Form 9-331 C (May 1963)	DEPARTMEN'	-	NTEF	. (Oth	T IN TR er instruc reverse sto		Budget Bureau No. 42-R14:
						A C1/	LC-031736 (b) 6. IF INDIAN, ALLOTTER OB TRIBE NAMI
APPLICAII	ON FOR PERMIT	IO DRILL, I	JEEPI	EN, OR PL	JUG B		
	DRILL 😡	DEEPEN [PLU	G BAC	K 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL WELL 2. NAME OF OFERATOR	GAS OTHER				MULTIPL ZONE	. E	8. FARM OR LEASE NAME Gillully "B" Federal
	ction Company		[h	<u>) E o E i</u>			9. WELL NO.
3. ADDRESS OF OPERAT		70226	ľ	【塩の作し			19 10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL	A, Levelland, TX (Report location clearly and	19550 lin accordance wit	h any S	Statestennen	ts		Wildcat-E llenburger
At surface 1980' FNL >	(1980' FEL (Unit	G, Sec. 21)				11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod.	-	-	U.	S. GEOLOGK Hobbs, Nev			21-20-37
14. DISTANCE IN MIL	ES AND DIRECTION FROM NEA	REST TOWN OR POS			• •••(~)		12. COUNTY OR PARISH 13. STATE
4 miles sou	th of Monument, N	I.M.					Lea NM
15. DISTANCE FROM P LOCATION TO NEA PROPERTY OR LEA	ROPOSED* REST		16. NG	0. of acees in 1 800 '	LEASE	17. NO. C TO TI	TF ACHEN ASSIGNED
18. DISTANCE FROM I TO NEAREST WEL	PROPOSED LOCATION* L, DRILLING, COMPLETED,		19. PR	10500 '			RY OR CABLE TOOLS
OR APPLIED FOR, ON	THIS LEASE, FT. whether DF, RT, GR, etc.)			10500)tary 22. Approx. Date work will start
	3510.2 GR						May 13, 1978
23.]	PROPOSED CASIN	IG ANI	CEMENTING	PROGRA	м	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F		SETTING DE	PTH		QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#		1200'		Circ.	to surface
12 1/4"	8 5/8"	24#		5000'			to surface
8 3/4"	5 1/2"	15.5#,17#		10500'		lieb	back to 8 5/8"
stimulate a Mud - O'	ning TD, logs and as necessary in at - 1200' - Native - 10500' - Brine	ttempting control mud and fro water and s	ommer esh w suffi	rcial prod vater. icient com	uctior	1.	
BOP Program		ain good ho					
Archaeologi	cal Reconnaissand	ce attached	•				TIONS OF TOPOL VAL
	to drill or deepen direction:						uctive zone and proposed new producti d and true vertical depths. Give blowo
24.	n/d						
BIGNED	FRIONCE	/тіт	LE	Admin. Ana	lyst (SG)	DATE <u>5-3-78</u>
(This space for h	ederal or State office use)						
FERMIT NO		·		APPROVAL DATE .			
APPROVED BY $_$ CONDITIONS OF APP O + 5 - US(1 - Div	GS-H		LE	•			AS AMENDED
1 - Sus 1 - RC		*See Instru	ctions	On Reverse S	Side		MAY 1 1 1978

NEW F TICO OIL CONSERVATION COMMISSION WELL LC SATION AND ACREAGE DEDICATION PL. 5

		All distances must be fi	rom the outer boundaries	of the Section		
Operator		•	Lease	И., ари г . (Well No.
Amo I'nit Letter	co Production C	Township	Bange Gillu	Ily "B" Fed.		19
G	21	20 South	37 East		`Lea	
Actual Footage Loo 1980	feet from the	North line and		feet from the E	ast	line
Ground Level Elev. 3510.2		LENBURGER	WILDCAT	-	Dedic	ated Acreage; 40 Acres
1. Outline th	he acreage dedice	ated to the subject we			on the pla	
	han one lease is ind royalty).	dedicated to the well	, outline each and i	dentify the owners	ship thereo	f (both as to working
		lifferent ownership is c unitization, force-pooli		l, have the interes	ats of all o	wners been consoli-
Yes	No If a	nswer is "yes," type o	consolidation			
]f answer	is "no," list the	owners and tract desc	riptions which have	actually been con	solidated.	(Use reverse side of
No allowa	•	ed to the well until all) or until a non-standard				
	 	+	1		CER	TIFICATION
			. 	- toi	ned herein is	that the information con- true and complete to the
	1 1	- <mark>- 08</mark> 61	1	bes	st of my know	lødge and belief.
·					4 	e Analyst (SG)
•	1					
	i i i			5	4000 K	BUCTION CUMANN
		6	NEER &			that the well location at was plotted from field
	1 1 1		SUNTE OS	CURVE is	ler my superv	surveys made by me or ision, and that the some rect to the best of my elief.
	+ I I		NAW MEXIC		4/4 Surveyed	/78
					itered Protess or Land Survey	lonal Engineer
	<u>l</u>		I		m.	Uliost-
G 330 660	·•0 1320 1650 161	0 231C 2640 2000	1800 1000	BOQ 6	JOI	in W. West 676 191 <u>1 J. Eidson 3239</u>

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

ALLMANNA 30002 W.P. 200-700 109

- 1. BOD'S TO BE LIGHT OPERATED.
- 2. DOP'S AND MAL PERFERRED LARGE BE THEODO CONDUCTER AND INCIDENT 3000 PSL
 - S.P. PINGUS.
- 3. DETUDITU THURKOT VITCH DIT THUR DASH SDALL DE AT LIVET AS LANDE AS CASING STEE PEL'S DRILLED AND AND
- 4. MINTER ABOVE POP'S CHEER BY SALE STREET AS LAST CASENCESS.
- 5. LEPER RELATION IS REQUIRED AND SHALL BE BOOM V.P. PROPERT.
- 6. T. I. W. OR COMPREMENT SAFETY VALATI SUPLE BE MATHABLE OF RIG FLOOR METH CONSECTION OR SUBS TO FUT MAY TOOL JOINT DI THE STRING. VALME TO BE FUIL HORN SOODE LITH.
- VALATE NEWS TO SERVE SUMMERS 4". OTHER PODIFICITY INY FOR 3" OR 4". ALL CHOKE MONTFOLD POULT FOR SHALL BE FLANGED. BEOS LINE FROM INCLPOID TO BE 7. PRIME OF 3" AND STRAIGHT AS POSSIBLE WITH CHREATER DELICS.
- 8. HAULD LINES FROM ACCULULATION TO ROP'S MED ALL REPORT CONTROL FILLID LINES SHALL III STERE, NO PARED AT ON NOVE FAMILIE ACCREDIATOR PRESENTS. LINES STALL BE DUTED IN EUROLES AND ADEQUATELY PROTECTED FROM DAVAGE.

NINHING CASING

9. USE RAWS IN FOLLOWING POSITIONS:*

-	DRULLING	
UPPER RAM	DRILL PIPE	EL12D
LOALE FIN	BLIED	CV21KQ

*A DOO AND A SUPT. MAY INVERSE LOCATION OF PANS.

- 10. GROUT INVEFOLD, REYCHED SECOND VALME FROM CROSS MAY BE OPTIONPILLY POSITIGHED OUNSIDE OF SUBSTRUCTURE.
- 11. ETHISIOIS AND HAND MEETS TO BE INSTALLED AND BRACED AT ALL THES.



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

Gillully "B" Federal Well No. 19, 1980' FNL X 1980' FEL, Section 21, T-20-S, R-37-E, Lea County, New Mexico

1. Location

See attached Form C-102

2. Elevation.

See attached Form C-102

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

	Estimated tops of Rustler - Queen - Penrose - Paddock -	3370' 3450'	Drinkard Abo -	- 6500' 7050'	Silurian Fusselman Montoya Simpson McKee	- - - -	8220'Ellenburger-101 9100' 9550' 9850' 10130' mineral-
7.	Paddock - Estimated depths	at which a s are expe	nticipated cted to be	encounter	r, gas or oc red.		

۶.

bearing formations are expected by Abo = 7050'Queen = 3370' Abo = 7050' Paddock = 5020' Penn = 7680' Tubb = 6290' Ellenburger = 10140'

Tubb - 6290' Ellenburger - 10140 . 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
1200'	13-3/8"	48#	K-55	New
5000'	8-5/8"	24#	K-55	New
10500'	5-1/2"	15.5 <u>#</u> ,17#	K-55	New

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

Surface to 1200' - Native mud and fresh water. 1200' - 10500' TD - Brine water sufficient commerical mud to maintain good hole conditions.

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

Surface to 10500' - Dual laterolog-Micro SFL. Surface to 10500' - Compensated Neutron Formation density.

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 May 15, 1978. Complete June 15, 1978.
- 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				•		
APPLICATIO	ON FOR PERMIT TO DRILL						
LEASE G	illully "B" Federal	لار 	·	WELL NO.	<u>]</u>	9 ⁻	
LOCATION	Unit G, Section 21; T-2	20-S, R-37	-E .		•		
POOL	Wildcat						
COUNTY	Lea	State	New Mexico)	•	· · · · · ·	

The undersigned hereby states that Amoco's representative, Mr. E.E. Pauley personally contacted W.T. Stradley (SW Cattle Co.) , the owner/bossec 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. Louch

Administrative Avaluer (56)

May 4, 1978 Date Proposed Development Plan for Surface Use

32

- Existing roads including location of exit from main highway. Detailed map showing drillsite location in relation to nearest town and all existing roads within one mile of the wellsite are shown on Exhibit A. From Monument, N.M., go south on paved road 4 miles, turn east at cattleguard on dirt lease road .2 mile, turn south on 1300' new lease road to wellsite.
- Planned access roads.
 1300' new road caliche
- 3. Location of existing wells.

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

- 4. Location of tank batteries and flow lines.
 - If the well is commercially productive, the producing facilities (i.e. tanks, separators, & treaters) will be located on the southeast end of drilling pad. See Exhibit "D".
- Location and type of water supply.
 Water to be hauled from 3 miles south of Monument, N.M.
- 6. Source of construction materials.

Caliche will be obtained from an existing pit located 1 mile NE of the well location. NW/4 NW/4 Section 22, T-20-SR-37-E. $\langle See Exhibit C^* \rangle$

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 220' x 150" x 6"
 - b. Compacted Caliche
 - c. Surfaced No
 - d. 300' 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 - Undulating plain with small depressions formed by wind & water erosion.

- b. Soil Deep loamy sands.
- c. Vegetation Sparse, Catclaw, greasewood, sage & Shinoak.
- d. Surface Use Grazing.
- e. Ponds and Streams None
- f. Water Wells None
- g. 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 undulating plain, semiarid, desert country, is in a low environmental risk area. The total effect of drilling and producing in this area would be minimal. No known archeaological historical, or cultural sites exist in the drill area.

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 Gillully B Federal Well No. 19.

LOCATION UnitG, 1980' FNL X 1980' FEL, Sec. 21, T- 20 S, R- 37 E, Lea County

Certification: 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.

May 4, 1978 DATE

NAME AND TITLE Sr. Drlg. Foreman



DOTTED LINES ARE PROPASSED (8 LACATION READS õ ŏ ,R ê 2 // 0 0 GILLULLY B LURSE RO e₈ 10 5 WELL No. 19 1170 20 1170 21 21 1340' 475 11 Ø -{¹³ 475 22 Dur -| 12 | 12 1330' 1420 0 1020 0 26 1020' 27 1220' Ky 28 1020' 27 1220' 124 28 15 Ø· 14 34 3β 3.

WILLIS 19-30

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Gillullv

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	Amoco Production Comparts
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	Scale - I
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	REA.
	8'
	8 LIGHT PLANT 100'
	·
	PRODUCTION FACILITIES TO BE LOCATED 12'WIDE ROAD X 130
·	HERE IF WELL IS PRODUCTIVE
·	(TANKS, SEPARATOKS, TREATERS, DEHYDRATORS, ETC.)
	LLAR_SIZE
· · · · · · · · · · · · · · · · · · ·	5'X 5'X 4'
* 	AMOCO PRODUCTION COMPANY
	GILLULLY "B" FEDERAL WEILS#19
	JEC. 21 T-20-5, R-37-E
المن مور من من من من مروم من مروم المن المن المن المن المن المن المن الم	LIEA CO. N.M.
	EXHIBIT. "D'
	and a summary and the second sec



3 May 1978

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

Dear Mr. Couch:

Enclosed please find the Agency for Conservation Archaeology's clearance report for Amoco Production Company. Other than contemporary trash, no archaeological sites, or isolated manifestations, 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, estal !!

askell Loring Л. Dr(Pricipal Investigator ector

dlg

Enclosure

· Archaeological Report

. 2

Amoco Production Company

Gillully "B" Federal # 19 Gillully "B" Federal # 20 Gillully "B" Federal # 21 Gillully "B" Federal # 22 Gillully "B" Federal # 23 Gillully "B" Federal # 24 Gillully "B" Federal # 25 Gillully "B" Federal # 26 Gillully "B" Federal # 27 Gillully "B" Federal # 27 Gillully "B" Federal # 28 Gillully "B" Federal # 29 Gillully "B" Federal # 30 And Proposed accesses to these locations

Langlie B Tract 1 Federal #6

by

Dr. J. Loring Haskell

Submitted

by

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

1 May 1978

INTRODUCTION

An archaeological reconnaissance was recently performed by the Agency for Conservation Archaeology (ACA), Eastern New Mexico University, Portales, for Amoco Production Company in Lea County New Mexico. Reconnoitered areas will be impacted by a series of drill locations and access roads. The project was administered for Amoco by Mr. Bob Couch and for ACA by Dr. J. Loring Haskell, Director - Principal Investigator. Dr. Haskell and Scott C. Schermer undertook the project on 26 April 1978 under excellent field and weather conditions. (78-NM-015)

SURVEY TECHNIQUE

Each location was walked in a series of zigzag, north-south and thence south to north transects which measured 15 ft in breadth. Areas lying immediately outside these locations were reconnoitered as well, i.e., a zone measuring an additional 20 ft on all sides. Accesses were investigated by walking them in a close interval, 25 ft wide, zigzag transect. These techniques combined served to maximize the visual examination of areas of primary and secondary impact.

Gillully "B" Federal #19

Location

The proposed pad measures 300 X 300 ft and is situated 1980 ft from the north line and 1980 ft from the east line of the:

NE¹, Section 21, T2OS, R37E, NMPM, Lea County, New Mexico (BLM)

More specifically, it is situated in the:

 $SE_{4}^{1}NE_{4}^{1}$, Section 21, T2OS R37E, NMPM, Lea County. New Mexico (BLM)

The associated access will be discussed below.

Map Reference: USGS Monument Quadrangle, 15 Minute Series, 1963.

1

Terrain

Local terrain consists of a level plain overlain by stabilized coppice dunes. Soils are Typic Haplargids and contain little or no inclusions.

Floristics

Principal plants in the area include <u>Quercus havardii</u>, <u>Bouteloua eriopoda</u>, <u>Artemisia filifolia</u>, <u>Gutierrezia sarothrae</u>, and <u>Yucca glauca</u>. <u>Quercus</u> is dominant throughout the area.

Cultural Resources

No archaeological sites, or isolated manifestations, were recorded during ACA's reconnaissance.

Recommendations

ACA recommends clearance for the proposed location and suggests that construction proceed without modification of existing plans.

Gillully "B" Federal #20

Location

• This location measures 300 X 300 ft and is situated 1930 ft from the north line and 760 ft from the east line of the:

NE¹/₄, Section 21, T2OS, R37E, NMPM, Lea County, New Mexico (BIM)

More specifically, it is located in the:

SE¹/₄NE¹/₄, Section 21, T2OS, R37E, NMPM4, Lea County, New Mexico (BLM)

The associated access will be discussed below.

Map Reference: USGS Hobbs SW Quadrangle, 7.5 Minute Series, 1969.

Terrain

Local terrain consists of a virtually level plain distinguished by low coppice

U. S. Geological Survey

HOBBS DISTRICT

Amoco Production Co. No.19 Gillully B Federal SW¼NE¼ Sec. 21-20S-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.