Form 9-831 J (May 1963)		COP'	Y IO	SUBMI	r IN TRI r instruct		• Form approved. Budget Bureau No. 42-R1425.
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2. NAME OF OPERAT							Nellis Federal
Amoco Produ	uction Company						9. WELL NO.
	r A, Levelland, T	exas 79336					10. FIELD AND POOL, OR WHOCAT
4. LOCATION OF WE At surface	LL (Report location clearly a	and in accordance with			8.*)		Butta Porrenn - Morrow
	X 1980' FEL, Sec.	6, (Unit G,	SW/4	of NE/4)			11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
At proposed pro	d. zone			CEW			6-19-33
14. DISTANCE IN M	outheast of Malja	HAREST TOWN OR POS	TOWFICE		<u></u>		12. COUNTY OF FARISH 13 STATE
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18. DISTANCE FROM TO NEAREST W	PROPOSED LOCATION* ELL, DRILLING, COMPLETED,		19416	BBS DINEAR	ENCO		RY OR CABLE TOOLS
	ON THIS LEASE, FT.			14000'		K01	1 22. APPROX. DATE WOBK WILL START*
<u>3696.7 GR</u>	······································						6-25-78
23.		PROPOSED CASIN	NG AND	CEMENTING	PROGRA	М	
SIZE OF HOLE		WEIGHT PER F	00т	SETTING DEI	PTH		QUANTITY OF CEMENT
17 1/2".	13 3/8"	54.5#		450'			ulate
<u>12 1/2"</u> 8 3/4"	<u> </u>	<u>40#</u> 15.5#, 17#	<u>t</u>	<u> 5000' </u>			ulate back to 9 5/8"
	aluate; perforate m 0' - 4 450' - 50 5000' - 129	e and stimula 450' - Native 000' - Commer condit 500' - Commer	te as mud rcial cion rcial	s necessar and fresh mud and b mud and c	y in a water orine v sut br	attemp APPR r WHILE water ine wa	eaching TD logs will be ting commercial production OVAL ID FLARE GRANTED DRILLING AND TESTING." to maintain good hole ter tem and cut brine water.
		EE ATTACHE	d fo Appr	n .	,	Unless	Drilling Operations have sed, this drilling approval
	is to drill or deepen directi						uctive zone and proposed new productive d and true vertical depths. Give blowout
24.	A.C.					co)	F 0C 70
\$1GNED	N. Kouch	TIT		dmin. Anal	yst (56)	DATE5-26-78
(This space for	r Federal or State office use)						
PERMIT NO.	·			APPROVAL DATE _			
	APPROVAL, IF ANY :	TI1	CLB	* <u>*****</u> ******************************			AS AMENDED
0+5-USGS-F 1-Div	1						AS AMENDED
1-Susp		*C !		O. P	lide		JUN 20 1978
1-RC		"Jee Instru	ICTION\$	On Reverse S	nae		a.a.t.
							ACTING DISTRICT ENGINEER

NEW NOTICO OIL CONSERVATION COMMISSION WELL LOLATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

		All distances must be fi	on the outer bound	laries of the S	ection	
Operator Amoco	Production Co		Lease	Nellis F	ed.	Well No.
	ection	Township	Range	Cou	nty	L,,,,,,,,,,,_
G Actual Footage Locati	6	19 South	33 E	ast	Leo	
1000		North line and	1980	feet from	the East	line
Ground Level Elev.	Producing Fo	Mation WRROW	Pool Rue	ESIGNATED	1/	Dedicated Acreage:
3696.7		ted to the subject we			·····	160 Acres
I. Outline the	acreage dedice	ted to the subject we	it by colored p	enerr or na	chure marks on u	ie plat below.
2. If more than interest and		dedicated to the well	, outline each	and identify	the ownership t	hereof (both as to working
		ifferent ownership is o initization, force-pooli		well, have	the interests of	all owners been consoli-
Yes	No If a	nswer is "yes," type o	f consolidation			
	Harl line the	owners and tract desa	rintiona which	have actual	ly here convolid	ated. (Use reverse side of
It answer is this form if i			uptiona which		Ty been consolid	
						munitization, unitization,
	ng, or otherwise) or until a non-standar	1 unit, eliminat	ing such in	terests, has been	approved by the Commis-
sion.			الانتقادة تعاديهم ومعاومها			
	1		- 1		R	CERTIFICATION
	1	<pre>X</pre>	1		1 hereby	certify that the information con-
	1	.	l		11 1	rein is true and complete to the
		- 080	1		best of m	y knowledge and belief.
	1				Norte) (~
	- +				- NARE	men D.R. Couch
			l ,		Administ	rative Analyst (SG)
			198	<u>م</u> '	Company	1 0
	i 1			-	PDate Date	PRODUCTION COMPANY
	1)	1			-26-78
	<u>`</u>				~	a an Inn an Alban ann an Anna a' ann ann an Anna ann ann ann ann ann ann
	1				1 hereby	certify that the well location
City	GITULER		1.			this plat was platted from field
No.	TATE	<u></u>	, I			actual surveys made by me or supervision, and that the same
and a start	100	Δ.	ł			and correct to the best of my
	675		ł		knowledg	e ond belief.
	-+/5	<u>}/</u>				4/8/78
1-0	ALENCON				Date Survey	
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benerat benerat	percera		-			
0 330 660 '9'	0 1320 1680 19	60 2310 2640 2000	1800 10	00 800	0	Ronald J. Eldson 323

- 1. BOP'S TO BE FLUID ATED.
- 2. BOP'S AND ALL FITTINGS MUST BE IN GOOD CONDITION AND RATED AT 3000 PSI W.P. MINIMUM.
- 3. EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AT LEAST AS LARGE AS CASING SIZE BEING DRILLED THROUGH.
- 4. NIPPLE ABOVE BOP'S SHALL BE SAME SIZE AS LAST CASING SET.
- 5. UPPER KELLY COCK IS REQUIRED AND SHALL BE 3000# W.P. MINIMUM.
- 6. T. J. W. OR COMPARABLE SAFETY VALVE SHALL BE AVAILABLE ON RIG FLOOR WITH CONNECTION OR SUBS TO FIT ANY TOOL JOINT IN THE STRING. VALVE TO BE FULL BORE 5000# MIN.
- 7. VALVE NEXT TO SPOOL SHALL BE 4". OTHER EQUIPMENT MAY BE 3" OR 4". ALL CHOKE MANIFOLD EQUIPMENT SHALL BE FLANGED. FLOW LINE FROM MANIFOLD TO BE MINIMUM OF 3" AND STRAIGHT AS POSSIBLE WITH MINIMUM BENDS.
- 8. FLUID LINES FROM ACCUMULATOR TO BOP'S AND ALL REMOTE CONTROL FLUID LINES SHALL BE STEEL, AND RATED AT OR ABOVE MAXIMUM ACCUMULATOR PRESSURE. LINES SHALL BE ROUTED IN BUNDLES AND ADEQUATELY PROTECTED FROM DAMAGE.
- 9. USE RAMS IN FOLLOWING POSITIONS:*

	DRILLING	RUNNING CASING
UPPER RAM	DRILL PIPE	CASING
LOWER RAM	BLIND	BLIND

*AMOCO AREA SUPT. MAY REVERSE LOCATION OF RAMS.

 CHOKE MANIFOLD, BEYOND SECOND VALVE FROM CROSS MAY BE OPTIONALLY POSITIONED OUTSIDE OF SUBSTRUCTURE.

11. EXTENSIONS AND HAND WHEELS TO BE INSTALLED AND BRACED AT ALL TIMES.

12. TWO INCH (2") LINES AND VALVES ARE PERMITTED ON THE KILL LINE.



Nellis Federal Well No. 3 Unit G, 1980' FNL X 1980' FEL, Sec 6, T-19-S, R-33-E, Lea County, NM

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

3. Geologic name of surface formation.

Quaternary

4. Type of drilling tools and associated equipment to be utilized.

See Form 9-331 C

5. Proposed drilling depth.

See Form 9-331 C

6.	Estimated tops of important	geologic markers.
	Rustler 1510'	Wolfcamp 10800'
	Queen 4120'	Strawn 12130'
•	Delaware 5500'	Mid Morrow 13200'
	Bone spring 7560'	Mis Silic - 14000'
-		the tracked reaction of and on other

7. Estimated depths at which anticipated water, oil, gas or other mineralbearing formations are expected to be encountered. Delaware 5000' Wolfcamp 10800' Mid Morrow 10800'

8. Proposed casing program, including size, grade, and weight of each string and whether it is new or used.

Depth	<u>Size</u>	Weight	Grade	New or Used
450'	13 3/8"	54.5#	K-55	New
5000' 14000'	9 5/8" 5 1/2"	40# 15.5#, 17#	K-55 K-55	New New

9. Proposed cementing program. 13 3/8" csg - circulate to surface 9 5/8" csg - circulate to surface 5 1/2" csg - Tie back to 9 5/8"

- 10. Blowout Preventer Program is attached.
- 11. Type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling, and the quantities and types of mud and weighting material to be maintained.

Surf to 450' - Native mud and fresh water. 450' to 5000' - Commercial mud and brine water to maintain good hole conditions. 5000' - 12500' - commercial mud and cut brine water. 12500' to 14000' - commercial mud w/KCL for 6% system and cut brine water.

- 12. Testing, logging and coring programs to be followed with provisions made for required flexibility. CNL, FDC, GR W/caliper - 0' to 14000'. DLL W/Micro SFL GR 0' to 14000'
- 13. Any anticipated abnormal pressure or temperatures expected to be encountered or potential hazards, such as hydrogen sulfide gas, along with plans for mitigating such hazards.

None anticipated.

14. Anticipated starting date and duration of operation.

Start 6-25-78. Complete 7-25-78

15. Other facets of the proposed operation operator wishes to point out for the Geological Survey's consideration of the application.

None

ATTACHMENT T	FO FORM 9-331C	
APPLICATION	FOR PERMIT TO DRILL	

WELL NO. 3 LEASE <u>Nellis Federal</u>

LOCATION 1980' FNL X 1980' FEL, Sec 6, T-19-S, R-33-E

POOL Buffalo Penn (Morrow)

COUNTY Lea

The undersigned hereby states that Amoco's representative, Mr. E.E. Pauley personally contacted Smyer Ranch(Larry Squires)Lovington, NMthe @ww.@w/lessee of the surface land where the proposed work is to be conducted and advised him of the proposed work, the construction site and pertinent roads included in the project. It is further stated that, upon being fully advised of the extent of the work and the effect upon the surface, said owner has consented to the said work. and that -agreement as to the compensation for damages to the surface estate has been reached.

If the well is a producer, all pits will be cut, filled and leveled as soon as practical after the pits are dry. If the well is a dry hole, pits will be filled as above, a dry hole marker will be installed, and the location and pad will remain intact.

D.R. Couch

Administrative Analyst (SG)

Ν	lay	26,	1978	
Date				

Proposed Development Plan for Surface Use

Amoco Production Company's Nellis Federal Well No. 3, Unit G, 1980' FNL X 1980' FEL, Section 6, T-19-S, R-33-E, Lea County - (Development Well).

- Existing roads including location of exit from main highway. Detailed map showing drillsite location in relation to the nearest town and all existing roads within one mile of the wellsite are shown on Exhibit A. From Maljamar, go south on Hiway 33 for 14 miles, turn east on dirt road 5.3 miles, turn north .9 miles east.6 miles, north .6 miles. New lease road will be constructed 2640' north to well location.
- 2. Planned access roads.

Approx. 2640' new road will be built.

2. A second sec second sec

3. Location of existing wells.

All existing wells within one mile radius are shown on Exhibit C .

- 4. Location of tank batteries and flow lines.
 If the well is commercially productive, the production facilities (i.e. tanks, separators and treaters) will be located on the southeast end of the pad. See Exhibit D.
- 5. Location and type of water supply. Fresh water and brine water will be hauled from the nearest available source by commercial contractor. (I & W Inc. Loco Hills, NM)
- 6. Source of construction materials. (Contractor-New-Mex)

Caliche will be obtained from an existing pit located approximately 4 miles SW of well. NE/4 of SE/4 Sec. 15.

- 7. WASTE DISPOSAL
 - a. Drill cuttings will be disposed of in the reserve pit.
 - b. Drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry.

- c. Trash, waste paper, garbage and junk will be burned or buried with a minimum of 24" cover. Waste material will be contained to prevent scattering by wind prior to ultimate disposal.
- d. Any produced water will be contained in tanks and be disposed of in an approved manner. Oil produced will be stored in tanks until sold, at which time it will be hauled from location.
- e. Current laws and regulations pertaining to disposal of human waste will be complied with.
- f. If productive, maintenance waste will be placed in special containers and buried or hauled away periodically.
- 8. ANCILLARY FACILITIES -

No camps, airstrips, etc. will be constructed.

- 9. WELLSITE LAYOUT
 - a. Size of Drilling Pad -210' x 330' x 6"
 - b. Compacted Caliche
 - c. Surfaced No
 - d. 450' square area around wellsite has been cleared by archaeologist.
 - e. See Exhibit D.

10. RESTORATION OF SURFACE -

Producing Well - all pits will be cut, filled, and leveled as soon as practical to original condition with rehabilitation to commence following removal of drilling and completion equipment. Rehabilitation to be completed in 180 days if possible.

Dry Hole - same as above with dry hole marker to be installed and surface reseeded if required.

- 11. OTHER INFORMATION
 - a. Terrain Broad, flat plain, with low sand dunes.
 - b. Soil Sandy w/angular caliche inclusions
 - c. Vegetation Mesquite, oakbrush, yucca, sage brush, gramma grass.
 - d. Surface Use Grazing
 - e. Ponds and Streams None
 - f. Water Wells None
 - q. Residences and Buildings None
 - h. Arroyos, Canyons, etc. None
 - i. Well Sign Posted at drillsite.
 - j. Open Pits All pits containing liquid or mud will be fenced.
 - k. Archaeological Resources Drillsite, which is in broad, flat plain is in a low environmental risk area. The total effect of drilling and producing in this area would be minimal. No known archaeological, historical, or cultural sites exist in the drill or road areas.

LEASE .& WELL	NUMBER	Nellis	Federal	Well	No. 3		•		
OCATION	Unite 198		Y 1980	• E I	Sec	6. T-19-S.	R-33-E .	Lea	County

<u>Certification</u>: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

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 subcontractors in comformity with this plan and the terms and conditions under which it is approved.

<u>May 26, 1978</u> DATE -

Sr. Drlg. Foreman

12. OPERATOR'S REPRESENTATIVE -

Field personnel responsible for compliance with development plan for surface use is:

J. H. Hankins, Senior Drilling Foreman P. O. Drawer "A" Levelland, TX 79336 Office Phone: 806-894-3163





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Agency for Conservation Archaeology

2 May 1978

Mr. Bob Couch Amoco Production Company P. O. Drawer A Levelland, TX 79336

Dear Mr. Couch:

Enclosed please find the Agency for Conservation Archaeology's clearance report for Amoco Production Company. No archaeological sites, or isolated manifestations, were recorded during ACA's reconnaissance.

If I may be of further service to you, do not hesitate to call me at (505) 562-3332.

Yours sincerely, L.D.

(r./J. Loring Haskell Director - Principal Investigator

met

Enclosure

Archaeological Clearance Report

Amoco Production Company

Bondurant Federal #5 Nellis Federal #3 Nellis Federal "B" Gas.Com. #1 Dunn Federal #1

by

Scott C. Schermer

Submitted by

Dr. J. Loring Haskell Director - Principal Investigator Agency for Conservation Archaeology Eastern New Mexico University Portales

2 May 1978

INTRODUCTICN

An archaeological reconnaissance was completed recently by the Agency for Conservation Archaeology (ACA), Eastern New Mexico University, Portales, for Amoco Production Company in Lea County, New Mexico. Investigated areas will be impacted by well locations and associated accesses. This project was administered for Amoco by Mr. Bob Couch, field representative, and for ACA by Dr. J. Loring Haskell, Director - Principal Investigator. The investigation was headed by Scott C. Schermer and was undertaken on 28 April 1978 under excellent weather conditions. This reconnaissance was performed under Federal Antiquities Permit 78-NM-015.

SURVEY TECHNIQUE

Each location was walked in a series of parallel 15 ft wide, overlapping, zigzag transects from north to south and thence south to north. In addition, a strip of land measuring 20 ft on each side was investigated as well. Associated access roads were walked in a close interval, 25 ft wide, zigzag pattern. These techniques combined permitted a maximum of visual examination.

Bondurant Federal #5

LOCATION

This location measures 400 X 400 ft and is situated 1980 ft from the south line and 1980 ft from the east line of the:

 SE_{4}^{1} , Section 12, T19S, R32E, NMPM, Lea County, NM (BLM) More specifically, it lies in the: $NW_{4}^{1}SE_{4}^{1}$, Section 12, T19S, R32E, NMPM, Lea County, NM (BLM)

1

LOCATION

This location measures 400 X 400 ft and is situated 1980 ft from the north line and 1980 ft from the east line of the:

 NE_{4}^{1} , Section 6, T19S, R33E, NMPM, Lea County, NM (BLM)

More specifically, it lies in the:

 $SW_{4}^{1}NE_{4}^{1}$, Section 6, T19S, R33E, NMPM, Lea County, NM (BLM)

Nellis Federal #3's associated access measures 12 X 2640 ft and will pass through the:

 $SW_{4}^{1}SE_{4}^{1}$, Section 6, T19S, R33E, NMPM, Lea County, NM (BLM) $NW_{4}^{1}SE_{4}^{1}$, Section 6, T19S, R33E, NMPM, Lea County, NM (BLM) $SW_{4}^{1}NW_{4}^{1}$, Section 6, T19S, R33E, NMPM, Lea County, NM (BLM)

Map Reference: USGS Laguna Gatuna Quadrangle, 15 minute series, 1962.

TERRAIN

Locally, the area is characterized by stabilized dunes and deflation basins. Calcareous sandy clay loams underlie the area as a whole. Pea-sized caliche and quartzite inclusions constitute less than 1% of soil individuals. Local soils belong to the Haplargid-Torripsamment Association.

FLORISTICS

The floral assemblage is dominated by <u>Quercus havardii</u>, <u>Yucca glauca</u>, <u>Artemisia filifolia</u>, <u>Prosopis juliflora</u>, <u>Senecio longilobus</u>, and <u>Circium</u> sp. Graminae is represented by <u>Bouteloua</u> sp. and <u>Distichlis stricta</u>. Plant density averages 25 to 30%.

CULTURAL RESOURCES

No archaeological sites, or isolated manifestations, were recorded during this reconnaissance.

RECOMMENDATIONS

ACA recommends clearance for Nellis Federal #3 and its associated access and suggests that construction proceed without modification of existing plans.

Nellis Federal "B" Gas Com. #1

LOCATION

This location measures 400 X 400 ft and is situated 1980 ft from the north line and 1980 ft from the west line of the:

NW¹/₄, Section 5, T19S, R33E, NMPM, Lea County, NM (BLM) More specifically, it is situated in the: SE¹/₄NW¹/₄, Section 5, T19S, R33E, NMPM, Lea County, NM (BLM) The proposed access road will measure 12 X 2770 ft and will pass through the:

 $SW_{4}^{1}SE_{4}^{1}$, Section 5, T195, R33E, NMPM, Lea County, NM (BLM) SE $_{4}^{1}SW_{4}^{1}$, Section 5, T19S, R33E, NMPM, Lea County, NM (BLM) NE $_{4}^{1}SW_{4}^{1}$, Section 5, T19S, R33E, NMPM, Lea County, NM (BLM) SE $_{4}^{1}NW_{4}^{1}$, Section 5, T19S, R33E, NMPM, Lea County, NM (BLM)

Map Reference: USGS Laguna Gatuna Quadrangle, 15 minute series, 1962.

TERRAIN

Topographically, this area is distinguished by stabilized dunes and deflation basins. Areal soils are sandy clay loams and loamy sands which taxonomically belong to the Haplargid-Torripsamment Association.

FLORISTICS

The floral community is distinguished by a predominance of <u>Yucca glauca</u>, <u>Gutierrezia sarothrae</u>, <u>Prosopis juliflora</u>, <u>Artemisia filifolia</u>, <u>Quercus havardii</u>, <u>Perezia nana</u>, <u>Senecio longilobus</u>, <u>Bouteloua gracilis</u>, <u>Stipa neomexicana</u>, <u>Sporabolus</u> sp., and <u>Distichlis stricta</u>. HOBBS DISTRICT

Amoco Production Company No. 3 Nellis Federal SW¼NE¼ Lea County, New Mexico

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
- 2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
- 3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
- 4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plugback work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
- 5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
- 6. Operator will provide the dirt contractor with a copy of the enclosed Bureau of Land Management "Standard Requirements for all Drilling in Relation to Oil and Gas Activities in the Roswell Distrct" prior to commencing construction of road, pad, or other associated developments.
- 7. In the event the oil or gas test results in a dry hole, the drill pad and access road will be ripped in accordance with "BLM Roswell District's Ripping Recommendations for Caliche or Compacted Drill Pads and Access Roads". (Reseeding of the affected areas may be required at the discretion of the BLM authorized officer).
- 8. All ripped surfaces are to be protected from vehicular travel by constructing a dead-end ditch and earthen barricade at the entrance to these ripped areas. The barricade is to be constructed using spoil material from the ditch and should be of sufficient magnitude to discourage vehicle entry.
- 9. All above ground structures, not subject to applicable conservation and safety requirements, shall be painted to blend with the natural surroundings unless alternate colors for specific equipment are requested and approved. The paint used should be a nonglare, nonreflective, flat, or semi gloss that simulates Fed. Stand. No. 595, color 30318.

- 10. After setting the 9-5/8" casing string and before drilling into the Pennsylvanian formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.
- 11. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the Pennsylvanian formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:
 - (1) A recording pit level indicator to determine pit volume gains and losses.
 - (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
 - (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.