

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

B. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER ☐

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Bass Enterprises Production Company

3. ADDRESS AND TELEPHONE NO.

P. O. Box 2760, Midland, Texas 79702 915 683-2277

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

At surface

530' ENL & 330' FEL, Section 5, T21S, R32E

At proposed prod. zone

Same

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

5 miles NE/Loving, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 330'

(Also to nearest drlg. unit line, if any)
13. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. None

16. NO. OF ACRES IN LEASE

165

19. PROPOSED DEPTH
8,500'

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

20. ROTARY OR CABLE TOOLS
Rotary

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

3,646 GR

Carbonate Rock and Water Basin

22. APPROX. DATE WORK WILL START*

UPON APPROVAL

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
* 15"	11-3/4"	42#	1350'	805 sx circ to surface
11"	8-5/8"	24#	3200'	1000 sx circ to surface
7-7/8"	5-1/2"	14#, 15.5# & 17#	8500'	1330 sx circ to surface-SEE Stips.

* Surface to be set in the Rustler Anhydrite.

This location is in the Potash area.

Drilling procedure, BOPE diagram, anticipated tops and surface use plans attached.

APPROVED BY
Keith E. Bucy
TITLE
Div Drlg and Prod Supt
DATE
4/23/93

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 Keith E. Bucy

TITLE Div Drlg and Prod Supt

DATE 4/23/93

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY B/ Kathy Lator TITLE Acty State Director DATE 7-16-93

*See Instructions On Reverse Side

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer 30, 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 BASS ENTERPRISES PRODUCTION COMPANY			Lease LITTLE EDDY UNIT		Well No. 2
Unit Letter A	Section 5	Township 21 SOUTH	Range 32 EAST	County LEA	
Actual Footage Location of Well: 530 feet from the NORTH line and 330 feet from the EAST line					
Ground Level Elev. 3645.7'	Producing Formation Delaware		Pool Hat Mesa Delaware Field		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure 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 of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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
Keith E. Bucy

Printed Name

Keith E. Bucy

Position

Div. Dir. & Prod. Supt.

Company

Bass Enterprises Prod. Co.

Date

4/20/93

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

MARCH 25, 1993

Signature & Seal of

Professional Surveyor

GARY L. JONES

NEW MEXICO

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Professional Surveyor

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93-11-0465

EIGHT POINT DRILLING PROGRAM BASS ENTERPRISES PRODUCTION CO.

NAME OF WELL: LITTLE EDDY UNIT #2

LEGAL DESCRIPTION - SURFACE: 530' FNL & 330' FEL, Section 5, T-21-S, R-32-E, Lea County, New Mexico.

POINT 1: ESTIMATED FORMATION TOPS

(SEE NO. 2 BELOW)

POINT 2: WATER, OIL GAS AND/OR MINERAL BEARING FORMATIONS

Anticipated Formation Tops: KB 3660' (est)
GL 3646'

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUBSEA TOP</u>	<u>BEARING</u>
T/Anhydrite	1305'	+2355	Barren
T/Salt	1555'	+2105	Barren
B/Salt	3180'	+ 480	Oil/Gas
T/Capitan Reef	3530'	+ 130	Oil/Gas
T/1st Delaware Sands	5005'	-1345	Oil/Gas
TD	8500'	-4840	Oil & Gas

POINT 3: CASING PROGRAM

<u>TYPE</u>	<u>INTERVALS</u>	<u>PURPOSE</u>	<u>CONDITION</u>
16"	0' - 40'	Conductor	Contractor Discretion
11-3/4" 42# H-40 ST&C	0' - 1,350'	Surface	New
8-5/8" 24# K-55 & S-80 ST&C	0' - 3,200'	Intermediate	New
5-1/2" 14-15.5-17# K-55 LT&C	0' - 8,500'	Production	New

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAMS)

A BOP equivalent to Diagram 1 will be nipped up on the surface casinghead. The BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. will be hydro-tested to the lowest rated working pressure of the equipment being tested. In addition to the rated working pressure test, a low pressure (200 psi) test will be required. These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Thirty days after a previous test
- d) As required by well conditions

A function test to insure that the preventers are operating correctly will be performed on each trip.

POINT 5: MUD PROGRAM

<u>DEPTH</u>	<u>MUD TYPE</u>	<u>WEIGHT</u>	<u>FV</u>	<u>PV</u>	<u>YP</u>	<u>FL</u>	<u>Ph</u>
0' -1350'	FW Spud Mud	8.4 - 9.0	32-38	NC	NC	NC	10
1350' - 3200'	BW	10.0 -10.2	29-30	NC	NC	NC	10.0 -10.5
3200' - 8500'	FW Mud	8.6 - 8.8	34-40	10-14	12-18	5-10	9-9.5

POINT 6: TECHNICAL STAGES OF OPERATION**A) TESTING**

Drill stem tests will be performed on significant shows in zones of interest.

B) LOGGING

GR-CNL-LDT, GR-PHASOR INDUCTION LOG run from TD (8500') to 3200'.

C) CORING

Rotary Sidewall Cores (25) are anticipated.

D) CEMENT

<u>INTERVAL</u>	<u>AMOUNT SXS</u>	<u>FT OF FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT³/SX</u>
Surface	805 (100% excess circ to surface)	1350	Class "C" with 2% CaCl ₂ and 1/4 ppg Cello-Seal	6.3	13.5	1.32
Intermediate	1000 (100% excess circ to surface)	3200	Class "C" with Salt	6.3	14.8	1.32
Production	1330 (25% excess) circ to surface	8500	Class "H" w/additives for Wtr Loss Control	6.4	14.8	1.35

E) DIRECTIONAL DRILLING

No directional services anticipated.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout Delaware section.

Est BHP 3600 psi or 8.2 ECD, Est BHT 132 °F

Lost circulation is not anticipated in this area. Water flows could be encountered at \pm 5600'.

H₂S in this area is less than 100 ppm.

Deviation should not be a problem in this area and will be monitored closely.

POINT 8: OTHER PERTINENT INFORMATION

A) Auxiliary Equipment

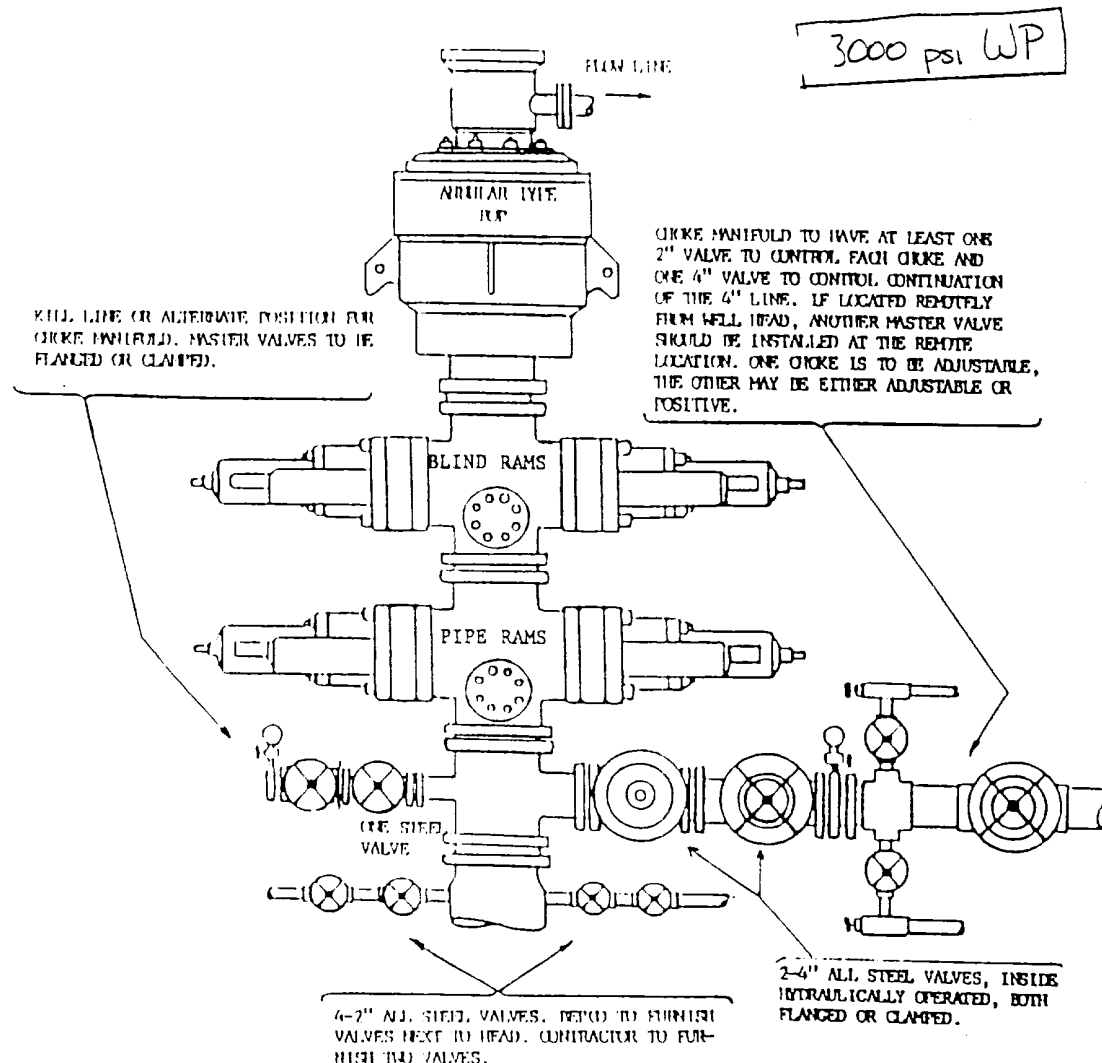
Upper and lower kelly cocks. Full opening stab in valve on the rig floor.

B) Anticipated Starting Date

Upon Approval

20 days drilling operations

14 days completion operations



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. Conditions may be met with an annular type blowout preventer and a double ram blowout preventer, blind rams on top and pipe rams on bottom above a choke spool.
- B. Opening on choke spool to be flanged, studded or clamped.
- C. All connections from operating manifolds to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventer to have a pressure rating equivalent to that of the BOP's.
- F. Manual controls to be installed before drilling cement plug.
- G. Kelly cock to be installed on kelly.
- H. Inside blowout preventer to be available on rig floor.
- I. Dual operating controls: one located by drillers position and the other located a safe distance from the rig floor.