

NM OIL CONS. COMMISSION
Drawn by UNITED STATES
Antelope, NM 88210
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse)

Form approved.
Budget Bureau No. 42-R1425.

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 ARCO Oil and Gas Company
 Division of Atlantic Richfield Co. /

3. ADDRESS OF OPERATOR
 P. O. Box 1710, Hobbs, New Mexico 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1980' FNL & 1980' FEL (Unit Ltr "G") AUG 14 1981
 At proposed prod. zone
 As above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 5 miles East of Loco Hills & 2-3/4 miles North

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE
 639.56

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
 3650'

20. ROTARY OR CABLE TOOLS
 Completion Unit

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3972' GR

22. APPROX. DATE WORK WILL START*
 8/24/81

5. LEASE DESIGNATION AND SERIAL NO.
 LC-029426(a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 H. E. West "A"

9. WELL NO.
 11

10. FIELD AND POOL, OR WILDCAT
 Grayburg Jackson (QCSA)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 3-17S-31E

12. COUNTY OR PARISH
 Eddy

13. STATE
 N M

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8-5/8" OD	24# J-55	817'	100 sx
8"	5 1/2" OD	14# J-55	3500'	100 sx

TD 3500', PBD 3488' - above csg presently in well. No enlargement of existing well site is required to deepen. Propose to rig up, install BOP & POH w/comp assy. Swab test present Grayburg perms 3445-52'. Set cmt retr @ 3400' & squeeze cmt perms 3445-52' w/150 sx Cl C cmt cont'g 2% CaCl₂, dump 10' cmt on top. Run CBL. Perf 5 1/2" csg @ TOC. Set cmt retr above perms & circ cmt to surf. Drill out cmt retrs & pressure test squeeze jobs. Drill new 4-3/4" hole 3500-3650'. Run CNL, FDC, DLL 3650-2000'. Under ream 4-3/4" hole to 7" 3500-3650'. RIH w/300' of 4" FJ csg liner. Hang liner @ approx 3350'. Cmt liner w/100 sx Cl C cmt cont'g 2% CaCl₂. WOC. Drill out cmt to 3650'. Pressure test liner to 1000# for 30 mins. Perf Premier zone from logs, acidize w/2000 gals 15% acid. Swab test, return to production.

Blowout Preventer Program attached.

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 James D. Schmidt TITLE Dist. Drlg. Supt. DATE 8/12/81

(This space for Federal or State office use)

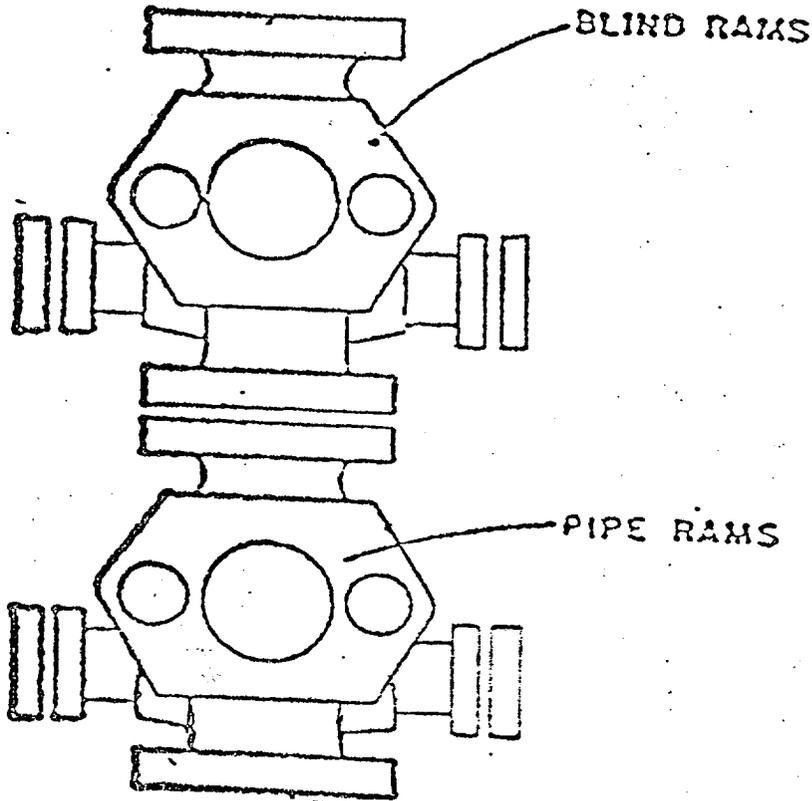
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY GEORGE H. STEWART TITLE _____ DATE _____

CONDITIONS OF APPROVAL: LEASE

APPROVED
 (Dist. Supt.) GEORGE H. STEWART
 AUG 14 1981
 FOR
 JAMES A. GILLHAM
 DISTRICT SUPERVISOR

*See Instructions On Reverse Side



ARCO Oil & Gas Company
Division of Atlantic Richfield Company
Blow Out Preventer Program

Lease Name H. E. West "A"

Well No. 11

Location 1980' FNL & 1980' FEL (Unit Ltr "G")
Sec 3-17S-31E, Eddy Co., NM

BOP to be tested before installed on well and will be maintained in good working condition during drilling. All wellhead fittings to be of sufficient pressure to operate in a safe manner.