SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

30 - 045 - 22446 NAVAJO CONTRACT NO.

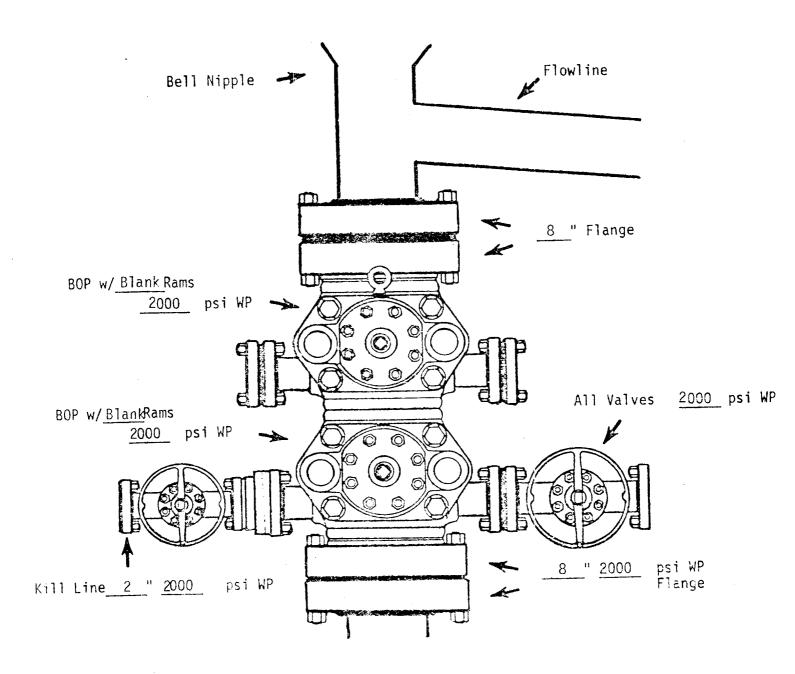
UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

•	GICAL SURVET			14-20-603-5019
APPLICATION FOR PERMIT	O DRILL, DEEP	EN, OR PLUG B	ACK "	M. INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK $oldsymbol{DRILL} [\overline{\mathbf{X}}]$	DEEPEN	PLUG BAC		UNIT AGREEMENT NAME
b. TYPE OF WELL OLD [7] GAS [7]	8	INGLE MULTIPI	LE TS.	FARM OR LEASE NAME
WELL SAS WELL SOTHER NAME OF OPERATOR	2	ONE IXI ZONE	<u></u>	Navajo
Mobil Oil Corporation				WELL NO.
ABURESS OF OPERATOR				5
3 Greenway Plaza-East, Location or well (Report location clearly and	Suite 800, Hou in accordance with any			Tocito Dome North- Pennsylvanian Gas
800' FEL & 1840' FSL,	Sec. 9, T26N, 1	R18W	11	I. SEC., T., Ř., M., OR BLE. AND SURVEY OR AREA
Ai proposed prod. zone				Sec. 9, T26N, R18W
Same as Surface d distance in miles and direction from Nea	DEST TORY OF BAST OFFIC	\p_4	1:	2. COUNTY OR PARISH 15. STATE
4. DISTANCE IN MILES AND DIRECTION FROM NEA	REST TOWN OR FOST OFFIC	. 1.	. 1	San Juan N.M.
5. DISTANCE FROM PROPOSED*	16. N	O. OF ACRES IN LEASE		CEES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LUASE LINE, FT.	300'	1440	TO THIS	160
(Also to nearest drig, unit line, if any) 1. LISTANCE FROM PROPOSED LOCATION*		EOPOSED DEPTH	20, ROTARY	OR (ABLE TOOLS
TO NEAREST WELL, DRIELING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	2764'	6450 t		Rotary
II. ELEVATIONS (Show whether DF, RT, GR, etc.)				22. ATPROX. DATE WORK WILL START*
Ground - 5724'				As soon as possible
3.	PROPOSED CASING AN	D CEMENTING PROGRA	ΔM	
SIZE OF HOOK SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
17 1/2" 13 3/3"	48# H-40	0-100'	1) Circ	ulate to Surface
12 1/4" 8 5/8"	24# K-55	0-1600'	2) Circ	culate to Surface
3 3/4" 7" —	20# K-55	0-4500'	(3) Circ	culate to Surface
1	¹ 23# K-55	4500'-6450'	•	
71 1 25 0-	0.1			
(t) Class H Neat with 2% Ca				
2) Class H with 8% gel & 2°	% CaCl ₂ Tail in	with 100 sx.	Class H P	Neat w/2% CaCl ₂
3) Class H with 7% salt sx	•			FREE
Biowout Preventer & Mud Pro	grams Attached			MAR 3 1978 OIL CON. COM.
NOTE SPACE DESCRIPT, Principles promised in proposal is to drill or despen direction preventer program, if any.	Acades prepasal is to deeper or andy, give pertinent data	plus back, give data on poor subsurface locations a	resent produc nd measured a	tive zone and proposed new producti-
		Regulatory Engineering Coor	dinator	2-27-78
SUND CONTRACTOR	TITLE			DATE
(This source for Federal or State office use)				
PUFIFIC No.		APPROVAL DATE		
				·
APPROVED BY	TITLE			DATE RECEIVED
APPROVED BY	TITLD			MAR 1 1978

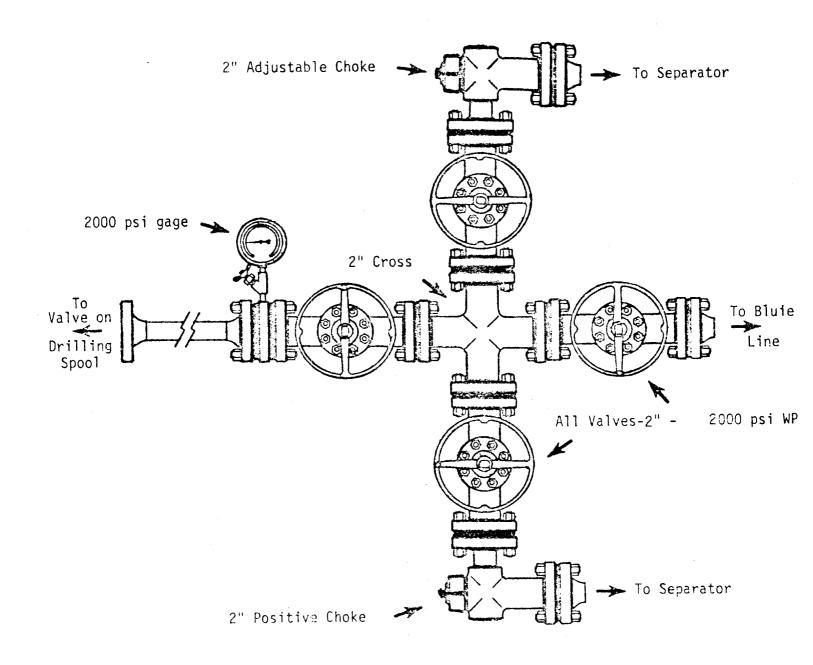
All distances must be from the outer boundaries of the Section

perator	Air dis	Leane			Well No.
OBIL OIL CORF		NAVA			5
init Letter ()	9 ZóN	1	18W	SAN JUAN	
mal Fortige Location 1840	C + h		300	East	
brung Level Elex.	Producing Formition	r	ocito Dome,	North -	Ded. Hed Acreage:
5724	Pennsylvania	n Penn	sylvanian G	as Pool	160 Acres
1. Outline the	acreage dedicated to the	ne subject well by o	colored pencil o	hachure marks on t	Le plat below.
2. If more than interest and		ed to the well, outli	ne each and ide	ntify the ownership t	hereof (both as to working
	one lease of different emunitization, unitization	-		have the interests o	f all owners been consoli-
Yes	No If answer is	"yes," type of consc	olidation		
If	66			11 . 1	. 1 (1)
this form if n		and tract description	s which have ac	tuany been consolid	ated. (Use reverse side of
					munitization, unitization,
-	g, or otherwise) or until	a norstandard unit,	eliminating suc	h interests, has been	approved by the Commis-
sion.					
	1	.=			CERTIFICATION
			1	. I hereby	certify that the information con-
		/ /		; ;	erein is true and complete to the
	1			best of n	iy knowledge and belief.
	i	-			1 D Bond
	· - +	<u> </u>	<u> </u>	Notice Notice	Road
	1			A. D. Position R	egulatory
				Engin	eering Coordinator
	T26N	R18W	 	Company Mobil	Oil Corporation
			1	Date Date	OII GOLPOLACION
	Ĭ		i I	27 70	1-27,1978
		9		C C C C C C C C C C C C C C C C C C C	,
	i .		i	1 1	
	1	-	1	■3 ■1. I hereby	certify that the well location
	1	ACREAGE IS	DEDICATED		ŕ
	4 { }	- Gas is	5	shown or notes of	this plat was plotted from field actual surveys made by me or
	! ! ! 	1	5	shown or notes of under my	n this plat was plotted from field actual surveys made by me or supervision, and that the same
	4 4 1 1	- Gas is committed to	58	shown or notes of under my is true	n this plat was plotted from field actual surveys made by me or supervision, and that the same
· ·		Gas is committed to	58	shown or notes of under my is true	this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my
		Gas is committed to El Paso Natural Gas Poteet's	58	shown or notes of under my is true	this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my
· ·		Gas is committed to El Paso Natural Gas Poteet's Iron Pipe &	58	shown or notes of under my is true knowledge	athis plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my ge and belief.
		Gas is committed to El Paso Natural Gas Poteet's	58	shown or notes of under my is true knowledge February Registered	athis plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my ge and belief. ary 14, 1978
		Gas is committed to El Paso Natural Gas Poteet's Iron Pipe &	58	shown or notes of under my is true knowledge February Registered	athis plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my ge and belief.
	 	Gas is committed to El Paso Natural Gas Poteet's Iron Pipe &	58	shown or notes of under my is true knowledge Surver February and/or 1/2 m	athis plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my ge and belief. Ary 14, 1978 Frotessips it comments



Mobil Oil Corporation Houston E&P Division

LEASE Navajo		
WELL 5		
COUNTY San Juan	STATE	NM



Mobil Oil Corporation Houston E&P Division

LEASE	Navajo	
WELL	#5	

MOBIL OIL CORPORATION'S NAVAJO, WELL #5 TOCITO DOME, NORTH-PENNSYLVANIAN GAS POOL SAN JUAN COUNTY, NEW MEXICO

MUD PROGRAM

Depth, Ft. From	To	Type Mud	Weight Viscosity	<u>pH</u>	Water Loss
0	1600'	Spud Mud	No Control	-	-
1600'	6000'	Fresh wtr. w/gel & L.C.M. as necessary	No Control	-	-
6000'	T.D.	Fresh wtr. low solids gel	8.8-9.2 33-40	9	20 cc

CORING PROGRAM

None

LOGGING PROGRAM

Type or Kind	Depth (From-10)
Induction - Sp	Surface to T.D.
SNP - Density - Gr	Surface to T.D.

FLUID PRODUCTION TEST PROGRAM

Type & Formation Expected Depth

None

MOBIL OIL CORPORATION
SURFACE USE PLAN
NAVAJO WELL #5
1840' FSL & 800' FEL
SECTION 9, T-26-N, R-18-W

SAN JUAN COUNTY, NEW MEXICO

1. EXISTING ROADS (See attached Map "A")

An existing 18' wide graded road will be utilized to reach the location. This road leaves U.S. Highway No. 666 at a point about 21 miles south of Shiprock, New Mexico and about 2.3 miles from the proposed new access road. This road presently provides access to Mobil's Navajo Lease Wells #1, #2, #3 & #4.

2. PLANNED ACCESS ROADS (See attached Map "A")

The proposed access road to the location site will be 12' wide X 300' long with a 12" deep borrow ditch each side. Native material will be graded, watered and compacted for the new roadway surface. The area crossed by the road is presently used for sparse sheep and cattle grazing.

3. LOCATION OF EXISTING WELLS

For Location of existing wells, see attached Map "A".

4. LOCATION OF TANK BATTERIES & PRODUCTION FACILITIES (See Attached Map "A")

Production from the proposed well will be transported to Mobil's Navajo Tank Battery by a 3" steel flow line to be constructed to Well #2 and connected to an existing flow line for transportation to the Tank Battery.

5. WATER SUPPLY

Water for drilling purposes will be trucked from locations off-lease.

6. SOURCE OF CONSTRUCTION MATERIALS

No construction materials will be required for this project.

7. METHODS OF HANDLING WASTE DISPOSAL

All garbage and trash shall be burned when possible, and that portion that cannot be burned will be accumulated and buried with a minimum of 4' cover.

8. ANCILLARY FACILITIES

No ancillary facilities are planned at this time.

Mobil Oil Corporation Surface Use Plan Navajo Well #5

San Juan County, New Mexico

Page 2

9. WELL SITE LAYOUT

See attached Plat "B"

10. PLANS FOR RESTORATION OF SURFACE

After well is completed and pits have sufficiently dried, they will be backfilled and shaped to original grade. All trash will be removed from the site or buried with a 4' minimum cover.

In the event well is abandoned, the location site and roads will be reshaped to original contour and re-seeded with seed mixture and soil additives as recommended by the Navajo Tribe. This restoration will begin within 90 days of date well is abandoned and will be completed within 30 days of that date.

11. OTHER INFORMATION

The location site is located in a semi-desert area of gently rolling hills and ridges capped with sandstone. This site is located in a sandy area on the north slope of a low hill. The area is sandy with very sparse native grasses. The surface is owned by the Navajo Tribe and utilized for sparse grazing of goats, sheep and cattle. There are no occupied dwellings within one mile of the site, and no known archaeological, historical, or cultural sites are in the area.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Glen W. Barb Mobil Oil Corporation P. O. Box 633 MIDLAND, TX 79702 - Telephone 915-684-8211

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that the statements made in this plan are, to the best of my knowledge

Mobil Oil Corporation Surface Use Plan Navajo Well #5

San Juan County, New Mexico

Page 3

true and correct; and that the work associated with the operations proposed herein will be performed by a reliable contractor in conformity with this plan and the terms and conditions under which it is approved.

Glen W. Barb

Producing Operations Manager

CACallaway/tb February 23, 1978

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	7 • ⁴ • ²	a	in Flow Line	STUTNING PRODUCTION MODILE	11 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	12	
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			Marajo Tribal AL Teleco	÷	Triors o'?		
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			Havaja Tribal	Morola Tribe EU Telaca 2	Acresa Trate BP		
	0 10	EGENO ====	٠.		•		
	→ OR ☆ CA	. WELL Y & ABANDONED S WELL — PENN (NORTH) LIT-WATER DISPOSAL WELL			Mobil Oil C	crporation & P Division	Scale Date 7/5/11 Own JVN
25 N	2.4	NELTHALLA DISTURBE WELL	• <00.	10 x 0' 1000' 14	TOCITO BOME PLAT AREA SAN JUAN COU	MAP	Cracked Ciffs Approved Revised

CLEAR & GRADE POP CLEARING

PLAT "B"
Ravajo Lease, Well " 5

STANDARD LOCATION PLAN
5000'-7000' DEEP WELLS
ON STABLE SOIL
MODIL OIL CORPORATION
HIDLARD, TEXAS

MOBIL OIL CORPORATION

LEAS	E: Navajo		WELL: 5
FIEL	D: Tocito Dome, North-Pennsy	lvanian Gas	
COUN	TY: San Juan		STATE: New Mexico
1.	TEN POINT WELL O The geologic name of the sur The estimated tops of import	face formatio	
3.	Formation Name Dakota Morrison Entrada Dechelly Hermosa Pennsylvanian (D) The estimated depth at which bearing formations are expected.		
	Dakota	700	Water
	Pennsylvanian	6300	Oil & Gas
4.	The proposed casing program foot of each string and when	, including th ther new or us	ne size, grade, and weight-per- sed. (Shown on Form 9-331C)
5.	equipment which is to be use	ed, a schemati	Fications for pressure control ic diagram thereof showing sizes, testing procedures and testing
6.	The type and characteristic mediums to be employed for of mud and weighting materi	rotary drillin	ng and the quantities and types 🛒
	The proposed mud program is	attached. A	sufficient quantity of mud
	and chemicals will be maint	tained at the	well site to meet anticipated
	conditions, recognizing the	e time require	d to replenish supplies from
	local sources.		

7.	The auxiliary equipment to be used, such as (1) kelly cocks, (2) floats at the bit, (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 string.
	A Kelly cock and a sub with a full opening valve will be used.
8.	The testing, logging, mud, and coring programs to be followed with provision made for required flexibility. (See attached sheet)
9.	Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards.
	No abnormal pressures, temperatures or hazardous gases are expected to
	be encountered; however, prudent drilling operations will be maintained to
	guard against such hazards.
10.	The anticipated starting date and duration of the operations.
	Starting Date: March 6, 1978 Duration of Operations 25 Days.

5. LEASE

UNITED STATES DEPARTMENT OF THE INTERIOR

DEPART	MENT OF THE INT OLOGICAL SURVEY		I .	14-20-60 IDIAN, ALLOTTEE O		
SUNDRY NOTICE (Do not use this form for propreservoir. Use Form 9-331-C form well well well well 2. NAME OF OPERATOR Mobil Oil Corporations of OPERATOR Mobi	osals to drill or to deepen r such proposals.) other coration TOR Za-E, Suite 800 (REPORT LOCATION C	77046 , Houston, TX LEARLY. See space 17 L Sec. 9	7. UNI 7. UNI 8. FAR Nav 9. WEL 5 10. FIEL TOO 11. SEC ARE Sec 12. COL	TAJO TAGREEMENT NAM M OR LEASE NAME VAJO L NO. D OR WILDCAT NAM L I TO DOME NOTE T., R., M., OR BLE A L 9, T26N, RI INTY OR PARISH 1	ME th-Pennsylvanian K. AND SURVEY OR	Gas
REPORT, OR OTHER REQUEST FOR APPROVAL TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* (other) 17. DESCRIBE PROPOSEL including estimated of measured and true ve	DATA TO: SUBSEQUENCE OF COMPLETED OP Complete of Starting any production of the control of the	UENT REPORT OF:	(NOTE: te ail pertidirectionally	change on Form 9–330 ment details, and gi y drilled, give subsu crk.)*	ple completion or zone 0.) ive pertinent dates, irface locations and	
HOLE SIZE	CASING SIZE	WEIGHT/FT & G	RADE S	ETTING DEPTH	QTY OF CEMENT	
7-7/8"	5-1/2"	14# K	-55	0-6450'	Circulate	
Subsurface Safety Valve: 1 18. I hereby certify that the SIGNED A. D. Bond	ne foregoing is true and		flice use)	те 3-15-78		
APPROVED BY CONDITIONS OF APPROVAL,	IF ANY:	TITLE	<u> </u>	· M	AR 1 5 1978	