S TYPE OF WORK

b. TYPEOF WELL

MANE OF OPSEATOR

AUDRESS OF OPERATOR

SIZE OF-HOLD

12-1/4"

15. DISPANCE FROM PROPERSO*

LOCATION TO NEAREST
PROPERTY OF LEASE LINE, ST.

(Also to nearest drig, unit line, if any)

IL ELEVATIONS (Show whether DF, RT, GR, etc.)

18, DESTANCE FROM PROPOSED LOCATION*

went [

SIZE OF CASING

8-5/8" (New)

5-1/2" (New)

(Other instructions

SETTING DERTH

3001

5322

PROPOSED CASING AND CEMENTING PROGRAM

WEIGHT PER FOOT

15.5# K-55

K-55

24#

Form approved. Budget Bureau No. 42-R1425

UNITED STATES							
DEPARTMENT	OF	THE	INTERIOR				

	NITED STATES ENT OF THE I	5	(Other instructions referse side)	_	30-034-	2256	0
				1	5. LEASE DESIGNATA	ON AND SERIA	r vo.
GEC	LOGICAL SURV	t Y		راا	licarilla Co	ntract	46
APPLICATION FOR PERM	IT TO DRILL, I	DEEPEN, OR	PLUG BAC	K	6. IF INDIAN, AULOU		NAME
TYPE OF WOLK					Jicarilla		_
DRILL 🖟	DEEPEN (PLUG BACK [7. UNIT AGREEMENT	PAME	
TIPE OF WELL		SINGLE (T)	MCLTIPLE ;	, -	· · · · · · · · · · · · · · · · · · ·	- 	
OTHE WELL STORE	Tt	2088	Zona L	<u> 최</u> :	S. FARM OR LEASE :	SAME	
CAME OF OFSERFOR				J	licarilla Co	ntract	146
AMOGO PRODUCTION CON	JPANY -				9. WELL NO.	· · · · · · · · · · · · · · · · · · ·	
ADDRESS OF OPERATOR					34		٠ , .
501 Airport Drive, F	Farmington, Ne	w Mexico S	7401	-	10. FISLE AND POUL	OR WEDGA	inzaloc.
tocarron or west. (Report location clearly		th any State requir	777912 1	1	. Otero C	hacra/ _M	zs <u>ave</u> rde _e
\$ 830' FNL & 1780' FEL	Section 3 T25	N R5WI RE	ECFIVE	7	AND SURVEY OR	AN ENTREME	
At proposed prod. zone		1		- 1			R5W
Same		N	<u> 100 juga</u>	. 1	WW/4 NE/4 :	SECTION	3, 125N,
DISTANCE IN MILES AND DIRECTION FROM	NEAREST TOWN 03 POS			- 1	COUNTY OR PARI	SH 13. STAT	8
17 Miles NNE of Gobern	ador, New Mex	ico U.S.	SEDFOCIONE SAL		Rio Arriba	New Me	exico
DISTANCE FROM PROPOSED* LUCATION TO NEAREST		16. NO. OF ACRES	Ter BENESS, 1 17.	No. 02	ACRES ASSIGNED.		
PROPERTY OF LEASE LINE, Fr. (Also to nearest drig, unit line, if any)	830 '	2557.20			-160	159.2	5
DISTANCE PROPERTIES TO NAME AND A VELL, DESILING, COMPLETED,		19. PROPOSED DEA	TH 20.	BOTARY	OR CABLE TOOLS		
OR APPLIED FOR ON THIS LEASE, FT.	658¹	53221			. : Rotar	y	
ELEVATIONS (Show whether DF, RT, GR, et	c.)			I	22. APPROX, DATE	MOSE MITT S	TART *
6574 *GL	÷				As soonias	narmitt	ام ما

Amoco proposes to drill the above dual well to further develop the Otero Chacra/Gonzales Mesaverde serves. The wall will be drilled to the surface casing point using mative mud. The well will them 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 drill and a multi-point surface use plan are attached.

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

Set DV tool at 3870.

QUANTITY OF CEMENT

315 sx Class "B" w/2% CaCl2-circ

<u> Stage I: 490 sx Class "B" Neat-circ</u> Stage 2: 870 sx CLB 50:50 POZ, 6% gal,2# med tuf plug/sx and .8% FLA. Tail in w/100 sx Ci B Neat-circ.

Cement Basket at 38401

LORIZED ARE MAH ATTACHED

arrive means the science processed indomant. If proposal is to deepen or plug back, give data on present productive ro s.c. If proposal is to drill or deepen directionally, give pertinent data on subsurface beations and measured and trui conter program, if may, med By October 29, 1980

P. O. BOX 2088 EHERSY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the cuter boundaries of the Section

والمراجع والمراجع فأفاؤ للمصور فلانتها للمورث

C			1,				
Operator AMOCO PROD	UCTION COMPAN	Y	Lease JI	CARILLA CO	NTRACT 11	:6	Well No.
Unit Letter	Section	Township		nge	County		1
В .	3	25N		5W	Rio	Arriba	
Actual Footage Loc 830		North line on	a 17	80 ,	eet from the	East	line
Ground Level Elev. 6574	Producing For Chacra/1	mation Mesaverde	P∞l	Otero Chac	r# Gonza	les MV Dedi	cated Acreage: 150 . 25 Acres
	e acreage dedica	ted to the subject	well by c	olored pencil	or hachure	marks on the pl	
2. If more th	an one lease is id royalty).	dedicated to the wo	ell, outlin	e each and id	lentify the	ownership therec	of (both as to working
3. If more the dated by c	on one lease of dommunitization, u	ifferent ownership is nitization, force-poo	s dedicate ling. etc?	ed to the well	, have the i	interests of all	owners been consoli-
Yes	No If an	iswer is "yes;" type	of conso	lidation			
If answer	is "no," list the	owners and tract des	scriptions	which have	actually be	en consolidated.	(Use reverse side of
this form if	necessary.)						
No allowab forced-pool	le will be assigne ling, or otherwise)	ed to the well until a or until a non-standa	ıll interes ard unit. e	ts have been eliminating su	consolidat ich interest	ed (by communi	tization, unitization, coved by the Commis-
sion.	J					o, nas been appi	oved by the Commis-
						CEI	RTIFICATION
	 		io	1			
			83	1		1	that the information con-
			6	17801			s true and complete to the vieldge and belief.
	1		•	Ì		100	surely.
				 -		Name R.A. DOWN	
	1			1		Position	
				1		Company	ENGINEER
	t E			1		AMOCO PROI	DUCTION COMPANY
) s	ec.		1		JUNE 12,	1980
	1				The state of the s		
•	1	3		1 /			y that the well-location
	1				10	1 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	lat was plotted from field surveys made by me or
	1				10/2012		vision, and that the same
	1					knowledge and	priect to the best of my belief.
				-	1-4		
	i			1	No.	Date Surveyed	CANA DER
*	[i		May 32,53	283
	1					Registered Profes and/or Land Surve	
	1					Funds	
	- Constant part					Fred Bick	E XERS.
0 330 650 4	90 1320 1680 1980	2310 2640 200	00 1500	1000	500 O	3950	West and the second sec

SUPPLEMENTAL INFORMATION TO FORM 9-331C JICARILLA CONTRACT 146 No. 34 830' FNL & 1780' FEL, SECTION 3, T25N, 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 '	4227 '
Kirtland	2510 1	4077
Fruitland	2700 '	3887 ·
Pictured Cliffs	2880 ·	3707
Chacra (if present)	3771	2816 +
Mosaverde Cliff House Point Lookout	4572 * 5042 *	2015 · 1545 ·
Gallup	T	t .
Dakota	ĭ	r
TD	5322 1	1265 +

Estimated	KB	elevation:	6587	1

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:

IND-SP-GR

FDC-CML-GR

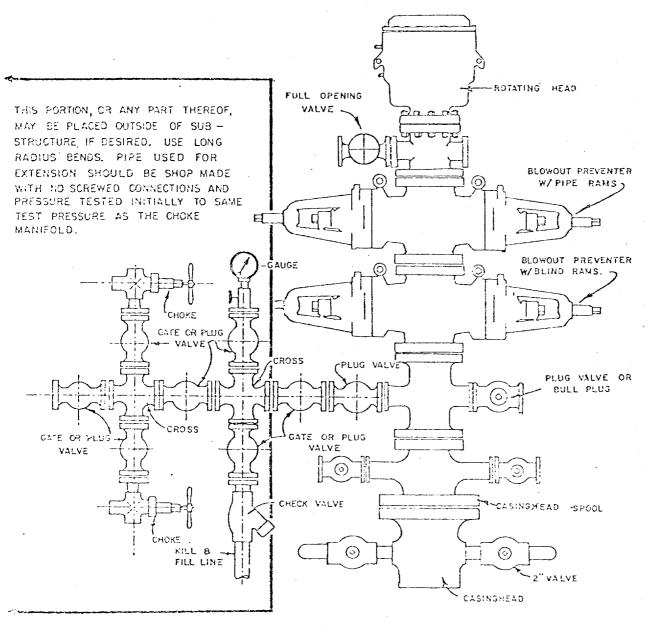
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

Amoco'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 D-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 146 NO. 34 830' FNL & 1780' FEL, SECTION 3, T25N, 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 146 Well No. 17, approximately 600 feet south.
- 5. Water will be hauled from Tapacito Water Hole.
- 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 2-foot cut will be made on east side.
- 10. Pestoration 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 flat area, with a sandy loam soil; vegetation consists of 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.

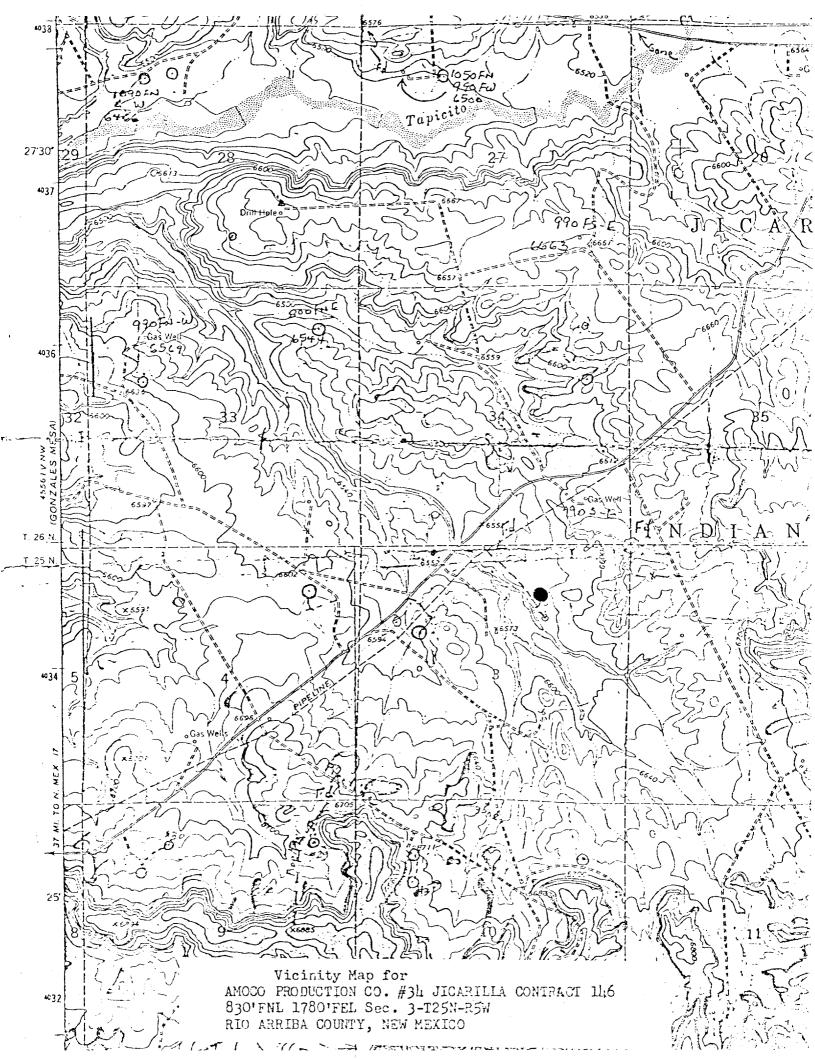
12. Operator's Representative: R. W. Schroeder

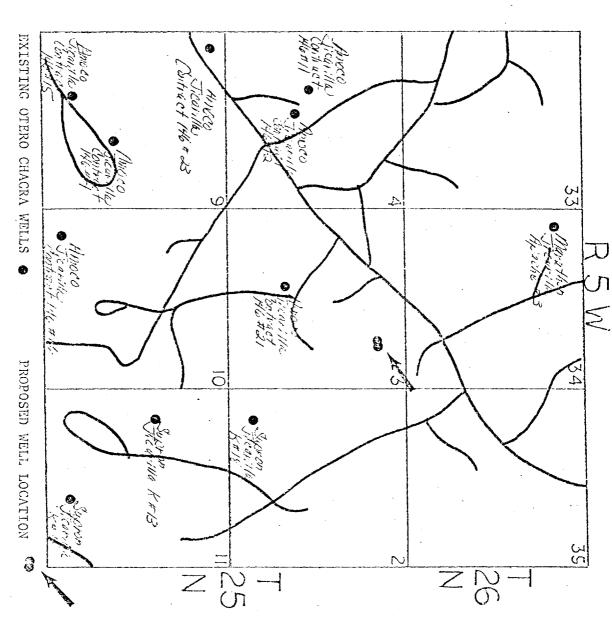
Phone: Office: 305-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

Certification: 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 AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date <u>October 27, 1980</u>

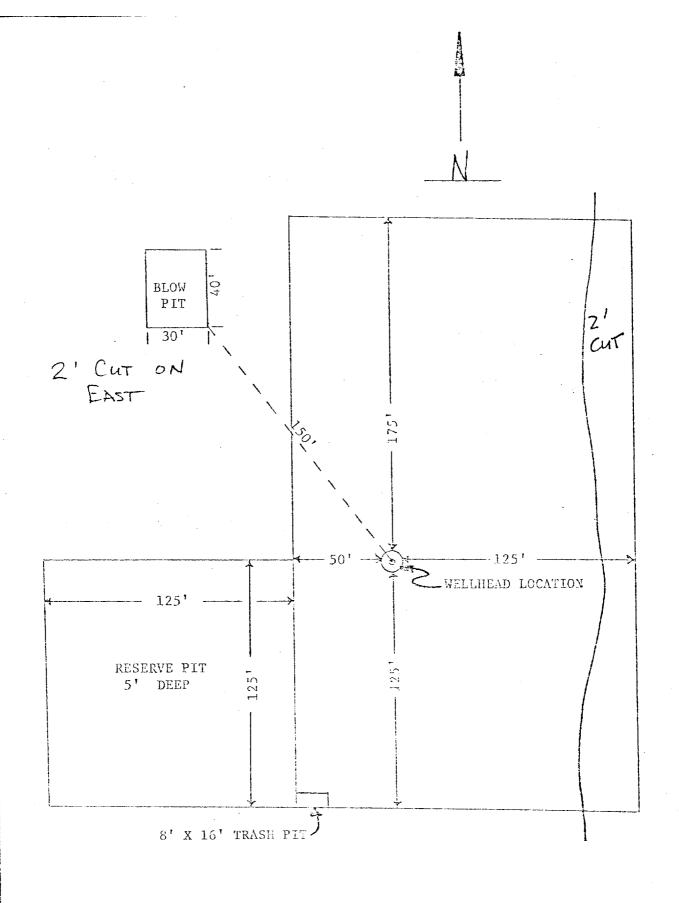
R. W. Schroeder, District Superintendent





ROADS

EXISTING GOZALES MESAVERDE WELLS O



APPROXIMATELY 1.2 ACRES

Amoco Production Company s	SCALE: 1"=50"
DRILLING LOCATION SPECIFICATIONS	
	D RG. 10.