

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

EC

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		<b>CONFIDENTIAL</b>		5. Lease Serial No. NMLC069219
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		2. Name of Operator BASS ENTERPRISES PRODUCTION CO		6. If Indian, Allottee or Tribe Name
3a. Address P O BOX 2760 MIDLAND, TX 79702		3b. Phone No. (include area code) Ph: 432-683-2277		7. If Unit or CA Agreement, Name and No. NMNM68294X
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NESE 1980FSL 660FEL 32.26581 N Lat, 104.03027 W Lon At proposed prod. zone NESE 1980FSL 660FEL 32.26581 N Lat, 104.03027 W Lon		9. API Well No. 30-015-34010		8. Lease Name and Well No. BIG EDDY UNIT 152
14. Distance in miles and direction from nearest town or post office* 12 MILES EAST OF CARLSBAD, NM		12. County or Parish EDDY		10. Field and Pool, or Exploratory INDIAN FLATS Marrow
15. 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 <b>RECEIVED</b> MAR 17 2005 OCD-ARTESIA		11. Sec., T., R., M., or Blk. and Survey or Area Sec 26 T21S R28E Mer NMP SME: BLM
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1700'		19. Proposed Depth 12850 MD 12850 TVD		12. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc.) 3208 GL		22. Approximate date work will start 06/01/2005		13. Spacing Unit dedicated to this well 320.00
23. Estimated duration 45 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: 432-683-2277	Date 02/14/2005
Title AUTHORIZED REPRESENTATIVE		
Approved by (Signature) /s/ James Stovall	Name (Printed/Typed) /s/ James Stovall	Date MAR 16 2005
Title FOR FIELD MANAGER		
Office 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 #54070 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 (05LA0387AE)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 & surface plans attached.

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

## DISTRICT I

1825 N. French Dr., Hobbs, NM 88240

## State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised March 17, 1999

## DISTRICT II

811 South First, Artesia, NM 88210

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

## DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 79080	Pool Name INDIAN FLATS MORROW
Property Code 001776	Property Name BIG EDDY UNIT	Well Number 152
OGRID No. 001801	Operator Name BASS ENTERPRISES PRODUCTION COMPANY	Elevation 3208'

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	26	21 S	28 E		1980	SOUTH	660	EAST	EDDY

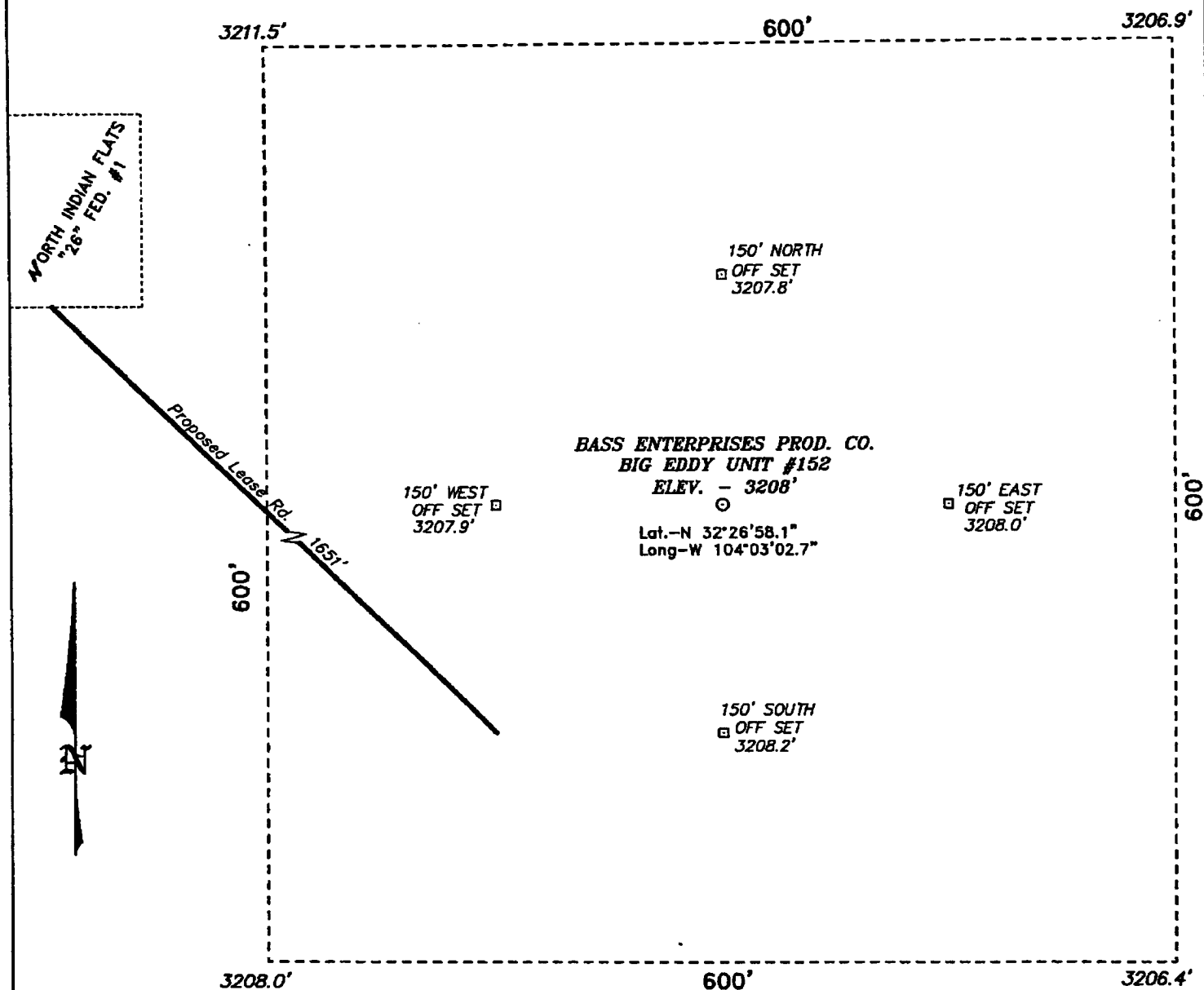
## Bottom Hole Location If Different From Surface

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

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

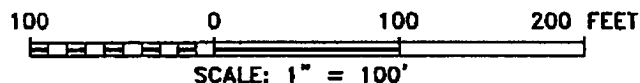
		<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature W.R. DANNELS Printed Name DIVISION DRILLING SUPT. Title 2/10/05 Date
		<b>SURVEYOR CERTIFICATION</b>  I hereby certify that the well location shown 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 & Seal of Professional Surveyor  Certification No. W.O. N8774995 7977

# SECTION 26, TOWNSHIP 21 SOUTH, RANGE 28 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 RIGHT (WEST) FOR 0.3 MILE TO A DRY HOLE; THENCE GO SOUTH ON PIPELINE R/W FOR 0.8 MILE TO BIG EDDY TANK BATTERY; THENCE SOUTH ON LEASE ROAD FOR 1.0 MILE TO THE BASS NORTH INDIAN FLATS "26" #1 AND PROPOSED LEASE ROAD.



## BASS ENTERPRISES PRODUCTION CO.

REF: BIG EDDY UNIT No. 152 / Well Pad Topo

THE BIG EDDY UNIT No. 152 LOCATED 1980' FROM  
THE SOUTH LINE AND 660' FROM THE EAST LINE OF  
SECTION 26, TOWNSHIP 21 SOUTH, RANGE 28 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 4995

Drawn By: K. GOAD

Date: 01-26-2005

Disk: KJG CD#7 - 4995A.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 #152**

**LEGAL DESCRIPTION - SURFACE: 1980' FSL & 660' FEL, Section 26, T21S, R28E, 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 3230' (est)  
GL 3208'

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUBSEA TOP</u>	<u>BEARING</u>
T/Rustler	Outcrops at surface		
T/Salt	510'	+ 2720'	Barren
T/Delaware Mtn Group	2,690'	+ 540'	Oil/Gas
T/Bone Spring	6,280'	- 3,050'	Oil/Gas
T/Atoka	11,190'	- 7,960'	Oil/Gas
T/UPR Morrow	11,745'	- 8,515'	Oil/Gas
T/Lower Morrow	12,480'	- 9,250'	Oil/Gas
TD	12,850'	- 9,620'	

**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' - 470'	Surface	New
9-5/8", 36#, K-55, LTC	0' - 2,650'	Intermediate	New
7", 26#, HCP-110, LTC (contingent)	0' - 12,850'	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' - 470'	FW	8.5 - 9.2	45-35	NC	NC	NC	9.5
470' - 2,650'	SBW	9.8 - 10.2	28-30	NC	NC	NC	9.5
2,650' - 9,500'	FW	8.6 - 8.9	28-30	4	2	NC	9.5
9,500' - 11,000'	SBW	9.8 - 10.2	28-30	6	4	<20	9.5
11,000' - 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 12,850' 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' - 220' (100% excess)	170	220	Permian Basin Critical Zone + 1/4#/sx Pol-e-flake	10.30	12.80	1.89
Tail						
220'-470' (100% Excess)	290	250	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' - 2150' (100% Excess)	600	2150	Interfill C + 1/4#/sx Pol-e-flake	14.10	11.90	2.45
Tail						
2150' - 2650' (100% Excess)	240	500	Premium Plus + 2% CaCl <sub>2</sub>	6.34	14.80	1.34
<b>PRODUCTION (Two stage w/DV tool @ 8000' and circulate cement to 2500')</b>						
<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>
1 <sup>st</sup> Stage						
LEAD						
8000'-10,800' (50% excess)	260	2800	Interfill H + 5pps Gilsomite + 0.5% Halad 9 + 1/8 pps Pol-e-flake	13.61	11.90	2.46
TAIL						
10,800'-12,850' (50% excess)	280	2050	Super H + 0.5% Halad 344 + 0.4% CFR3 + 5 pps Gilsomite + 1 pps Salt + 0.2% HRT	8.20	13.00	1.67
2 <sup>nd</sup> Stage						
LEAD						
2300'-7300' (50% excess)	450	5000	Interfill H + 1/8 pps Pol-e-flake + 0.5% Halad 9	14.00	11.90	2.45
TAIL						
7,300'-9,000' (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 12,850' TD.

**POINT 7: ANTICIPATED RESERVOIR CONDITIONS**

Normal pressures are anticipated throughout the Delaware, Bone Spring & Wolfcamp sections. The Atoka expected BHP is 6580 (max) or an equivalent mud weight of 11.3 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

45 days drilling operations

20 days completion operations

2/10/05  
Date

WCH/cdg

William R. Dannels  
William R. Dannels



## 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**

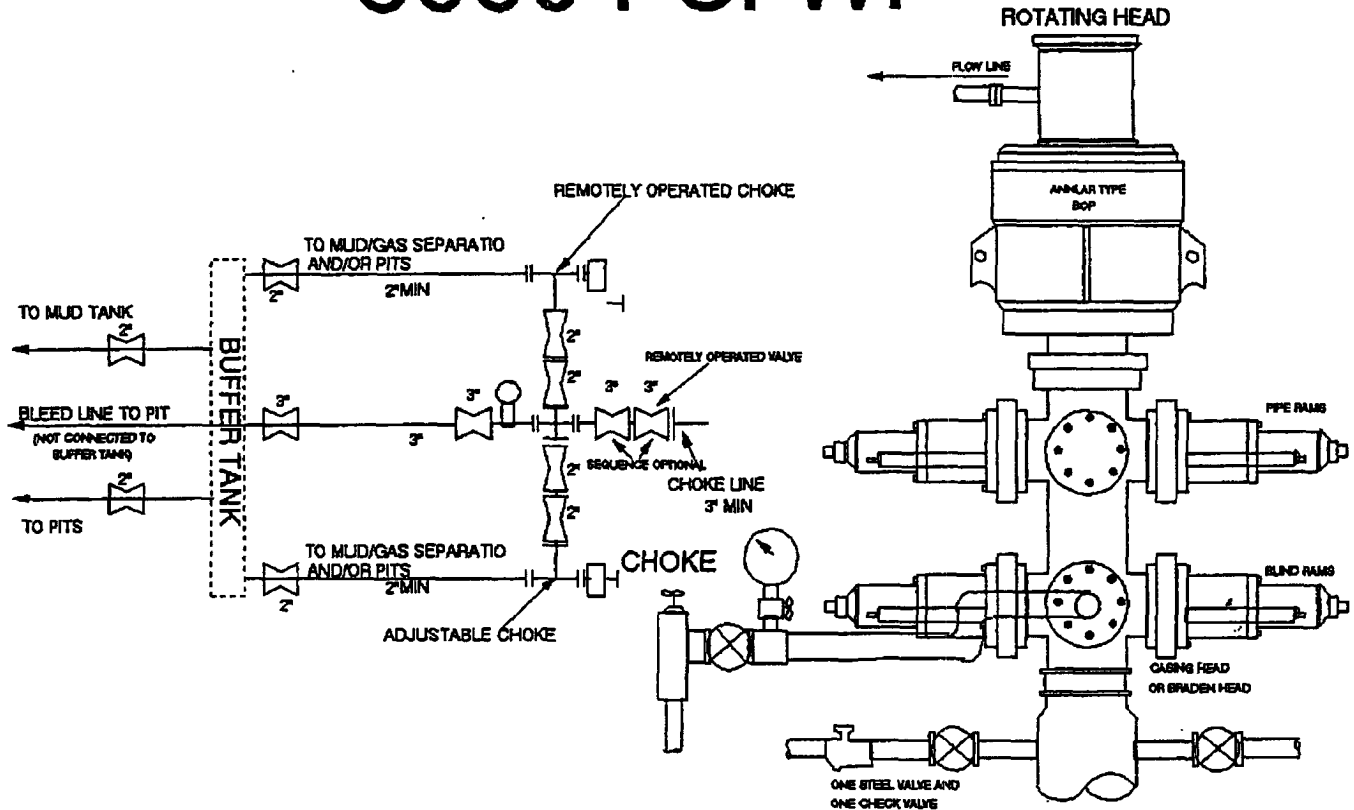
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Bass Enterprises Production Co. and it's 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.

2/10/05  
Date

William R. Dannels  
William R. Dannels

WCH:cdg

# 5000 PSI WP

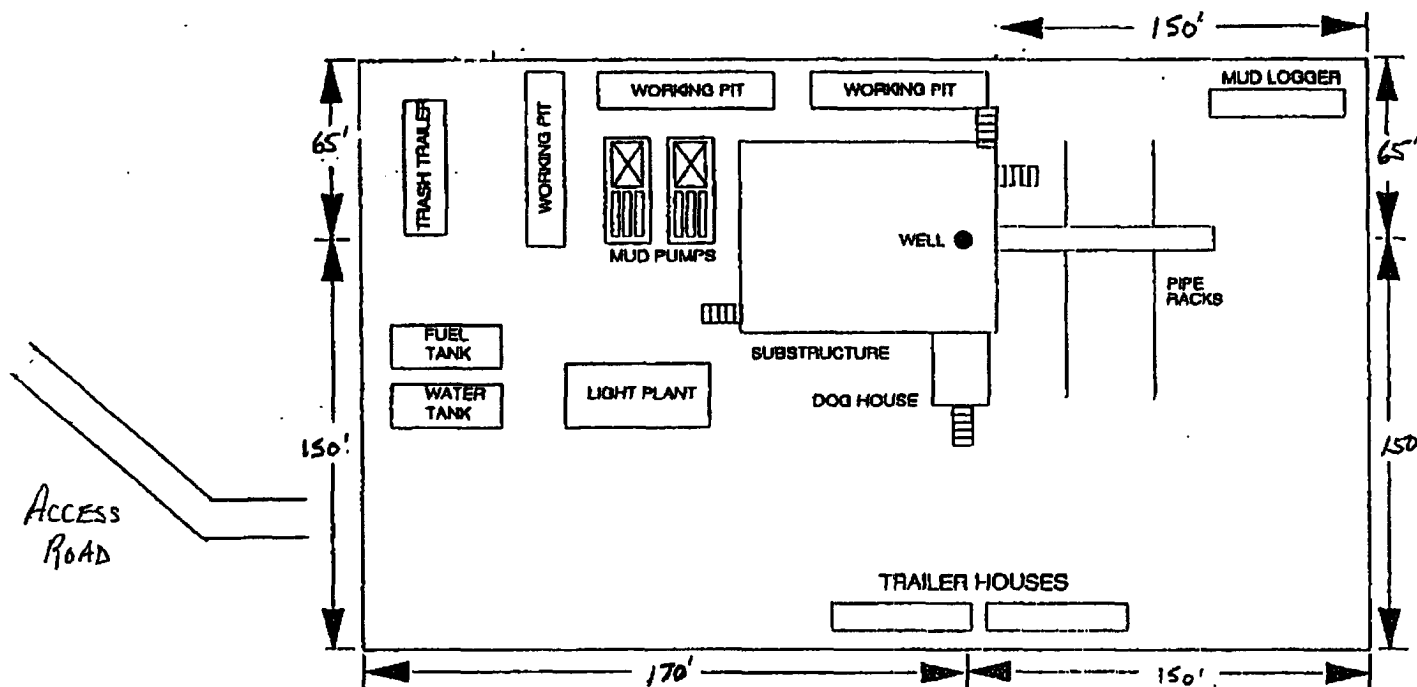


## THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- 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'

