Form 3160-3 (November 1983)

(Other instructions on

Budget Bureau No. 1004-0136

D

(formerly 9-331C)	Alversa, UN		reverse s	lde)	Expires Augus	t 31, 1985
		NT OF THE INT			5. LEASE DESIGNATION	AND BERIAL NO.
<del></del>	BUREAU	OF LAND MANAGEM	ENT		LC-028793-	C.
APPLICAT	ION FOR PERMIT	TO DRILL, DEE	PEN, OR PLUG I	3ACK	6. IF INDIAN, ALLOTTE	B OR TRIBE NAME
a. TYPE OF WORK						
b. TYPE OF WELL	DRILL 🖾	DEEPEN	PLUG BA		7. UNIT AGREEMENT I	NAME.
WELL XX	WELL OTHER		ZONE Z ZONE		8. FARM OR LEASE NA	,
NAME OF OPERATO	a ps Petroleum Com	2000	RECE	AED	Burch-C Fee	d
. ADDRESS OF OPERA		paliy			9. WELL NO.	
	enbrook St., Ode	ssa. TX 79762	rco 1	22'88	47	· .
	L (Report location clearly		V State requirements •)	-2 00	Grayburg Jacks	
At surface Uni	it P, 660' FEL &	660' FSL		C. D.	11. BBC., T., R., M., OR	
At proposed prod.	zone Unit P, 660'	EEI 2 6601 ECI	U.	A, OFFICE	AND SURVEY OR A	REA
and proposed proc.	. some office F, door	TEL & OOU TSL		ix P	Sec. 30, T-	17-S, R-30-
	ES AND DIRECTION FROM N		rice.		12. COUNTY OR PARISH	
l mile	South and West	of Loco Hills, N	NM		Eddy	NM
. DISTANCE FROM P LOCATION TO NEA	REST	560'	NO. OF ACRES IN LEASE	17. NO. O	F ACRES ASSIGNED	<u> </u>
PROPERTY OR LEA (Also to nearest	SE LINE, FT. drlg. unit line, if any)		1115.20 ac.	10 TH	IIB WELL 40	
. DISTANCE FROM : TO NEAREST WEL	PROPOSED LOCATION®		PROPOSED DEPTH	20. ROTAB	RY OR CABLE TOOLS	<del>-</del>
OR APPLIED FOR, ON	THIS LEASE, FT.	to #32	3600'	Rotary	•	\$
unprepa	whether DF, RT, GR, etc.) ared GL 3599				22. APPROX. DATE WO	
				<del></del>	upon approva	al ·
		PROPOSED CASING A	ND CEMENTING PROGRA	M		; ;
SIZE OF HOLE	SIZE OF CABING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT
12-1/4"	/-	24#	350 <b>'</b>	350 sk	Class C	
7-7/8"	5-1/2"	14#	3600'	Calipe	r vol. plus 30	0%(*)
			Lead slurry: C	lass "C	" + 10% NaC1 +	+ 20% Diace
	•	•	Tail Slurry: C	lass "C	" Neat	
	,	*Circ. to Surfa	CO			* *
		Date: to build				
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				$\circ$		-
//				tos	ST IU FULL S	
ABOVE SPACE DESCR	IBE PROPOSED PROGRAM · If	nronosal is to deepen or	plug back, give data on pr	N L	2.26-88	
	se farm or acchem arrection	ally, give pertinent data	on subsurface locations and	i measured:	ctive sone and proposed and true vertical depths	new productive Give blowout
venter program, if	any.		maps			
	Il Morolla	P.	ac Cunomitan D		1 (00 (0)	^
8IGNED	W. J. Muello	TITLE	ng. Supervisor, R	.eservo1	1/20/8	8 . <u>.</u>
(This space for the	ederal or State office use)					
PERMIT NO			APPROVAL DATE			<del></del>
DDBAUPS DU					DATE 2-1	988
APPROVED BYCONDITIONS OF APPR	OVAL, IF ANY :	TITLE			DATE	, , ,

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

### OIL CONSERVATION DIVISION

# P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

		All distances must be	from the our	ter boundaries of t	he Secti	on.		
Operator PHILL	IPS PETROLE	UM COMPANY	Lease	BURCH "C	" FED	ERAL	Well No.	<del>,</del>
Unit Letter	Section	Township	Rang	76	County			
P	30	17-S		30E		EDDY		
Actual Footage Loc		OUTH line and	6.6	s 0		- FAST		
Ground Level Elev.	feet from the S		6 6	O feet	from the	EAST	line Dedicated Acreage:	
3599'	1	Andres	,	ourg-Jackson	1-7R-(		40	
1. Outline the	acreage dedicate	d to the subject w		<del></del>		<u> </u>		Acres
	an one lease is d	edicated to the wel						orking
dated by co	mmunitization, uni	ferent ownership is tization, force-pooli	ng. etc?		ive the	interests of	all owners been co	onsoli-
∐ Yes [	No If ans	wer is "yes;" type o	f consolid	lation				
If answer is this form if	"no," list the own	mers and tract desc	riptions w	hich have actu	ally be	en consolidat	ed. (Use reverse s	ide of
No allowable forced-pooling	e will be assigned ng, or otherwise) or	to the well until all until a non-standard	interests I unit. eli	have been con	nsolida interes	ted (by comm	unitization, unitiz	ation,
•						to, has been a	phroved by the Div	/1310A.
r	1 5 000	°58'E 5/5	24'					
	D	°58' E 5/3	34 B i		A		CERTIFICATION	
	i		!		ľ	1/. /		
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	<u>+</u> +	<sub>F</sub>	<sub>G</sub> - -	<del></del>	- <sub>H</sub> -(	Nome W.	. Mueller	
References	: <u>Bearing</u>	Distanc	<u>;e</u>	Elevation	<u> </u>	Position		
08	N 45° E	283'	į	3601.7'			rvisor, Reserv	oir ———
25	N 45° W	283'	i	3596.0'	80	Company  Philling	Petroleum Comp	nu
4)	S 45° W	283'	i	3599.9'	52	<del></del>	recrotediii comp	any
	S 45° E	283'	1	3601.4'		1/19/88		
	L	К	<u>ј</u>		I			
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N O RTH	į.		1	l l	0		ual surveys made by	
8				1	20	1	ervision, and that the	
			1 1	lo-	1	1	correct to the best o	
			i	27		knowledge an	d belief.	
	<u>_ + </u>	- <sub>N</sub> +		4 4 4		2 10 10 10 10 10 10 10 10 10 10 10 10 10	14444 14444 14444 14444 14444 14444	
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	i	#32	¥ 1	1320'	-60' F	RICHARD	B. DONIVEN	
	& PROPOSED	LSE. PO.N 89°27' W			60'-	Registered Prot	ossignal Enginee	
	i		1,	40 ac, 660'	ŧ	Charles and	01/2	
	N 89°5	59'W 5203'			-	Certificate No.	is frame	ne
330 660 60	1320 1650 1980 23	10 2640 2000	1500	1000 500		7111	14882	

## PHILLIPS PETROLEUM COMPANY BURCH-C FED WELL NO. 47

## DRILLING PROGNOSIS

1.	Location	of	Proposed	Well:	Unit P,	660'	FEL	&	660'	FWL	of	Sec.	30,	T-17	7 <b>-</b> S.
					R-30-E,	, Eddy	Cour	ity	/ Nev	v Me	Kic	0			

- Unprepared Ground Elevation: 3599' 2.
- The geologic name of the surface formation is tertiary. 3.
- Type of drilling tools will be rotary. 4.
- 5. Proposed drilling depth is 3600'.
- The estimated tops of important geologic markers are as follows: 6.

Tertiary	Surface
Rustler	265'
Salt	565'
Tansill	1090'

Yates	1215'
Queen	2230'
Grayburg	2600'
San Andres	30801

The estimated depths at which anticipated water, oil, gas, or other mineral 7. bearing formations are expected to be encountered are as follows:

Water:

None

0il:

Grayburg 26001 San Andres 3080'

8. The proposed casing program is as follows:

Surface String 8-5/8" 24# K-55 @ 350' Production String 5-1/2" 14# K-55 ST&C @ 3600'

9. Cement Program:

Surface String = 350 sx Class 'C' + 2% CaCl<sub>2</sub> circulated to surface

Production String = Caliper Volume Plus 30% Lead: Class "C" + 10% NaCl + 20% Diacel D

Tail: Class "C" Neat

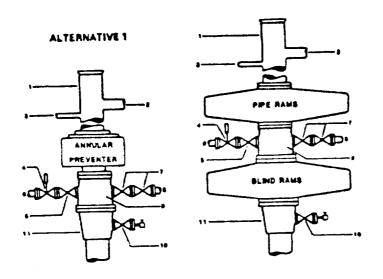
Circulated to surface

10.	The minimum specifications for pressure control equipment which are to used, a schematic diagram thereof showing sizes, pressure ratings (or) series and the testing procedure and testing frequency are attached.	be API
11.	The proposed mud program is attached.	
12.	The testing, logging, and coring programs are as follows:  D.S.T.'s or cores: None	
	Logs: DLL-MSFL-GR CNL-LithoDensity-GR-Caliper	
		-
	Special Tests: None	· · · · · ·
13.	Anticipate no abnormal pressures or temperatures to be encountered or other potential hazards such as Hydrogen Sulfide Gas. Low risk $\rm H_2S$ eq ment will be used.	any uip-
14.	The anticipated starting date is immediately upon approval with durati operations for approximately 30 days thereafter.	on of
15.	Water Supply: Trucked	

16. Caliche for road and pad construction to be obtained from: Federal Pit-SW/4 of Sectio 19, T-17-S, R-30-E, Eddy County, New Mexico

# FIELD PRACTICES AND STANLARDS

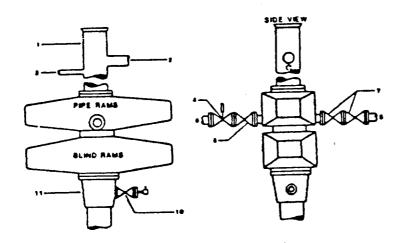
#### ALTERNATIVE 2



- 1. BELL HIPPLE
- 2. PLOW LINE
- 2 FILLUP LINE
- 4. 2" FE PRESSURE OPERATED CHOKE LINE VALVE
- S. 7 FE GATE VALVE
- & 2" FE CHOKE LINE TO MANIFOLD
- 7. 2" FE GATE VALVES
- 4. 2" FE KILL LINE
- . DRILLING SPOOL
- 10. 2" SE OR FE GATE VALVE WITH NEEDLE
- VALVE
- 11. CASING HEAD HOUSING

NOTE. THE DRILLING SPOOL MAY BE LOCATED BELOW BOTH SETS OF RAMS IF A DOUBLE PREVENTER IS USED AND IT DOES NOT HAVE SUITABLE OUTLETS BETWEEN RAMS

Figure 7-9. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 1



- 1. BELL HIPPLE
- 2. FLOW LINE
- 1 FILL AP LINE
- 4 2 FE PRESSURE OPERATED CHOKE LINE
- VALVE
- S. I' FE GATE VALVE S. I' FE CHOKE LINE TO MANIFOLD
- 7. T FE GATE VALVES
- & T FE KILL LINE
- 10. T' SE OR FE GATE VALVE WITH NEEDLE VALVE
- 11. CASING HEAD HOUSING

Figure 7-10. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

#### BLOWOUT PREVENTER REQUIREMEN

#### Well Name: Burch-C Fed Well No. 47, Fed Lease No. LC-028793-C

- I. Blowout preventer equipment, installation, testing and responsibilities will be in accordance with Phillips Petroleum Company's Blowout Preventer Standards.
- II. Figure Nos. 7-9 or 7-10 (Drawing Attached): Casing String 8-5/8", 5-1/2" BOP Size: 8-5/8"; Working Pressure 3000 psi
- III. Equipment to be furnished by Contractor:
  - A. Ram Type BOPs:
    - 1. No. Required two
    - 2. Acceptable Manufacturers & Types
      - a. Cameron Iron Works: QRC; F; SS; U
      - b. Shaffer Tool Works: B; E; LWS; LWP
      - c. Hvdril
  - B. Annular Type BOPs:
    - 1. No. Required none
    - 2. Acceptable Manufacturers & Types
      - a. Hydril GK
      - b. Shaffer Spherical
      - c. Cameron D
  - C. Preventer Operating Equipment
    - 1. Hydraulic Pump air, steam or electrically operated of sufficient volume and pressure capacity to close the largest ram type preventer in less than 30 seconds. Electrically operated pump must be equipped with explosion proof motor and controls.
    - 2. Manifold with a control valve for each preventer.
    - 3. A Hydril or equivalent regulator for each annular type preventer.
    - 4. Accumulator of sufficient volume and pressure capacity to close all preventers in the assembly without recharging. If the pump in C.1. is incapable of recharging the accumulator in excess of 1500 psi, a separate pump capable of this is to be furnished.
    - Remote control panel with a station for each preventer control valve.
    - 6. Steel piping to connect hydraulic closing units to preventers.
    - 7. Choke manifold with seamless steel piping and flanged or clamp hub connections. Choke manifold assembly and piping sizes as specified, on the attached drawing. All working lines, except hydraulic closing lines, shall have flanged or clamp hub connections to preventers, spools and casing heads.
    - 8. Full opening drill string safety valve (I.D. equal or larger than I.D. of tool joint in use). Working pressure to equal or exceed specified BOP working pressure. O.D. and configuration such that valve can be run in the hole with adequate clearance.
    - Full opening upper Kelly cock. Working pressure to equal or exceed specified BOP working pressure.

#### III. C.(continued)

- 10. Hydraulic pump of sufficient pressure rating to test preventer assembly to rated working pressure with necessary hose and fittings to connect the pump to drill pipe box or safety valve pin.
- 11. Drilling spool for use with single ram type preventers or with dual ram type preventers which do not have outlets between the rams.
- 12. Two valves on each side of drilling spool or dual preventers, one side for choke manifold connection and the other for kill line connection.
- 13. Hand wheels and extensions for manual operation of the ram type preventers. U-joints, extension guides, working platform(s) as necessary.
- 14. A 1" 5000 psi WP plug valve on the closing side of the annular type preventer using a XXE 1" X 4" nipple.
- 15. Flowlines from choke manifold to pits.
- 16. Pressure gauge with pressure range at least equivalent to BOP WP.
- IV. Equipment to be Furnished by Phillips:
  - A. Test plug to seat in casing head.
  - B. Remote controlled chokes, if installed.
  - C. Casinghead with valves on outlets.
  - D. Inside blowout preventer, if required.
  - E. Mud-gas separator, if required, and necessary piping.
- V. Location of Equipment & Controls:
  - A. Remote control panel on the rig floor adjacent to drillers position and stairway exit from the floor.
  - B. Accumulator-Hydraulic Control Valve Unit to be placed minimum of 50 feet from well bore in easily accessible location.
  - C. Choke Manifold located 5 feet or more from the BOPs with minimum number of turns in the run.
  - D. Manual closing facilities installed so handwheels are outside the substructures in unobstructed location. U-joints, extension guides and working platforms installed as necessary for proper and safe operation.
  - E. Choke Manifold connection, where possible, is to be made between the two bottom ram type preventers through use of a drilling spool or by connecting between rams of dual type units with outlets so installed.
    - 1. On dual type preventers where outlets are not installed between rams, connection is to be made to a drilling spool installed between the ram type and annular type preventers.

#### V. (Continued)

- F. Position and Type Rams will be as shown on the attached drawing.
- G. Fill up line to be tied into the bell nipple above annular preventers.
- H. Safety Valve, open with connections and/or subs available to fit any tool joint in use, shall be on the rig floor at all times.

#### VI. Testing

A. Initial Installation Test

Immediately after installation, each component part of the blowout preventer assembly including choke lines, valves and closing facilities will be tested individually by steps as outlined in the Blowout Preventer Testing Procedure section of Phillips' Blowout Preventer Standards. The test pressure will be at the working pressure specified in Item II. All components must be satisfactorily tested before drilling out.

B. Ram Change or Repair Test

- 1. After each ram change or when any component part of the preventer assembly, including lines and valves, is disturbed, the disturbed portion is to be tested to working pressure specified in Item II.
- 2. Installation of casing rams is not required for running casing.

C. Weekly Pressure Test

The first trip out of the hole after 12:01 AM, Tuesday, weekly test will be performed as outlined in the Blowout Preventer Testing Procedure which includes testing the entire assembly with water to 1/2 the specified working pressure for 10 minutes. The Kelly cock and safety valve are to be tested to the specified working pressure. The weekly test is not required where the test falls within three days after the initial installation test.

D. Operational Test

Each preventer unit is to be closed and opened on each trip or at least once each 48 hours (trip is not required just to actuate blind rams or pipe rams that do not fit top section of tapered string).

#### VII. Responsibilities

- A. Contractor is to install and test the blowout preventer assembly as specified.
- B. The driller is to check and record the accumulator pressure on the daily drilling report at the beginning of each tour.
- C. Expense of rig time and pressure testing services for initial and weekly tests will be borne by:
  - 1. Contractor while on footage contract.
  - 2. Owner while on daywork contract.

BURCH C FED #47 660 FSL & 660 FEL, Sec. 30 T-17-S, R-30-E Eddy County, New Mexico

