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Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

					D. LEASE DESIGNATION AND SERIAL NO
AU OF LAND MANA	GEMENT				LC-028793-C
MAIT TO DOIL	DEEDEN	OP.	PLUG	DACK	6. IF INDIAN, ALLOTTER OR TRIBE NAM

MULTUPLE

H CLON

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TTPE OF WORK DRILL 🔯 DEEPEN PLUG BACK \square b. TYPE OF WELL

MELL X

WELL _ 2. NAME OF OPERATOR Phillips Petroleum Company

3. ADDRESS OF OPERATOR

Room 401, 4001 Penbrook St., Odessa, Texa

4. LOCATION OF WELL (Report location clearly and in accordance with a Unit C, 330' FNL & 2580' FWL

At proposed prod. some Unit C, 330' FNL & 2580' F

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OF 2 miles NW of Loco Hills, NM

2 1987

7. UNIT AGREEMENT NAME

S. FARM OR LEASE NAME Burch-C Fed

D. WELL NO. 45

10. FIBLD AND POOL, OR WILDCAT Grayburg-Jackson-7R-Q-C-SA

11. SSC., T., R., M., OR BLE. AND SURVEY OF ARRA

Upon Approval

Sec. 23, T-17-S, R-29-E

12. COUNTY OR PARISE | 18. STATE Eddy NM

22. APPROX. DATE WORK WILL START®

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FI 16. NO. OF ACRES IN LEASE NO. OF ACRES ASSIGNED 330' FNL TO THIS WELL 1.115.20 (Also to nearest drig. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION®
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 000 WSW to #17 19. PROPOSED DEPTH 3500'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3602.3 (Unprepared)

PROPOSED CASING AND CEMENTING PROGRAM

SISE OF ROLE	BIZE OF CASING	WEIGHT PER POOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	350'	400 sk Clacarcultate Cacl2 (*1)
7-7/8"	5-1/2"	17#	3500'	Circ. to surface using caliper
				vol. + 30% excess (*2)

(*1) Circ. to surface

(*2) Lead: 800 sk Class C + 10% Diacel D + 9#/sk salt

500 sk Class C + 5#/sk salt

APPROVED BY

23.

This unorthodox location has been previously approved by New Mexico Oil

Conservation Division Order No. R-7914

This location shares proration unit with Burch-C Fed well No. 17.

Posted ID-1 NL, API 1-9-87

IN ABOVE SPACE/DESCRIBE/PROPOSED PROGRAM: If proposed is to deepen or plug back, give data on present productive sone and proposed new productive sone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, 12-35

24. SIGNEE

Eng. Supervisor, Reservoir

12/18/86

Cherles S. Danien

Area Manager

CONDITIONS OF APPROVAL, IF ANY :

Subject to Like Approval hy Stata

*See Instructions On Revenue Side

APPROVAL SUBJECT TO 3 1.84 GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

ATTACHED

HEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

3239

RONALD J EIDSON

Weil No. perator 45 Burch C - Federal PETILIPS PETROLEUM COMPANY County Township Section Fridy 29 Enst 17 South 23 Actual Foctage Location of Well: west north feet from the Dedicated Acreage: Producing Formation Pool Ground Level Elev. Grayburg-Jackson-7R-Q-G-SA 40 San Andres Acres 30 12.3 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and idRECEIVEOvBYship thereof (both as to working interest and royalty). JAN -2 1987
well, have the interests of all owners been consoli-3. If more than one lease of different ownership is dedicated to th dated by communitization, unitization, force-pooling, etc? O. C. D. ARTESIA, OFFICE If answer is "yes." type of consolidation ☐ No Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (I'se reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION 2643.2 ~ 3603.9' 2580 that the information con-- 3601.7 Engineering Supervisor, Res Phillips Petroleum Company December 18, 1986 2639.25 I hernby certify that the well location on on this plat was plotted from field my supervision, and that the same true and carrect to the best of my knowledge and belief. Date Surveyed ec 3, 1996 Registered Erotessional Engineer 676

...

330

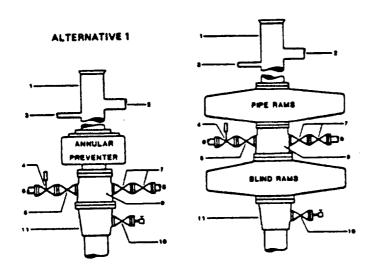
660

1320

1880

FIELD PRACTICES AND STANDARDS

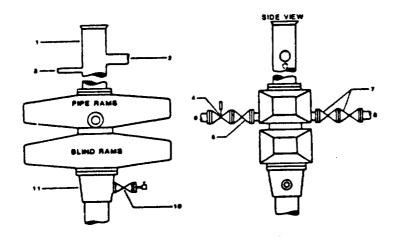
ALTERNATIVE 2



- 1. BELL NIPPLE
- 2. FLOW LINE
- 3. FILL-UP LINE
- 4. 2" FE PRESSURE OPERATED CHOKE LINE VALVE
- S. 2" FE GATE VALVE
- & 2" FE CHOKE LINE TO MANIFOLD
- 7. 2" FE GATE VALVES
- 8. 2" FE KILL LINE
- 8. DAILLING 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 NIPPLE
- 2. FLOW LINE
- 3. FILL UP LINE
- 4. 2" FE PRESSURE-OPERATED CHOKE LINE VALVE
- 8. 2" FE GATE VALVE
- & 2" FE CHOKE LINE TO MANIFOLD
- 7. 2" FE GATE VALVES
- 8. 2" FE KILL LINE
- 10. 2" 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)

Well Control 4 January/83



PHILLIPS PETROLEUM COMPANY

Burch-C Fed, Well No. 45, Federal Lease No. LC-028793-C

DRI	LLING PROGNOSIS
1.	Location of Proposed Well: 330' FNL and 2580' FWL of Section 23, T-17-S, R-29-E
2.	Unprepared Ground Elevation: 3602.3
3.	The geologic name of the surface formation is <u>Typic Torripsamment</u> Subgroup/Kermit-Berino Series
4.	Type of drilling tools will be rotary
5.	Proposed drilling depth is 3500'
6.	The estimated tops of important geologic markers are as follows:
	Tertiary Surface Yates 960'
	Rustler 190' Queen 1855'
	Salt 330' Grayburg 2190'
	Tansill 805' San Andres 2525'
7.	The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows: Water: Fresh water - None Salt water - 1855' Grayburg & San Andres 2190'-2600'
8.	The proposed casing program is as follows:
	Surface String <u>8 5/8", 24#/ft., K-55, ST&C</u> Production String <u>5 1/2", 17#/ft, K-55, ST&C</u>
9.	Cement Program: Surface String = Circulate to surface with 400 sacks of Class 'C' + 2% CaCl ₂ . WOC 18 hrs. Test casing to 1000 psi for 30 min.
	Production String = Circulate to surface using caliper volume plus 30% excess. Lead: 800 sk Class 'C' + 10% Diacel D + 9#/sk salt. (Slurry weight 13.2 ppg, Slurry yield 2.07 cu ft/sk, 11.0 gal. wtr/sk.) Tail: 500 sx Class 'C' + 5#/sk salt. (Slurry weight 15.0 ppg, Slurry yield 1.35 cu ft/sk, 6.3 gal. water/sk. If water flow is encountered while drilling, perform job at max. rate & then SI BOP 4 hours.

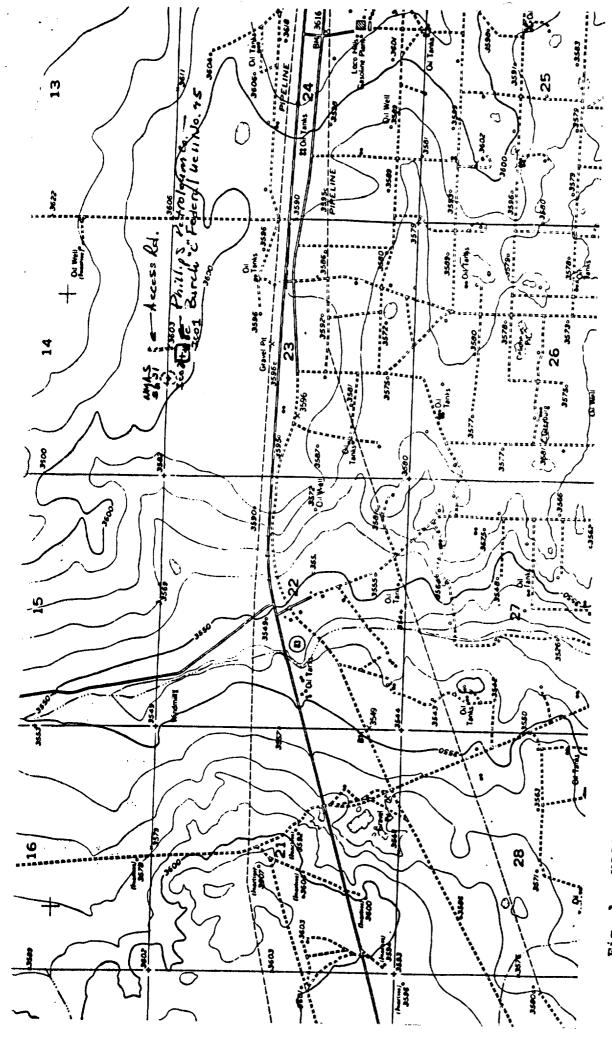
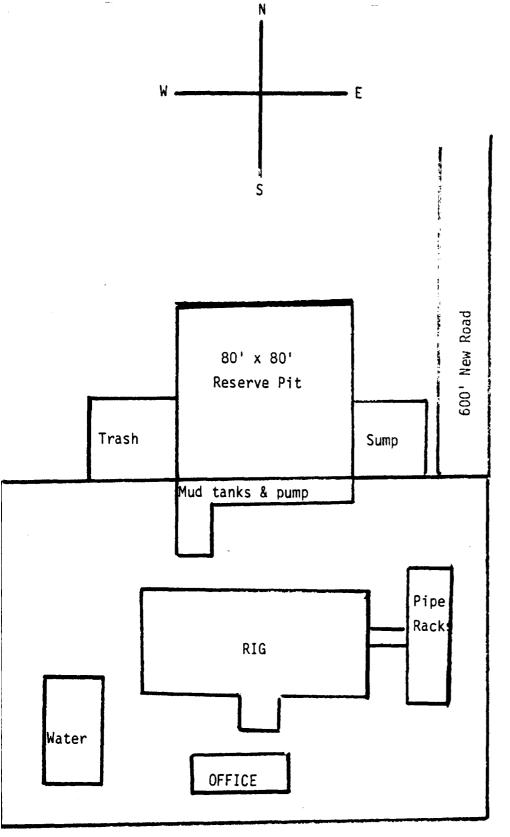


Fig. 1. USGS RED LAKE SE QUADRANGLE, 7.5 Minute Series, 1;24,000, 1955, showing PHILLIPS PETROLEUM COMPANY'S proposed Burch "C" Federal Well No. 45, 330 FNL, 2580 FWL, and access road, Sections 14 and 23, T17S, R29E, NMPM, Eddy County,



250' x 250' BURCH-C FED WELL NO. 45