

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

Room 711, Phillips Building, Odessa, Texas 79761

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

(Unit K) 1980' FS&W Lines

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20 miles west-northwest to Loco Hills

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any)

3300

16. NO. OF ACRES IN LEASE

640+

17. NO. OF ACRES ASSIGNED
TO THIS WELL

640

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

5280' to #13

19. PROPOSED DEPTH

12,800'

20. ROTARY OR CABLE TOOLS

rotary

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

3595.5' GR

22. APPROX. DATE WORK WILL START*

Upon approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13-3/8"	54.5#, K-55	850'	500 sx TRLW 10% DD, 7.5# salt & 1# Flocele/sx. Followed by 200 sx Class C w/2% CaCl ₂ . Circulating. Sufficient cement to cover base of salt.
SEE ATTACHED LOG CONDITIONS OF ABRASION				
11"	8-5/8"	32#, K-55	*3750'	Sufficient Class CSR w/1/10% DALWL & 2# KCL/sx cement Volume to bring TOC to 9500±, estimated at 500 sx.
7-7/8"	5 1/2"	17#, 20#, N-80	12,800	

(*If hole conditions and circulation problems permit, drill to 4500' and set 8-5/8" intermediate casing string at that approximate depth.)

Unless Drilling Operations are
Commenced, this drilling operation
may proceed
JUN 1 1976

Use mud additives as required for control-detail attached.

BOP Eqpt: Series 900, 3000# WP-See BOP Figure 6 attached for detail.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24.

SIGNED A. J. MuellerTITLE Engineering AdvisorDATE 2-19-76

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE

APPROVED BY _____

TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
MAR 1 1976

ARTHUR R. BROWN
DISTRICT ENGINEER

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 19: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

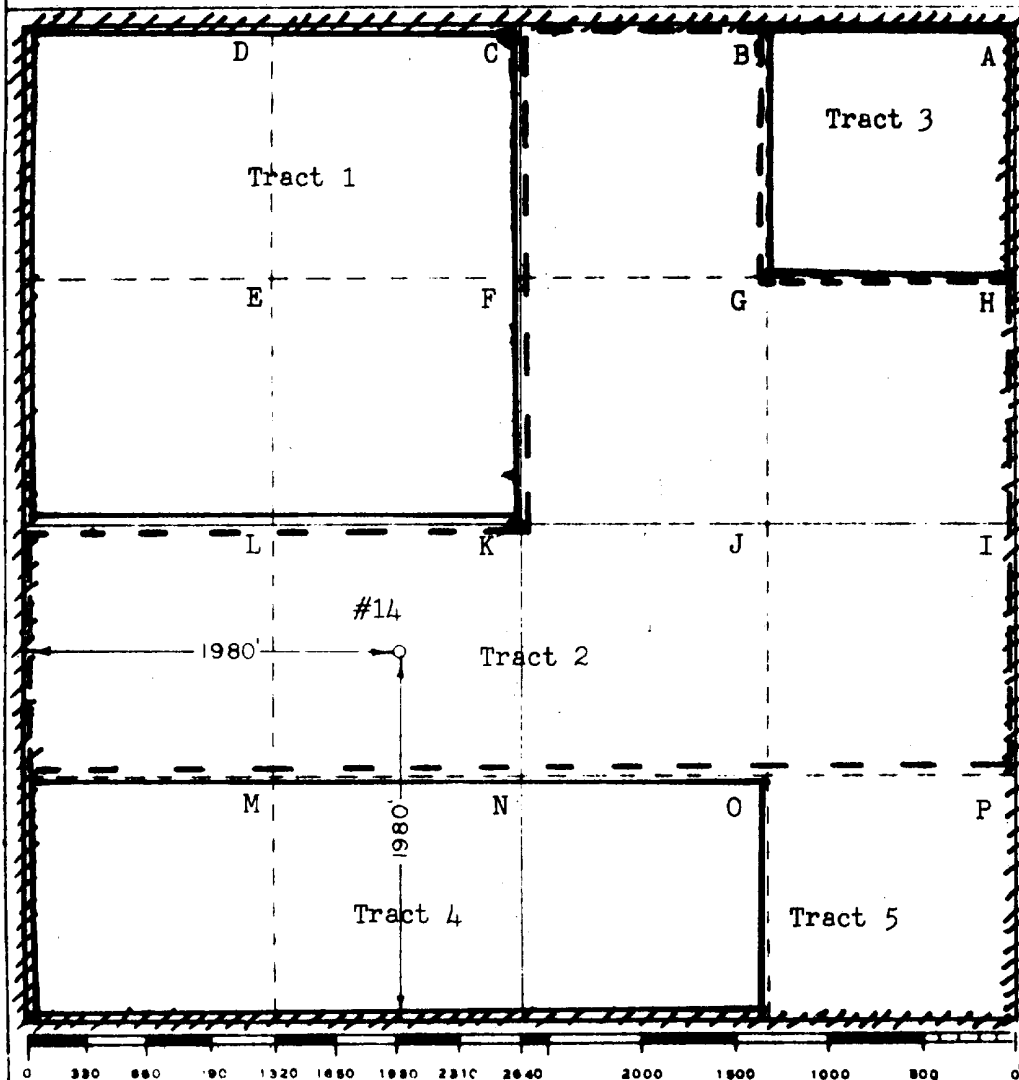
Operator Phillips Petroleum Company			Lease Lusk Deep Unit A		Well No. 14
Unit Letter K	Section 7	Township 19 South	Range 32 East	County Leo	
Actual Well Location of Well:					
1980	feet from the	South	line and	1980	feet from the
Ground Level Elev. 3595.5		Producing Formation Morrow	Pool	Estimated Acreage	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). See reverse side.
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

* ☒ Yes ☐ No If answer is "yes," type of consolidation Communitization subject to successful completion of this well.

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use 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

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

W. J. Mueller

W. J. Mueller

Position

Engineering Advisor

Company

Phillips Petroleum Company

Date

February 18, 1976

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief

Date Surveyed

February 6, 1976

Registered Professional Engineer

State of New Mexico

976

John W. West

Engineer No.

MEXICO

976

JOHN W. WEST

Lease No. NM 036100 - Tract 1

Working Interest	= Phillips Petroleum Company	- 50%
	= Gulf Oil Corporation	- 50%
Royalty Interest	= USA. Dept of the Interior	-100%

Lease No. 01087 - Tract 2

Working Interest = Phillips Petroleum Company - 100%
Royalty Interest = USA, Dept of the Interior - 100%

Lease No. NM 4310 - Tract 3

Working Interest = Phillips Petroleum Company - 100%
Royalty Interest = USA, Dept of the Interior - 100%

Lease No. NM 01088 - Tract 4

Working Interest = Phillips Petroleum Company - 100%
Royalty Interest = USA, Dept of the Interior - 100%

Lease No. NM 4311 - Tract 5

Working Interest = Anadarko Production Company - 100%
Royalty Interest = USA, Dept of the Interior

DOUBLE PREVENTER OPTION

- 1 SER. 900 HYDRIL "16K"
- 2 SER. 900 RAM-TYPE BOP
- 3 3" SER. 900 VALVE
- 4 SER. 900 DRILLING SPOOL
- 5 3" SER. 900 X 2" SER. 900 STEEL TEE
- 6 2" SER. 900 VALVE
- 7 2" MUD PRESSURE GAUGE
- 8 3" SER. 900 X 2" SER. 900 STEEL CROSS
- 9 2" SER. 900 ADJ. CHOKE
- 10 HYDRAULIC CHOKE, 2500 PSI WP OR BETTER
- 11 3" SER. 900 CHECK VALVE

NOTES:

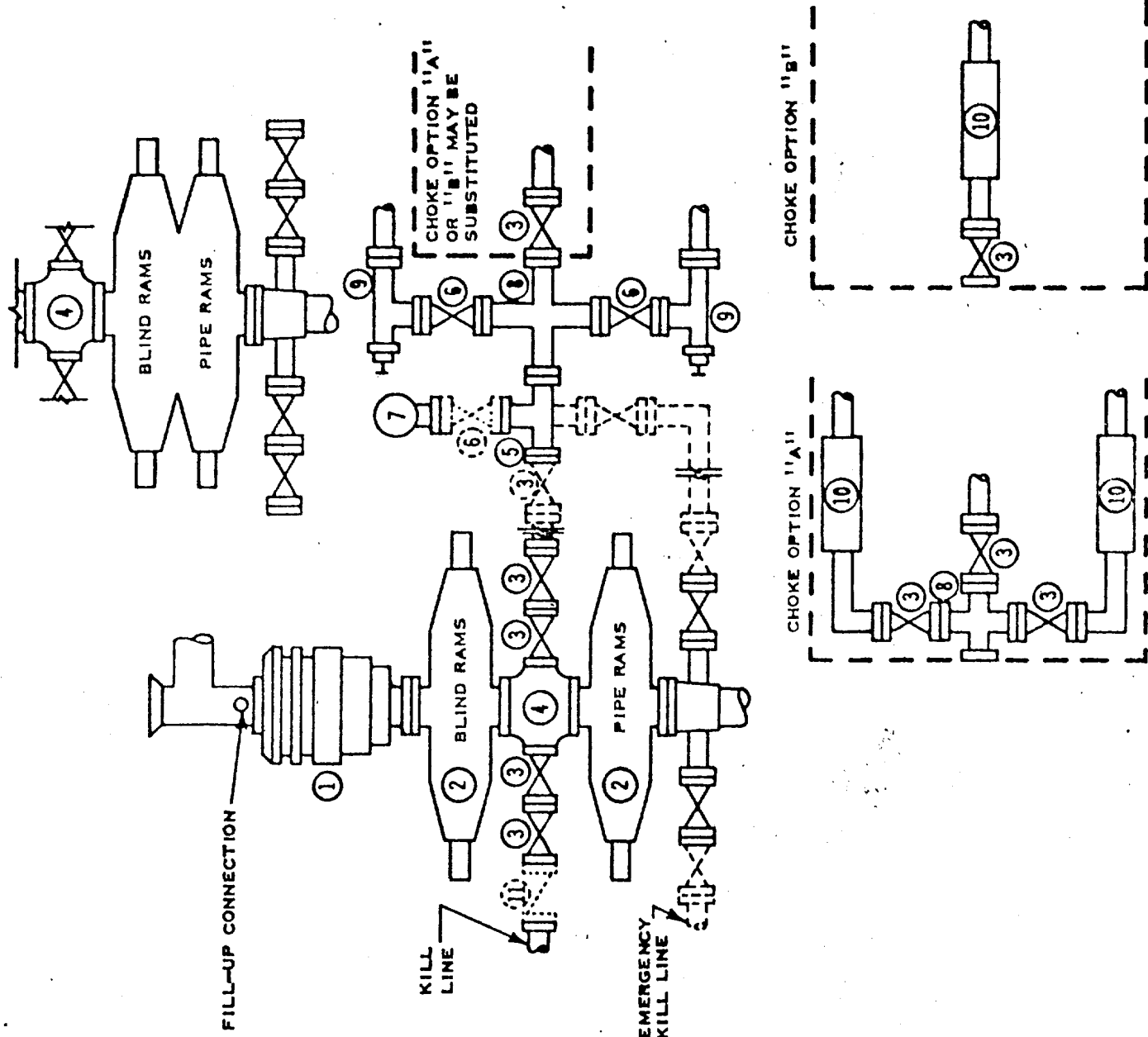
1. 3000 PSI WP OR BETTER CLAMP HUBS MAY BE SUBSTITUTED FOR FLANGES
2. ONE ADJUSTABLE CHOKE MAY BE REPLACED WITH A POSITIVE CHOKE
3. VALVES MAY BE EITHER HAND OR POWER OPERATED BUT, IF POWER OPERATED, THE VALVES FLANGED TO THE BOP RUN MUST BE CAPABLE OF BEING OPENED AND CLOSED MANUALLY OR CLOSE ON POWER FAILURE AND BE CAPABLE OF BEING OPENED MANUALLY

..... OPTIONAL EQUIPMENT

PHILLIPS PETROLEUM COMPANY
3000 PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP
(SERIES 900 FLANGES OR BETTER)

REV 6/73

FIGURE NO. 6



Phillips Petroleum Company

In re: Proposed Mud Program - Lusk Deep Unit A "CON" No. 14. 12,800' Barnett Test.
Sec. 17, T-19-S, R-32-E, Lusk Morrow Gas Field, Lea County, New Mexico.

Surface Casing 850' of 13-3/8".

Spud with lime, bentonite and Flosal*. Maintain sufficient viscosity to keep hole clean and for the running of casing.

Intermediate Casing 4,500' of 8-5/8". (Casing seat at 3,750' if lost circulation and hole conditions dictate.)

Drill out with fresh water and circulate through the reserve pit. From 2,700' to 3,500' severe loss circulation can be expected, so at 2,700' mud up in steel pits and mix LCM. Continue to drill and maintain volume with fresh water, gel and LCM to casing point. A key seat wiper is recommended while drilling this interval. Drilling operations should continue as long as fluid is being pumped through the bit. Extreme caution should be taken when drilling without returns. If hole conditions dictate at casing point adjust mud properties as required to assure the running of logs and casing.

From Intermediate to 10,400'. (Top of Wolfcamp shale)

Drill out with fresh water and circulate through reserve pit. Use Flosal to clean hole and for the securing of good samples. Good samples required from 5,300' to TD.

From 10,400' to 11,500'.

Return to steel pits and drill with potash brine water, use paper for seepage, and Flosal for good samples.

From 11,500' to TD.

Using potash brine water, reduce fluid loss by mixing Drispac* and starch. The following mud properties must be maintained by 11,900'; weight 9 lbs. per gal., viscosity 36 to 40 sec. per quart out, fluid loss 6 cc or less. Should hole conditions dictate, adjust mud properties as required. After the addition of starch, mix preservative as needed. Open hole logs will be run at TD.

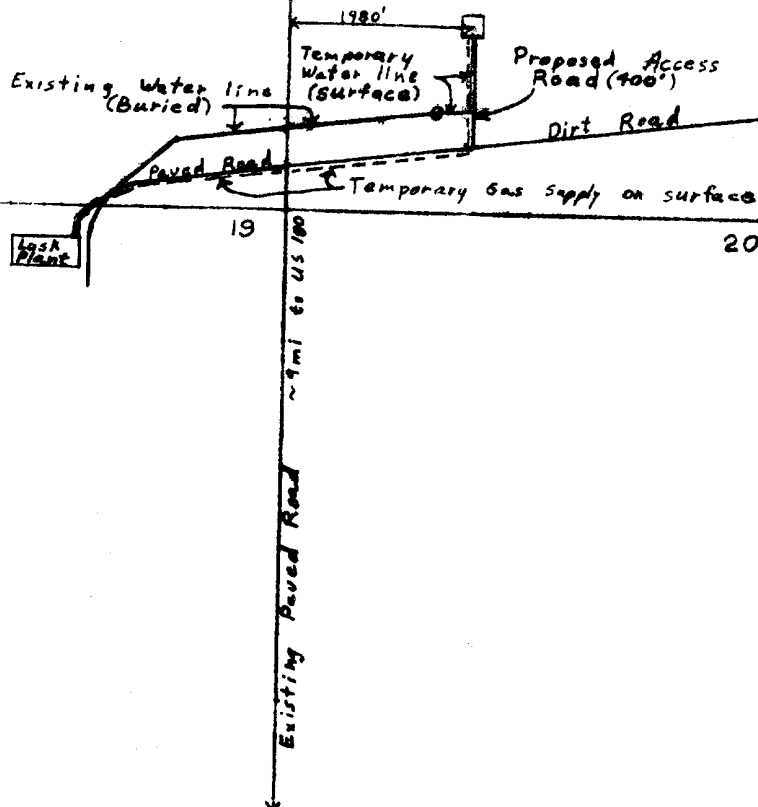
* A Trademark.

10 mi to Lusk Hills
via Hwy 529/US 82

Eddy County R-31-E
Lor County R-32-E

10 mi to
Hwy 529

N



US 62/180
37 mi to Hobbs

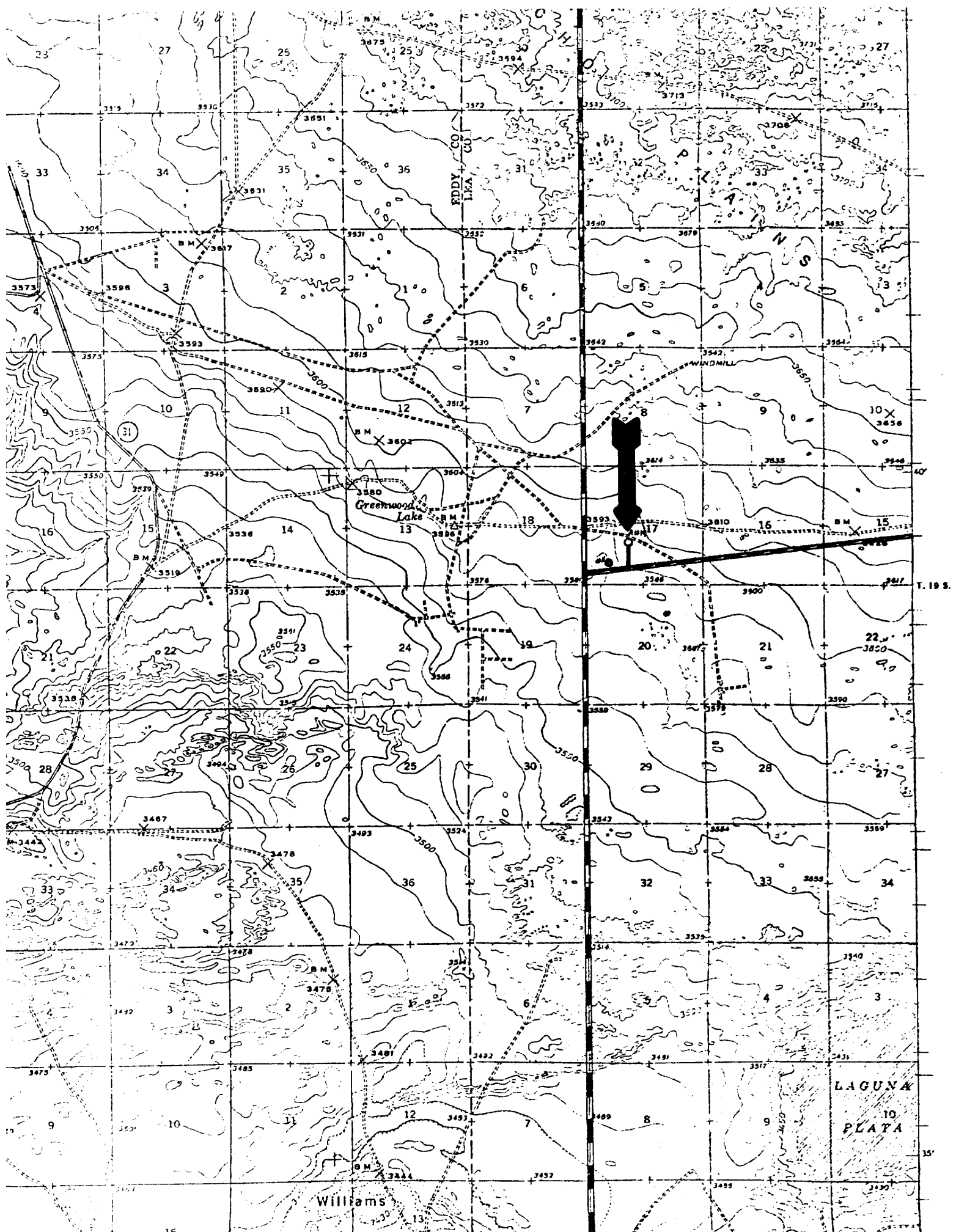
US 62/180
32 mi to Carlsbad

BARTLESVILLE, OKLAHOMA

LUSK DEEP UNIT "A" NO. 14
Proposed Road and Supply Lines

DRAWN		AFE NO.	DWG. NO.
CHECKED		SCALE	SHEET NO.
APPROVED			

REVISION	BY	DATE



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T.17 S.

To Jct US 82

T.18 S.

T.19 S.

T.20 S.

To Jct US 180

To Carroll

R.32 E.

R.32 E.

R.33 E.

T.21 S.

Phillips Petroleum Company
Leach Deep Unit A
Sec 17, T.19 S., R.32 E.
"COM" No. 14

To Hobbs

36.5 mi West
of Hobbs

