(May 1963)	N.M.O.C.D. COP	Y,	SUBMIT IN TI			ed. au No. 42-R1425.
		ED STATES	(Other instru reverse s		-	
	DEPARTMEN	OF THE IN	TERIOR	ĺ	30-015	AND BERIAL NO.
	GEOLO	GICAL SURVE	Y		NM - 1	4843
	TION FOR PERMIT	foedkall, d	EEPEN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTI	LE OR TRIBE NAME
a. TTPE OF WORK			] PLUG BA	αΠ	7 DNIT AGREEMENT Ballard Gra	NAMB
b. TYPE OF WELL		3 P 1980			San Andres	Unit
wELL 8	WELL OTHER		BINGLE MULTII ZONN DONN	br ] 1	B TARM. OR LALAR HA	-SA but
NAME OF OPERAT	•			1	Tract	No. 20
Anadarko	Production Company	MA, OFFICE			.9. WHEL NO.	
	x 67, Loco Hills, N	low Mexico	88255		10. FFBLD AND POOL,	OR WELDCAT
LOCATION OF WE	LL (Report location clearly and				- Loco Hills Queen	
At surface	1980' FNL & (	60' FWL Sec	. 17, T18S, R29E		X Grayburg Sa N. MRC., T. R., M., OR	n Andres
At proposed pro	d. sone Same	Eddy Co	unty, New Mexico	11	17 ~ 1	8 _ 29
	ILES AND DIRECTION FROM NEA				12. COUNTY OR PARISI	
APPTOX IMA	ately 7 miles South		O HILLS TOWNSILE 16. NO. OF ACRES IN LEASE	1 17 10 0	Eddy	New Mexico
LOCATION TO NI PROPERTY OF LI	FAREST	660'	120		TACKER ASSESSED	
TO NEVREST WI	I PROPOSED LOCATION <sup>®</sup> ELL, Drilling, Completed, on this lease, FT.	660'	19. PROPOSED DEPTH 2800	20. ROTAI	Rotary	
ELEVATIONS (She	ow whether DF, RT, GR, etc.)				22. APPROX. DATH W	ORK WELL START*
35	517 GR				August	, 1980
	Ĩ	ROPOSED CASING	3 AND CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	OT BETTING DEPTH		QUANTITY OF CEMI	INT
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7-7/8'	4-1/2"	10.5#	2800*	25	io sx	
					:	
1. Rig	up rotary tools.	·	·			
	•					
2. Dril	1 to approximately	350 ' + set &	circulate or read	v-mix c	ement to surf	
	l to approximately -5/8" casing. Ins					
on 8		tall & test	Se <b>ries 9</b> 00 Double	Ram Hyd	raulic Blowou	
on 8 3. Dril	-5/8" casing. Ins	tall & test	Se <b>ries 9</b> 00 Double	Ram Hyd	raulic Blowou	
• on 8• 3. Dril 4. Run •	-5/8" casing. Ins 1 to T D, approxima	tall & test ately 2800';	Series 900 Double set & cement 4½"	Ram Hyd	raulic Blowou	
on 8 3. Dril 4. Run 5. Perf 6. Run	-5/8" casing. Ins 1 to T D, approxim cased hole logs.	tall & test ately 2800'; fracture tr	Series 900 Double set & cement 4½" eat.	Ram Hyd casing	n <b>aul</b> ic Blowou	t Preventor.
on 8 3. Dril 4. Run 5. Perf 6. Run well s above space pr oue if proposal reventer program.	-5/8" casing. Ins 1 to T D, approximation cased hole logs. orate, acidize and 2-3/8" tubing, rod on production. scring proposed program : If 18 to drill or deepen direction	tall & test ately 2800'; fracture tr s & bottom-h proposal is to deepe	Series 900 Double set & cement 4½" eat. ole pump; install	Ram Hyd casing pumping	iraulic Blowou on T D, g equipment & uctive mone and propos	place
on 8 3. Dril 4. Run 5. Perf 6. Run well sabove space de ue If proposal eventer program.	-5/8" casing. Ins 1 to T D, approximation cased hole logs. orate, acidize and 2-3/8" tubing, rod on production. scring proposed program : If 18 to drill or deepen direction	tall & test ately 2800'; fracture tr s & bottom-h proposal is to deepe	Series 900 Double set & cement 4½" eat. ole pump; install	Ram Hyd casing pumping present prod	iraulic Blowou on T D, g equipment & uctive mone and propos	place
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on 8 3. Dril 4. Run 5. Perfo 6. Run well s above space de one if proposal reconter program 4 sto sed	-5/8" casing. Ins 1 to T D, approximations cased hole logs. orate, acidize and 2-3/8" tubing, rod on production. SSCRIBE PROPOSED PROGRAM: If 18 to drill or deepen direction if any.	tall & test ately 2800'; fracture tr s & bottom-h proposal is to deepe	Series 900 Double set & coment 4½" eat. ole pump; install	Ram Hyd casing pumping present prod	iraulic Blowou on T D, g equipment & uctive mone and propos	place

\*See Instructions On Reverse Side

## N MEXICO OF CONSERVATION COMMISS A WELL LOCATION AND ACREAGE DEDICATION PLAT

Europeiseder C-128 Superseder C-128 Etective 11-55

		All dista	nces must be f	romathe o	uter boundaries of	the Section			
1 - tate :				Leise			**		
ATAD	ARFO PRODUC	TION COMPA	'TY	Bal	lard GSA Un	it Tract 20		12	
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3517	Graybi	urg		Gra	<u>ybury - San</u>	Andres		.)	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below

- 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof it oth is to working interest and royalty).
- 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consult dated by communitization, unitization force-pooling, etc?
  - . 'Yes 'No If answer is ''ves,'' type of consolidation

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

i		CERTIFICATION
- 660' -0	JUL 21 TO U.S. GEULGO. ASTESIA, MEN	Thereby certity that the information con- tained herein is true and complete to the method my knowledge and belief
!		July 17, 1980 I hereby cerrify that the well location shown on this plat was plutted from the
; ; ; ;	OF NEW MA	notes of actual surveys made by me o under my supervision and that the som is true and correct to the best of m knowledge and beliaf
	HERSCHEL L'JONES B640	Forte Courveyer July 16, 1980 Fealstore: Fridessi nul Eugoneer mix or Fund Couvey r

N.M.O.C.D. COPY



## United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U Artesia, New Mexico 88210

July 30, 1980

Anadarko Production Company P. O. Box 67 Loco Hills, New Mexico 88255

Gentlemen:

ANADARKO PRODUCTION COMPANY Ballard Grayburg San Andres Unit No. 12 1980 FNL 660 FWL Sec. 17 T.18S R.29E Eddy County Lease No. NM-14843

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 2,800 feet to test the Grayburg 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.
- 8. 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. Sgd.) GEORGE H. STEWART

George H. Stewart Acting District Engineer P. O. Box 67 . Loco Hills, New Mexico 88255 . (505) 677-2411

Penhandle Eastern Company

July 16, 1980

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

Anadarko

PRODUCTION COMPANY

RECEIVED JUL 21 1980

Gentlemen:

U.S. GEULUGICHL SUNVEY ARTESIA, NEW MEY Following is the "Surface Use and Operation Plan" for MENCOrilling of Anadarko Production Company's Ballard Grayburg San Andres Unit Tract No. 20. Well No.12 located 1980' FNL & 660' FWL Sec. 17, T18S, R29E, Eddy County, New Mexico.

Existing Roads - A small scale map is attached (Exhibit #1). It shows the location of this well in relation to Loco Hills, N. M. Townsite.

A larger scale map (Exhibit #2) shows State Highway #360 and County Road #139 in blue. The existing caliche lease roads are shown in orange. The nearest caliche road is now located approximately 900'NEast of this drill site.

Planned Access Roads - A 12' wide caliche road is to be built between 2. this drill site and an existing caliche road whis is approximately 900' Northeast. This new road is shown as a dashed green line on Exhibit #2.

There will be no fence to cut or cattleguard to set.

Location of Existing Wells - All existing wells on lease are indicated on enclosed map. There are no exploratory wells being drilled within a two mile radius.

4. Location of Tank Batteries, Production Facilities and Lines - There is a central tank battery located on the Ballard Unit in the SW/4 of NW/4 of Section 8, T18S, R29E. All production on the Ballard Unit is piped to this central tank battery. Existing lease lines to central tank battery are shown in black; proposed line to location is dashed blue on Exhibit #2.

Location & Type of Water Supply - Fresh water to be used at drilling 5. site will be supplied by I & W Trucking or Jim's Water Service and will be hauled from our Ballard Unit Water Plant and from Double Eagle Water Company taps in the Loco Hills area.

6. Source of Construction Material - Primary source of caliche will be the reserve pit area of the new drilling location. Alternate source will be an existing caliche pit located in the SW/4 of SW/4 of Section 8, T18S, R29E.

7. <u>Methods for Handling Waste Disposal</u> - Enclosed drill site plat (Ex-hibit #3) indicates location of drilling pits, **reserve** pit and rubbish pit. After sufficient time has elapsed to allow drilling fluids to dry, all pits will be closed and leveled. The rubbish pit adjacent to drilling site will be deep enough to contain all rubbish when covered and leveled.

Fage 2 - "Surface Use and Operation Plan" - Ballard Unit Tract No. 20, Well No. 12

8. Ancillary Facilities - There are no camps or airstrips planned.

9. <u>Well Site Layout</u> - Well site (Exhibit #4) has been staked and is indicated by red area on enclosed maps (Exhibits #1 & #2). Urilling site is a sandy area covered by sparse native vegetation. Drilling µad will be 6" of calict.e measuring 130' East, 120' West, 30' North and 110' South. Urilling pad will blend with terrain since the topography is relatively flat.



Cross Section - Before & After - is shown below:

10. Plans for Restoration of Surface - Commercial Well

Reshaped Topography - Rubbish will be buried upon completion of drilling operations. All future rubbish will be removed by the individual generating same.

Caliche Pad - Caliche drilling pad will remain intact until well is shendened. Road - Road will remain intact as long as there are producing wells in this area.

Timetable - The well should produce for several years.

Plans for Restoration of Surface - Plugged and Abandoned Well

Surface will be restored in accordance with all regulations in effect at the time of abandonment.

11. Other Information - Topography is generally flat, surrounded by small sand dunes.

<u>Soil Characteristics</u> - Unconsolidated sand. <u>Flora</u> - Sparse grass and weeds. <u>Fauma</u> - Rabbits, rats, mice, birds and anakes. <u>Other Surface Use Activities</u> - Leased grasing land. <u>Surface Ownership</u> - Federal land. <u>Water Wells</u> - None. <u>Lakes, Streams and Ponds</u> - There is a rancher's water tank located approximately 1t miles Southeast of this location. <u>Dwellings</u> - None. <u>Other Facilities</u> - None. <u>Archaeological Sites</u> - None. <u>Historical Sites</u> - None.

Cultural Sites - None.

Page 3 - "Surface Use and Op tion Plan" - Ballard Unit Tract No. 20, Well No. 12

12. Operator's Representative - Charles E. Copeland, Field Foreman for Anadarko

- Office Phone - 677-2411 Home Phone - 396-4541

13. <u>Certification</u> - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drilling site 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 Sweatt Construction Company or Jabo Rowland Construction Company and their contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

chlis. Area Supervisor July 17, 1980 Date Title

• • •

DATA SHEET This data sheet is provided in reference to the attached "Application for Fermit to Drill" Anadarko's Ballard Grayburg SAU Tract No. 20, Well No. 12 1. Location: 1980' FNL & 660' FWL Sec. 17, T18S, R29E, Eddy County, New Mexico 2. Elevation: 3517' GR 3. Geological Name of Surface Formation: Triassic - Doakum (Santa Rosa) Type of Drilling Tools to be Utilized: Rotary Tools 4. 5. Froposed Drilling Depth: 2800' 6. Tops of Important Geological Markers: T. Salt - 350' 7-Rivers - 1275' B. Salt - 780' Queen - - - 1890' Grayburg - - 2250' Tansill - 835' Yates - - 920' San Andres - 2685' 7. Estimated Depth of Anticipated Water, Oil or Gas: 011 - 2400' - 2685' 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" - 350'-150 sx Class H w/27 CaCL 4-1/2" - 2800'-250 sx Class C 50/50 Posmix w/6# Salt/sx & 2% gel 10. Specifications for Pressure Control Equipment: This Warton Rig is equipped with a Series 900 BOP with 4" Blind Rams, kill line and choke manifold. Koomey Hydraulic Controls and Accumulator with remote controls. When nippling up, test BOP and Choke 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: Testing: No drill stem tests will be conducted. a. Coring: No coring is planned. b. с. Logging: Run Gamma Ray/Compensated Neutron Log after 42" casing is set. 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 during August, 1980. Approximately 6 days required to drill the well and 2 weeks for completion.

15. Other Facets:

None

	Tr. 4. Construction of the second sec
	A MARCEL CONTRACTOR CO
LEAN NECESTRATION OF THE REPORT	





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