SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-03G-2Z5Z0 5. LEASE DESTINATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

A DDI 1C A TION	I FOR PERMIT T	O DRILL DEF	PEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTES OR TRIBE NAME
la. TYPE OF WORK					Jicarilla Apache 7. UNIT AGREEMENT NAME
DRII	LL 🗵	DEEPEN 🗌	PLUG BAC	CK 📙	1. UNIT AGSEEMENT NAME
D. TYPE OF WELL GA	S OTHER	•	SINGLE MULTIP	re X	S. FARM OR LEASE NAME
WELL L.J. WE 2. NAME OF GPERATOR	H.I. CI OTHER		NAME IN COMM		Jicarilla Contract 146
AMOCO PRODU	CTION COMPANY			-	9. WELL NO.
C. ADDRESS OF OPERATOR					HE
501 Airport	Drive, Farming	ton, New Mexi	co 87401		Otero Chacra-Gonzales MV
4. ENCATION OF WELL (Re	port location clearly and	in accordance with any	y State requirements.*)		Basin Dakota
1 \	d 1660' FEL, Se	ction 4, T25N	, R5W		AND SURVEY OR AREA
At proposed prod. zone	•				SW/4, SE/4, Section 4,
14. PISTANCE IN MILES A	Same	EST TOWN OR POST OFF	JCZ*		T25N, R5W 12. COUNTY OR PARISH 13. STATS
	rth Northeast o				Rio Arriba New Mexico
15. DISTANCE FROM PROPO	SED*	1 Course of , 16.	NO. OF ACRES IN LEASE	17. No. 0	OP ACRES ASSIGNED =
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	980'	2557.2	cha/6	
(Also to nearest drig	OSED LOCATION*		PROPOSED DEPTH		CRY OR CABLE TOOLS
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	CLLING, COMPLETED,	1876'	7529		Rotary
21. ELEVATIONS (Show whe					22. APPROX, DATE WORK WILL START*
6726' GL					As soon as permitted
25.	P	ROPOSED CASING A	ND CEMENTING PROGR.	ML	inger i Maria de Santa de San De la Carlo de Santa
SIZE OF HOLE	SEZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
12-1/4"	9-5/8" (New)	32.3# H-40	300'	240 s	x Class B w/2% CaCl2-cinc
8-3/4"	7" (New)	23.0# N-80	7529'		1: 310 sx CL B 50:50 POZ,
			·		# med tuf plug/sx and $.8%$ F
Ambob proposes	: +o drill the at	ı Nove dual well	to further		in w/150 sx CL B Neat-circ
			Dakota reserves.		$\frac{2}{5}$ 750 sx C1 B 65:35 POZ,
The Otero Chacr	a and Gonzales	Mesaverde wil	I be commingled	991,52	# med tuf plug/sx and .8% F in w/100 sx CL B Neat-circ
and dually comp	oleted with the	Basin Dakota.	The well will		
be drilled to t					entralizers through Dakota,
			low solids non-		erde and Chacra.
dispersed mud s	system. Complet	tion design wi	II be based on	Set U	V tool at 5200'.
open hole logs. completion. Ad	. A copy or al	riogs WIII De	s filed upon ad by NTL-6 for		TO THE PARTY OF TH
the application					RECEIVE
plan are attach		a marri pormi	34. 1463 430		007.0
The gas from th		ordo is dodica	stad to El Pasa :		July Work to the I
Natural Gas Co					Turk course some in
				RFI	The second of th
	a annuonan arochini If	nmonosal is to decion i	or plug back, give datalon ita on subsurface locations a	present	drift e zone and troposed new productive
wither. If proposal is to	drill or deepen directions	ally, give pertinent da	ta on subsurface locations :	Ormeasur	se and tracticallidepths. Give blowout
preventer program, if an	U.			7.73	100
11 4	1 Tation			CON	7980 Contrabate 1 1000
\$70.5%D	WENT GOD	TITLE	<u>District Arg</u> i	CON CON	Com "y" October 1, 1980
(This space for Pade	TERUSED TENTENTE	<u> </u>	1		
	AU AMENUEL	<u>ر</u>	APPROPRIE DATE		······································
PERMIT NO.	<u> </u>		APPROVAL DATE		
AD 27/OVED 2 V	J. Warnely	TITLE .	The second secon		· · · · · · · · · · · · · · · · · · ·
CONDUCTIONS OF AUPSO	JAMES F. SIMB				
[[DISTRICT ENGINEER	*			

OIL CONSERVATION DIVISION

STATE OF IJEW M	NEXICO	P.O. BO SANTA FE, NE	OX 2088	87501	Form C-107 kevised 10-1
		ces must be from the c			
Operator	٠	Lease			Well No.
	TION COMPANY		ICARILLA CON	T	TITE TIE
0	tion Township	i	<u>54</u>	County Rio Arriba	
Actual Footage Location 930 fe	C =		660	et from the Last	line
Ground Lavel Elev:	Producing Formation	7210 010		Gonzales MV/	Dedicated Acreages
6726	Chacra-Mesaverd		Basin Dakota		160/320 Acres
If more than interest and r 3. If more than	royalty). one lease of different of munitization, unitization	ed to the well, outl	ine each and id ated to the well c?	lentify the ownership	of all owners been consoli-
this form if no No allowable	ecessary.)will be assigned to the	well until all inter	ests have been	consolidated (by c	ommunitization, unitization, en approved by the Commis-
				tained best o	by certify that the information com- therein is true and complete to the f my knowledge and belief. Downey DOWNEY
0. 4 % c	Sec.			Position DIST Compan AMOC	RICT TENGINEER
		4	CIL	CON Son shaper of the shaper o	eby certify that the well location on this plat was plotted from field of actual surveys made by me or my supervision, and that the same we and correct to the best of my ledge and belief.
	i	9801	 1560' 	Register and	Ty 29, 1980 red Professional Engineer Land Surveyon d-3 Kerr Ji
	Scale: 1"	=1000	BIA-DULO		rate No. 10

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 146 NO. 11E 980' FSL & 1660' FEL, SECTION 4, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

The	geologic	name	ο£	the	surface	formation	is	the	Tertiary San Jose	•
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Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

FORMATIO	<u> </u>	DEPTH	ELEVATION
Ojo Alamo		2429 '	4310
Kirtland		2584 '	4155 '
Fruitland		2805 '	3934 '
Pictured C	liffs	2986 ¹	3753 '
Chacra (if	present)	3849 1	2890 ¹
Mesaverde	Cliff House Point Lookout	4639 ' 5139 '	2100 ' 1600 '
Callup		6329 '	+ 410
Dakota		7179 †	- 440 *
TD		7529 ¹	- 790 '

Estimated KB elevation:	6739
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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: Surf-TD FDC-CNL-GR: Surf-TD GR: 0-2000'

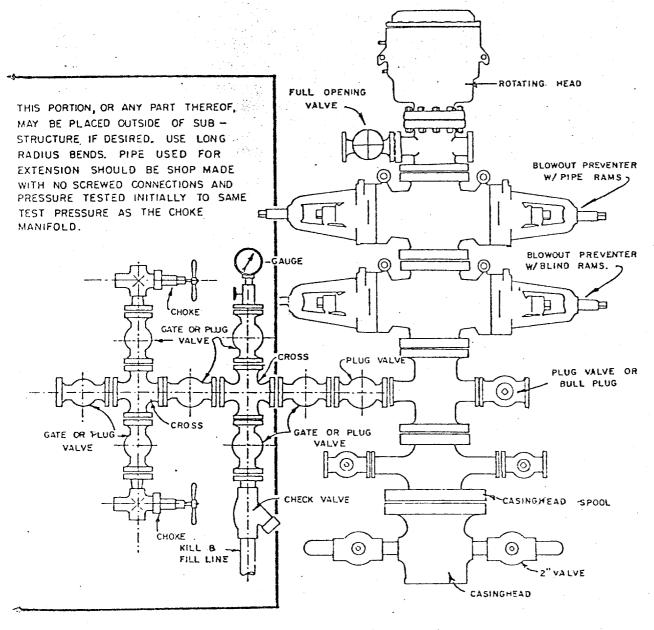
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 4_ 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.

- 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. 11E 980' FSL & 1660' FEL, SECTION 4, T25N, R5W RIC ARRIBA COUNTY, NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will be necessary to build an access road approximately 200 feet in length, 20 feet wide, and bar ditched one side.
- 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. II. approximately one-half mile west.
- 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. An 8-foot cut will be made on north side.
- 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 rolling slope with northeasterly drainage, with sandy clay loam soil; vegetation consists of pinon, 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.

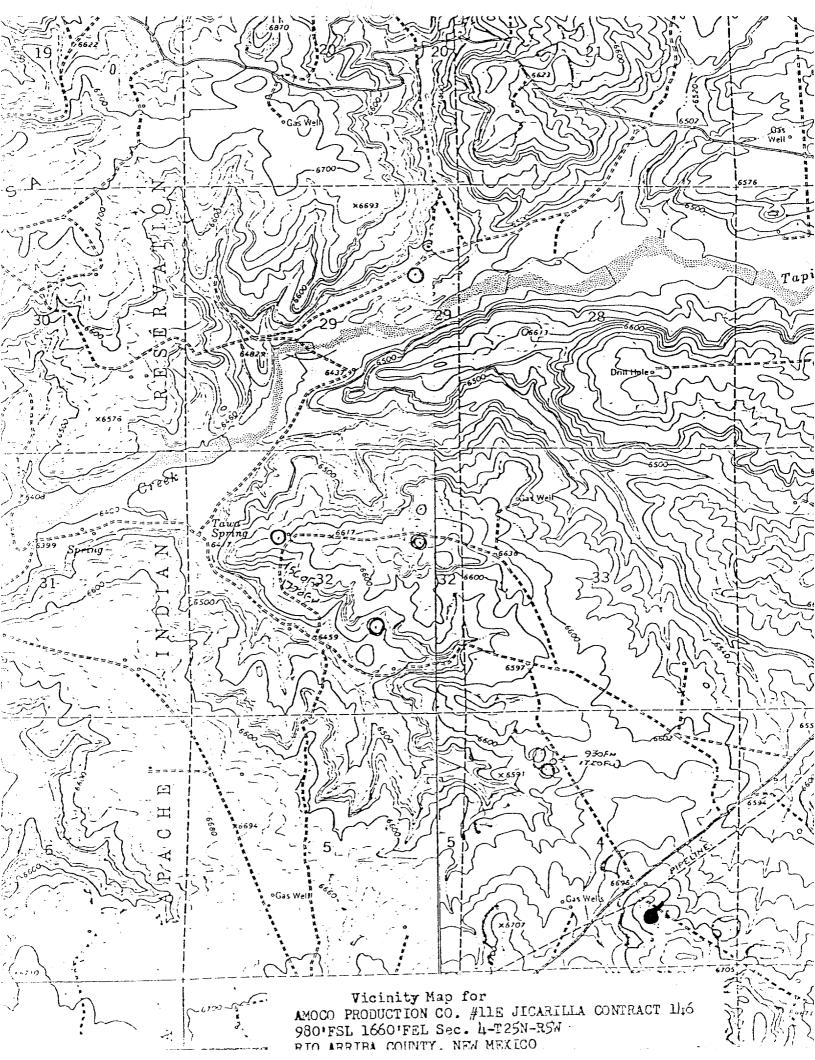
12. Operator's Representative: R. W. Schroeder

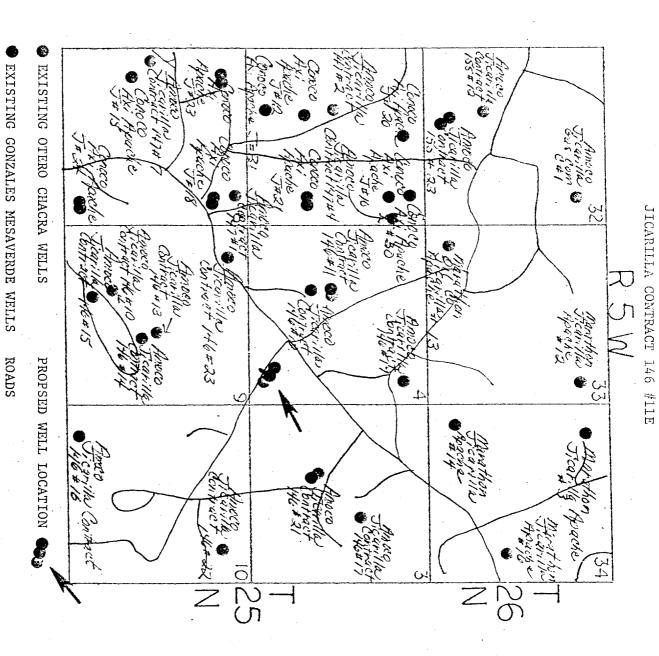
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

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.

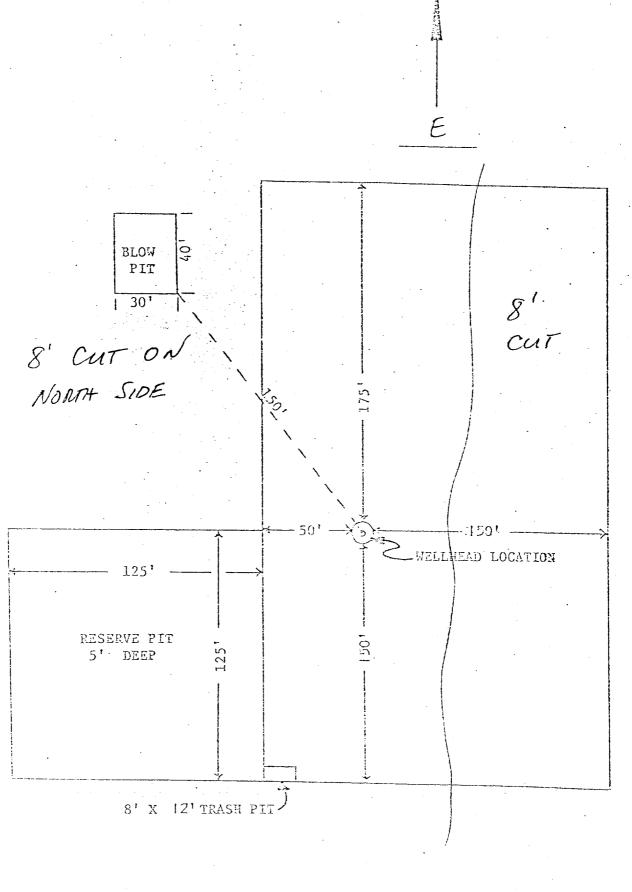
Date September 30, 1980

R. W. Schroeder, District Superintendent





EXISTING BASIN DAKOTA



APPROXIMATELY 1.2 AGRES

- Amoco Production Company	SCALE: 1"=501
DRILLING LOCATION SPECIFICATIONS	
1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DRG.
JIHAMICA CONTRACT 178 11-	NO.