1912	400	(63869) 11773	6.1	5000		1.55 6	# 03.60 #	350
	700 2500 17 N-80 800 1745	43500	A1250	348	1,83	1837	(6380) 5238	19.0	5000	1740	1,55	. <u>/</u>	2799
2900	3300 600 17 K-55 Brd LTEC	10900	148750	818	68.	3170	3628	191	5000	5320	#90;/	3338	2000 B
0000	3800 2500 17 K-55 8x85x4C	42500	138550	253	(89)	3597	(18910) 14168	9/1/	5000	5336	90.	333	Regis
8300	6300 3000 17 N-80 Brid 17 4C	21000	96050	348	ام روی	5310	(6280) (6054	1	5000	7740	1.55.1	<i>1</i>	Maya
1950	9300 3650 17 500.95 Brd 17 tc	45050	45050	393	878	6893	0360	(k./	5000	9190	10:1	3 1 3 1 m	SHE'S
uor	Y=Tensile Load/Pipe Yield Strength	Formulae:				Cal	Calculations:	14.			Fota \$	le Total Cost	11294
w\Tensio	2.	Collapse resista X (Collapse	resistance in Alapse pressur	nce in tension = pressure rating)	= u	X-0113	ρ 	0.353	805.0 PCT.0	215.0	<i>10</i>	0.762	
Realat.		Burst Pressure MSP + Dept	.ssure = . Depth (Hyd. Gr.	yd. Gr. II	5)								
Coffabre	9.	BF (Bouyar 1.00 -	(Bouyancy Factor) = 1.00 - (0.0153 X Mud Wt.) = Mud Wt. I)									

CASING AND TUBING DESIGN

FORM CR-13 1/72

EXHIBIT A-__

WELL NAME: Tracy Federal No. 1

LOCATION: 1970 FAL = 660 FUL of Section 11,

T-22-5, R-27-E, Eddy County, May Mexics

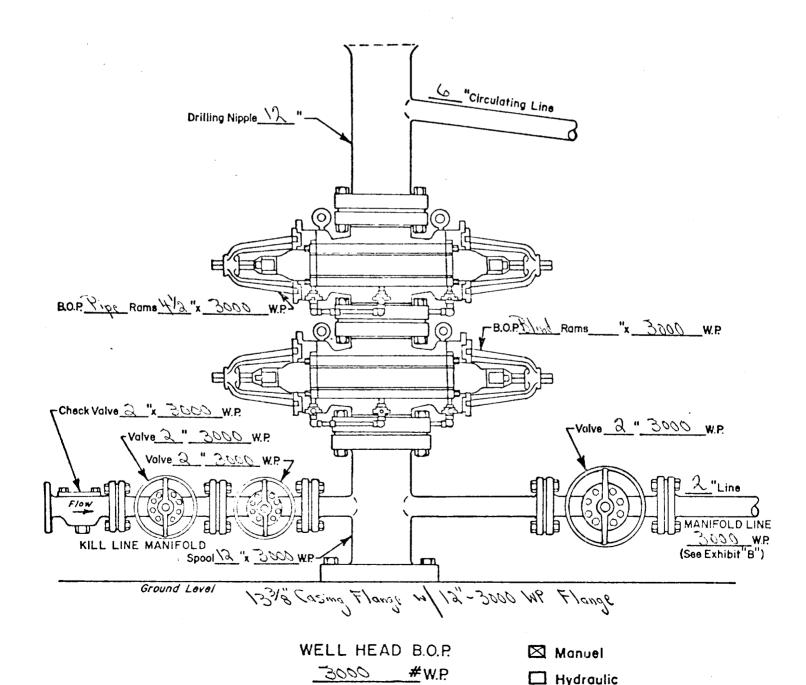
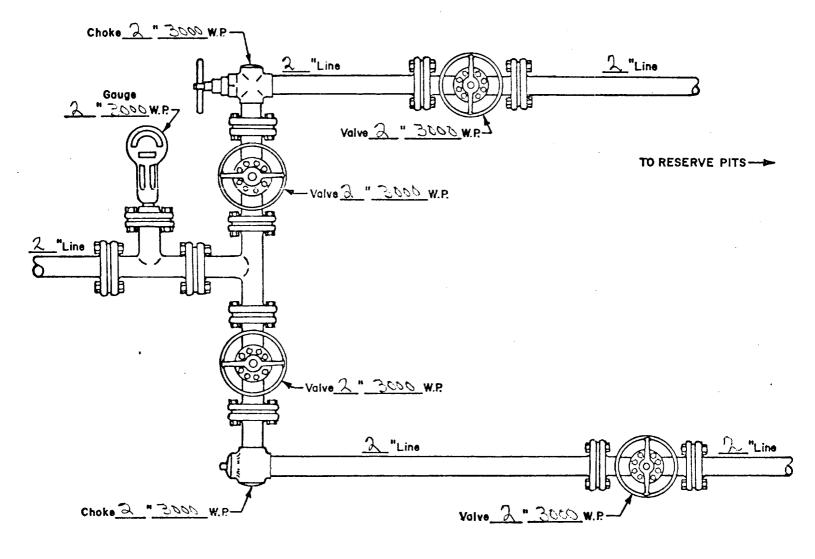


EXHIBIT B-1

WELL NAME: Tracy Federal Moil

LOCATION: 1990 FML & Good FML of Section 11

T-22-5, R-27-E, Eddy County, New Mexico



MANIFOLD 3000 #W.P. **⊠** Manuel

☐ Hydraulic

EXHIBIT A-2

WELL NAME: Tracy Foderal No. 1 11 noites to 147 600 5 LOCATION: 1998 FAL Rotating Head 10 "x 3000 W.P. Line Hydriil 10 1 5000 W.P. BOPPipe Roms Wa "x 5000 Hyd. Valve 1 " 5000 W.P. Check Valve 2 "x 5000 W.P. Valve 2 " Succo W.P. MANIFOLD LINE Spool 10 "x 5000 WP (See Exhibit "B") Ground Level

> WELL HEAD B.O.P. 5000 ₩.P.

☐ Manuel

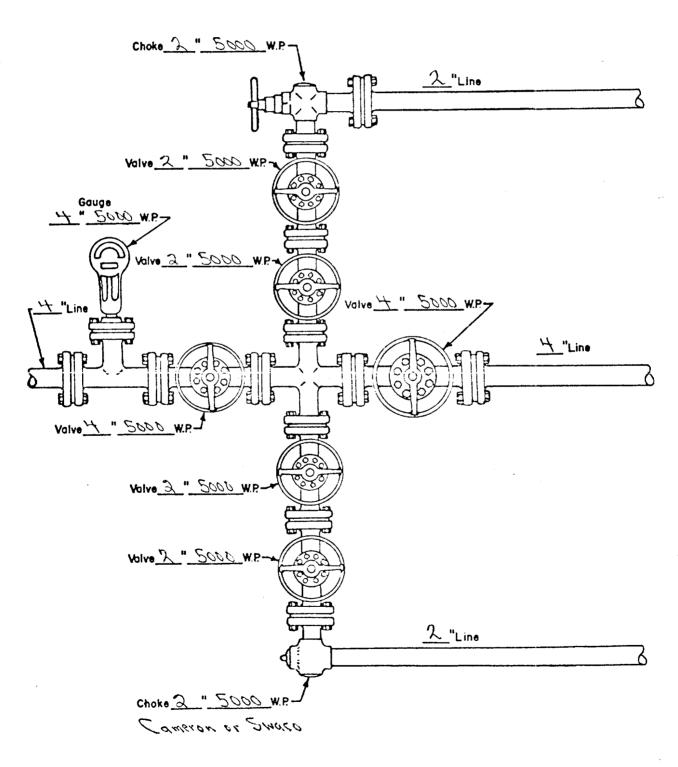
M Hydraulic

EXHIBIT B-2

WELL NAME: Tracy Federal No. 1

LOCATION: 1985 FNIL & GGO FWL of Section 11

T-22-5, R-27-E, Eddy County, New Mexico



MANIFOLD 5000 #W.P. Monuel Monuel

☐ Hydraulic

Union Oil Company of California

TRACY FEDERAL WELL NO. 1

Location: 1980 FML & GGO FWL of Section 11, T-22-5, R-27-E, Eddy County, New Mexico

