SUBMIT IN TRIPLIC (Other Instructions reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

CATE•	Form approved, Budget Burcau No. 42-R1425,
on	
ľ	5. LEASE DESIGNATION AND SERIAL NO.
K	Jicarilla Contract 155 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	Jicarilla Apache
]	8. FARM OR LEASE NAME
	Jicarilla Contract 155 9. WELL NO.
	20E
	10. FIELD AND POOL, OR WILDCAT
	Basin Dakota
	11. SEC. T. R. M. OR BIK. NE/4, NW/4, Section 29, T26N, R5W
	12. COUNTY OR PARISH 13. STATE
	Rio Arriba New Mex
. NO. C	OF ACRES ASSIGNED
	\sim 320
. ROTA	RY OR CABLE TOOLS
	ROTARY 22. APPROX. DATE WORK WILL START*
÷	As soon as permitted
	7/13 30011 d3 permitted
·	
	QUANTITY OF CEMENT
5 s:	x Class "B" w/2% CaCl2-circ.
iage 17	1-415 sx Class "B" 50:50
ed t	6% gel, 0.8% FLA, and 2# uf plug/sx. Tail in w/ 180
k CL	ass "B" Neat-circulate.
tage	2-DV tool set at 5562'-
335	sx Class "B" 65:35 POZ, 1, 0.8% FLA, and 2# med
% ge	1, 0.8% FLA, and 2# med
	<pre>lug/sx. Tail in w/ 100 sx "B" Neat-circulate.</pre>
1455	near cricarate.
MAY	(10:500)
M.	
n t pr o neasur	ductive zone and proposed new productive ed and true vertical depths. Give blowout
er	PATE <u>ADEAL 7, 1980</u>
	- ED -
1. 1	FRUNDED
- projection -	P. 100
D.	Dark Day

ADDITION	FOR PERMIT TO	O DRILL DEED	EN OR PILIG R	ACK	6. IF INDIAN, ALLOTTER OR TRIBE NAME
	FOR PERMIT I	J DRILL, DELI	LIT, ON TEOU B		Jicarilla Apache
1a. Type of work	L 🛭	DEEPEN 🗌	PLUG BAG	CK 🔲 .	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	-H KT			-	
OIL WELL CAS	S OTHER	VFILL 2	SINGLE MULTIP	***	8. FARM OR LEASE NAME
2. NAME OF OPERATOR					Jicarilla Contract 155
AMOCO PRO	DUCTION COMPANY				9. WELL NO.
3. ADDRESS OF OPERATOR					20E 10. FIELD AND FOOL, OR WILDCAT
501 Airpo	rt Drive, Farmin	ngton, New Mex	ico 8/401		Basin Dakota
4. LOCATION OF WELL (Re					11. sec., T., R., M., OR BIAK.
810' FNL a	and 1700' FWL, S	Section 29, T26	5N, R5W		NE/4, NW/4, Section 29,
At proposed prod, zone					T26N, R5W
14. DISTANCE IN MILES A	Same	ST TOWN OR POST OFFI	CE*		12. COUNTY OR PARISH 13. STATE
					Rio Arriba New Mex
18 MITES	North of Counsel	116. 3	SO, OF ACRES IN LEASE	17. NO. C	OF ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE LI	INE, FT.		2477 56	70 7	320
(Also to nearest drlg 18. DISTANCE FROM TROPO	, unit line, if any)	810'	2477.56 PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	HLLING, COMPLETED,	2770'	7590'		Rotary
21. ELEVATIONS (Show whe			1000		22. APPROX. DATE WORK WILL START*
6687' GL				•	As soon as permitted
23.	Pi	ROPOSED CASING AS	OD CEMENTING PROGR	AM -	
					QUANTITY OF CEMENT
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	715 6	× Class "B" w/2% CaCl2-ci
12-1/4"	8-5/8" (New)	24# K-55	300'		1-415 sx Class "B" 50:50
7-7/8"	4-1/2" (New)	11.6# K-55	7590'		6% gel, 0.8% FLA, and 2#
					uf plug/sx. Tail in w/ 18
pursuant to Ord May 22, 1979. of the Natural	on to drill an l der No. R-1670-V This well will Gas Policy Act nis well is dedi	approved by qualify under under Order No	the NMOCD on Section 103 o. R-1670-V.	Stage 1335 6% ge tuf p	ass "B" Neat-circulate. 2-DV tool set at 5562'- sx Class "B" 65:35 POZ, l, 0.8% FLA, and 2# med lug/sx. Tail in w/ 100 s> "B" Neat-circulate.
	Kith +			OIL MAY	
in above space describe zone. If proposal is to preventer program, if an 24.	drill or deepen directions	proposal is to deepen o lly, give pertinent data	a on subsurface locations		ductive zone and proposed new productive ed and true vertical depths. Give blowout
SIGNED Z	tackrely	TITLE _	District Eng	ineer	DATE ADEM 7, 1980
(This space for Fede	eral or State office use)			<u></u>	an Ego
PERMIT NO.			APPROVAL DATE	أخمر أنت	
			×.	45	1-200 - 1080 -
APPROVED BY		TITLE		·	yet for
CONDITIONS OF APPROV	VAL, IF ANY:	•		\ /	lave + STOR
DRILLING OPERATIONS A SUBJECT TO COMPLIANCE "GENERAL REQUIREMENT	E WITH ATTACHED ,	NMOCC Frank		19	MANES ENG. NELL

STATE OF NEW MEXICO LHERGY ALS MINERALS DEPARTMENT

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

	All distan	nces must be fro	in the cuter	houndertee of	the Section		
Operator			Lease				Well No.
	ION COMPANY		JICA	RILLA CONT	RACT 1	55	20-E
1	tion Township		Range		County		
	29 26	N	5	N	Rio	Arriba	
Actual Footage Location							
	et from the North	line and	1700	fee	from the	West	line
Ground Level Elev. 6687	Producing Formation		P∞l	5 .) .			Dedicated Acreage:
0007	Dakota		Bası	n Dakota			W 320 Acres
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- 							
dated by comm Yes If answer is this form if ne No allowable v	No If answer is 'no,' list the owners accessary.)	n, force-pooling "yes," type of and tract descriptions well until all	ng. etc? I consolid riptions w interests	ation hich have ac have been c	tually be	en consolida	atted. (Use reverse side of munitization, unitization, approved by the Commis-
sion.			1				CERTIFICATION
1700'	 ® 810'		1 1			tained her	ertify that the information con- ein is true and complete to the knowledge and belief.
N. N	+					Position	ACKRELL T ENGINEER
			1			Company	RODUCTION COMPANY
	Sec.	Ç 4	, 1		1	FEBRUAR	Y 1, 1980
	illa Pribal	4					
Contr	act No. 155	29	-			shown on s godes of c under my s is true or	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my and belief.
	1 0	2	7			1 / /	
		and the control of th				Date Surveyed Januar Registered P and/or Land Fred B Certificate N	y 23 1980 rofessional Engineer Surveyor Kerr Ur
0 330 660 00	1320 1450 1040 2340	. , ,		• •	•	2000	N. 4 P. Week 12

SUPPLEMENTAL INFORMATION TO FORM 9-331C JICARILLA CONTRACT 155 NO. 20E 810' FNL & 1700' FWL, SECTION 29, 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	<u>DEPTH</u>	ELEVATION
Ojo Alamo	2536 '	4164
Kirtland	2671'	4029 ¹
Fruitland	2927 '	3773 '
Pictured Cliffs	3037 '	3663 '
Chacra (if present)	3946 '	27 54 '
Mesaverde Cliff House Point Lookout	4729 ' 5322 '	1971 <mark>'</mark> 1378 '
Gallup	6443 '	257 '
Dakota	7255 '	- 555 '
TD	7590 '	-890 ¹

Estimated KB elevation: 6700 '

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:

Induction Electric-SP-Gamma Ray Compensated Formation Density-Compensated Neutron-Gamma Ray

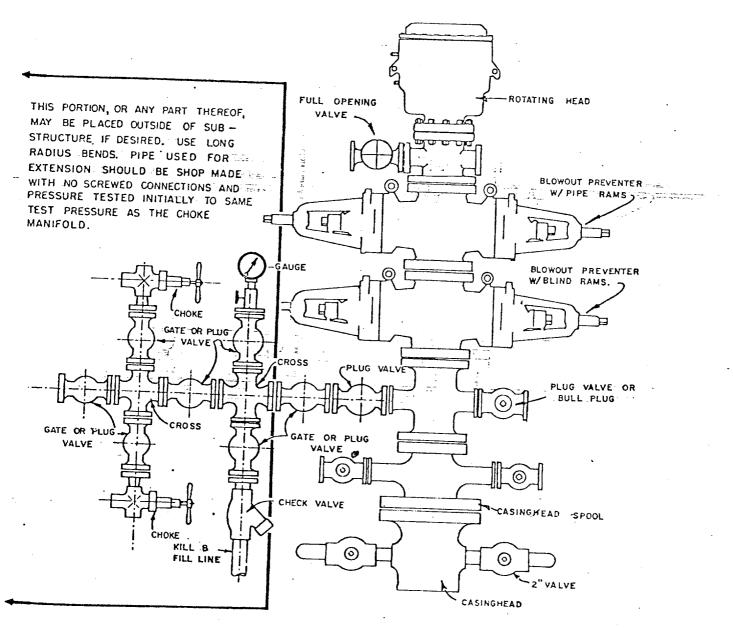
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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.

- 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 155 NO. 20E 810' FNL & 1700' FWL, SECTION 29, T26N, R5W RIO 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 one-half mile in length and 20 feet wide. Road to be bar ditched on two sides.
- 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. 20, approximately one-half mile east.
- 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 east 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 mesa top with alluvial surface deposits and sandstone outcrops. The soil is a sandy, clayey loam, with vegetation consisting of pinon, juniper, sagebrush, snakeweed, yucca, and native grasses.

Representatives of the U. S. Geological Survey's Durango 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.

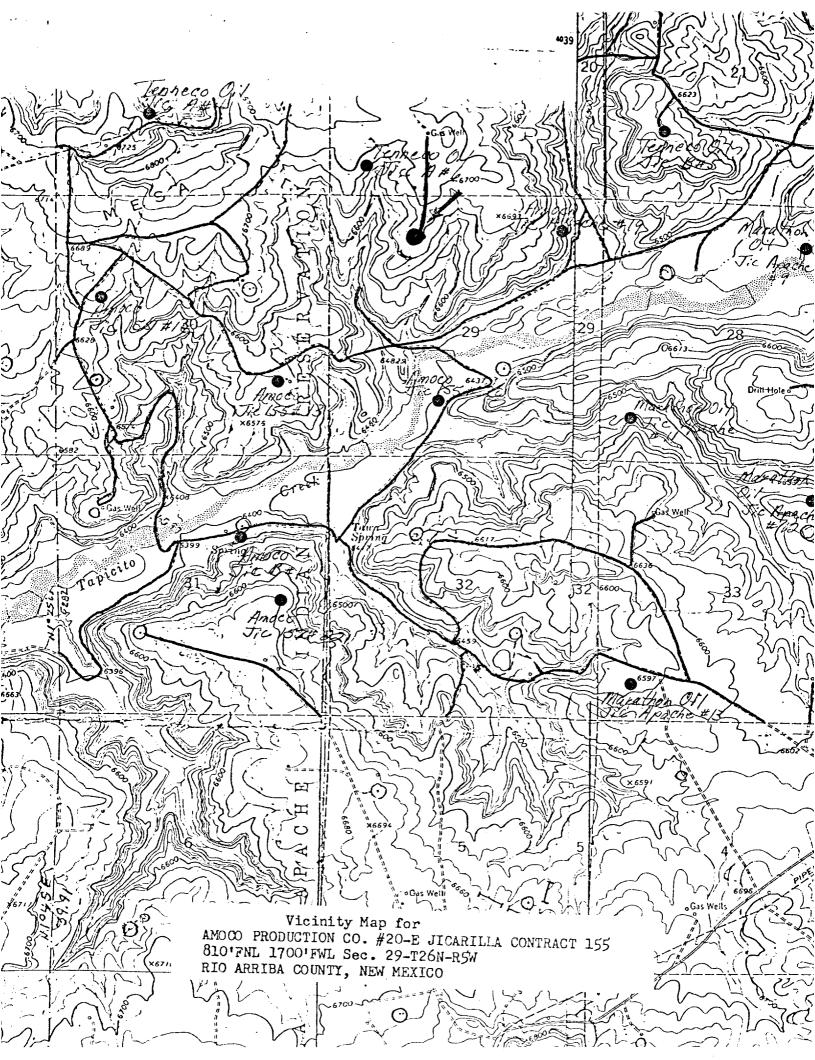
12. Operator's Representative: R. W. Schroeder

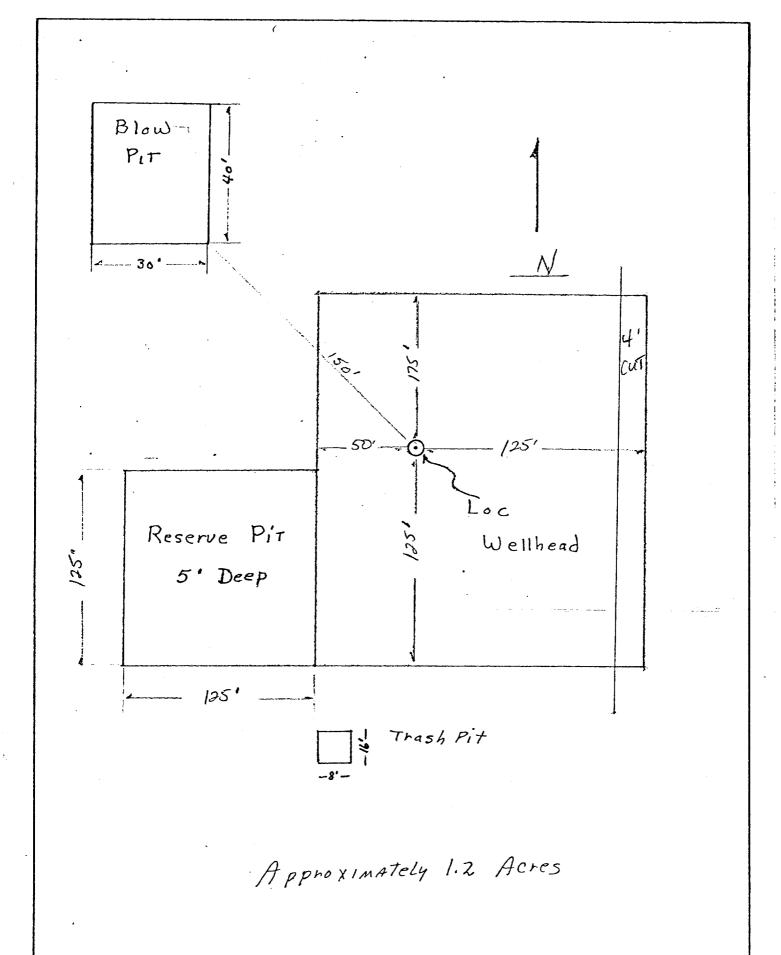
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

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

Date April 2, 1980

R. W. Schroeder, District Superintendent





Amoco Production Company

Drilling Location Specs

JICARILLA CONTRACT 155 NO 20E

DRG.
NO.