SIZE OF HOLE 12-1/4"

7-7/81

SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other Instructions on

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

,	36-039-27-577
	5. LEASE DESIGNATION AND SERIAL NO.
	Jicarilla Contract 155
BACK	6. IF INDIAN, ALLOTTEE OR TRIDE NAME
י סארע	licarilla Anache
BACK 🗌	Jicarilla Apache 7. UNIT AGREEMENT NAME
LI AJAG	
LTIPLE X	S. FARM OR LEASE NAME
NR L	•
٠.	Jicarilla Contract 155
	10 PINE AND POOR OF WARRING A
	10. FIELD AND FOOL OR WILDCAT CONTROL OF GONZAI es Mesaverde Control OTero Chacra
Andrew State	
	11. SEC., T., R., M., OE BLK. AND SURVEY OR ABEA
	NW/4, NW/4, Section 31,
	T26N, R5W
	12. COUNTY OR PARISH 13. STATE
	Rio Arriba New Mexico
17. No. 6	OF ACRES ASSIGNED HIS WELL
	40-159.40160 1-160
	RY OR CABLE TOOLS
	Rotary
	22. APPROX. DATE WORK WILL START*
	As soon as permitted
)(TP)) (
OGRAM .	
	QUANTITY OF CEMENT
300s	K Class "B" w/2% CaCl2-circ
Stage	1: 360 sx Class "B" Neat-circ
	2: 550 sx CI B 65:35 POZ, 6%
gel,2	med tuf plug/sx and .8% FLA.
Tail	in w/100 sx CI B Neat-circ.
Set Di	/ tool at 3900°.
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APPLICATION FOR PERMIT	TO DRILL, D	DEEPEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTER OR TRIDE NAME
la. TYPK OF WORK				Jicarilla Apache 7. UNIT AGREEMENT NAME
DRILL 🗵	DEEPEN [PLUG BAC	CK 📋	1. USIL AUREDIESE SAME
b. Type of wall	•	ervern E. J. Weiterb	(p. (
OH. CAS WELL X OTHER		SINGLE MULTIP	r. X	S. FARM OR LEASE NAME
C. NAME OF OPERATOR				Jicarilla Contract 155
AMOCO PRODUCTION COMP	ANY		· .	9. WELL NO.
3. Address of Operator				28
501 Airport Drive, Fa				10. FIELD AND FOOL OR WILDCAT LENS
4. LOCATION OF WELL (Report location clearly a At surface	nd in accordance wit	h any State requirements:*)	*	Ofero Chacra
	Soction 31	TOCH DEW	•	11. SEC., T., R., M., OE BLK. AND SURVEY OR AREA
1080' FNL and 920' FW	L, SECTION SI	, 120N, ROW		NW/4, NW/4, Section 31,
Same		$\mathcal{J}_{\mathcal{V}}$		T26N, R5W
14. DISTANCE IN MILES AND DIRECTION FROM N	EAREST TOWN OR POST	r Office*		12. COUNTY OR PARISH 13. STATE
16-1/2 miles North of	Counselor, N	New Mexico		Rio Arriba New Mexico
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST		16. NO. OF ACRES IN LEASE		OF ACRES ASSIGNED
PROPERTY OR LEASE LINE, ET. (Also to nearest drig, unit line, if any)	920 ¹	2477.56	159.	40-154.40160 1-160
18. DISTANCE PROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,		19. PHOPOSED DEPTH	29. потл	RY OR CABLE TOOLS
OR APPLIED FOR, ON THIS LEASE, FT.	1301	53151		Rotary 100
21. ELEVATIONS (Show whether DF, RT, GR, etc.)			:	22. APPROX. DATE WORK WILL START*
6594' GL	·			As soon as permitted
29.	PROPOSED CASE	NG AND CEMENTING PROGR.	VM .	

SETTING DEPTH

300'

<u>5315'</u>

Amoco proposes to drill the above dual well to further develop the Otero Chacra/Gonzales Mesaverde serves. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be based on open hole logs. A copy of all logs will be filed upon completion. Additional information required by NTL-6 for the application to dril and a multi-point surface use plan are attached.

WEIGHT PER FOOT

15.5# K-55

K-55

24#

SIZE OF CASING

8-5/8" (New)

5-1/2" (New)

The gas from this well is not dedicated to a gas sales contract.

DIST. 3

١.	1 1			
SIGNED	W. J. Fetyson Jon	TITLE	District Engineer	DATE October 3, 1980
(This space	OF THE PERMITTER			
	AS AMENDED		APPROVAL DATE	
APPROVED BY	↑ 00T 1 & 1000	TITLE		DATE

OIL CONSERVATION DIVISION P. O. BOX 2088

STATE OF NEW MEXICO
JERGY AID MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

All distances must be from the cuter houndaries of the Section.

Operator		· · · · · · · · · · · · · · · · · · ·	Lease			Well No.
AMOCO PRODUCTION COMPANY			JICARILLA	CONTRACT 15	SS	28
Unit Letter	Section	Township	Range	County		1
D	31	26N	5W	Rio	Arriba	
Actual Footage Loc	ation of Well:					
1080	feet from the No	rth line and	920	feet from the	West	line
Ground Level Elev:	Producing For		Pool	Est	1	ated Acreage:
6594	Chacra/	Mesaverde	Otero Chacra	Gonzales Mes	saverde 1/5-9	-40-160 Acres
		ted to the subject w				
	nan one lease is nd royalty).	dedicated to the we	ll, outline each a	ind identify the c	ownership thereo	of (both as to working
		ifferent ownership is mitization, force-pool		well, have the i	interests of all	owners been consoli-
Yes	No If a	nswer is "yes," type	of consolidation			
If answer	is "no," list the	owners and tract des	criptions which b	ave actually bed	en consolidated	. (Use reverse side of
	f necessary.)		·			
No allowal	ble will be assign	ed to the well until a	ll interests have	been consolidat	ed (by commun	itization, unitization,
						roved by the Commis-
sion.	0,					
·					1	
			1		CE	RTIFICATION
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080			1		1	y that the information con-
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•	l l				best of my kno	wledge and belief.
920'	1		1		PAI	louney_
920	I		i		Name	200 ray
					R.A. DOWN	EY
	•		i		Position	
	i		1		DISTRICT	ENGINEER
	1	i	i	1	Company	
	ı			·		DUCTION COMPANY
	1	ł		į	Date	20012011 001211111
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the control of the second control of the sec	The second secon			- An		18.
	•	31	! !	/ 13	a la facilità de la constante	that the well location
			·	/	1	part was plotted from field
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	.		·		Date Surveyed	
	} {	,	1		July 29.	7980
	i 1		1			essional Engineer
	1	1	!		and Land Sur	
	1		1	1	1-2-011	State Lin
	l		1	[·	Fred B.	Kerr Jr
					Certificate No.	->/ #
~	Sca	le: 1"=1000'	•		3950	

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 155 NO. 28 1080' FNL & 920' FWL, SECTION 31, T26N, R5W RIO ARRIBA COUNTY, NEW MEXICO

The	geologic	name	of	the	surface	formation	is	the	Tertiary San Jose	•
-----	----------	------	----	-----	---------	-----------	----	-----	-------------------	---

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

FORMATION	DEPTH	ELEVATION
Ojo Alamo	2360 '	4247 🔭
Kirtland	2494 '	4113
Fruitland	2666 '	3941 •
Pictured Cliffs	2866 '	3741 '
Chacra (if present)	3764 '	2843
Mesaverde Cliff Hous		2044 ! 1625 !
Gallup	. The state of the	•
Dakota	t	1
TD	5315	1292

					_
Estimated	KB	elevation:	*.	6607	I

Drilling fluid to TD will be a fresh water, low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing:

DIL-SP-GR: Surf TD FDC-CNL-GR: Surf TD GR: 0-2000'

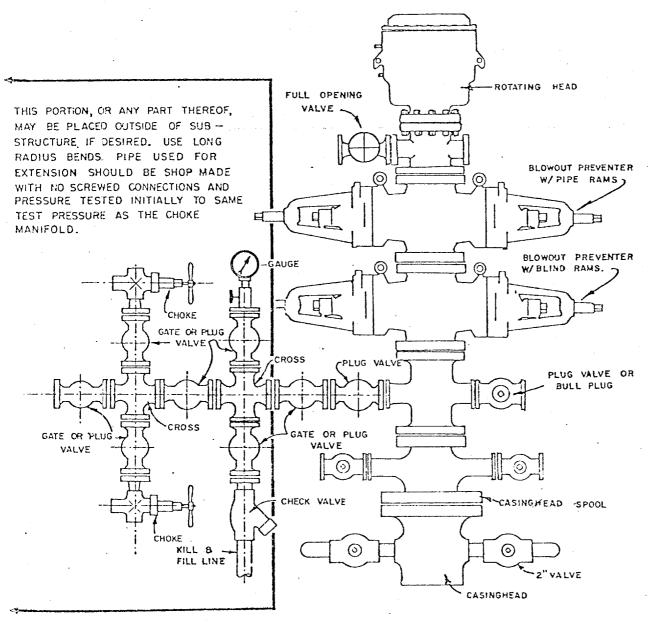
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately $\underline{\ \ \ \ \ \ \ \ }$ weeks.

Ameco's standard blowout prevention will be employed (see attached drawing).

In the past, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

- 1. Blowout Preventers and Master Valve to be fluid operated, and all fittings must be in good condition.
- 2. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
- 3. Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
- 4. All fittings to be flanged.
- 5. Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT 0-4.

OCTOBER 16,1969

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

MULTI-POINT SURFACE USE PLAN

JICARILLA CONTRACT 155 NO. 28 1080' FNL & 920' FWL, SECTION 31, T26N, R5W RIO ARRIBA COUNTY, NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will not be necessary to build any access road.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
- 4. There is a 380-barrel tank and facilities located at Jicarilla Contract 155 Well No. 22, approximately three-fourths mile southeast.
- 5. Water will be hauled from Tapacito Wash.
- 6. No construction materials will be hauled in for this location.
- 7. A 125' by 125' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled. If any liquids remain, they will be hauled away prior to back filling.
- 8. There are neither airstrips nor camps in the vicinity.
- 9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 4-foot cut will be made on north corner.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out as instructed by the Bureau of Indian Affairs.
- II. The general topography is a mesa top rim over Tapacito Creek with southwesterly drainage, alluvial surface deposits, and sandstone outcrops, with a sandy clay loam soil; vegetation consists of pinon and juniper, sagebrush and native grasses.

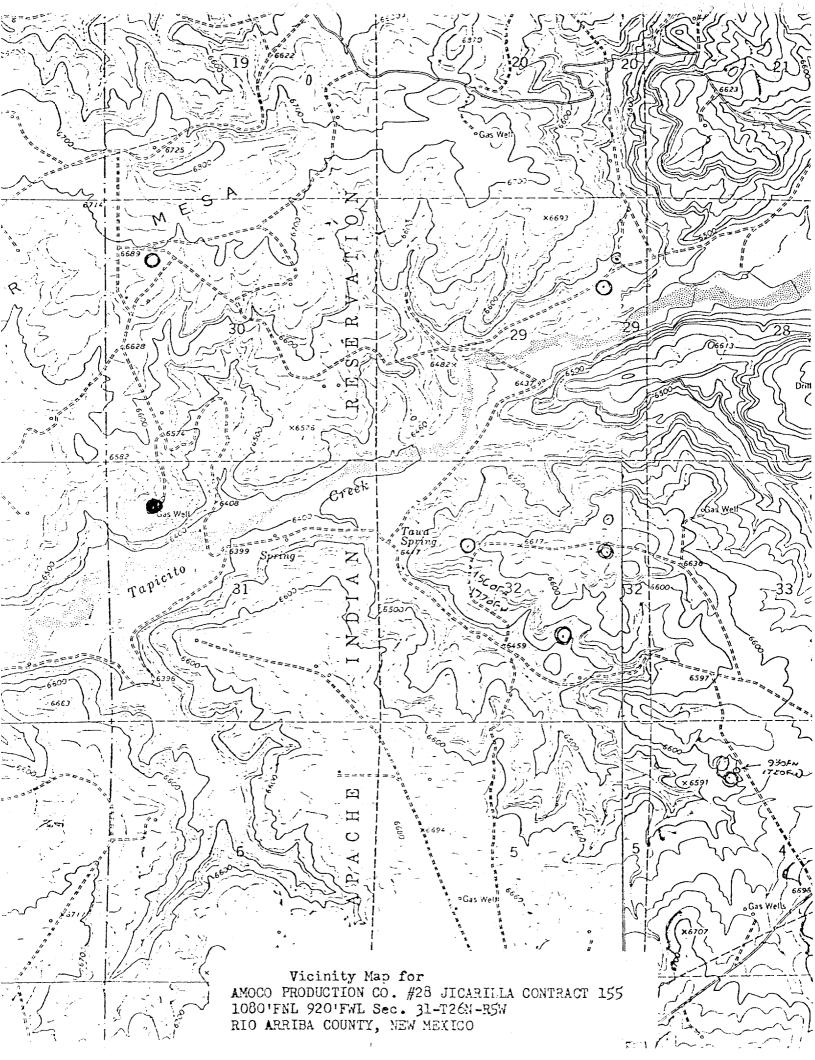
Representatives of the U. S. Geological Survey's Farmington Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

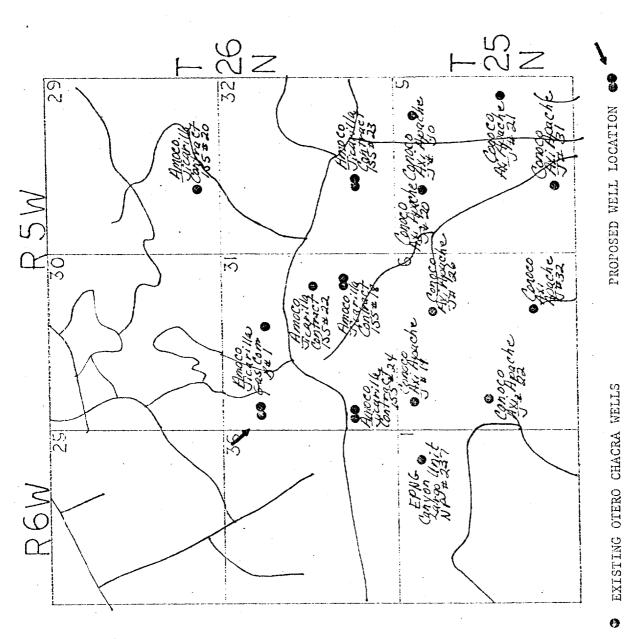
12. Operator's Representative: R. W. Schroeder

Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

<u>Certification</u>: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 <u>AMOCO PRODUCTION COMPANY</u> and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date	October I, 1980	K.W. Schroedur O
		R. W. Schroeder, District Superintendent

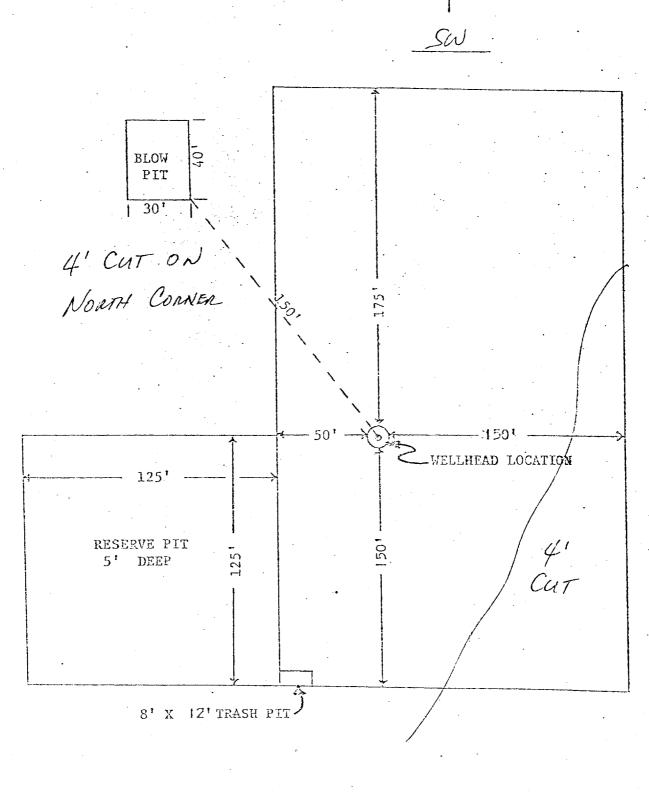




TIGHT CLUMENTA DESCRIPTION OF THE CHARLES

EXISTING GONZALES MESAVERDE WELLS

- ROADS



APPROXIMATELY 1.2 ACRES

Amoco Production Company	scale: [1"=50"
DRILLING LOCATION SPECIFICATIONS JICARILLA CONTRACT 155 #28	DRG. NO.