					a de par
Form 9-331 C (May 1963)			SUBMIT IN TR	Budge	approved. t Bureau No. 42-R1425,
(NIRY 1903)		ED STATES	(Other instruction reverse si	00 -	
	DEPARTMENT	OF THE INTER	RIOR		IGNATION AND SEBIAL NO.
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DK b. TYPE OF WELL					
	AS OTHER		INGLE NELTIP		
2. NAME OF OPERATOR				9. WELL NO.	e "B" Federal
AMOCO Produc	tion Company		· <u> </u>		
	A, Levelland,	TX 79336			POOL, OR WILDCAT
	teport location clearly and		State requirements.*)		e Mattix- Queen
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24.	Λ				
BIGNED KA	y W. Cox	TITLE	Administrative S	upervisor DATE_	3-27-78
(This space for Fede	or State office use)				.
	· ····,				
PERMIT NO			APPROVAL DATE		
APPROVED BY					
CONDITIONS OF APPRO				AS AME	NDED
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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION F

Form C-10, Supersedes C+128 Effective 1+1-65

Ciperator		All distances must be fr	on the outer boundaries o	f the Section	
	co Production Co.		Longlies	В	Well No.
Chit Letter D	5e tuen T 15	25 South	Range 37 East	County	
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2. If more t interest a	han one lease is de nd royalty).	dicated to the well,	outline each and ide	ntify the ownership	thereof (both as to working
	an one lease of diffe communitization, unit	rent ownership is de ization, force-pooling	dicated to the well, 3. etc?	have the interests o	f all owners been consol
[] Yes	No If answ	er is "yes," type of	consolidation		
If answer					ated. (Use reverse side o
this form i	f necessary.)		HILLI DAVE AC	iually been consolid	ated. (Use reverse side a
No allowat	le will be assigned to	o the well until all in	terests have been c	onsolidated (by com	munitization, unitization
sion.		mun a non-standard i	init, eliminating such	h interests, has been	munitization, unitization approved by the Commis
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			WW.WEST	Registered Fr and/or Land S	tessional Engineer

OIT COME WAR NOW BLGLIT

NITACIMENT "B" STANDARD 2000 PSI W.P. BOP STACK

- 1. BLOW-OUT PREVENTERS MAY BE MANUAL OPERATED.
- 2. ALL DOULPTENT MUST BE IN GOOD CONDITION, 2,000 PSI W.P. (4,000 PSI TEST) MININUM.
- 3. BELL NIPPLE ABOVE BLOW-OUT PREVENTER SHALL BE SAME SIZE AS CASING BEEKG DRILLED THROUGH.
- 4. KELLY COCK TO BE INSTALLED ON KELLY.
- 5. FULL OPENING SAFETY VALVE 2,000 PSI W.P. (4,000 PSI TEST) MINIMUM, MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUBS TO FIT ANY TOOL JOINT IN STRING.
- 6. SPOOL OR CROSS MAY BE FLIMEWATED IF CONNECTIONS ARE AVAILABLE IN THE LOWER PART OF THE BLOW-OUT PREVENTER BODY.
- 7. DOUBLE OR SPACE SAVER TYPE PREVENTERS MAY BE USED IN LIEU OF TWO SINGLE PREVENTERS.
- 8. BOP RAMS TO BE INSTALLED AS FOLLOWS:*

TOP PRIMINTER - DRILL PIPE OR CASING RAMS BOTTOM PREVENTER - BLIND RAMS

*AMOOD AREA SUPT. MAY REVERSE LOCATION OF RAMS.

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

10. MANIFOLD VALVES MAY BE GATE OR PLUG METAL TO METAL SEAL 2" MINIMUM.



Attachment to "Application for Permit to Drill", Form 9-331 C

Langlie "B" Federal Well No. 4

Unit D, 990' FNL X 400' FWL, Section 15, T-25-S, R-37-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 - 1060' Queen - 3400' Yates - 2690'

7. Estimated depths at which anticipated water, oil, gas or other mineralbearing formations are expected to be encountered.

Queen - 3400'

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

Depth	Size	Weight	Grade	New or Used
1100'	8-5/8"	32#	K-55	New
3700'	5-1/2"	15.5#,17#	K-55	New

9. Proposed cementing program.

8-5/8" csg - Circulate to surface 5-1/2" csg - Circulate to surface

- 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 1100' - Native mud and fresh water 1100' to 3700' - Commercial mud and brine water to maintain good hole conditions.

12. Testing, logging and coring programs to be followed with provisions made for required flexibility.

CNL, FDC, GR W/Caliper - Surf. to TD DLL W/Micro SFL - Surf to TD

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 5/18/78 . Complete 5/30/78.

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

None.

ATTACHMENT TO FORM 9-331C

APPLICATION FOR PERMIT TO DRILL

LEASE Langlie "B" Federal

WELL NO. ____4

LOCATION Unit D, 990' FNL X 400' FWL, Sec. 15, T-25-S, R-37-E

POOL Langlie Mattix Queen

COUNTY Lea

The undersigned hereby states that Amoco's representative, Mr. E. E. Pauley, personally contacted <u>Mr. Ralph Wrinkle</u>, the owner/XDOSSOCE 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.

an W. Co Rav W. Cox

Administrative Supervisor

3-28-78 Date

Proposed Development Plan for Surface Use

Amoco Production Company's Langlie "B" Federal Well No. 4, Unit D, 990' FNL X 400' FWL, Sec. 15, T-25-S, R-37-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 Jal, go east on Hwy 128 1.8 miles. Turn north on paved road .8 mile. 300' of new road will be built east to location. See Exhibit B.
- Planned access roads.
 300' new road will be built using caliche
- 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 souteast end of the drilling pad. See Exhibit D.
- 5. Location and type of water supply.

Fresh water and brine water will be hauled from Jal, New Mexico by XL Transport Co., Jal, New Mexico

6. Source of construction materials.

Caliche will be obtained from an existing pit located approximately .2 mile southwest of location. SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 15, T-25-S, R-37-E See Exhibit B.

- 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.

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

No camps, airstrips, etc. will be constructed.

- 9. WELLSITE LAYOUT -
 - Size of Drilling Pad 220' X 150' X 6" a.
 - Compacted Caliche b.
 - Surfaced No c.
 - 300' square area around wellsite has been cleared by archaeologist. d.
 - See Exhibit D. e.
- 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.

- OTHER INFORMATION -11.
 - Terrain Broad, flat plain. a.
 - Soil Sandy clay loams w/angular caliche inclusions. b.
 - Vegetation Broom, snakeweed and mesquite с.
 - Surface Use Grazing. d.
 - Ponds and Streams None. e.
 - Water Wells None. f.
 - Residences and Buildings Lea County Airport located south of well. g.
 - Arroyos, Canyons, etc. None. h.
 - Well Sign Posted at drillsite. i.
 - Open Pits -All pits containing liquid or mud will be fenced. j.
 - Archaeological Resources Drillsite, which is in broad, flat plain k. is in a low environmental risk area. The total effect of drilling and producing would be minimal. No known archaedogical, historical, or cultural sites exist in the drill or road areas.

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 LEASE & WELL NUMBER Langlie "B" Federal Well No. 4

LOCATION Unit D, 990' FNL X 400 ' FWL, Sec. 15, T-25-S, R-37-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.

3-28-78 DATE

<u>auflins</u> Sr. Drlg. Foreman ITLE



Agency for Conservation Archaeology

17 March 1978

Mr. Bob Couch Amoco Production Co. 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 cultural resources were recorded during the course of this reconnaissance.

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

Yours sincerely, stel J. Loring Maskell Dr. Principal Investigator Director

dlg

Enclosure

Archaeological Clearance Report

:

for

.

Amoco Production Company

Federal	Н	#1
Langlie	A	#3
Langlie	В	#3
Langlie	В	#4

by

Dr. J. Loring Haskell

Submitted by

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

16 March 1978

INTRODUCTION

An archaeological reconnaissance was recently completed by the Agency for Conservation Archaeology, Eastern New Mexico University, Portales, for Amoco Production Company on federal lands in Lea County, New Mexico. Reconnoitered locations will be impacted by the construction of oil wells as well as accesses in two instances. The project was administered by Mr. Bob Couch, Amoco Production Company, and Dr. J. Loring Haskell, Director - Principal Investigator, Agency for Conservation Archaeology. Dr. Haskell undertook the project on 15 March 1978 under excellent weather conditions. The reconnaissance was performed under Federal Antiquities Permit No. 78-NM-015.

SURVEY TECHNIQUE

The drill locations were walked in a series of overlapping, zigzag, 15 ft wide transects from north to south and thence south to north. This technique was repeated until each location had been thoroughly investigated for evidence of man's past activities. The proposed right-of-way was reconnoitered by walking it in a close interval, 25 ft wide, zigzag pattern. Utilized field techniques ensured a thorough examination of areas of primary and secondary impact.

Federal H #1

Location

The proposed location is situated 660 ft from the south line and 1980 ft from the west line and will measure 400 X 400 ft. It is located in the:

 $SE_{4}^{1}SW_{4}^{1}$, Section 26, T23S, R33E, NMPM, Lea County, New Mexico (BLM) Map Reference: USGS Hat Mesa Quadrangle, 15 Minute Series, 1968.

The proposed access will measures 12 X 600 ft and will pass through the: SE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 26, T23S, R33E, NMPM, Lea County, New Mexico (BLM)

Map Reference: USGS Hat Mesa Quadrangle, 15 Minute Series, 1968.

Terrain

Topographically, the local landform consists of an essentially flat and featureless plain. Soils are sandy loams and tend to be deep and non-calcareous. Soil individuals are Typic Haplargids and strong brown (7.5YR 4/6 dry) in color.

Floristics

The dominant plants in the area are <u>Prosopis julilfora</u> and <u>Gutierrezia</u> <u>sarothrae</u>. <u>Prosopis</u> occurs as low shrub throughout the immediate area. Plants are spaced at regular intervals but do not occur in thickets. In addition, <u>Yucca glauca is well represented locally as is Senecio longilobus and Eriogonum</u> <u>wrightii</u>. <u>Croton texensis</u>, <u>Condalia ericoides</u>, <u>Opuntia macrocentra</u>, and <u>Acacia</u> <u>vernicosa are sporadic</u>. A solitary, but unidentified, specimen of <u>Echinocereous</u> was observed in the area. Principal grasses are <u>Aristida sp. and Scleropogon</u> brevifolius.

Cultural Resources

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

Recommendations

ACA recommends clearance for the proposed Federal H #l and suggests that construction proceed without modification of existing plans.

Langlie A #3

Location

The proposed location is situated 660 ft from the south line and 1980 ft from the west line and measures 400 X 400 ft. It lies in the:

 $SE_{4}^{1}SW_{4}^{1}$, Section 9, T25S, R37E, NMPM, Lea County, New Mexico (BLM) Map Reference: USGS Jal NW Quadrangle, 7.5 Minute Series, 1969.

The proposed location adjoins an existing right-of-way, and hence, no additional access is needed.

Terrain

Local terrain is distinguished by a flat plain which rises gradually toward the west. Drainage is in the direction of the southeast. Angular caliche cobbles are strewn about the immediate area and average 6 to 10 cm in diameter. Soils are sandy clay loams and are brown (lOYR 5/3 dry) in color. Areal soil individuals are assignable to the Typic Paleorthid sub-group and are highly calcareous and thin.

Floristics

For all intents and purposes, the floral assemblage is composed entirely of <u>Prosopis juliflora and Gutierrezia sarothrae</u>. Grasses are scarce and unidentifiable. A solitary Ferocactus sp. was observed in the immediate vicinity.

Cultural Resources

Contemporary trash is present in the area and is composed of tin cans, galvanized metal containers, metal drums, glass, et cetera. No archaeological sites were recorded.

Recommendations

ACA recommends clearance for the Langlie A #3 and suggests that construction proceed without modification of existing plans.

Langlie B #3

Location

The proposed location is situated 2130 ft from the north line and 400 ft from

the west line and measures 400 X 400 ft. It is located in the:

 $SW_{44}^{1}NW_{44}^{1}$, Section 15, T25S, R37E, NMPM, Lea County, New Mexico (BLM) Map Reference: USGS Jal NW Quadrangle, 7.5 Minute Series 1969.

The proposed location adjoins an existing right-of-way, and hence, will require no additional access.

Terrain

A broad, flat plain serves to demarcate this locality. It tends to rise on the west with slope toward the southeast. Soil individuals are sandy clay loams with angular caliche inclusions. Associated detritus averages 4 to 15 cm in diameter. Soils are taxonomically assignable to the Typic Paleorthid sub-group.

Floristics

The area, as a whole, is marked by a nearly purely stand of <u>Gutierrezia</u> <u>sarothrae</u>. Grass species are scarce to non-existant. <u>Ferocactus</u> sp. and <u>Opuntia</u> <u>macrocentra</u> do occur but are infrequent. Several specimens of <u>Prosopis</u> juliflora are present.

Cultural Resources

Contemporary trash litters the entire area but tends to be concentrated on the west side of the location. Trash consists of a wide array of twentieth century cultural detritus, viz., rubber tires, 3-gallon cans, tin cans of assorted types, springs and so forth. No archaeological sites were recorded at this location.

Recommendations

ACA recommends clearance for Amoco's Langlie B #3 and suggests that construction proceed without modification of existing plans.

Langlie B #4

Location

The proposed location is situated 400 ft from the west line and 990 ft from the north line and measures 400 X 400 ft. It is located in the:

 $NW_{4}^{1}NW_{4}^{1}$, Section 15, T25S, R37E, NMPM, Lea County, New Mexico (BLM) Map Reference: USGS Jal NW Quadrangle, 7.5 Minute Series, 1969.

The proposed access measures 12 X 300 ft and will pass through the:

 $W_2^1 N W_4^1 N W_4^1$, Section 15, T25S, R37E, NMPM, Lea County, New Mexico (BLM) Map Reference: USGS Jal NW Quadrangle, 7.5 Minute Series, 1969.

Terrain

Local physiography is composed of a flat and featureless plain. Soils are thin, sandy clay lomas with angular caliche inclusions. The immediate area is distinguished by numerous mounds, probably the remains of old bore holes, which are literally riddled with krotovinas. Associated soils are grayish brown (10YR 5/2 dry). Elsewhere, soils are brown (10YR 5/3 dry). All soils are taxonomically Typic Haplargids.

Floristics

<u>Gutierrezia sarothrae and Prosopis juliflora</u> are co-dominant at this locality. <u>Croton texensis</u> occurs sporadically throughout the area as do several unidentified grasses. <u>Atriplex canescens</u> is abundant along the extreme eastern edge of the location.

Cultural Resources

No cultural resources were recorded during the course of this reconnaissance.

Recommendations

ACA recommends clearance for Amoco's proposed Langlie B #4 and suggests that construction proceed without modification of existing plans.







	Amoco Production Company	<u>PILE</u>
SUBJECT DRI	LL SITE DIMENSION	PATE 10-29-76
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U. S. Geological Survey

HOBBS DISTRICT

Amoco Production Co. No. 4 Langlie "B" Federal NW¼NW¼ sec. 15-25S-37E 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, plug-back 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. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.

	-ISSUED COMPLETION Langlie Mattix	© Copyrighted Reproduction Prohibited
NO 4 LEASE Langlie "B" H	Indown 1	API 30-025-25900
Sec 15, T25S, R37E		MAP CO ORD
990' FNL, 400' FWL of 3 mi NE/Jal		11-2-40 NM
8 5/8" at 1100' w/550 sx 5 1/2" at 3700' w/700 sx		10-20-78 N D 1.1.1 FORMATION DATUM
DRY & ABANDONED	10 3700' (QUEN)	Рво 3654'

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CONTR	<u>Cactus</u>	#60					_			
	<u>_uactus</u>	1100	OP	RSELEN	31201	01		07001		
						GL	PD	3700'	RT	
									TT	,

5–25–78 6–2–78 6–23–78	<pre>F.R. 4-17-78 (Queen) Drlg 333' TD 1100'; WOC TD 3700'; PBD 3654'; Swbg Perf (Queen) 3352-58', 3384-88', 3458-64', 3467-72', 3481-93', 3542-45' w/2 SPF Acid (3352-3545') 2350 gals (15%)</pre>
6-27-78	TD 3700'; PBD 3654': Swbe
7-7-78	Swbd 3 BO + 139 BLW in 11 hrs (3352-3545') TD 3700'; PBD 3654'; RUP Swbd 5 BO + 48 BLW + 26 BNW in 5 hrs (3352-
7-12-78 7-26-78	3545') TD 3700'; PBD 3654'; WO Pmp TD 3700'; PBD 3654'; TOP

11-2-40 NM

LEA AMOCO PRODUC	CTION CO.	Langlie Mattix NM 4 Langlie "B" Federal Page Sec 15, T25S, R37E	#2
7-26-78	Continued Ppd 3 30 + 3	111 BW in 24 hrs (3352-3545')	
8-2-78	TD 3700° ; P1 Ppd 3 B0 +	BD 3654'; TOP 103 BW in 24 hrs (3352-3545')	
8-9-78	Ppd 1 80 +	BD 3654'; TOP 100 BW in 24 hrs (3352-3545')	
8-18-78	Ppd 119 E7	10 3654'; TOP in 24 hrs (3352-3545')	
8-24-78	Ppd 111 3W	BD 3654'; TOP in 24 hrs (3352-3545')	
9-18-78	TD 3700'; P Ppd 4 BO +	25D 3654'; WOSP 11 BW in 24 hrs (3352-3545')	
		11-2-40 NM	

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4-16-79	TD 3700'; Dry & Abandoned Rig Released 6-2-78
11–11–78	COMPLETION ISSUED
4–21–79	RE-ISSUE OF SUSPENDED COMPLETION

11-2-40 NM IC 30-025-70127-78