SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

30-039-2/397 5. LEASE DESIGNATION AND SERIAL NO.

	GEOLOG	IICAL SURVET			J	278 700
APPLICATION	FOR PERMIT TO	O DRILL, DEEL	PEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
a. TYPE OF WORK DRIL b. TYPE OF WELL	.L 🔼	DEEPEN	PLUG BAC	K 🗆	7. UNIT AGREEMENT N. ROSA UNI	
	LL OTHER		SINGLE MULTIPE	E	8. FARM OR LEASE NAM	IE
. NAME OF OPERATOR	ICTION COMPANY				O WWY L NO	
ADDRESS OF OPERATOR	CIION COMPANI				9. WELL NO.	
501 Airport	Drive, Farming				10. FIELD AND POOL, O	R WILDCAT
	port location clearly and i			<u> </u>	Besin Dekot	
At proposed prod. zone		WL, SECTION A	25, T-31-N, R-5-1	•	11. SEC., T., B., M., OR B ME/4 NW/4 Bec T-31-N, R-5-W	tion 25,
4. DISTANCE IN MILES AT	ND DIRECTION FROM NEARS	ST TOWN OR POST OFF	ICE*		12. COUNTY OR PARISH	13. STATE
	ortheast of Blaz				Rio Arriba	New Mexic
5. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig.	NE, FT. 16	20' FRE	NO. OF ACRES IN LEASE	то	OF ACRES ASSIGNED THIS WELL 320	/
8. DISTANCE FROM PROPO TO NEAREST WELL, DRI OR APPLIED FOR, ON THIS	LLING, COMPLETED, LEASE, FT.	19.	PROPOSED DEPTH 8250 1	20. ROT	Rotary 22. APPROX, DATE WOL	
1. ELEVATIONS (Show whet	her DF, KT, GR, etc.)				Within 90 da	-
3.	PH	OPOSED CASING A	ND CEMENTING PROGRA	м		·/-
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	i	QUANTITY OF CEMEN	T. C.
15"	10-3/4"	40.5#	300 1		300 sx - cire.	
9-7/8 ^H	7-5/8"	26.4#	3800'		600 sx - circ.	
6-3/4"	4-1/2"	11.6#	82501		600 ax - cire.	
and Amoco's ble is being prepar	wout prevention	hookup for	Topo Map, locat this well are at ne Corporation.			Permit
one. If proposal is to dreventer program, if any. 4. SIGNED	rill or deepen directionall	y, give pertinent data	r plug back, give data on properties on subsurface locations an Area Engineer APPROVAL DATE	d measur	ed and true vertical depth	
CONDITIONS OF APPROVA	L, IF ANY:	TITLE	1.4:		DATE	
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CXICA	4		-	4 1	n oraș	

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, a nowing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-781-025/VIII-239

All distances must be from the outer boundaries of the Section

Operator		THE CONTROL OF MANY		er boundaries of	the Section		• • • • • • • • • • • • • • • • • • • •	
Amoco Production Company			1 _	Rosa Unit			Well No.	
Unit Letter Section Township							58	
C	25	31 N	_	W	County Rio	Arriba		
Actual Footage Loca								
1020		rth line		feet	from the	West	line	
Ground Level Elev. 6606 est.	Producing Form Dakot		Pool	Basin Dako	ta		Dedicated Acreage:	
1. Outline the	acreage dedicat	ted to the subject	well by col	ored pencil or	hachure	marks on th	Acres Acres	
2. If more th interest an	 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). 							
3. If more that dated by co	n one lease of di ommunitization, u	fferent ownership nitization, force-po	is dedicated poling. etc?	to the well, h	nave the i	nterests of	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Yes		swer is "yes;" typ				-	APR 22 1977	
If answer i	s "no;" list the c	owners and tract d	escriptions w	hich have act	tually bee	en consolida	nted fligh rederse side of	
forced-pool	ing. or otherwise)	α το της well until or until a non-stan	all interests dard unit eli	have been co	onsolidate	ed (by comi	munitization, unitization, approved by the Commis-	
sion.	,	or anon a non otan	dard dille, ell	mmating such	interest	s, nas been	approved by the Commis-	
	i		į				CERTIFICATION	
	1 -		1			I hereby c	ertify that the information con-	
	070		•		İ	1	ein is true and complete to the	
	ं न		1				knowledge and belief.	
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ł	1		1			Name	More Comme	
	-+					н. г	. Montgomery	
	1		İ			Position	V	
i	İ	i					Engineer	
	i	1	j		11	Company	RODUCTION COMPANY	
j	į.		!			Date Date	RODUCTION COMPANY	
	!		ŀ			Apri	1 12, 1977	
	<u> S</u>	ec 25						
	1	25	1					
	i	: :	1				certify that the well location	
	!		I I				his plat was plotted from field ctual surveys made by me or	
			ļ				upervision, and that the same	
	!		!!			is true an	d correct to the best of my	
	- +		i			knowledge	and belief.	
			APR 1	· .				
	! 		1			Date Surveye March 30		
	1	₹!.				Registered P	rolessional Engineer	
	i		1			and/or Land;	Surveyor	
						Fred B.		
330 660 90	1320 1650 1980	2310 2640 26	1500	1000 500		Certificate No	a. 7:15-	

ROSA UNIT NO. 58 1020' FNL & 1820' FWL, SECTION 25, T31N, R10W RIO ARRIBA COUNTY, NEW MEXICO 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 <u>AMOCO PRODUCTION</u>

COMPANY and its contractors and subcontractors in conformity with this plan and the terms and
conditions under which it is approved.

April 12, 1977

Date

Area Supt.

Name and Title

DEVELOPMENT PLAN ROSA UNIT NO. 58 1020' FNL & 1820' FWL, SECTION 25, T31N, R10W RIO ARRIBA COUNTY, NEW MEXICO

The proposed location is in Carson National Forest, a pinon-juniper forest. The ground cover on the location is pinon and cedar with a little sagebrush. The geological name of the surface location is the Tertiary San Jose. Access will require 500' of new road. The location is fairly level; material from high points will be used to level the location for proper drilling and no construction materials will be used for building the location.

Preliminary approval has been obtained from the U.S. Forest Service and formal approval is presently being sought. Preliminary archaeological clearance of the drill site has been obtained from Mrs. Mary Thul, Archaeologist. The U.S.G.S. has granted preliminary approval.

We anticipate hauling water from a proposed water hole in a wash approximately 1000' southeast of the location (map attached). In the event of rejection of this approval by the U. S. Forest Service, we will make arrangements to haul water by truck from the Gomez water hole at La Jara Wash over permanent existing roads (about 13 miles). Water will be used to drill the first 300', gel mud from 300' to 3800' and gas from 3800' to TD (8250'). A 150' x 150' pit will be built on location to hold all drilling waste and other trash, trees, and brush. Upon completion all waste liquids will be hauled by truck and bladed into existing roads and the pit will be covered. All pits will be covered; the location pits and drilling site will be cleaned and reseeded according to U. S. Forest Service Specifications (seeding plan attached).

There are no airstrips or camps in the vicinity. The estimated tops of important geological formations bearing hydrocarbons are:

Formation	Depth	Elevation
Fruitland-Pictured Cliffs	3000-3300'	+3500-3200'
Mesaverde	5500'	+1000'
Dakota	8050'	-1500'

Estimated KB elevation: 6619'

Est. Depth	Csg. Size	Weight	Hole Size	Sacks Cement - Type Cement
300 '	10-3/4"	40.5#	9-7/8"	300 - Class "B", 2% CaCl2.
3800 '	7-5/8"	26.4#		600 - Class "B", 50:50 Poz, 6% Gel.
8250 '	4-1/2"	11.6#		600 - Class "B", 50:50 Poz, 6% Gel.

Amoco's standard blowout preventer will be employed, see attached drawing for blowout preventer design.

Amoco plans to run the following logs: From 0 to 300' - Induction, Compensated Density. From 3800' to TD - Induction Gamma Ray, Formation Density. No cores or drill stem tests will be taken.

In past drilling in this area, no abnormal temperatures or hydrocarbon gas were encountered.

We anticipate the starting date to be in early June and expect a two week operation.

SEEDING PLAN FOREST LANDS

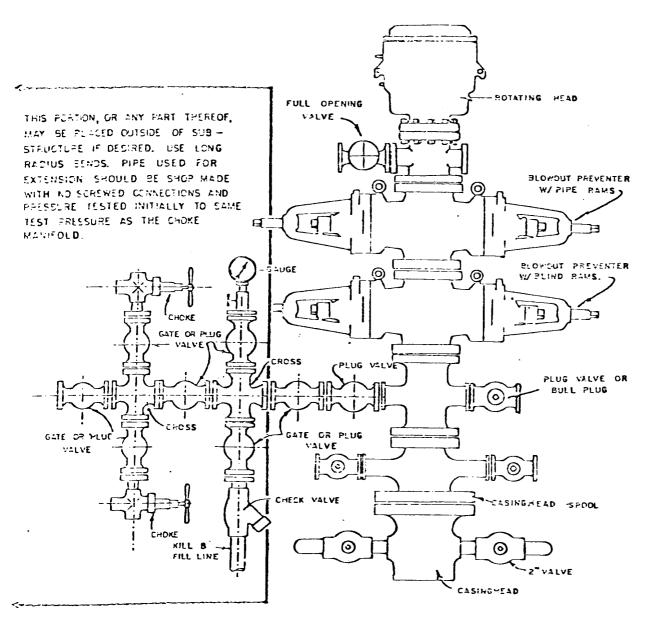
4 lbs./acre 6 lbs./acre 1 lb./acre

1 lb./acre

Crested Wheatgrass Pubescent Wheatgrass Ranger Alfalfa

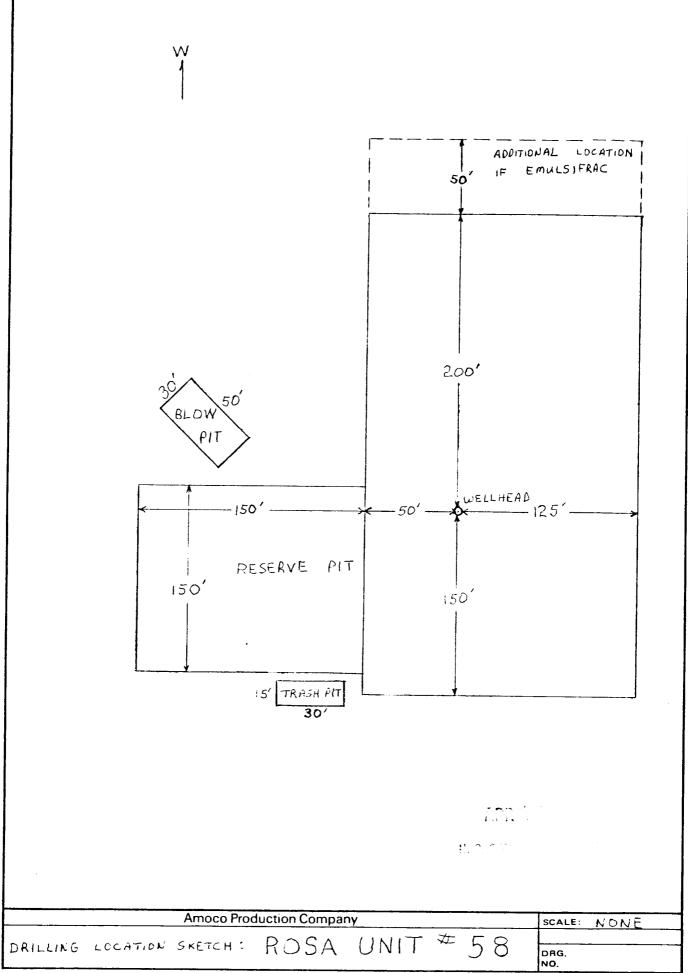
Weeping Lovegrass

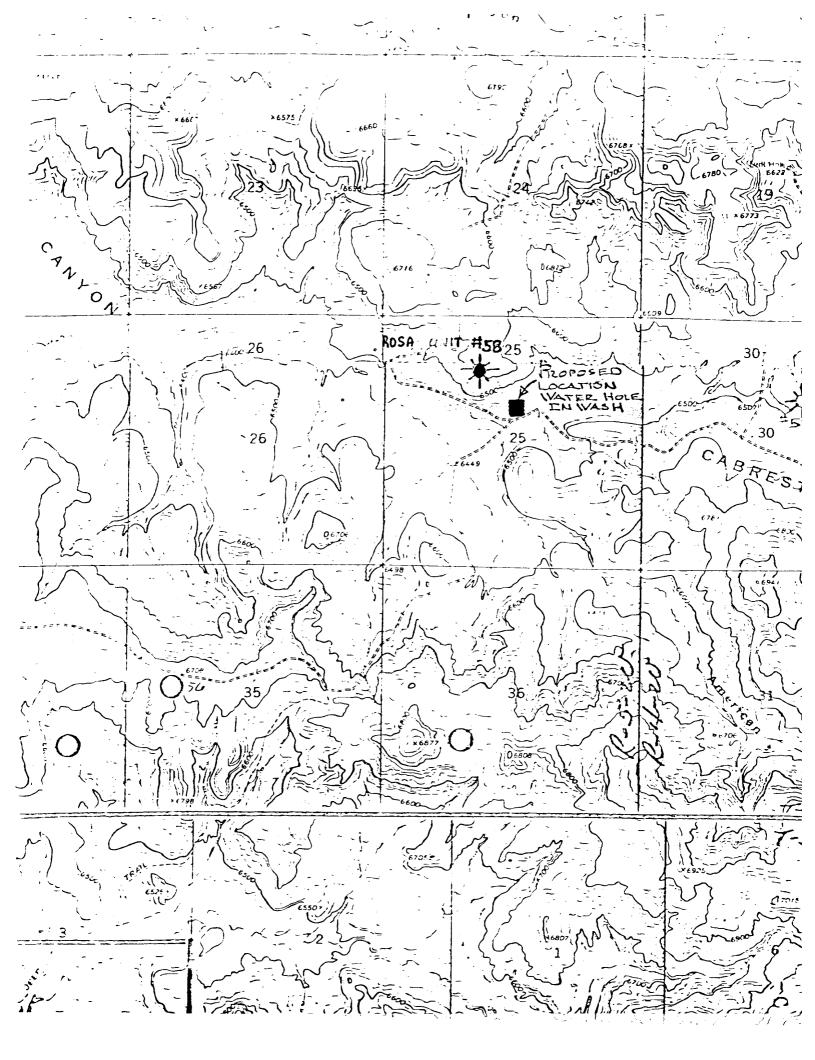
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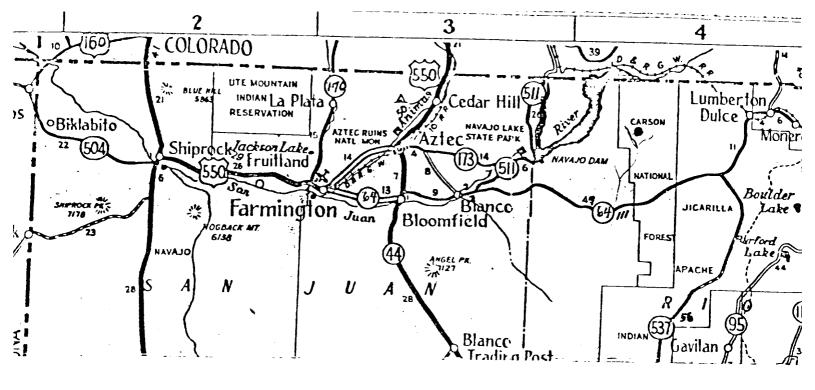


BLOWOUT PREVENTER HOCKUP

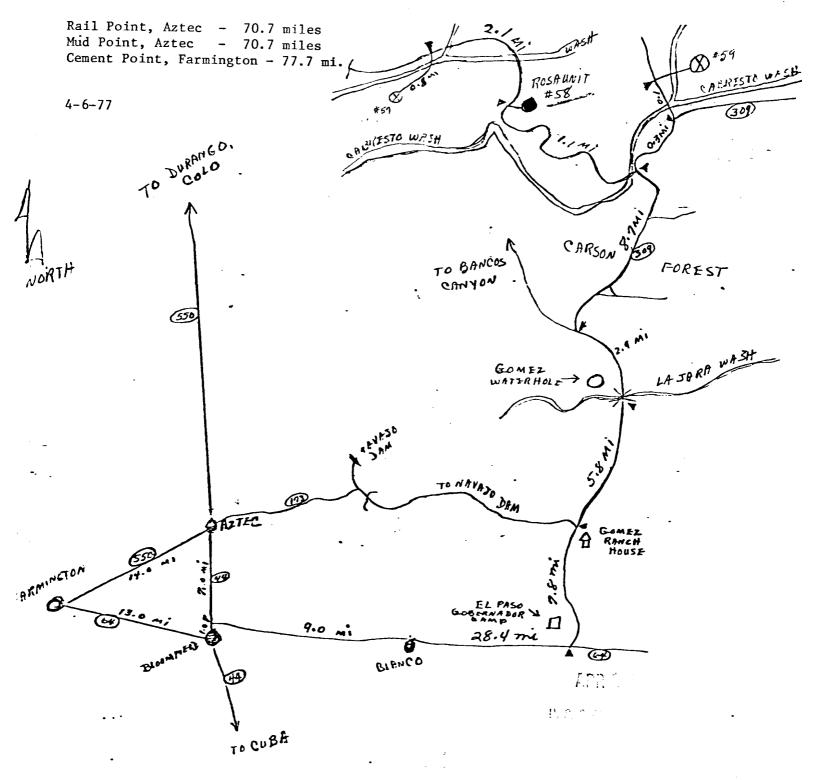
EXHIBIT C-4 OCTOBER 16, 1989

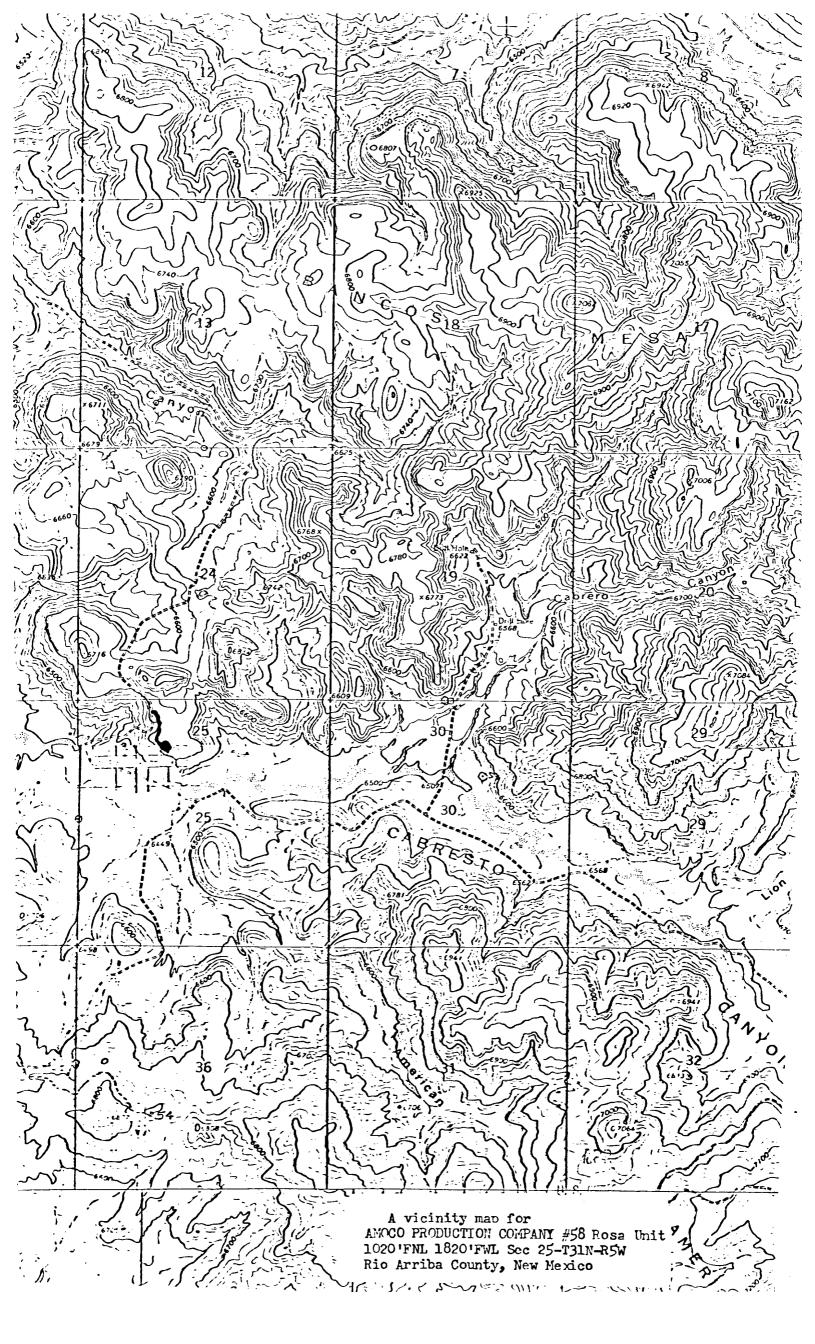






FARMINGTON AREA TRAFFIC SKETCH DENVER DIVISION Rosa Unit Well No. 58 Rio Arriba County, New Mexico Amoco WI: 50%





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(Other) (Ot	SHOOT OR ACIDIZE		ABANDON*				· —-
18. I bereby certify that the foregoing is true and correct SIGNED SIGNED TITLE Area Engineer DATE April 29, 1977 (This space for Federal or State since use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	REPAIR WELL		CHANGE PLANS				
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and sones pertinent to this work.) This is notification of a name change from the Rosa Unit No. 58 to the Rosa Unit No. 62 to prevent duplication of name with Northwest Pipeline Corporation. Is I hereby certify that the foregoing is true and correct SIGNED TITLE Area Engineer DATE April 29, 1977 (This space for Federal or State Africa use) Approved BY CONDITIONS OF APPROVAL, IF ANY:	(Other)				Completion or Reco	mpletion Report and Log for	m.)
18. I hereby certify that the foregoing is true and correct SIGNED TITLE Area Engineer (This space for Federal or State Diffice use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY: U. S. CECLORICA CARACTER.	to preven	t duplicati	ion of name wi	th Northw	est Pipeline Cor	poration.	
TITLE Area Engineer OATE April 29, 1977 (This space for Federal or State office use) Approved by Conditions of Approval, IF ANY: U. S. CECLORICAL CRAFT							· e
SIGNED SIGNED TITLE Area Engineer (This space for Federal or Statioffice use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY: U. S. GEOLOGICAL DANK!							
APPROVED BY CONDITIONS OF APPROVAL, IF ANY: U. S. GEOLOGICAL DELAY.	14	t the foregoing i		ITLEA	rea Engineer	DATE April	29, 1977
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*See Instructions on Reverse Side

Form 9-331

APPROVED BY _______ CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES

(May 1963)	DEPARTMENT OF THE INTER	(Other instructions on reverse side)	Budget Burea 5. LEASE DESIGNATION	u No. 42-R1424. AND SERIAL NO.
	GEOLOGICAL SURVEY		SF 078768	
	SUNDRY NOTICES AND REPORTS se this form for proposals to drill or to deepen or plug Use "APPLICATION FOR PERMIT—" for such		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1,			7. UNIT AGREEMENT NA	ME
	GAS WELL OTHER		Rosa Unit	
2. NAME OF OPERA			8. FARM OR LEASE NAM	E
AMOCO PRO	ODUCTION COMPANY		Rosa Unit	÷
3. ADDRESS OF OP			9. WELL NO.	
501 AIRPO	ORT DRIVE, FARMINGTON, NA. 87401		62	
4. LOCATION OF W See also space	ORT DRIVE FARMINGTON NM 87401 CELL (Report location clearly and in accordance with an 17 below.)	y State requirements.*	10. FIELD AND POOL, OF	R WILDCAT
At surface			Basin Dako	
1020' FNI	L & 1820' FWL, Section 25, T-31-N	, R-5-W	11. SEC., T., R., M., OR B SURVEY OR AREA	
			NE/4 NW/4	
14. PERMIT NO.	15. ELEVATIONS (Show whether I	OF. RT. GR. etc.)	T-31-N, R-	
14. PERMIT NO.	ı ·			
	6606' GL est		Rio Arriba	I NM
16.	Check Appropriate Box To Indicate	Nature of Notice, Report, or C	other Data	
	NOTICE OF INTENTION TO:	SUBSEQU	ENT REPORT OF:	
TEST WATER	SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W	VELL
FRACTURE TRE		FRACTURE TREATMENT	ALTERING CA	ASING
SHOOT OR ACI	IDIZE ABANDON*	SHOOTING OR ACIDIZING	ABANDONMEN	- I—I
REPAIR WELL	CHANGE PLANS	(Other)	Spud & Set Ca	
(Other)		(Note: Report results Completion or Recomple	of multiple completion etion Report and Log for	m.)
17. DESCRIBE PROP proposed we nent to this	OSED OR COMPLETED OPERATIONS (Clearly state all pertine ork. If well is directionally drilled, give subsurface loc work.)*	ent details, and give pertinent dates, mations and measured and true vertica	including estimated date l depths for all markers	e of starting any s and zones perti-
330 sx Cl casing wi to 3860', and 2# Me good ceme to 8169' Set 4-1/2	15" hole on 8/3/77. Drilled to 3 lass "B" cement with 2% CaCl ₂ . Cath 800 psi, 30 minutes, OK. Dri. Set 7-5/8" H-40 casing at 3860 and Tuf Plug per sx followed by 10 ant. WOC and pressure tested with and cut Core No. 1 from 8169-822 2" N-80 casing at 8375' with 750 uf Plug per sx, 6% Friction Reduction	irculated 35 sx cement lled to 3850' and ream 'with 1100 sx, Class 0 sx Class "B" Nest. h 800 psi for 30 minut 9'. Recovered 59'. D sx Class "B" cement wi	. WOC and pre- ed tight spot: "B" 50:50 Poz Circulated 30 N es. Continued willed to TD of th 50:50 Pozmi	ssure tested from 3480' , 6% Gel barrels drilling f 8375'. x, 6% Gel,
18. I hereby certi	Ify that the foregoing is true and correct	SE OIL	P 15 1977 CON. COM. DIST. 3	
SIGNED	Estroboda TITLE		DATE	
		irea Adm. Supvr.	9/13	177
(This space for	or Federal or State office use)			

*See Instructions on Reverse Side SEP 14 1077

S. S. MODEL IN LUMBY

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions. Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

G.P.O.: 1973-780-622 /VIII-148