

N.M. OIL & GAS COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

3. 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, TX 79702 (915) 683-2277

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

At surface

1800' FNL & 1650' FEL, Section 5, T-21-S, R-32-E

At proposed prod. zone

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

5 miles NE/Loving, NM

13. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

850'

330'

16. NO. OF ACRES IN LEASE

165

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

13. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

1000'

19. PROPOSED DEPTH

8500'

20. ROTARY OR CABLE TOOLS

Rotary

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

3654.1 GR

SJS

22. APPROX. DATE WORK WILL START*

Upon Approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

R-111-P Potash

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
*14-3/4"	11-3/4" WC-40	42#	1350'	760 SX (Circ. to Surface)
**11"	8-5/8" WC-50	32#	3200'	590 SX (Circ. to Surface)
***7-7/8"	5-1/2" K-55	15.5#	8500'	915 SX Tie Back to (3000')

*Surface casing to be set + 100' above the salt in the Rustler Anhydrite.

**Intermediate casing to be set in the top of the Lamar Lime.

***DV Tool to be set at + 6500', cement to tie back to 3000'.

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

OPEN OGRID NO. 3001
PROPERTY NO. 1737
POOL CODE 30214
EFF DATE 7-27-94
API NO. 30-025-32662

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

Barry Allen

TITLE

Barry Allen
Engineering Assistant

DATE

3-31-94

(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:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

APPROVED BY

H. F. Splendor

TITLE

for State Director

DATE

7-7-94

*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 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 BASS ENTERPRISES PRODUCTION Co.			Lease LITTLE EDDY UNIT		Well No. 7
Unit Letter 1 G	Section 5	Township 21 SOUTH	Range 32 EAST	NMPM	County LEA
Actual Footage Location of Well:					
1800 feet from the NORTH line and		1650 feet from the EAST line			
Ground Level Elev. 3654.1'	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 the the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Printed Name

Barry Allen

Position

Engineering Assistant

Company

Bass Enterprises Prod. Co.

Date

03-31-94

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

Signature

Professional Surveyor

7977

Certificate No.

JOHN W. WEST, 676

RONALD J. EIDSON, 3239

GARY L. JONES, 7977

94-11-0040

**EIGHT POINT DRILLING PROGRAM
BASS ENTERPRISES PRODUCTION CO.**

NAME OF WELL: LITTLE EDDY UNIT #7

LEGAL DESCRIPTION - SURFACE: 1800' FNL & 1650' 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 3668' (est)
GL 3654'

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUBSEA TOP</u>	<u>BEARING</u>
T/Rustler	1383'	+2285'	Barren
T/Salt	1483'	+2185'	Barren
B/Salt	3133'	+ 535'	Barren
T/Capitan Red	3463'	+ 205'	Water
T/Delaware	5608'	-1940'	Oil/Gas
T/Brushy Canyon Sd	6528'	-2860'	Oil/Gas
TD	8500'	-4832'	

POINT 3: CASING PROGRAM

<u>TYPE</u>	<u>INTERVALS</u>	<u>PURPOSE</u>	<u>CONDITION</u>
20"	0' - 40'	Conductor	Contractor Discretion
11-3/4" 42# WC-40 ST&C	0' - 1350'	Surface	New
8-5/8" 32# WC-50 LT&C	0' - 3200'	Intermediate	New
5-1/2" 15.5# K-55 LT&C	0' - 8500'	Production	New

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAMS)

A BOP equivalent to Diagram 1 will be nipped up on the surface casing head. 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. See the attached Diagram for the minimum criteria for the choke manifold.

POINT 5: MUD PROGRAM

DEPTH	MUD TYPE	WEIGHT	FV	PV	YP	FL	Ph
0' - 1350'	FW Spud Mud	8.4-9.0	32-38	NC	NC	NC	10.0
1350' - 3200'	BW	10.0-10.2	28-30	NC	NC	NC	10.0-10.5
3200' - 8500'	FW Mud	8.6-8.8	32-34	4-6	6-8	15-25	9-9.5

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

None anticipated.

B) LOGGING

GR-CNL-DEN and GR-PIL from TD to 8-5/8" casing.
GR-CNL from intermediate casing to surface. Sidewall cores may be taken in zones of interest.

C) CONVENTIONAL CORING

None anticipated.

D) CEMENT

INTERVAL	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	PPG	FT ³ /SX
SURFACE						
Lead 0-1050'	525 (100% excess circ to surface)	1050'	Class "C" w/4% Gel + 2% CaCl ₂ + 1/4#/sk Cello-Seal	9.14	13.51	1.74
Tail 1050-1350'	235 (100% excess circ to surface)	300'	Class "C" w/2% CaCl ₂	6.32	14.82	1.34
INTERMEDIATE						
Lead 0-2700'	375 (75% excess circ to surface)	2700'	Class "C" w/3% Thrifty Lite + 5% Salt + 1/4#/sk Cello-Seal	16.92	11.70	2.80
Tail 2700-3200'	215 (100% excess circ to surface)	500'	Class "C"	6.32	14.80	1.32
PRODUCTION						
STAGE #1						
6500-8500'	440 (100% excess)	2000'	Class "H" w/8#/sx CSE + .75% CF-14 + .2% Thrifty Lite	7.90	14.04	1.61
STAGE #2						
Lead 3000-6000'	365 (100% excess tie back to int csg)	3000'	Class "C" w/3% Thrifty Lite + 5% Salt + .25#/sx Cello-Seal	16.92	11.70	2.80
Tail 6000-6500'	110 (100% excess)	500'	Class "H" w/8#/sx CSE + .75% CF-14 + 2% Thrifty Lite	7.90	14.04	1.61

E) DIRECTIONAL DRILLING

No directional services anticipated.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout the Delaware section. A BHP of 3700 psi (max) or MWE of 8.3 ppg at TD is expected. Lost circulation is not anticipated in this area. H₂S should be no higher than 100 ppm. Estimated BHT at TD is 134° F.

POINT 8: OTHER PERTINENT INFORMATION

A) Auxiliary Equipment

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

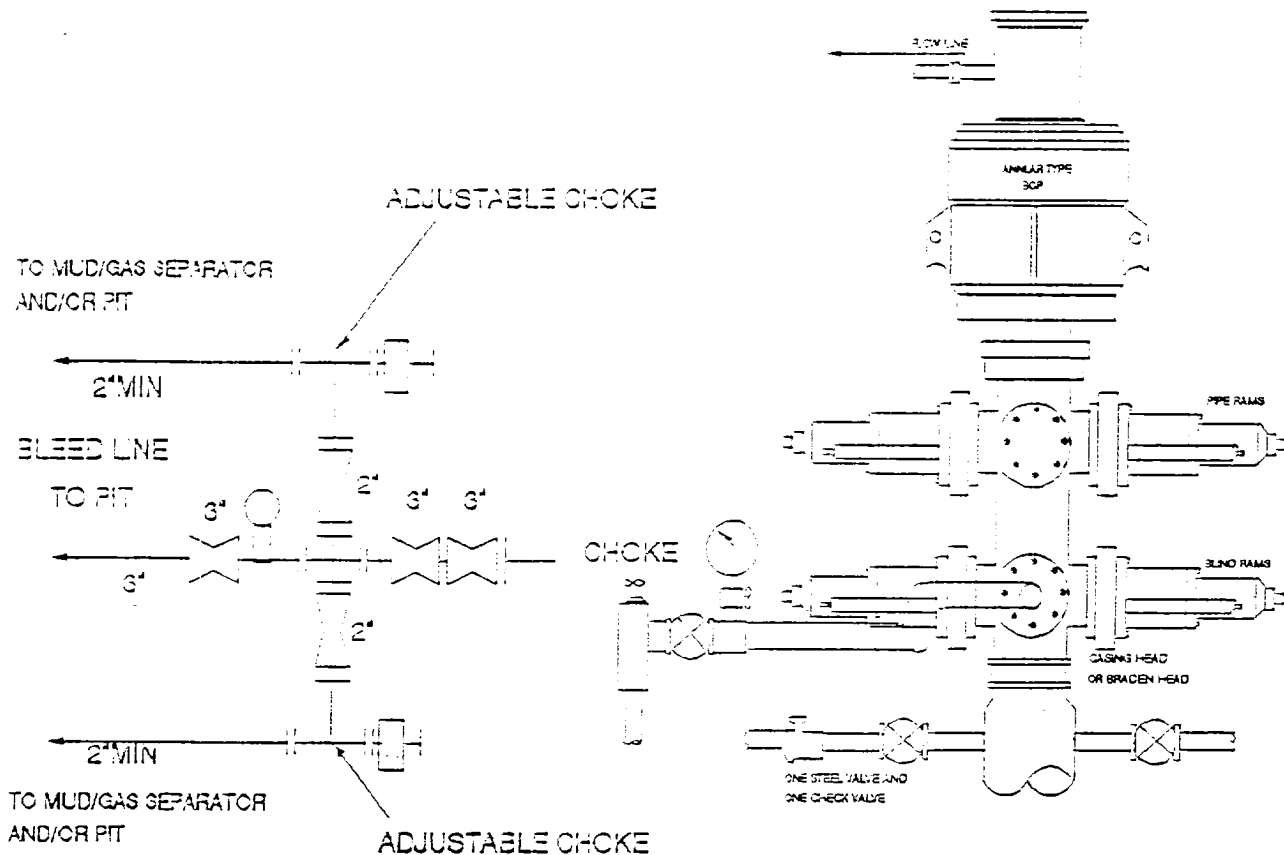
B) Anticipated Starting Date

Upon approval

14 days drilling operations

10 days completion operations

3000 PSI WP



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. One double gate blowout preventer with lower rams for pipe and upper rams blind, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold 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 preventers to have a pressure rating equivalent to that of the BOP's.
- F. Manual controls to be installed before drilling cement plug.
- G. Valve to control flow through drill pipe to be located on rig floor.
- H. Choke may be either positive or adjustable. Choke spool may be used between rams.

DIAGRAM 1