

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

Marbob Energy Corporation

3a. Area Code & Phone No.

505-748-3303

3. ADDRESS OF OPERATOR

P. O. Drawer 226 Artesia, NM 88210

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

At surface

1980 FSL 1980 FEL

UNIT J

At proposed prod. zone

SAME

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

EAST OF CARLSBAD ON U.S. 182 (SEE SURFACE USE & OPERATING PLAN)

15. DISTANCE FROM PROPOSED\*

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

660'

16. NO. OF ACRES IN LEASE

1960

18. DISTANCE FROM PROPOSED LOCATION\*

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

5280'

19. PROPOSED DEPTH

10,000

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

ROTARY

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

3556' GR

22. APPROX. DATE WORK WILL START\*

MARCH 15, 1996

23.

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5#	J-55	STC	1150'	600 SX CIRC
12 1/4"	8 5/8"	32#	J-55	LTC	4975'	2000 SX CIRC
7 7/8"	5 1/2"	17#	J-55	LTC	10,000	CMT AS NECESSARY (TIE BACK)

PAY ZONE WILL BE SELECTIVELY PERFORATED AND  
STIMULATED AS NEEDED FOR OPTIMUM PRODUCTION.

ATTACHED ARE: 1. LOCATION & DEDICATION PLAT  
2. SUPPLEMENTAL DRILLING DATA

OPER. OGRID NO. 14749 3. SURFACE USE PLAN

PROPERTY NO. 13756

OPER. OGRID NO.

POOL CODE

NO.

EFF. DATE 3/19/96

CODE

API NO. 30-025-33041

EFF. DATE

API NO.

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.

SIGNER

Phonda Nelson

TITLE

Production Clerk

DATE

2/6/96

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY (ORIG SIGN) DONALD L. MANUS

TITLE

Area Manager

CONDITIONS OF APPROVAL, IF ANY:

MAR 1 1996

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED



DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

## OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-1125-35341	Pool Code ✓	Pool Name WILDCAT Blue Spring
Property Code 18736	Property Name CHEAPER THAN KIDS FEDERAL	Well Number 1
OGRID No. 014049	Operator Name MARBOB ENERGY CORPORATION	Elevation 3556

### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	22	22 S	33 E		1980	SOUTH	1980	EAST	LEA

## Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 118	Joint or Infill	Consolidation Code		Order No.					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<div style="border: 1px solid black; padding: 5px;"> <p align="center"><b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p><u>Rhonda Nelson</u> Signature</p> <p><u>Rhonda Nelson</u> Printed Name</p> <p><u>Production Clerk</u> Title</p> <p><u>2/6/96</u> Date</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p align="center"><b>SURVEYOR CERTIFICATION</b></p> <p><i>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 belief.</i></p> <p align="center">JANUARY 25, 1996</p> <p>Date Surveyed _____ SJA</p> <p>Signature <u>Rhonda Nelson</u> Professional Surveyor</p> <p align="center"> </p> <p>Certificate No. <u>JOHN W. WEST</u> 676  <u>ROXANNE EIDSON</u> 3239  <u>EDSON</u> 12641</p> </div>
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**MARBOB ENERGY CORPORATION  
CHEAPER THAN KIDS FEDERAL NO. 1  
1980' FSL AND 1980' FEL  
J-SECTION 22, T-22S, R-33E  
LEA COUNTY, NEW MEXICO**

**LOCATED:** Approximately 32 miles northwest of Jal, NM

**FEDERAL LEASE NUMBER:** NM-65655

**LEASE ISSUED:** May 1, 1986

**ACRES IN LEASE:** 1,960 acres  
Township 22 South, Range 33 East  
Section 10: NE/4NE/4  
Section 11: E/2, E/2W/2  
Section 12: N/2  
Section 14: S/2NE/4, SE/4NW/4, E/2SW/4, SE/4  
Section 22: S/2  
Section 23: NE/4NW/4, S/2NW/4, S/2

**RECORD LESSEE:** Kenneth Cherwin

**BOND COVERAGE:** Statewide Bond of Marbob Energy Corporation  
On file at BLM - Carlsbad office

**SURFACE OWNERSHIP:** Federal Surface

**POOL RULES:** Gramma Ridge Bone Springs/Delaware  
Statewide Rules - 40 acre oil spacing

**EXHIBITS:**

1. C-104
2. USGS Topographical Map
3. Map showing roads & wells in vicinity
4. Well pad plat



## DRILLING PROGRAM

Attached to Form 3160-3  
Marbob Energy Corporation  
Cheaper Than Kids Federal No. 1  
1980' FSL and 1980' FEL  
J-Section 22, T-22S, R-33E  
Lea County, New Mexico

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Permian	Surface
Rustler	1145'
Lamart	4950'
Cherry Canyon	5950'
Brushy Canyon	7100'
Bone Springs	8850'
1st Sand	8950'
2nd Sand	9950'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

Brushy Canyon	7100'	Oil or Gas
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4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD csg</u>	<u>Weight, Grade, Jt. Cond.</u>	<u>Type</u>
17 1/2"	0 - 1150'	13 3/8"	54.5# J-55 STC NEW	R-3
12 1/4"	0 - 4975'	8 5/8"	32# J-55 LTC NEW	R-3
7 7/8"	0 - TD	5 1/2"	17# J-55 LTC NEW	R-3

Cement Program:

13 3/8" Surface Casing:	Cemented to surface with 600sx of Class C w/2% cc. + 200 sx C neat cement w/2% CACL & circulate excess cement to pits. Allow 18 hours to set. Pressure test w/pumps to 500# for 30 minutes.
8 5/8" Intermediate Casing:	Cemented with 1800 sx Class C Lite w/10# salt per sx + 200 sx C neat w/1% CACL. Will attempt to circulate to surface. Allow 18 hrs. To set. Pressure test to 1000# for 30 minutes.



**Drilling Program**  
**Page 2**

5 1/2" Production Casing: Cement as necessary and pressure test to 1900# using rig pumps.

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (3000 psi wp) preventer. This unit will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. This BOP will be nipped up on the 13 3/8" surface csg and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of surface casing.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and a 3" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 3000 psi WP rating.

6. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with cut brine. The applicable depths and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity (sec)</u>	<u>Waterloss (cc)</u>
0 - 1150'	Native Fresh Water Mud (Spud)	8.5	28	N.C.
1150'-4975'	Saturated Brine	9.8 - 10.2	40 - 45	N.C.
4975'-TD	Fresh Water Cut Brine	9.0 - 9.5	32 - 38	< 15

Starch & gel will be used to control water loss and viscosity



7. Auxiliary Well Control and Monitoring Equipment:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

8. Logging, Testing, and Coring Program:

- (A) Drillstem tests as needed.
  - (B) The electric logging program will consist of Dual Laterolog Micro SFL, Spectral Density Dual Spaced Neutron Csg Log, and Depth Control Log.
- No conventional coring is anticipated.

9. Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 150' and estimated bottom hole pressure (BHP) is 3500 psig. Do not expect to encounter H<sub>2</sub>S in this area.

10. Anticipated Starting Date and Duration of Operations:

Location and road work will not begin until approval has been received from the BLM. The anticipated spud date is after March 15, 1996. Once commenced, the drilling operation should be finished in approximately 21 days. If the well is productive, an additional 30 to 60 days will be required for completion and testing before a decision is made to install permanent facilities.



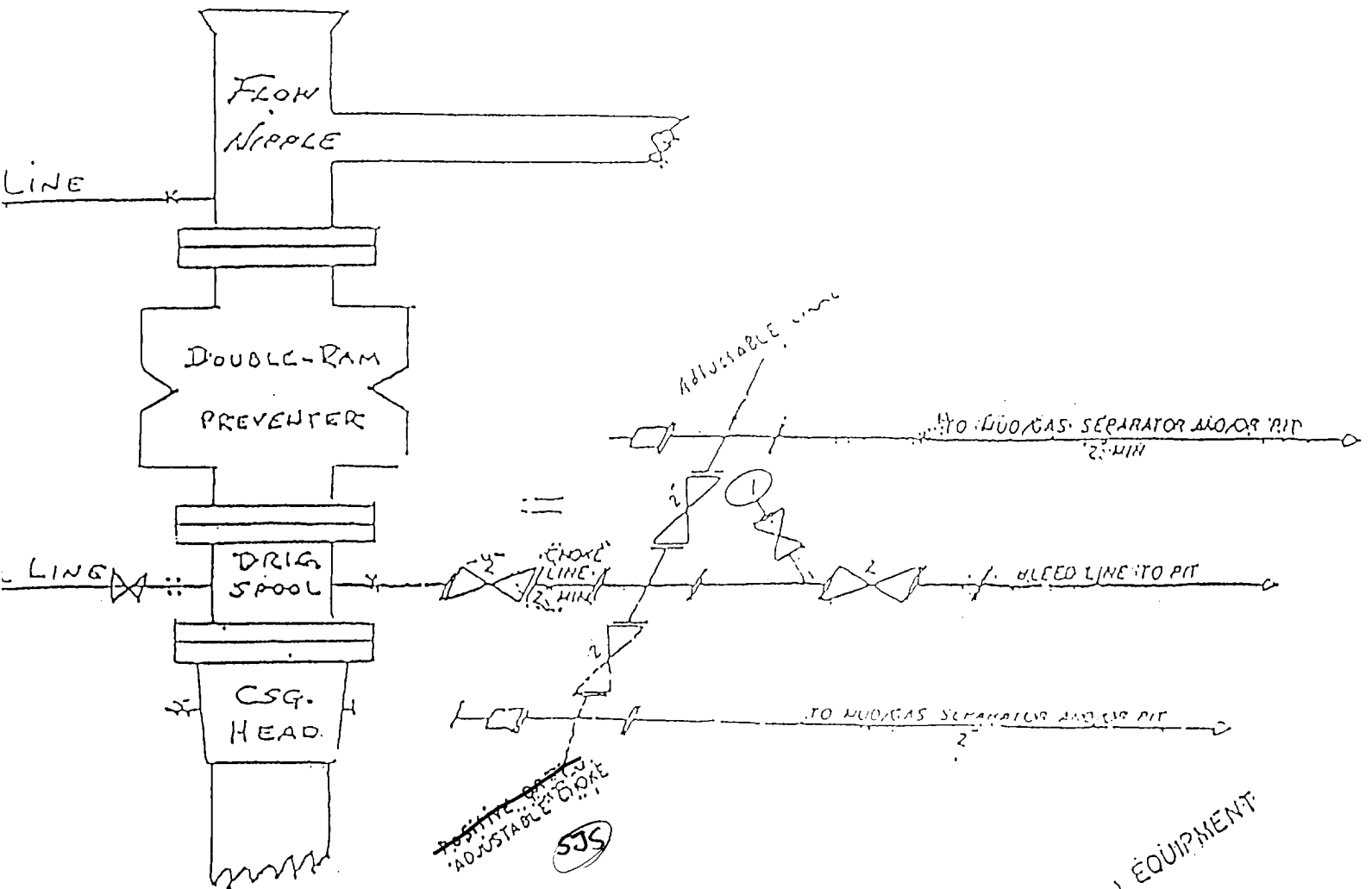
EXHIBIT #1

# B O P & CHOKE MANIFOLD

10"/900 Cameron SS Space Saver

3000# Working Pressure

3.000# Working Pressure Choke Manifold



2 1/4" CHOKE MANIFOLD EQUIPMENT

Marbob Energy Corporation  
Cheaper Than Kids Federal No. 1  
1980' FSL & 1980' FEL  
J-Section 22, T-22S, R-33E  
Lea County, New Mexico  
Exhibit #1

