Form 9-331 C (May 1953)	U,	ID STATES	,)		MIT IN TR ther instruc reverse sh	1-1 JCATE*	Form approve Budget Burear	d. 1 No. 42 R1425.	
	DEPARTMENT			IOR		ſ	5. LEASE DESIGNATION	-	
		GICAL SURVE					NM 23020	AND SERIAL NO.	
APPLICATIO	N FOR PERMIT	O DRILL, D	DEEPEI	N, OR I	PLUG B	ACK	6. IF INDIAN, ALLOTTER	OR TRIBE NAME	
1a. TYPE OF WORK DR	ILL ^X ČX	DEEPEN [UG BAC		7. UNIT AGREEMENT N	AME	
b. TYPE OF WELL OIL XXX G	AS		BIN	GLE XXX	MULTIPL		8. FARM OR LEASE NAM	1E	
WELL MAN WEL	ELL OTHER		ZON		ZUAL		FEDERAL-33		
DYCO PETROLEU	JM CORPORATION						9. WELL NO.		
3. ADDRESS OF OPERATOR			2						
420 NBT Build	ding, 320 South	3	10. FIELD AND POOL, OR WILDCAT						
	eport location clearly and	in accordance wit	h any Sta	ate requirem	euts.*)		Sawyer		
1930' FSL & 400' FEL Sec. 33-T9S-R38E Lea County, New Mexico							11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA		
At proposed prod. zor	ne								
Same as above							33-9S-38E		
				,	a 1077		12. COUNTY OR PARISH		
	t and 2 miles so	outh of Cro					Lea	New Mexico	
15. DISTANCE FEOM PROP- LOCATION TO NEARES PROPERTY OR LEASE 1 (Also to nearest drl	T LINÊ, FT.	400' FEL	16. NO.	OF ACRES 11 53 04: 012 0	GICAL SU	IRVEY	F ACRES ASSIGNED IS WELL 40		
18. DISTANCE FROM PROI	POSED LOCATION*		19. PRO	POSED DEPT	EW MEX	20. ROTAR	Y OR CABLE TOOLS		
TO NEAREST WELL, I OR APPLIED FOR, ON TH	DRILLING, COMPLETED, HIS LEASE, FT.	None		5100'		R	otary		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)						22. APPROX. DATE WO	BK WILL START*	
3922' GR							Immediately a	after approva	
23.	I	PROPOSED CASIN	G AND	CEMENTIN	G PROGRA	м			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	ER FOOT SETTING DEPTH				QUANTITY OF CEMENT		
12 1/4"	8 5/8"	24#		400)'	300 sks			
7 7/8"	4 1/2"	9.5#		5100)'		s on bottom. [V tool 0 230	
	· · · · · ·						t. to surface		

Dyco proposes to drill said well to test the San Andres Formation for production of oil and gas, See attached drilling programs.

Unless Test Conservation 6-2/-77

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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.

24. Area Engineer ______ February 1, 1977 SIGNED 11 (This space for Federal or State office use)

PERMIT NO	APPROVAL DATE	
		APPROVED AS AMENDED
APPROVED BY	TITLE	
CONDITIONS OF APPROVAL, IF ANY :		MAR 21 1977
		BERNARD MOROZ
	*See Instructions On Reverse Side	ACTING DISTRICT ENGINEER

WELL LUCATION AND ACREAGE DEDICATION PL -

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		All distances m	ust be from the outer bou	nderses of the	e Section	
, thuater			Lease ·			wei. 15
DYCO FETROL				eral <u>33</u>		
fout cetter 3e	an a	Township 9 So	nth 38	East	Lea	
Actual Footing+ Locatio	<u>33</u>	9.50				
		south	neani 400	teet t	me the east	lir.++
1980 1 Ground Level Elev.	Producting For		Foot			Chemistern Antenger
3922.0		Indres	Sawyer			A THE
1 Outline the	acreage dedica	ted to the subj	ect well by colored	pencil or	hachure marks on	the plat below.
2. If more than interest and	one lease is royalty).	dedicated to t	ne well, outline eac	h and ident	ifv the ownership	thereof (both as to working
3. If more than dated by con	imunitization, u	nitization, force	-pooling.etc?		ive the interests (of all owners been consoli-
Yes	No If an	nswer is "yes,"	type of consolidation)n	. <u> </u>	
		1.	. dagoziatara ukio	h have not	ally hear concoli	dated (1 se reverse side of
If answer is this form if n		owners and trac	Laescriptions white		aany peen couson	dated (1 se reverse side of
Neallowable	will be assign	ed to the well u for until a non-s	ntil all interests ha tandard unit, elimin	ve been co ating such	nsolidated (by co interests, has bee	ommunitization, unitization, on approved by the Commis-
sion.						
						CERTIFICATION
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	ł	0	1		l hereb	y certify that the information con-
•	1	Mexic exas	1		E 1	herein is true and complete to the
	ł	e X	1		best of	my knowledge and belief.
	I		ł			
	37.21 - +	V New	 		Ch	wles L. Since
	I.	County es Cou	-		i stt. r	
	ł	Sou	ł		Area	Engineer
		16	1		ΟΥΥΩ	PETROLEUM CORPORATION
	l.	Gair				
	1		ł		Febru	ary 1, 1977
	36.50		1			
	35,9	>- 400° - 0		76	shown notes under is true	by certify that the west location on this plat was plotted from field of actual surveys made by me or my supervision and that the some e and correct to the best of my adge and belief
			2.	^/ ہی		
	t 1	0861	1 F. W.	NEXIC WEST	Date of Oc	
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	35.2	5	1			m, W. West
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C 330 86C 9	0 1320 1680 15	an 2310 2640	2000 1500	100C BC	0	

DYCO PETROLEUM CORPORATION FEDERAL-33 Well No. 2 1980' FSL & 400' FEL Section 33-T9S-R38E Lea County, New Mexico 5100' San Andres Test Attachment to Form 9-331C

1. Surface Formation: Ogallala Sand of the Tertiary Series.

2. Tops of Geological Markers: Depths from GL elevation 3922'.

Anhy	drite				2200'
Yate	es :			-	2 950'
Quee	n			-	3 380'
San	Andres			-	4230'
San	Andres	(Pay	Zone)	-	4910'

- 3. San Andres (Pay Zone) 4910' (-938' Sub-Sea).
- 4. Proposed Casing Program: 400', 8 5/8" 0.D., 24#, K-55, ST&C new casing cemented with 300 sks of cement. 5100', 4 1/2" 0.D., 9.50#, K-55, ST&C new casing cemented with 300 sks on bottom and with 325 sks through DV tool at 2300'-cement from 2300' to surface.
- 5. Specifications for Pressure Control Equipment: 10" Series 900 double ram blowout preventor and 10" Series 900 Hydril annular preventor (hydraulically operated system) with associated control valves and choke manifold will be installed and tested after setting the 8 5/8" casing string.
- 6. The circulating medium from spud to 300' will be fresh water-gel-native solids mud with chemicals added if required to provide hole stability. From 300' to T.D., brackish or brine water will be used as a drilling fluid, with gel and chemicals added to control fluid weight, viscosity, and water loss from approximately 4800' to T.D. Anticipated mud weight will be 9.5 to 10.0 lbs. per gallon, which will provide pressure overbalance for any anticipated formation pressure.

RECEL,

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MAR 221977

OIL CONSERVATION COMM. HOBBS, N. M. FEDERAL-33 Well No. 2 Page 2

- 7. Auxiliary Rig Equipment:
 - 1. The rig will be equiped with upper and lower Kelly safety valves and a drill string safety valve located on the rig floor.
 - 2. The mud system used on this well will not require special monitoring equipment, but rig personnel will routine visually monitor the circulating system for possible fluid losses or flows, or abnormal conditions.
- 8. Testing: A Gamma Ray Neutron Log will be run, no other tests are proposed.
- 9. <u>Abnormal Pressures</u>: No abnormal pressures or temperatures are anticipated in the drilling of this well. Bottom hole pressure should be 1700 psi or less, and bottom hole temperature should be about 105^oF.
- 10. <u>Anticipated Starting Date:</u> The drilling of this well will commence upon receipt of approval and operations should continue for approximately 30 days.

RELL)

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OIL CONSERVATION CUMM. HOBBS, N. M.