Form 9-331 C (May 1963)	N. <u>M</u> .O.	C.D. COPY	SUBMIT IN T		• Form ap Budget B	proved. Jureau No. 42R1425.		
,		ED STATES	(Other instr reverse			5-23431		
	DEPARTMENT	DEPARTMENT OF THE INTERI			5. LEASE DUNIONATION AND BERIAL NO.			
	GEOLOG	GICAL SURVEY				936 (d)		
	on for permit t	O DRILL, DEEP	PEN, OR PLUG	BACK	6. IF INDIAN, ALL	OTTES OF TRIBE NAME		
LA TYPE OF WORK D	RILL 🛛	DEEPEN	DEEPEN DELUG BACK			7. UNIT AGREEMENT NAME		
2. NANE OF OPERATOR	GAS WELL OTHER			VED	8. TARM OR LEAR			
	roduction Company	` **``			9. WML NO.			
3 ADDRESS OF OPERATO			L DUA	1980	. 8			
F. U. Box 6 4. LOCATION OF WELL	67, LOCO Hills, No (Report location clearly and	ew Mexico 882	55 State requirements.*/*	~ ~ ~	10. FIELD AND PO LOCO Hil	ls Queen		
At surface			1, T17SARBAR		11. MBC., T., R., M.	San Andres		
At proposed prod. 1		Eddy Count	y, New Mexico		UL:C			
4 UISTANCE IN MILE	S AND DIRECTION FROM NEAR	EST TOWN OR POST OFFI	CB•		JL = 1 12COUNTY OR P4	75 - 30E		
	miles Southwest				Eddy	New Mexico		
13. DISTANCE FROM PRO LOCATION TO NEAR PROPERTY OR LEAR	EST B LINE, FT.		NO. OF ACRES IN LEASE		F ACRES ASSAUNED HIS WELL	;		
18. DISTANCE FROM PE		<u> 660 </u>	835.32 PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLN	40		
TO SEAREST WELL Or Applied for, on	, DRILLING, COMPLETED, This lease, FT.	1043"	3300'		Rotary	<u>r</u>		
	whether DF, RT, GR, etc.)				22. APPROX. DAT	TH WORK WILL START*		
<u>.3582 (</u>		ROPOSED CASING A	O CEMENTING PROG	RAM	August	1, 1980		
NIZE OF ROLE	BIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QBANTITT OF			
12-1/4"	8-5/8"	24.0#	550') sx circula			
7-7/8	4-1/2"	10.5#	3 300) sx			
						4		
l. Rig up	rotary tools.			:		• : •		
	to app <mark>roximate</mark> ly /8" casing. Inst							
	_			•		-		
3. Drill	to T D (approxima	tely 3300'); s	iet & cement 4½	" casing	g on bottom.			
4. Run ca.	sed hole logs & p	erforate Grayb	ourg & San Andr	es Zonés	3. ¹			
s vetete		•		:				
5. Acidiz	e & Fracture trea	L.		÷				
	3/8" tubing, rods	& bottom hole	pump; install	pumping	g equipment	á place		
well of	n production.				_	,		
					1			
	IBE PROPOSED PROGRAM : If p to drill or deepen directional any.							
24		P.B.	Area Super	vienr	1	uly 14. 1980		
SIGNEL	daval on State and	TICH TITLE	Area Super	11301	DATE DATE			
s chim space for F	ederai or State office use)		$\hat{\mathbf{r}}$	1. 2	19.70	•		
PERMIT NO.			APPROVAL DATE	110 2	1 / 1 0 and	and a second		
APPROVED BY			<u> </u>		DATE			
CONDITIONS OF APPI	ROVAL, IF ANY :					<u>:</u>		

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*See Instructions On Reverse Side



United States Department of the Interior

GEOLOGICAL SURVEY P. O. Drawer U Artesia, New Mexico 88210 AUG I 1980

O. C. D. ARTESIA, OFFICE

July 31, 1980

Anadarko Production Company P. O. Box 67 Loco Hills, New Mexico 88255 ANADARKO PRODUCTION COMPANY Fed "L" No. 8 660 FNL 1980 FWL Sec. 31 T.17S R.30E Eddy County Lease No. LC-028936 (d)

Gentlemen:

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 3,300 feet to test the Grayburg-San Andres formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- 1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
- 3. All access roads will be limited to a 12 foot wide driving surface, excluding turnarounds. Surface disturbance associated with road construction will be limited to 20 feet in width.
- 4. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
- 5. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
- 6. Notify the Survey by telephone 24 hours prior to spudding well.
- 7. Cement behind the 8-5/8" casing must be circulated.
- Special Stipulations: Utilize caliche pit in SW¹₄SW¹₄ Sec. 30, T. 17S., R. 30E.

9. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

Orig. 3gd.) BEORGE H. STEWART

George H. Stewart Acting District Engineer

DATA SHEET

This Data Sheet is provided in reference to the attached "Application for Permit to Drill" Anadarko's Federal L - Well No. 8

1. Location: 660' FNL & 1980' FWL Sec. 31, T17S, R30E, Eddy County, New Mexico.

2. Elevation: 3582' GR

3. <u>Geological Name of Surface Formation:</u> Triassic - Doakum (Santa Rosa).

4. Type of Drilling Tools to be Utilized: Rotary Tools.

5. Proposed Drilling Depth: 3300'.

 Tops of Important Geological Markers: Top of Salt - - 555' Loco Hills - 2720' Bottom of Salt- 1033' Metex - - 2800' Yates - - - 1180' Premier - 2995' 7-Rivers - - 1665' San Andres - 3050' Queen - - - 2212' Lovington - 3200' Grayburg - - 2600'

7. Estimated Depth of Anticipated Water, Oil or Gas:

011: 2800' - 3000'

8. Casing Program:

8-5/8" - 24.0#, K-55 - New 4-1/2" - 10.5#, K-55 - New

9. Setting Depth of Casing:

8-5/8" - 550' - Cemented with 400 sx Class H w/2% CaCL - circulated. 4-1/2" - 3300' - Cemented with 450 sx Class C 50/50 Posmix w/6# Salt/sx & 2% gel.

10. Specifications for Pressure Control Equipment:

This rig is equipped with a Series 900 BOP with 4" Blind Rams, kill line and choke manifold. When nippling up, test BOP and Choke Manifold to 500 psi. Operate BOP equipment once a day, or as directed by Company Representative.

11. Mud Program:

Drill with Fresh Water Native Mud to within 300' of T D. Gel will be added at this point to increase viscosity and clean hole prior to running casing.

12. Testing, Logging & Coring Program:

- a. Testing: No drill stem tests will be made.
- b. Coring: No coring is planned.
- c. Logging: If Open Hole Logs are not run before the 4½" casing is set & cemented, cased hole logs -(probably Gamma Ray/Comp. Neutron Log) will be run.

13. Potential Hazards:

None are expected. Above described BOP should take care of any blowout problems. Numerous wells have been drilled in this area without problems.

14. Anticipated Starting Date & Duration:

Plan to begin drilling operations August 1st to 15th. Approximately 6 days required to drill the well and 2 weeks for completion.

15. Other Facets:

None.





Schaeffer Type E 10" Series 900 Hydraulic BOP. The waste and debris from this well will be disposed of in a reserve pit and covered up.

Exibit # 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Form (7-1)/ Supersedex 6-128 a thorise 1-1065

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No allowa	f necessary.) ble will be assign ling, or otherwise	ed to the well until al)or until a non-standa	l interesta rd unit, el	s have been o iminating suc	onsolidat h interest	ed (by comi 5, has been	munifization, unifization, approved by the Commis-
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