

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

Amoco Production Company

3. ADDRESS OF OPERATOR

BOX 68, HOBBS, N. M. 88240

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

At surface

1980 FSL x 1980 FEL Sec. 18 (P. C. E. AREA OFFICE, ART/4 SE/4)

At proposed prod. zone

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

APPX 5 1/2 MILES EAST OF CARLSBAD N.M.

15. DISTANCE FROM PROPOSED*

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION*

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

19. PROPOSED DEPTH

9800'

20. ROTARY OR CABLE TOOLS

ROTARY

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

N/A

22. APPROX. DATE WORK WILL START*

8-1-73

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"	48#	350'	CIRCULATE
11"	8 5/8"	24-32#	5200'	FILL TO BASE OF SALT
7 1/8"	4 1/2"	11.6-13.5	12400'	600' ABOVE UPPER MOST PAY

After drilling well, logs shall be run and evaluations made, perforating and/or stimulating as necessary in attempting commercial production.

MUD PROGRAM- 0-350- Water & Native Mud
350-5200 - Brine
5200-9300 - Water
9300 - TD - Min. Gel Chem.

RECEIVED

JUL 18 1973

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

B-O-P - See attached.

DRILLING WELL CONTROL REQUIREMENTS FOR DEEP WELLS SHALL BE APPLIED.

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 preventer program, if any.

24.

SIGNED

AREA ENGINEER

TITLE

DATE

7-17-73

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

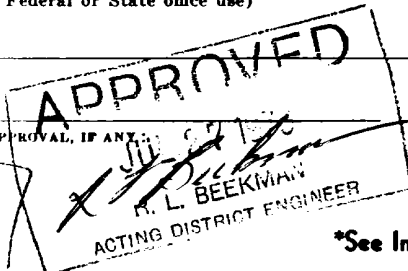
APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES OCT 27 1973

DATE

015-USGS-ART
1- DIV
1- SUSP
1- RRY



*See Instructions On Reverse Side

Compliance with well control
requirements dated 6-22-73
attached

United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U
Artesia, New Mexico 88210

June 22, 1971

NOTICE

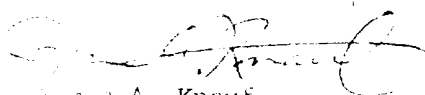
DRILLING WELL CONTROL REQUIREMENTS FOR DEEP WELLS DRILLED ON FEDERAL OIL AND GAS LEASES IN THE ARTESIA DISTRICT

The following requirements are established in accordance with 30 CFR 221.24, 221.36, and 221.37. Blowout preventer equipment, choke equipment, drilling fluid characteristics, drilling fluid monitors, and the conduct of drilling procedures shall be such as are necessary to prevent the blowout of any well. In addition to all other applicable rules, regulations, and accepted good operating practices, drilling shall be in accordance with the following safety requirements:

1. After setting the 8-5/8-inch casing string and before drilling into the Wolfcamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report. In addition, the pipe rams and bag-type preventer shall be actuated at least once each 24 hours and the blind rams each time the drill pipe is out of the hole.
2. Accumulators shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers.
3. A drill string safety valve in the open position shall be maintained on the rig floor at all times while drilling operations are being conducted.
4. Blowout prevention drills shall be conducted as necessary to insure that each drilling crew is properly trained to carry out emergency duties.
5. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before

drilling into the Wolfcamp formation
and used until production casing is run and cemented. Monitoring
equipment shall consist of the following:

- (1) A recording pit level indicator to determine pit volume gains and losses.
 - (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
 - (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
6. When coming out of the hole with drill pipe, the annulus shall be filled with mud to prevent mud level drops below 150 feet. The volume of mud required to fill the hole shall be watched, and any time there is an indication of swabbing, or influx of formation fluids, proper blowout prevention precautions must be taken. The mud shall not be circulated and conditioned except on or near bottom, unless well conditions prevent running the pipe to bottom.
7. A copy of these requirements shall be posted on the rig floor or in the dog house during the drilling of the well.


Thomas A. Knauf
District Engineer

Lease No. NM 0415688-A
Well Amoco Production Co. 1-Old Indian Draw Federal Unit
Drillsite 1980/S&E 18-22S-28E
Depth 9800' Pennsylvanian
Approved July 27, 1973

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

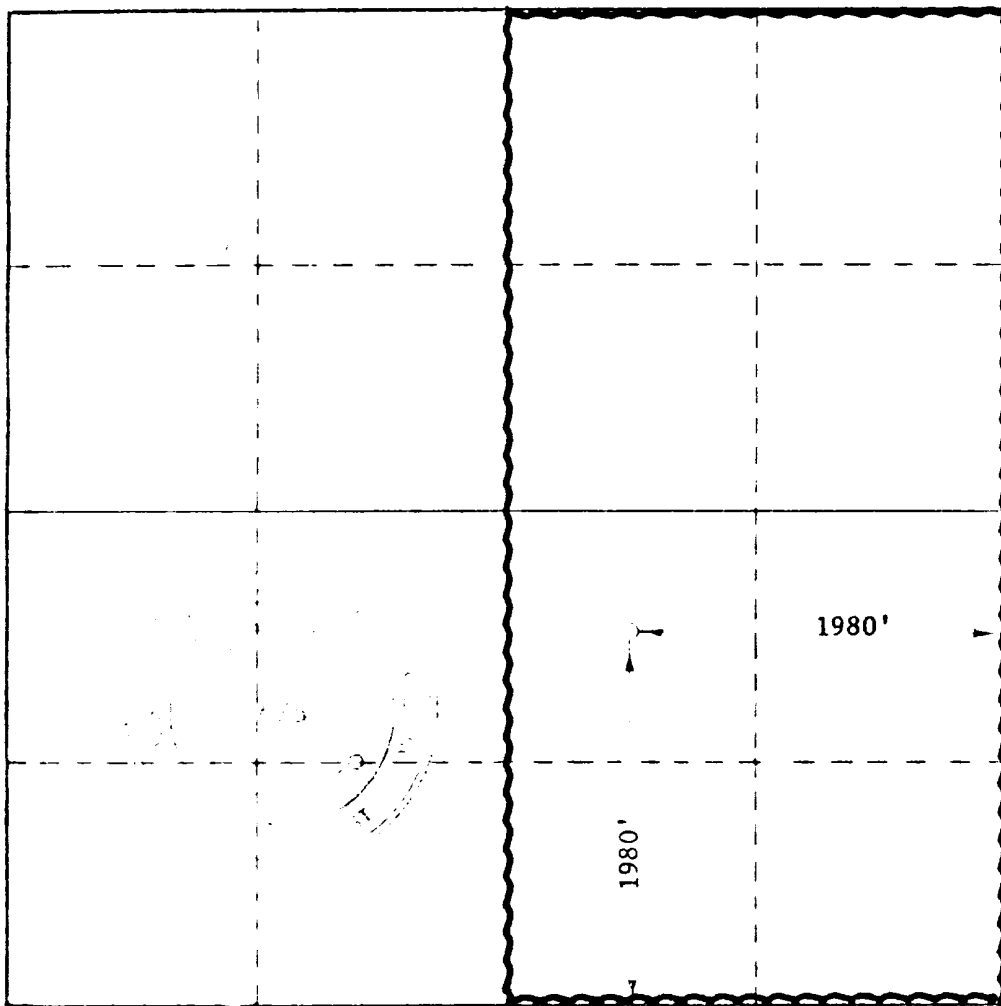
PRODUCTION COMPANY 18	OLD INDIAN DRAW Unit 22 SOUTH	28 EAST EDDY
SOUTH 1980 EAST <small>line and feet in the</small>		
Pennsylvanian	Wildcat	320

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)
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?

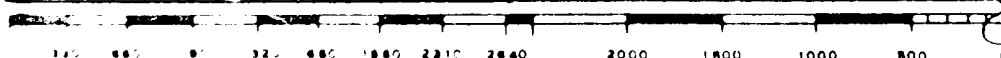
Yes No If answer is "yes," type of consolidation _____

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.

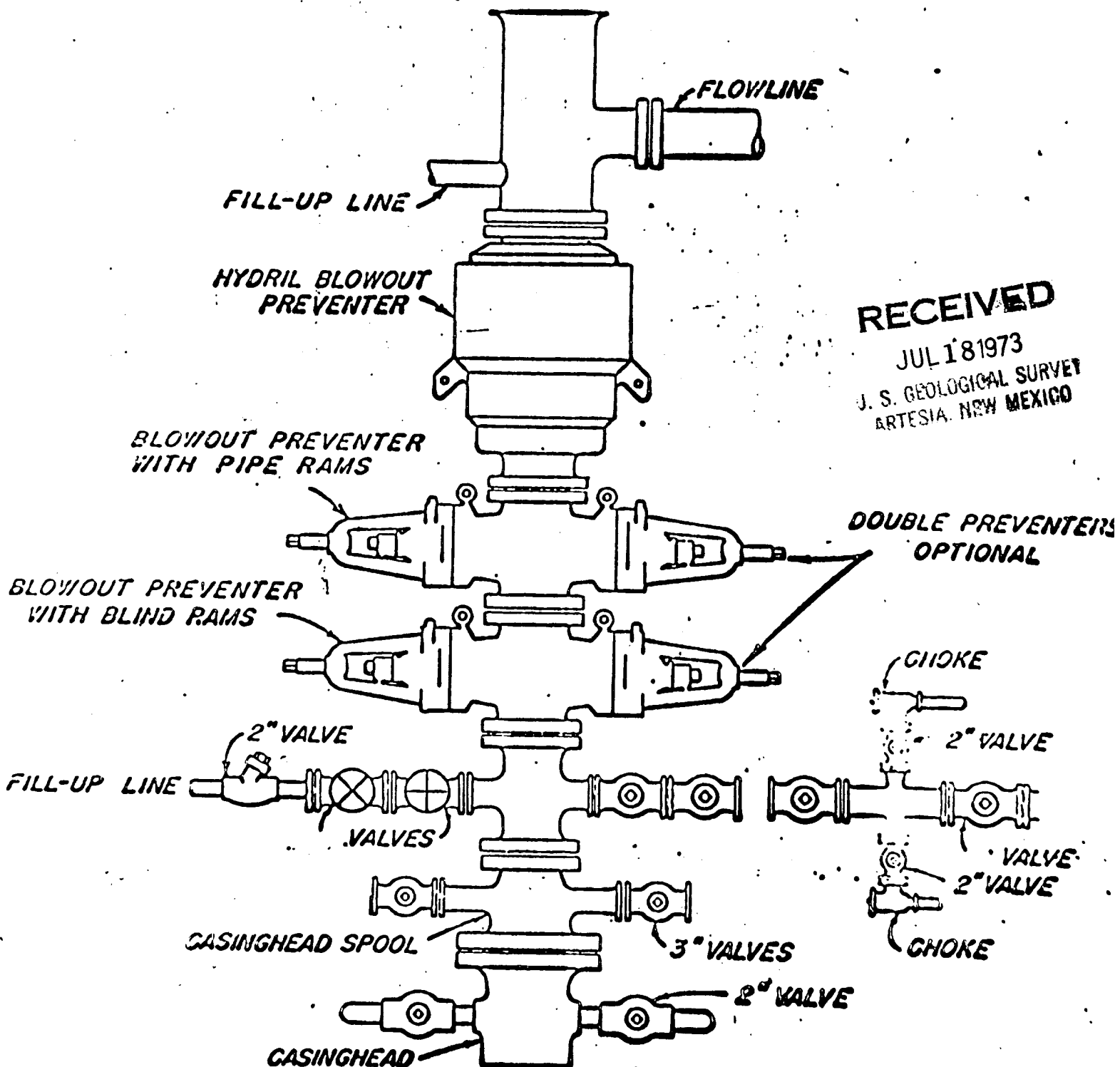


CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
Name _____	
Position AREA ENGINEER	
Company Amoco Production Company	
Date JUL 17 1973	
<div style="border: 2px solid black; padding: 5px; transform: rotate(-5deg); display: inline-block;"> RECEIVED JUL 18 1973 U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO </div>	
I hereby certify that the location shown on this plat was plotted from notes of actual survey or under my supervision and that the same is true and correct to the best of my knowledge and belief	
Date surveyed JULY 13, 1973	
Registered Professional Engineer and Land Surveyor 	
Certificate No. 76	

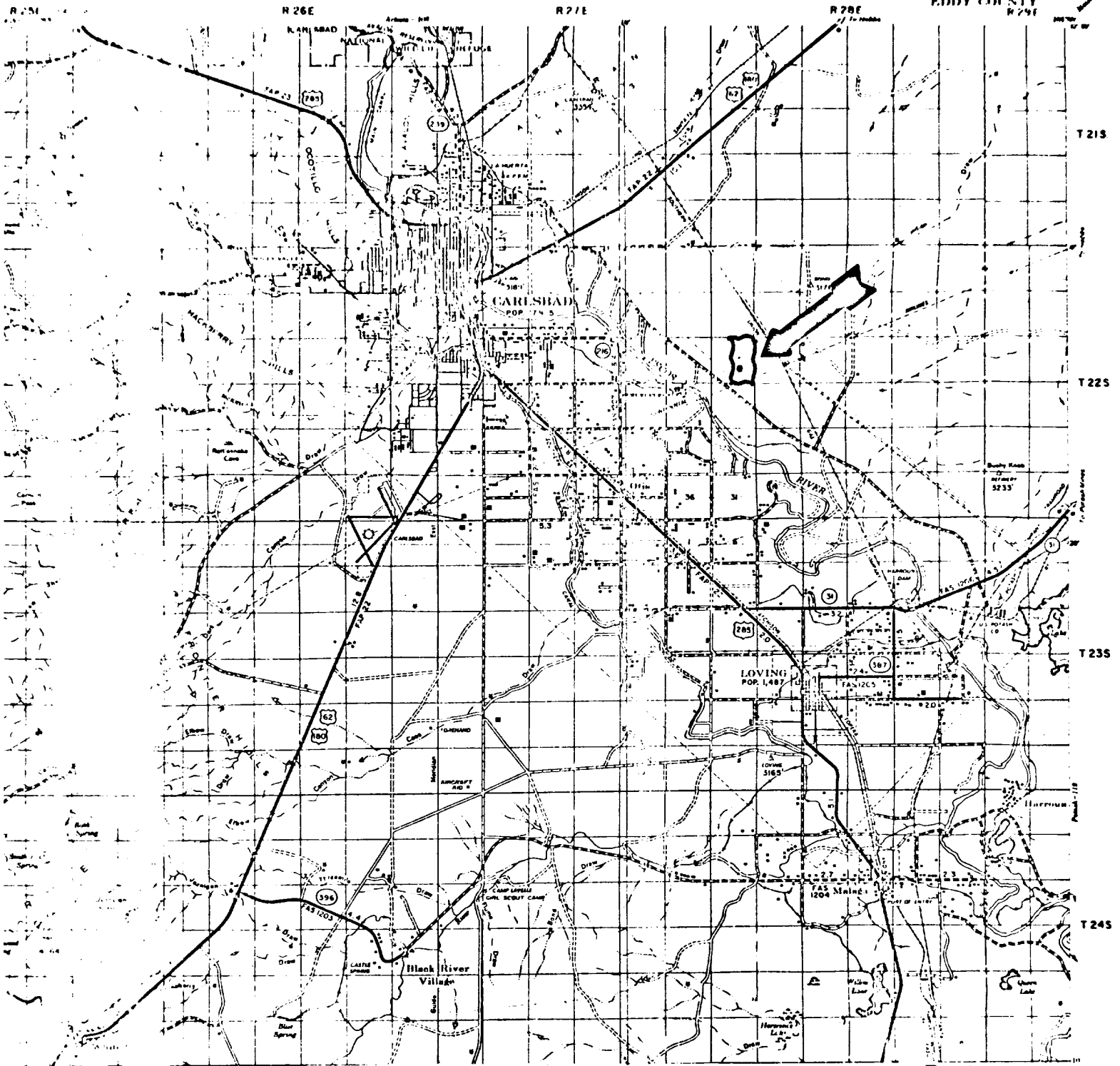


BLOWOUT PREVENTER HOOK-UP FOR DRILLING BELOW INTERMEDIATE CASING

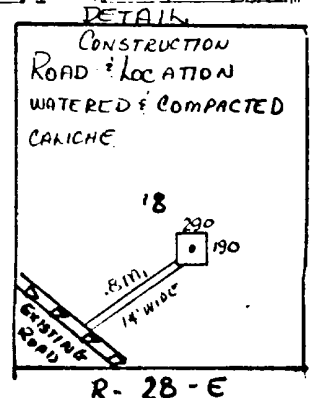
1. BLOWOUT PREVENTERS AND MASTER VALVE TO BE FLUID OPERATED AND ALL FITTINGS MUST BE IN GOOD CONDITION (MINIMUM: WP - 3000 PSI, TEST - 6000 PSI).
2. EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS THE INSIDE DIAMETER OF CASING THAT IS BEING DRILLED THROUGH.
3. KELLY COCK REQUIRED (MINIMUM: 3000 PSI WP, 6000 PSI TEST)
4. OMSCO OR COMPARABLE SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUB. (MINIMUM: 3000 PSI WP, 6000 PSI TEST)



CARLSBAD
QUADRANGLE-118
EDDY COUNTY
R 291



- 1- EXISTING ROADS- THIS PLAT
- 2- PLANNED ACCESS ROADS - "
- 3- LOCATION OF WELLS- NONE KNOWN
- 4- LATERAL ROADS TO WELL LOCATIONS- NONE
- 5- LOCATION OF TANK BATTERIES & FLOWLINES - NONE
(THIS WELL TO BE AT WELL SITE)
- 6- LOCATION & TYPES OF WATER SUPPLY- HAULED
- 7- METHODS FOR HANDLING WASTE DISPOSAL-
IN SUITABLE CONTAINERS & PITS ON LOCATION
8. CAMPS- NONE
9. AIRSTRIPS- NONE NEAR
10. RIG LAYOUT- SEE ATTACHMENT
11. LOCATION CLEANUP IN ACCORDANCE WITH GOOD OPERATING
PRACTICES AND GROUND TO BE LEVELLED IF P.A.
12. NONE
13. THERE ARE NO HOUSES, BUILDINGS OR WINDMILLS
WITHIN 1/4 MILE.



OLD INDIAN DRAW FEDERAL UNIT #1
1980' FS x EL SEC 18-22. 28
EDDY Co. WILDCAT

