

OCD-ARTESIA

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

CONFIDENTIAL

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone2. Name of Operator: BASS ENTERPRISES PRODUCTION CO  
Contact: CINDI GOODMAN  
E-Mail: CDGOODMAN@BASSPET.COM3a. Address  
P O BOX 2760  
MIDLAND, TX 797023b. Phone No. (include area code)  
Ph: 432-683-22775. Lease Serial No.  
NMNM04228

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.  
NMNM68294X8. Lease Name and Well No.  
BIG EDDY UNIT 1539. API Well No.  
30-015-3401210. Field and Pool, or Exploratory  
GOLDEN LANE-MORROW

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SWSE 660FSL 1980FEL 32.27341 N Lat, 104.00164 W Lon

At proposed prod. zone SWSE 660FSL 1980FEL 32.27341 N Lat, 104.00164 W Lon

11. Sec., T., R., M., or Blk. and Survey or Area

Sec 20 T21S R29E Mer NMP  
SME: BLM14. Distance in miles and direction from nearest town or post office\*  
15 MILES EAST OF CARLSBAD, NM.12. County or Parish  
EDDY13. State  
NM15. Distance from proposed location to nearest property or  
lease line, ft. (Also to nearest drig. unit line, if any)  
660'

16. No. of Acres in Lease

160.00

RECEIVED

MAR 17 2005

17. Spacing Unit dedicated to this well

320.00

18. Distance from proposed location to nearest well, drilling,  
completed, applied for, on this lease, ft.  
N/A

19. Proposed Depth

13100 MD  
13100 TVD21. Elevations (Show whether DF, KB, RT, GL, etc.)  
3313 GL22. Approximate date work will start  
08/15/200523. Estimated duration  
47 DAYS

## 24. Attachments

CAPITAN CONTROLLED WATER BASIN

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature  
(Electronic Submission)Name (Printed/Typed)  
CINDI GOODMAN Ph: 432-683-2277Date  
02/14/2005Title  
AUTHORIZED REPRESENTATIVEApproved by (Signature)  
/s/ James StovallName (Printed/Typed)  
/s/ James StovallDate  
MAR 16 2005Title  
FOR FIELD MANAGEROffice  
CARLSBAD FIELD OFFICE

Application approval does not warrant or certify 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, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #54071 verified by the BLM Well Information System  
For BASS ENTERPRISES PRODUCTION CO, sent to the Carlsbad  
Committed to AFMSS for processing by LINDA ASKWIG on 02/14/2005 (05LA0388AE)APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS  
AND SPECIAL STIPULATIONS  
ATTACHED

WITNESS 13 3/8" Cement Job

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

**Additional Operator Remarks:**

Surface casing to be set into Rustler below all fresh water sands.  
Production casing will be cemented using Zone Seal Cement.  
Drilling Procedure, BOP Diagram, Anticipated tops and surface plans attached.

This well is located outside the Secretary's Potash area and outside the R-111 Potash area. There are no potash leases within 1 mile of the location.

## DISTRICT I

1825 N. French Dr., Hobbs, NM 88240

## DISTRICT II

811 South First, Artesia, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

## State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 77560	Pool Name GOLDEN LANE MORROW
Property Code 001776	Property Name BIG EDDY UNIT	Well Number 153
OGRID No. 001801	Operator Name BASS ENTERPRISES PRODUCTION COMPANY	Elevation 3313'

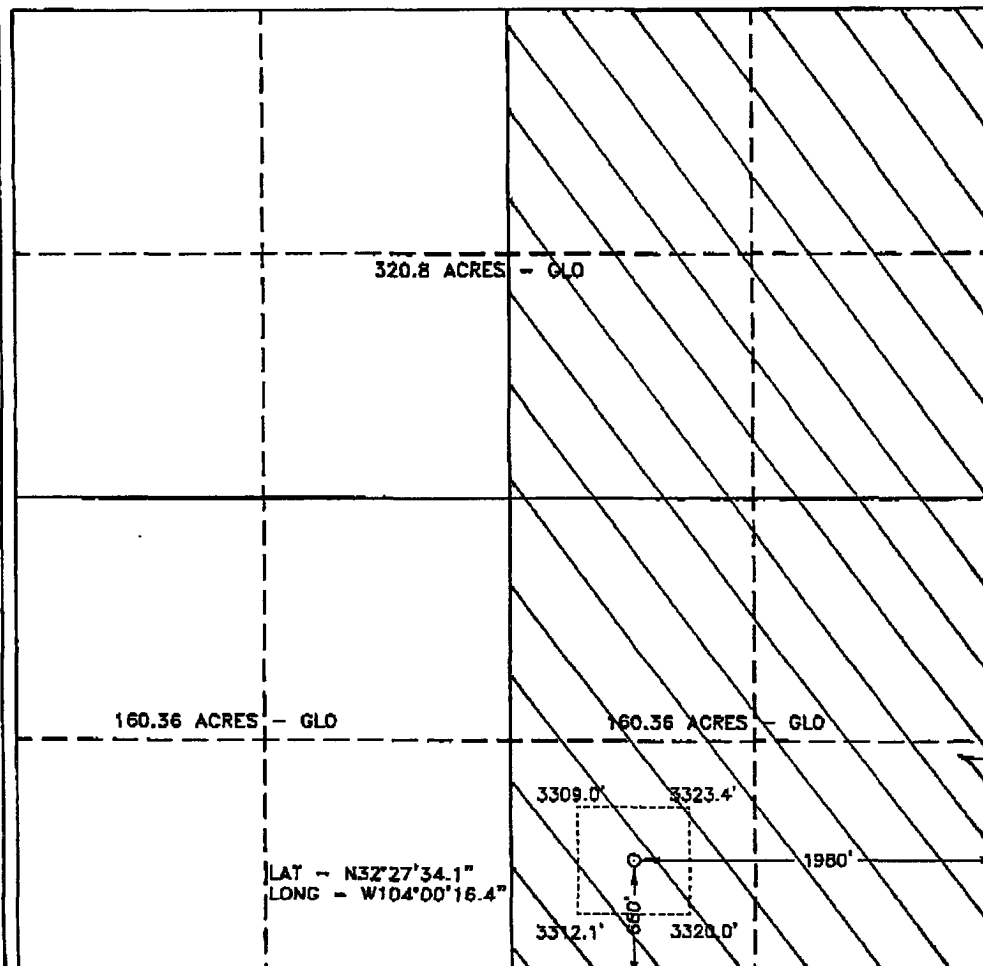
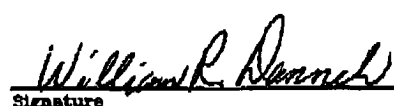
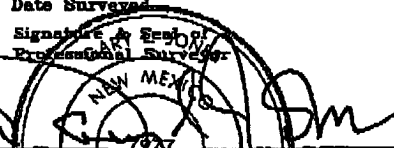
## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	20	21 S	29 E		660	SOUTH	1980	EAST	EDDY

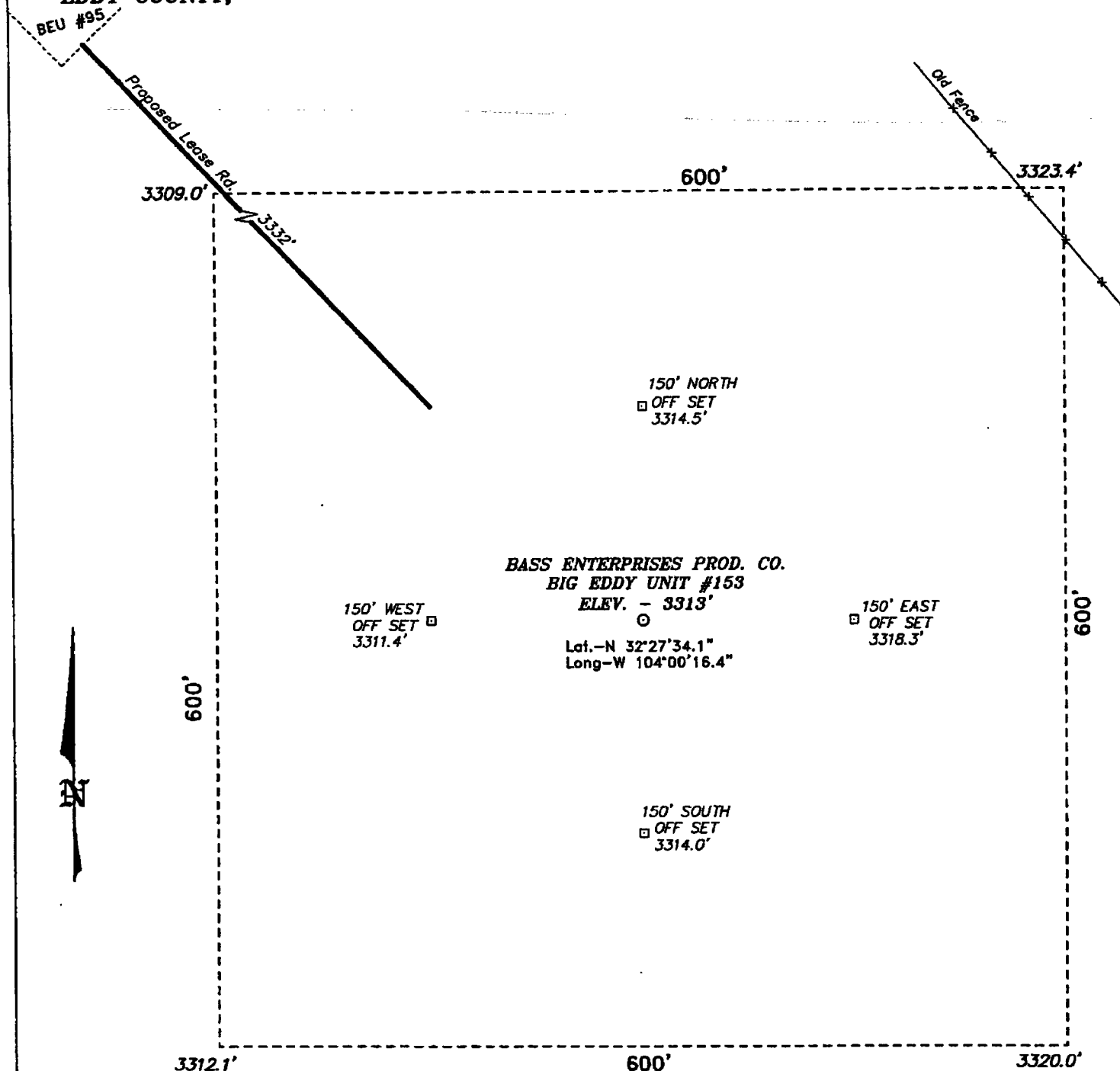
## Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill I	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

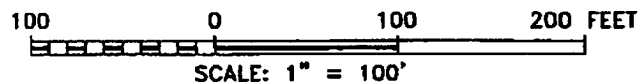
	<b>OPERATOR CERTIFICATION</b>  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.   Signature W.R. DANNELS Printed Name DIVISION DRILLING SUPT. Title 2-11-05 Date
	<b>SURVEYOR CERTIFICATION</b>  I hereby certify that the well location shown 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.  JANUARY 21, 2005 Date Surveyed  Signature W.O. No. 4986 Professional Surveyor Certificate No. Gary Jones 7977 BASS ENTERPRISES

# SECTION 20, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



## DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF US HWY 62/180 AND CO. RD. 699(LANDFILL ROAD), GO SOUTHEAST ON LANDFILL ROAD FOR 1.0 MILE TO LANDFILL; THENCE SOUTHEAST PAST LANDFILL FOR 1.0 MILE TO A "Y", GO LEFT(EAST) FOR 0.5 MILE TO DUKE B-3 BOOSTER; THENCE GO SOUTHEAST FOR 1.3 MILE; THENCE SOUTHEAST 1.3 MILE ALONG FENCE LINE TO THE BIG EDDY UNIT #95 AND PROPOSED LEASE ROAD.



## BASS ENTERPRISES PRODUCTION CO.

REF: BIG EDDY UNIT No. 153 / Well Pad Topo

THE BIG EDDY UNIT No. 153 LOCATED 660' FROM  
THE SOUTH LINE AND 1980' FROM THE EAST LINE OF  
SECTION 20, TOWNSHIP 21 SOUTH, RANGE 29 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

**BASIN SURVEYS** P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 4996

Drawn By: K. GOAD

Date: 01-26-2005

Disk: KJG CD#7 - 4996A.DWG

Survey Date: 01-21-2005

Sheet 1 of 1 Sheets

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

**NAME OF WELL: BIG EDDY UNIT #153**

**LEGAL DESCRIPTION - SURFACE: 660' FSL & 1980' FEL, Section 20, T21S, R29E, Eddy 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 3335' (est)  
GL 3313'

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUBSEA TOP</u>	<u>BEARING</u>
T/Rustler	135'	+ 3,200'	Barren
T/Salt	435'	+ 2,900'	Barren
T/Delaware Mtn Group	2,960'	+ 375'	Oil/Gas
T/Bone Spring	6,635'	- 3,300'	Oil/Gas
T/Atoka	11,475'	- 8,140'	Oil/Gas
T/UPR Morrow	12,035'	- 8,700'	Oil/Gas
T/Lower Morrow	12,745'	- 9,410'	Oil/Gas
TD	13,100'	- 9,765'	

## **POINT 3: CASING PROGRAM**

<u>TYPE</u>	<u>INTERVALS</u>	<u>PURPOSE</u>	<u>CONDITION</u>
20"	0' - 40'	Conductor	Contractor Discretion
13-3/8", 48#, H40, STC	0' - 390'	Surface	New
9-5/8", 36#, K-55, LTC	0' - 2,850'	Intermediate	New
7", 26#, HCP-110, LTC	0' - 13,100'	Production Casing	New

**POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)**

A rotating head will be nipped up on the surface casing. The rotating head will not be hydro-tested.

A BOP equivalent to Diagram 1 will be nipped up on the intermediate casing. The BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. will be hydro-tested to 5,000 psi. The annular will be tested to 2500 psi. In addition to the rated working pressure test, a low pressure (250 psi) test will be required. These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Twenty-one 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 1 for the minimum criteria for the choke manifold.

**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' - 390'	FW	8.5 - 9.2	45-35	NC	NC	NC	9.5
390' - 2,850'	SBW	9.8 - 10.2	28-30	NC	NC	NC	9.5
2,850' - 9,800'	FW	8.6 - 8.9	28-30	4	2	NC	9.5
9,800' - 11,300'	SBW	9.8 - 10.2	28-30	6	4	<20	9.5
11,300' - TD	BW/Polymer	10.0 - 11.5	32-55	12-20	12-22	10-15	9.5-10.0

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

Drill stem tests may be performed on significant shows in zones of interest, but none are anticipated.

**B) LOGGING**

One run at 13,100' PTD.

Run #1:

GR-CNL-LDT-LLD run from TD to ICP, GR-CNL to surface. May run logging suite across Delaware prior to drilling below 6000' if mud log shows warrant.

**C) CORING**

Several cores may be cut in the Morrow formation to determine shale stability and drilling fluid compatibility.

**D) CEMENT**

<u>SURFACE</u> <u>INTERVAL</u>	<u>AMOUNT SX</u>	<u>FT OF</u> <u>FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT<sup>3</sup>/SX</u>
Lead 0'-390' (100% Excess)	450	390	Premium Plus + 2% CaCl <sub>2</sub> + 1/4#/sx Pol-e-flake	6.32	14.80	1.34
<b>INTERMEDIATE</b>						
<u>INTERVAL</u>	<u>AMOUNT SXS</u>	<u>FT OF</u> <u>FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT<sup>3</sup>/SX</u>
Lead 0' - 2350' (100% Excess)	700	2350	Interfill C + 1/4#/sx Pol-e-flake	14.10	11.90	2.45
Tail 2350' - 2850' (100% Excess)	270	500	Premium Plus + 2% CaCl <sub>2</sub>	6.34	14.80	1.34
<b>PRODUCTION</b> (Two stage w/DV tool @ 8000' and circulate cement to 2500')						
<u>INTERVAL</u>	<u>AMOUNT SXS</u>	<u>FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT<sup>3</sup>/SX</u>
<b>1<sup>st</sup> Stage</b>						
LEAD 8000'-11,000' (50% excess)	275	3000	Interfill H + 5pps Gilsomite + 0.5% Halad 9 + 1/8 pps Pol-e-flake	13.61	11.90	2.46
TAIL 11,000'-13,100' (50% excess)	300	2100	Super H + 0.5% Halad 344 + 0.4% CFR3 + 5 pps Gilsomite + 1 pps Salt + 0.2% HRT	8.20	13.00	1.67
<b>2<sup>nd</sup> Stage</b>						
LEAD 2500'-7,300' (50% excess)	450	4800	Interfill H + 1/8 pps Pol-e-flake + 0.5% Halad 9	14.00	11.90	2.45
TAIL 7,300'-8,000' (50% excess)	100	700	Super H + 0.5% Halad 344 + 0.4% CFR3 + 5 pps Gilsomite + 1 pps Salt + 0.2% HRT	8.20	13.00	1.67

**E) DIRECTIONAL DRILLING**

No directional services anticipated. A straight hole will be drilled to 13,100' TD.

**POINT 7: ANTICIPATED RESERVOIR CONDITIONS**

Normal pressures are anticipated throughout the Delaware, Bone Spring & Wolfcamp sections. The Atoka expected BHP is 6578 (max) or an equivalent mud weight of 11.0 ppg. The Morrow will be normally pressured. The expected BHT at TD is 200°F. No H<sub>2</sub>S is anticipated.

**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

47 days drilling operations

20 days completion operations

2-11-05

Date

WCH/cdg

William R. Dannels  
William R. Dannels



**MULTI-POINT SURFACE USE PLAN****NAME OF WELL: BIG EDDY UNIT #153****LEGAL DESCRIPTION – SURFACE:** 660' FSL & 1980' FEL, Section 20, T21S-R29E, Eddy County, NM**POINT 1: EXISTING ROADS****A) Proposed Well Site Location**

See Exhibit "A".

**B) Existing Roads:**

Turn South off Hwy 62-180 between mile markers 46 and 47 (road to Sandpoint Landfill) and go 0.9 miles. Turn right and follow road around landfill 0.5 miles, then veer right and go 0.6 miles. Turn left and go 2.0 miles then turn right and go 1.4 miles. Turn left and go through cattle guard to Big Eddy Unit #94 location. New lease road goes 0.6 miles southeast to location.

**C) Existing Road Maintenance or Improve Plan:**

See Exhibit "A"

**POINT 2: NEW PLANNED ACCESS ROUTE****A) Route Location:**

See Exhibit "A". The new road will be 12' wide and approximately 3300' long from existing lease road. The road will be constructed of watered and compacted caliche.

**B) Width**

12' Wide.

**C) Maximum Grade**

Not Applicable.

**D) Turnouts**

As required by BLM stipulations

**E) Culverts, Cattle Guards, and Surfacing Equipment**

None

**POINT 3: LOCATION OF EXISTING WELLS**

Exhibits "A" and "B" indicates existing wells within the surrounding area.

**POINT 4: LOCATION OF EXSITING OR PROPOSED FACILITIES****A) Existing facilities within one mile owned or controlled by lessee/operator:**

Bass production facilities are located at Bass Big Eddy Unit #94 wellsite.

## I) Archeological Resources

An archeological survey will be obtained for this area. The survey area will be a 750' x 750' square with its center on the wellhead stake. Before any construction begins, a full and complete archeological survey will be submitted to the BLM. Any location or construction conflicts will be resolved before construction begins.

## J) Surface Ownership

The well site and access road are both on federally owned land.

## K) Well signs will be posted at the drilling site.

## L) Open Pits

All pits containing liquid or mud will be fenced and bird-netted.

**POINT 12: OPERATOR'S FIELD REPRESENTATIVE**

(Field personnel responsible for compliance with development plan for surface use).

DRILLING  
William R. Dannels  
Box 2760  
Midland, Texas 79702  
(432) 683-2277

PRODUCTION  
Mike Waygood  
3104 East Green Street  
Carlsbad, New Mexico 88220  
(505) 887-7329

Kent A. Adams  
Box 2760  
Midland, Texas 79702  
(432) 683-2277

**POINT 13: CERTIFICATION**

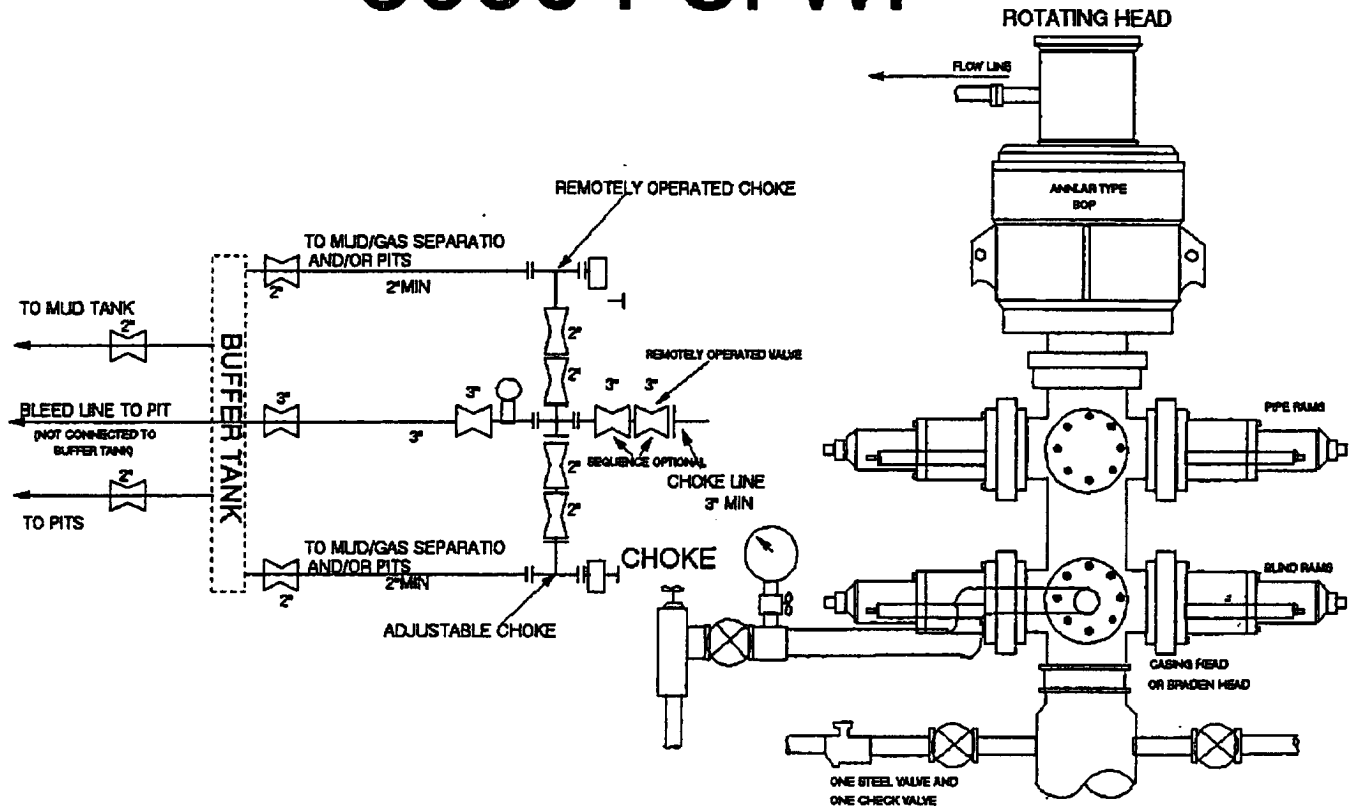
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Bass Enterprises Production Co. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

2-11-05  
Date

William R. Dannels  
William R. Dannels

WCH/cdg

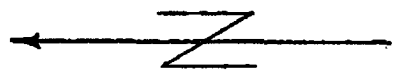
# 5000 PSI WP



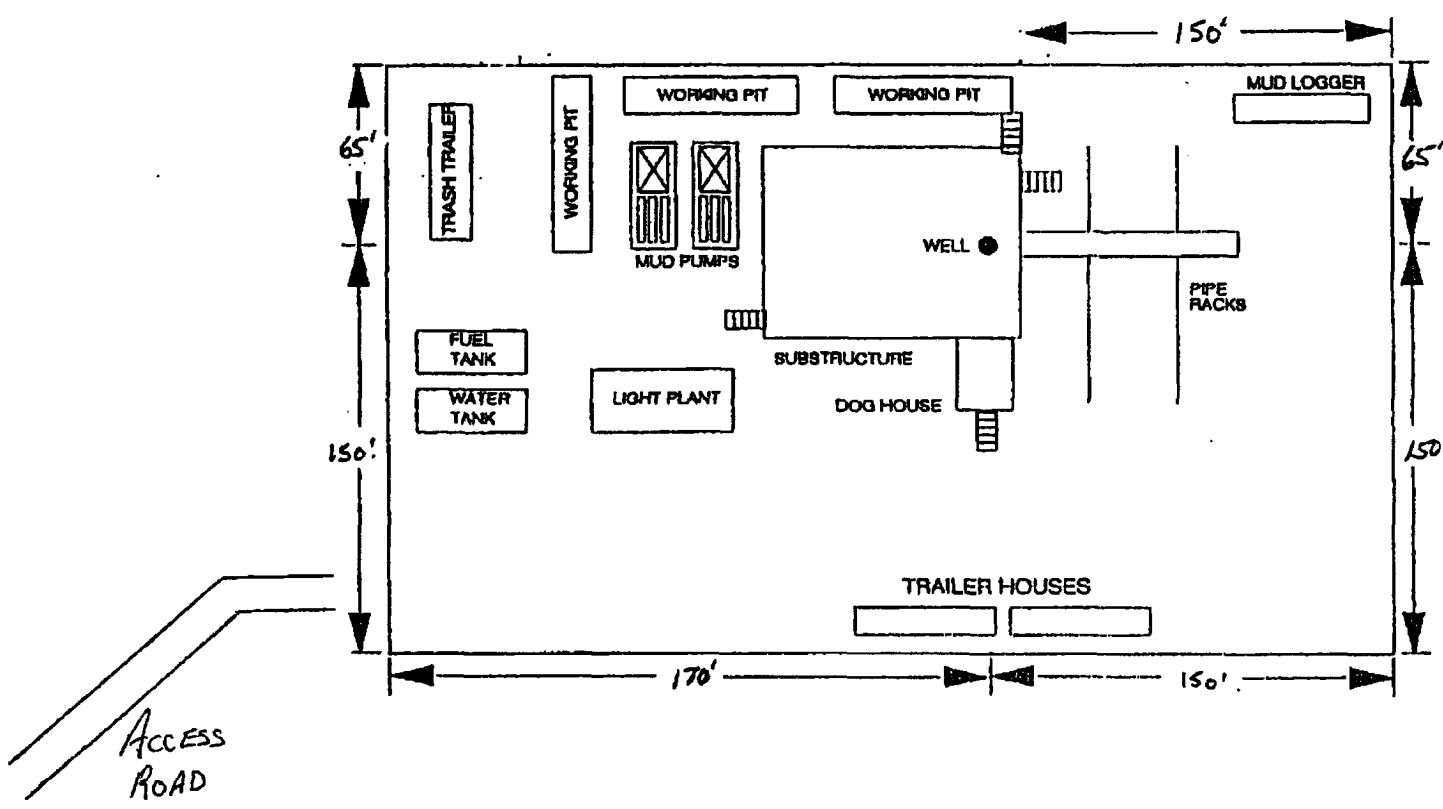
## THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- 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. All chokes will be adjustable. Choke spool may be used between rams.

DIAGRAM 1



# RESERVE PIT



# BASS ENTERPRISES PRODUCTION COMPANY

## PIT DIAGRAM

OVER 8500'

