### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

## UNITED STATES DEPARTMENT OF THE INTERIOR

	_	30.045-24206	>
Ì	5.	LEASE DESIGNATION AND SERIAL NO.	

GEOLOGICAL SURVEY						SF-077386-A		
APPLICATION	APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							
1a. TYPE OF WORK  DRI	LL 🗷	DEEPEN [	]	PLUG BA	ск 🗆 ;	7. UNIT AGREEMENT NAME		
	AS ELL S OTHER	INFILL		NGLE X MULTI	er <b>e</b>	S. FARM OR LEASE NAME		
2. NAME OF OPERATOR	, , , , , , , , , , , , , , , , , , ,					E. J. Johnson "C"		
AMOCO PROD  3. ADDRESS OF OPERATOR	OUCTION COMPANY				•	Q. WELL NO.		
C 501 Airpor	t Drive, Farmin	gton, New Me	exic	0		10. FIELD AND POOL, OR WILDCAT		
At surface	eport location clearly and and 1820' FWL, S					Basin Dakota  11. spc., T, R, M, OR BLK. AND SURVEY OR AREA NE/4, NW/4, Section 21		
At proposed prod. zon	e Same					T27N, R10W		
14. DISTANCE IN MILES .	AND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE	;*		12. COUNTY OR PARISH 13. STATE		
11 miles S	outheast of Blo	omfield, New	w Me	xico		San Juan New Mexic		
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	OSED* r .INE, FT.			. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL 320		
18. DISTANCE FROM PROP	OSED LOCATION*		19. PR	OPOSED DEPTH	20. кота	RY OR CABLE TOOLS		
TO NEAREST WELL, D OR APPLIED FOR, ON TH		2970'		6596' KB	.:	· · · · · · · · · · · · · · · · · · ·		
21. ELEVATIONS (Show who		_				22. APPROX. DATE WORK WILL START*		
		13' GL				As soon as permitted		
23.	P	ROPOSED CASING	AND	CEMENTING PROGR	AM	:		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	OOT SETTING DEPTH			QUANTITY OF CEMENT		
12-1/4"	8-5/8" (New)	24#		300'		x Class "B" Neat		
7-7/8"	4-1/2" (New)	11.6#		6596'	1660 s	x Class "B" 50:50 POZ		
The gas from the	icy Act under Carlos well is dedi				Company	RETERM		
zone. If proposal is to preventer program, if an	L SURVEY , N. M.  PROPOSED PROGRAM: If 1 drill or deepen directiona	proposal is to deepe lly, give pertinent	n or p data o	lug back, give data on s n subsurface locations a	present prod and measure	FEB 2 2 1980 OIL CON. COM. DIST. 3 luctive zone and proposed new productive dand true corticos depths. Give blowout		
3. S. Signed	Jachul	TITL	Е	District Engi	neer	DATE January 9, 1980		
(This space for Fede	ral or State office use)					A STATE OF THE PROPERTY OF THE		
PERMIT NO.				APPROVAL DATE	AS A	ANDED MENDED		
APPROVED BYCONDITIONS OF APPROV	AL, IF ANY:	TITL	E	<del></del>	aFE.	B		
COMPLETED CHERAITA SUBJECT TO COMPL "GENERAL REQUIRE	HS AUTHORIZED ARE IANCE WITH ATTACHED MENTS".	ich Smal	N	MOCC /	JA DIST	MES F. SIMS RICT ENGINEER		

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

# OIL CONSERVATION DIVISION

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

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

AMOZO PRODUCTION COMPANY  21	Operator					Lease				Well No.		
Central functions to contain a Morth the end 1820 feet from the Wast Inc.  So test from the North the end 1820 feet from the Wast Inc.  So test from the North the end 1820 feet from the Wast Inc.  So Dakota Dakota Wast Wast Wast Wast Wast Wast Wast Wa	AMOCO PRODUCTION COMPANY						E. J. JOHNSON "C" 1-E			1-E		
Access Possible Locations of walls  \$60   free from the North the and 1820   free from the North the and 1820   free from the North the act of 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 (both as 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 consolidated by communitization, unitization, inforce-pooling, etc?  \[ \text{Y as } \] No If answer is "yes," type of consolidation interests of all owners been consolidated. (Use reverse side of this form if necessary.)  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-d-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.  \[ \text{RECEIVED} \]  JAN 1 11 1980  U.S. GEOLOGICAL SUNVEY  FARMINGTON, N. M.  PECEIVED  JAN 1 11 1980  U.S. GEOLOGICAL SUNVEY  FARMINGTON, N. M.  PECEIVED  JAN 1 11 1980  U.S. GEOLOGICAL SUNVEY  AMOCO PRODUCTION COMPANY  Due  DECEMBER 7, 1979  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  and the information contained herein is true and complete to the best of my knowledge and belief  DISTRICT ENGINEER  Company  AMOCO PRODUCTION COMPANY  Due  DECEMBER 7, 1979  I hereby certify that the information contained and my line of the contain	Unit Letter Section Township				Rang	e	County					
time and North the and 1820 test from the West Deciment Special Producting Femaleties Posts Producting Femaleties Posts Passin Dakota W 320 Acres 1. Outline the acreage dedicated to the subject well by colored pencil of hockure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and proyalty).  3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?  West No If answer is "yes," type of consolidation			<del>-</del>	27N			LOW	San	Juan			
Described Averages  6013 Dakota  Basin Dskota  W 320  Annua  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 (both as 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 consolidated by communitization, unitization, force-pooling, etc?  Yea No If answer is "yea," type of consolidation Jointly owned acreage  If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  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.  RECEIVED  JAN 11 1980  U.S. GEOLOGICAL SURVEY FARMINGTON, N. M.  PROCEIVED  JAN 11 1980  Outs Surveyed  AMOCO PRODUCTION COMPANY  Cots DESCRIPTION COMPANY  Cots DESCRIPTION COMPANY  Dots DISTRICT ENGINEER  Company AMOCO PRODUCTION COMPANY  DOTS DESCRIPTION COMPANY  DOTS DESCRIPTION COMPANY  DOTS DESCRIPTION COMPANY  DOTS DESCRIPTION COMPANY  DIST, 3  DESCRIPTION COMPANY  DIST, 3  DESCRIPTION COMPANY  DIST, 3  DESCRIPTION COMPANY  DIST, 3  DESCRIPTION COMPANY  DESCRIPTION				T 1.1.		7.00/	2					
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#### SUPPLEMENTAL INFORMATION TO FORM 9-331C

E. J. JOHNSON "C" NO. 1E 860' FNL & 1820' FWL, SECTION 21, T27N, R10W SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary Nacimiento.

Estimated tops of important potential hydrocarbon bearing formations:

FORMATION	DEPTH	ELEVATION
Fruitland	1555'	+4471'
Pictured Cliffs	1800'	+4226'
Mesaverde	3340 <b>'</b>	+26861
Dakota	6249 <b>'</b>	- 223¹
TD	6596 <b>'</b>	

Estimated KB elevation: 6026'

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

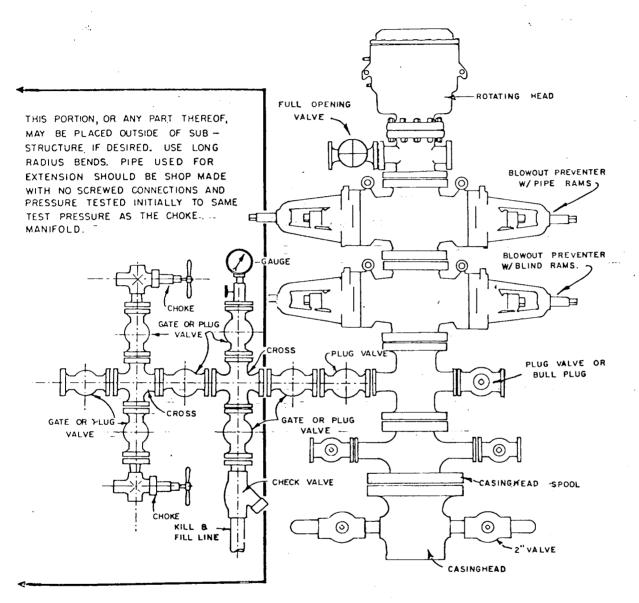
Induction - SP - GR\*
Formation Density - Compensated Neutron - GR

\*GR will be logged to surface

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).



BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1969

#### MULTI-POINT SURFACE USE PLAN

### E. J. JOHNSON "C" NO. IE 860' FNL & 1820' FWL, SECTION 21, T27N, RIOW SAN JUAN COUNTY. NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will not be necessary to build an access road for this location.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
- 4. There is a 380-barrel tank and facilities located at E. J. Johnson "C" Well No. I.
- 5. Water will be hauled from the San Juan River.
- 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.
- 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 3-foot cut will be made on southwest side.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Drilling mud will be hauled away and the reserve pit back filled. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
- II. The general topography is a flat area, on edge of wash, with sandy soil; vegetation consists of sagebrush and native grasses.

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

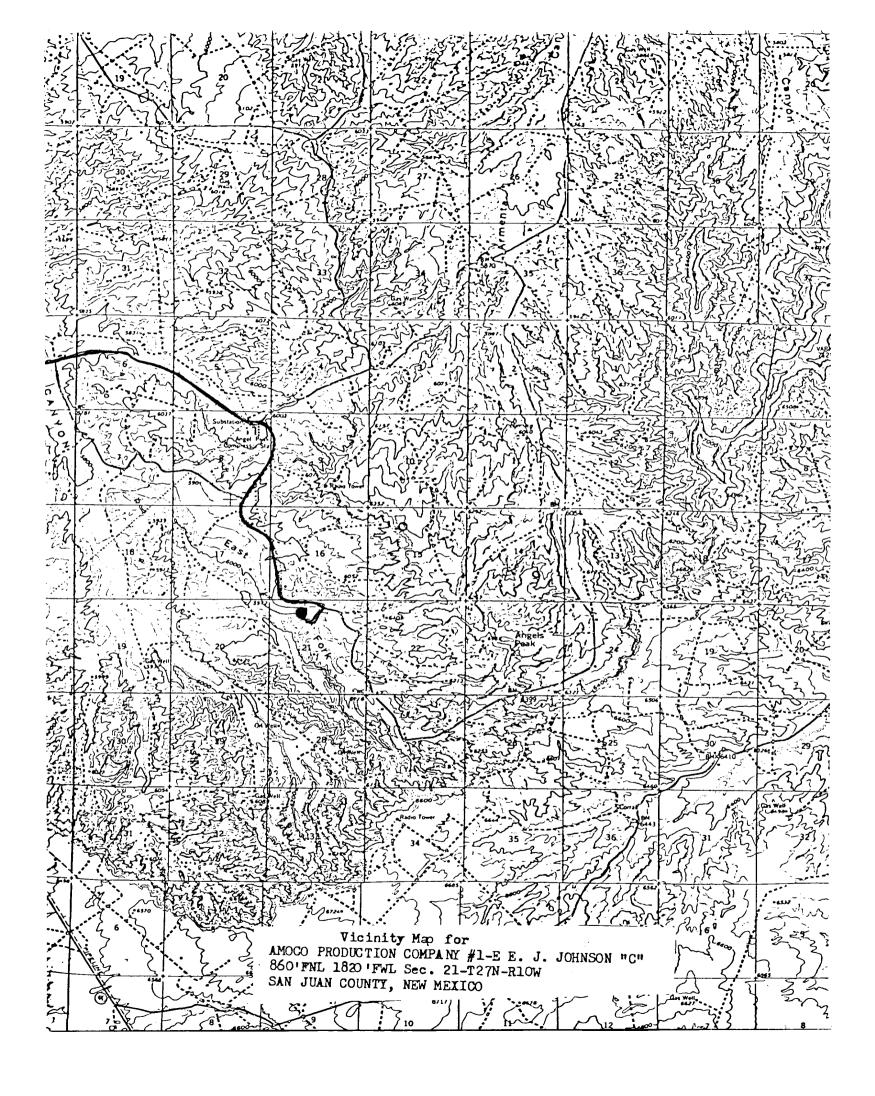
12. Operator's Representative: R. W. Schroeder

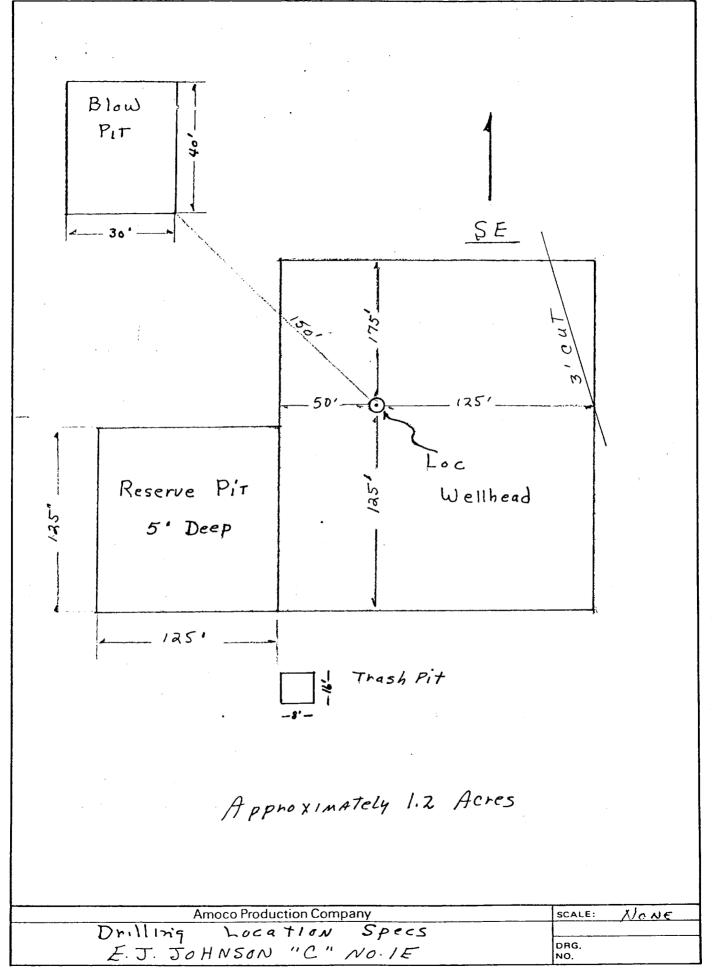
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

<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 December 20, 1979

R. W. Schroeder, District Superintendent





# E. J. JOHNSON "C" NO. 1E

CASING	GRADE	WEIGHT	CEMENT TOP	CEMENT
8-5/8" (NEW)	K-55	24#	Surface	Class B with 2% CaCl2.
4-1/2" (NEW)	K-55	11.6#	Surface	Class B with 50:50 POZ, 6% gel, 2# med tuf plug/sx, .8% fluid loss.

FORMATION	DEPTH	ELEVATION
Ojo Alamo	709 <b>'</b>	+5317'
Kirtland	874 <b>'</b>	+5152 <b>'</b>
Fruitland	1555 <b>'</b>	+4471'
Pictured Cliffs	1800¹	+42261
Chacra	2669 <b>'</b>	+3357'
Mesaverde	3340 <b>'</b>	+2686
Gallup	5294	+ 732'
Dakota	6249 <b>'</b>	- 223 <sup>1</sup> -

