

30-025-12112

Form 3160-3  
(November 1983)  
(formerly 9-331C)

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input type="checkbox"/> <del>DEEPEN</del> <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/> Re-entry		5. LEASE DESIGNATION AND SERIAL NO. NM55990	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Hopper-Barnett, Inc.		7. UNIT AGREEMENT NAME	
8. ADDRESS OF OPERATOR P. O. Box 1706 Hobbs, NM 88240		8. FARM OR LEASE NAME Lockhart Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 660' FEL & 660' FNL At proposed prod. zone Same		9. WELL NO. 1-2	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 5 miles east of Eunice, NM		10. FIELD AND POOL, OR WILDCAT. South Bronson Brinker & abt Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 5-22S-38E	
16. NO. OF ACRES IN LEASE 640		12. COUNTY OR PARISH Lea	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE NM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. none		20. ROTARY OR CABLE TOOLS Pulling unit w/ reverse unit	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3395.5 GR.		22. APPROX. DATE WORK WILL START* As soon as possible	

23. EXISTING / 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	32#	2813	Cir. Cement
7 7/8	5 1/2	15.50	7700	800 sks. Class C

Mud Program: See exhibit F

BOP Program: See exhibit E

\* 13 3/8" csg. @ 157' in 17 1/2" bore & 8 5/8" csg. as described currently exist in wellbore. (SJS)

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
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 <u>Ray Hopper</u>	TITLE <u>Area Manager</u>	DATE <u>10-30-90</u>
(This space for Federal or State office use)		

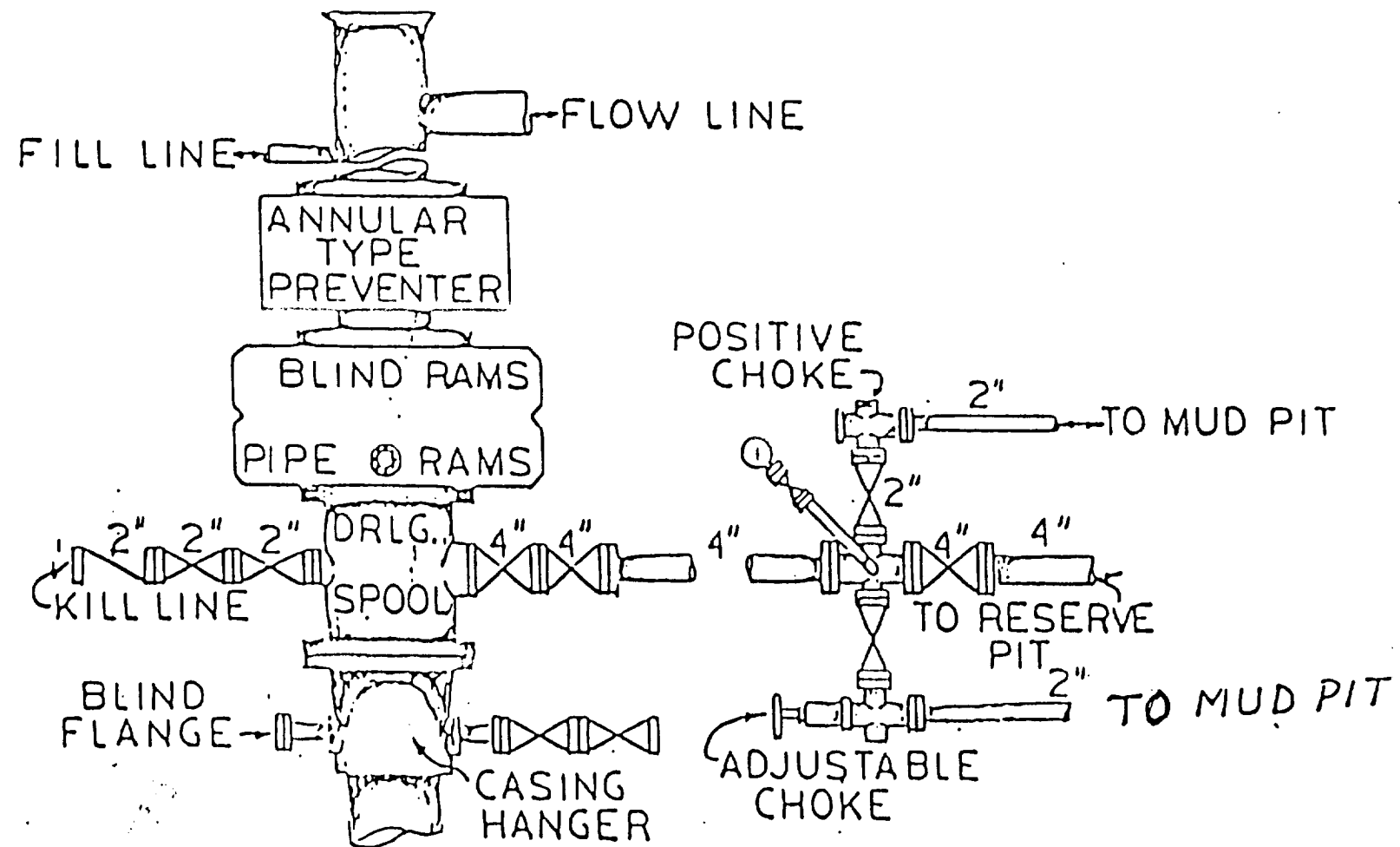
PERMIT NO. _____	APPROVAL DATE _____
APPROVED BY _____	AREA MANAGER _____
CONDITIONS OF APPROVAL, IF ANY: _____	CARLSBAD RESOURCE AREA _____
TITLE _____	DATE <u>12 3 90</u>

# EXHIBIT E

## PRESSURE CONTROL EQUIPMENT

### B.O.P. ARRANGEMENT

3000 LB. W.P. B.O.P.  
10" CAMERON TYPE-SS HYDRAULIC B.O.P. 3000 P.S.I.  
10" G.K. HYDRILL 3000 W.P.  
80 GALLON- STATION KOOMEY ACCUMULATOR  
3000 LB. W.P. CHOKE MANIFOLD



RECEIVED

NOV 11 31 11 '30

APPLICATION TO DRILL

HOPPER-BARNETT, INC.

Lockhart Federal #1-2  
660' FNL & 660' FEL of Sec. 5, 22S, 38E.  
Lea County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, Hopper-Barnett, Inc. submits the following ten items of pertinent information to re-enter the subject well in accordance with Bureau of Land Management requirements.

1. The geologic surface formation is cretaceous.
2. The estimated tops of geologic markers are:

1. T/San Andres	4306
2. T/Glorietta	5548
3. Clearfork	5980
4. Tubb	6589
5. Abo	7125
3. The estimated depths at which water, oil or gas-bearing formation are expected:

Water:	150 feet
Oil & Gas:	Drinkard 6589', Abo 7120'
4. Proposed casing program: See Form 3160-3
5. Pressure control equipment: See Exhibit E
6. Mud Program: See Exhibit F
7. Anticipated bottom-hole pressure: 3200 psig at a total depth of 7200 feet. No abnormal pressures are expected. Hydrogen sulphide gas may be encountered in the San Andres, although none is expected. Appropriate safety precautions will be taken.
8. Testing, logging and coring programs:

Drill Stem tests:
No DST's will be taken
Logging:
None
Wireline Logging program: Compensated neutron, formation density, Dual Laterolog
9. Anticipated starting date: As soon as possible.

Submit to: Appropriate  
District Office  
State Leases - 4 copies  
Fee Leases - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

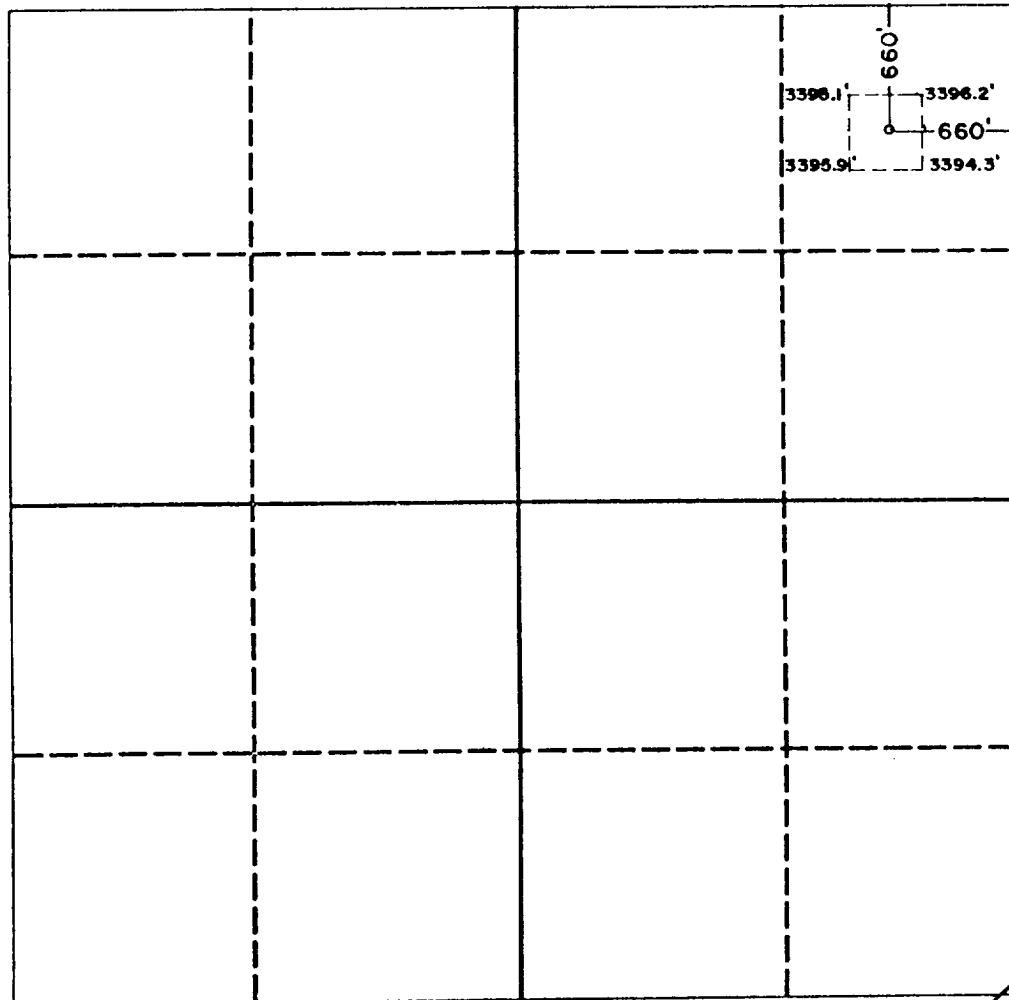
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator HOPPER - BARNETT, INC.			Lease LOCKHART FEDERAL		Well No. 1
Unit Letter A	Section 5	Township 22 SOUTH	Range 38 EAST	County LEA	
Actual Footage Location of Well: 660 feet from the NORTH line and 660 feet from the EAST line					
Ground level Elev. 3395.3	Producing Formation HBO - PRINNARD		Pool South Brunson Breakard		Dedicated Acreage: 1.10 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Position \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_

SURVEYOR CERTIFICATION

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  
OCTOBER 29, 1990  
Signature & Seal of Professional Surveyor

Professional Surveyor Seal: RONALD J. EIDSON, 3239  
Certificate No. JOHN W. WEST, 676