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| APPL | CATION FOR I | PERMIT TO | O DRI | LL OR [| EEPE | <u>N</u> | 7. UNIT AGREEMENT NAM | | |
| h. TYPE OF WELL SILL | ILL A | DEEPEN [| | | | | JAMES RANCH UNIT | | |
| OIL X | WELL OTHER | | SI | INGLE ZONE | MULTIPI ZONE | LE X | S. PARM OR LEASE NAME, JAMES RANCH UN | | |
| 2. NAME OF OPERATOR | | | , | | | · | JAMES MANGE ON | .11 /3 | |
| Bass Enterprises 3. ADDRESS AND TELEPHONE | | 18 | 0/ | | <u> </u> | | 9. API WELL NO. | 3105/ | |
| | Idland, TX 79702-2 | 83-2277 | 10. FIELD AND POOL, OR W | VILDCAT | | | | | |
| 4. LOCATION OF WELL (Repo | ort location clearly and in accord | ance with any State r | F | - | | | LOS MEDANOS (W | OLFCAMP, SOUTH | |
| | FEL, SECTION 6, T23 | S, R31E | R. | | | 1 | 11. SEC., T., R., M., OR BLI AND SURVEY OR AREA | <u>C.</u> | |
| At proposed prod. zone | A Loz 1 | £ | عُوها في في جي | Bully 5 | OTAS | H | SEC 6. T23S. R | 31E | |
| 14. DISTANCE IN MILES AND | DIRECTION FROM NEAREST TOW | N OR POST OFFICE* | | | | | 12. COUNTY OR PARISH | 13. STATE | |
| 16.7 MILES EAST (| | | 16 NO 0 | OF ACRES IN LEAS | | 17 NO OF A | ACRES ASSIGNED | NM | |
| LOCATION TO NEAREST | | 685 | |)E | TO THIS Y | | | | |
| (A)so to nearest drig unit 18. DISTANCE PROM PROPOSI | ED LOCATION* | · | | OSED DEPTH | | 20. ROTARY | OR CABLE TOOLS | | |
| TO NEAREST WELL, DRIL OR APPLIED FOR, ON THIS | | | 11, | 500' | | ROTA | RY | | |
| 21. ELEVATIONS (Show whet | her DF,RT, GR, etc.) | DI 6955 C | apo for all anno eric | on the second second | an en un | | 22. APPROX. DATE WOR | | |
| GR 3326' | · · | n La Maria | | | | RACHN | UPON APPROVA | <u>. </u> | |
| 23. | 1 | ROPOSED CASING | AND CE | MENTING PRO | GRAM | | | | |
| SIZE OF HOLE | GRADE SIZE OF CASING | WEIGHT PER FOO | Υ | SETTING D | | 400 SV | CIRC TO SURFACE | E | |
| *14-3/4" **11" | 11-3/4" WC40 8-5/8" WC50 | 42# 28# & 32 |)# | 4000 | | | CIRC TO SURFACE | | |
| 7-7/8* | 5-1/2" P110 | 20 # a 32 | -π | 11.50 | | | X CIRC TO SURFAC | | |
| , ,,,, | 1 3 3/2 1 2 3 | " | Ì | , | | 1 | | | |
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| IN ABOVE SPACE DESCRIP | BE PROPOSED PROGRAM: | If proposal is to dee | pen, give d true vertic | lata on present p al depths. Give b | ine CLA | La Fripol program | LAI UND zone. If j | proposal is to drill or | |
| | tinent data on subsurface location | | | | | 150 | | OCA | |
| signed Wille | am R. Dann | elv r | W. TILE DIV | R. DANNELS ISION DRIL | LING SU | PT. | DATE | -7-99 TayiHqq | |
| (This space for Federal c | or State office use) | | | | | | | | |
| PERMIT NO. | | | | APPROVAL DA | re | | | | |
| | warrant or certify that the applicant h | | | | | ATAB | | | |
| APPROVED BY | <u>, , , , , , , , , , , , , , , , , , , </u> | *See Instr | rLE —— uctions (| On Reverse Si | de | | DATE - | | |

Title 18 U.S.C. Section 1001, makes 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.

THOUSON WINDSON

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Rangy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 68210

1000 Rio Brazos Rd., Astec, NM 57410

DISTRICT III

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

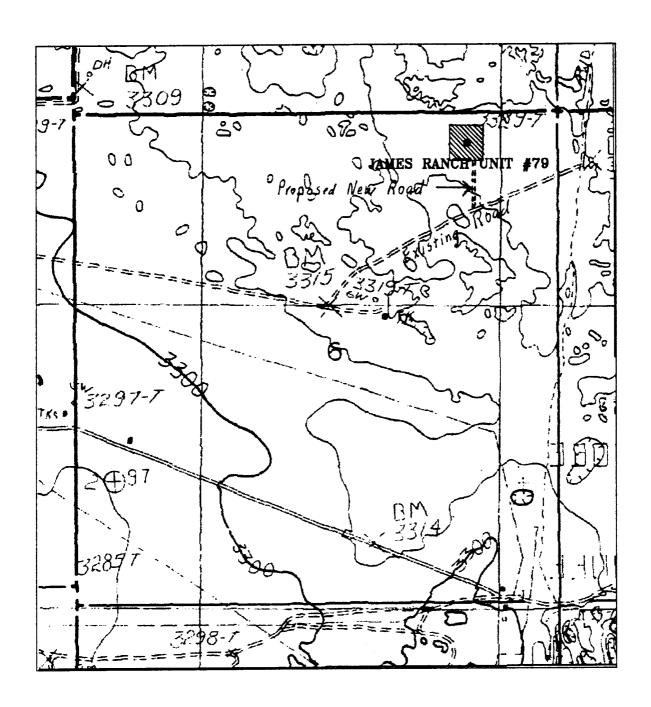
M AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| API | Number | | Pool Code | | | Pool Name | | | |
|-------------------------|-------------------------------------|---------------------------|---------------|----------|-----------------|------------------|---------------|---------------------------------------|---------|
| | | | | | Los | Medanos (Wol | fcamp, Bone | Spring, Del | laware) |
| Property (| Code | Property Name Well Number | | | | | | | |
| | JAMES RANCH UNIT | | | | | | 79 | | |
| OGRID No. Operator Name | | | | | | Eleva | Elevation | | |
| 001801 | BASS ENTERPRISES PRODUCTION COMPANY | | | | | | 332 | 3326' | |
| | Surface Location | | | | | | | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| LOT 1 | 6 | 23 S | 31 E | | 330 | NORTH | 990 | EAST | EDDY |
| | | | Bottom | Hole Loc | cation If Diffe | rent From Sur | face | | |
| 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 o | r Infill Con | neolidation (| Code Or | der No. | | | • • • • • • • • • • • • • • • • • • • | |
| 40 | Ιγ | | | | | | | | |
| | | <u></u> | | | | | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OD A NON-CTANDADD HAT HAC DEEN ADDROVED BY THE DIVISION

| OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION | | | | | | | | |
|--|-------------------|--|---|--|--|--|--|--|
| | | 3326;0', \\ 3329;3'\\ 990'\\ 3323.6', \\ 3324.6'\\ | OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. William R. Jannel | | | | | |
| Lot 4 - 40.45 Ac. | Lot 3 - 39.90 Ac. | Lot 2 - 39.94 Ac. Lot 1 = 39.98 | Ac. Signature | | | | | |
| | 1 | Ĭ | William R. Dannels Printed Name | | | | | |
| | i - | | Division Drilling Supt. | | | | | |
| | | | 12-7-99 Date | | | | | |
| Lot 5 - 40.79 Ac. | | | 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 supervison and that the same is true and correct to the best of my belief. | | | | | |
| | | | November 5, 1999 Date Surveyed JONES Signature S. Seel of S | | | | | |
| <u>Lot 6 - 40.96 Ac.</u> | | | Professional Morester W. No. 9393 | | | | | |
| Lot 7 - 41.15 Ac. | | | Certificate No. Gary No. 7977 BASIN SURVEYS | | | | | |



JAMES RANCH UNIT #79
Located at 330' FNL and 990' FEL
Section 6, Township 23 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

| W.O. Number: | 9393AA - KJG #122 |
|----------------|-------------------|
| Survey Date: | 11-05-99 |
| Scale: 1" = 10 | 000, |
| Date: 11-08- | -99 |

Bass Enterprises Production Co.

EIGHT POINT DRILLING PROGRAM BASS ENTERPRISES PRODUCTION CO.

NAME OF WELL: JAMES RANCH UNIT #79

LEGAL DESCRIPTION - SURFACE: 330' FNL & 990' FEL, Section 6, T-23-S, R-31-E, 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 3340' (est)

GL 3326'

| FORMATION | ESTIMATED TOP FROM KB | ESTIMATED SUBSEA TOP | BEARING |
|--------------------------------|--------------------------|-------------------------|---------|
| T/Rustler | 325' | +3015' | Barren |
| T/Salt | 751' | +2589' | Barren |
| B/Salt | 3747' | - 407' | Barren |
| T/Lamar | 3987' | - 647' | Barren |
| T/ Lwr Brushy Canyon | 7585' | - 4245' | Oil/Gas |
| T/ 3 rd Bone Spring | 10,995' | - 7655' | Oil/Gas |
| T/Wolfcamp | 11,120' | - 7780' | Oil/Gas |
| TD | 11,500' | - 8160' | |

POINT 3: CASING PROGRAM

| TYPE | INTERVALS | <u>PURPOSE</u> | CONDITION |
|--------------------------|-----------------|----------------|-----------|
| 16" | 0' - 40' | Conductor | New |
| 11-3/4", 42#, WC-40, STC | 0' - 700' | Surface | New |
| 8-5/8", 28#, WC-50, LTC | 0' - 3,000' | Intermediate | New |
| 8-5/8", 32#, WC-50, LTC | 3,000' - 4,000' | Intermediate | New |
| 5-1/2", 17#, P110, LTC | 0' - 11,500' | Production | New |

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)

A BOP equivalent to Diagram 1 will be nippled up on the surface casing head. A BOP equivalent to Diagram 2 will be nippled up prior to drilling the production hole. 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) Fourteen days after a previous test
- d) As required by well conditions

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM) Continued...

A function test of annular, pipe and blind rams to insure that the preventers are operating correctly will be performed on each trip. A function test is required only a minimum of once every 24 hours. See the attached diagrams for the minimum criteria for the choke manifold.

POINT 5: MUD PROGRAM

| DEPTH | MUD TYPE | WEIGHT | <u>_FV_</u> | <u>PV</u> | YP | FL | Ph |
|------------------|-------------|-----------|-------------|-----------|----|------|-----------|
| 0' - 700' | FW Spud Mud | 8.4 - 9.0 | 32-38 | NC | NC | NC | 10.0 |
| 700' - 4,000' | BW | 9.8 -10.2 | 29 | NC | NC | NC | 10.0-10.5 |
| 4,000' - 7,500' | FW Mud | 8.4 - 8.6 | 28-30 | NC | NC | NC | 9.5-10.0 |
| 7,500' - 11,500' | FW Mud | 8.6 - 9.2 | 28-40 | 4 | 10 | <100 | 9.5-10.0 |

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

None anticipated.

B) LOGGING

GR-CNL-LDT-AIT from TD to 8-5/8" casing. GR-CNL from 8-5/8" casing shoe to surface.

C) CONVENTIONAL CORING

None anticipated.

D) CEMENT

| -, | | FT OF | | | | |
|-----------------------------|---|-------------|--|---------|------------|--------|
| INTERVAL SURFACE LEAD | AMOUNT SXS | <u>FILL</u> | TYPE | GALS/SX | <u>PPG</u> | FT³/SX |
| 0-400' | 200 (100% excess circ to surface) | 410 | 35/65 Poz C + 4% gel +2% CaCl ₂ + 1/4#/sk Cellophane | 9.17 | 13.5 | 1.74 |
| TAIL 400-700' | 200 (100% excess circ to surface) | 300 | Class "C" + 2% CaCl ₂ | 6.36 | 14.8 | 1.34 |
| INTERMEDIATE LEAD | | | | | | |
| 0-3500' | 725 (100% excess circ to surface) | 3500 | 50/50 Poz C +10% gel + 5% Salt + 1/4#/sk Cellophane | 12.59 | 12.1 | 2.24 |
| TAIL | | | 01 | | 440 | 4.04 |
| 3500'-4000' | 190 (100% excess circ to surface) | 500 | Class C + 1% CaCl₂ | 6.32 | 14.8 | 1.34 |
| PRODUCTION 1st Stage LEAD | | | | | | |
| 5700-7100° | 150 (50% excess tie back to int csg) | 1400 | Infill H + 1/4# Cellophane | 14.28 | 11.9 | 2.46 |
| TAIL 7100-11,500' | 700 (50% excess) | 4400 | Super H + 0.4% CFR-3 + 0.5% Halad 344 + 1#/sx Salt | 8.17 | 13.0 | 1.66 |

D) CEMENT - Con't...

2nd Stage LEAD:

| | | Ft of | | | | |
|---------------------|------------------|--------------|---------------------------------------|------------------------|--------------|----------------|
| Interval 0-5200' | Amount 920 sx | Fill 5200 | Type Interfill C + 1/4# Celloflake | <u>Gal/sk</u> 14.28 | PPG 11.09 | Ft3/sk 2.46 |
| TAIL: | | | | | | |
| | | Ft of | | | | |
| Interval | Amount | <u>Fill</u> | Type | Gal/sk | PPG | Ft3/sk |
| 5200-5700' | 100 sx | 500 | Premium Plus + 0.6% Halad 9 | 6.25 | 14.80 | 1.32 |

E) DIRECTIONAL DRILLING

No directional services anticipated.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout the Delaware section. The Bone Spring expected BHP is 6000 (max) or an equivalent mud weight of 10.0 ppg @ TD. Due to the tight nature of the reservoir rock (high pressure, low volume), the well will be drilled under balanced utilizing a rotating head. The expected BHT at TD is 170°F. Prior to penetrating the abnormal pressures in the Bone Spring and Wolfcamp, mud monitoring equipment will be installed and operative. No H₂S 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

25 days drilling operations

10 days completion operations

BGH/mac 12/7/99

MULTI-POINT SURFACE USE PLAN

NAME OF WELL: JAMES RANCH UNIT #79

LEGAL DESCRIPTION - SURFACE: 330' FNL & 990' FEL, Section 6, T-23-S, R-31-E, Eddy County, New Mexico.

POINT 1: EXISTING ROADS

A) Proposed Well Site Location:

See Exhibits "A" & "B".

B) Existing Roads:

From Jal, NM go west on Hwy 128 approximately 47 miles (10 miles east of intersection of Hwy 31 & Hwy 128). Go North on paved (WIPP) road for 1 mile. Turn east and go 0.9 miles. Turn left and to 0.4 miles and turn north to location.

C) Existing Road Maintenance or Improvement Plan:

See Survey Plat and Exhibit "B".

POINT 2: NEW PLANNED ACCESS ROUTE

A) Route Location:

See Survey Plat and Exhibit "B". A new road will be constructed from the existing road, 200' south of location.

B) Width

12'.

C) Maximum Grade

Not applicable.

D) Turnout Ditches

None.

E) Culverts, Cattle Guards, and Surfacing Equipment

None.

POINT 3: LOCATION OF EXISTING WELLS

Exhibit "A" indicates existing wells within the surrounding area.

POINT 4: LOCATION OF EXISTING OR PROPOSED FACILITIES

A) Existing facilities within one mile owned or controlled by lessee/operator:

Oil/Gas production facilities are located 1850' southwest at James Ranch Unit #7 location. (See Exhibit A)

B) New Facilities in the Event of Production:

None, production will be piped along roadway southeast to James Ranch Unit #7 Battery. (See Exhibit A)

C) Rehabilitation of Disturbed Areas Unnecessary for Production:

Following the construction of production facilities, those access areas required for continued production will be graded to provide drainage and minimize erosion. The areas unnecessary for use will be graded to blend in with the surrounding topography (See Point 10).

POINT 5: LOCATION AND TYPE OF WATER SUPPLY

A) Location and Type of Water Supply

Brine water will be trucked from Bass' James Ranch Unit #29 and James Ranch Unit #19 Production Facilities. If necessary, additional brine water will be hauled from commercial facilities. Fresh water will be pumped from a well located on the J. C. Mills Ranch in Sec. 6, T23S, R31E.

B) Water Transportation System

A poly pipeline will be connected from the J. C. Mills Ranch water well.

Water hauling to the location will be over existing and proposed roads.

POINT 6: SOURCE OF CONSTRUCTION MATERIALS

A) Materials

If not found on location, source of caliche will be the nearest open pit approved by BLM.

B) Land Ownership

Federally owned.

C) Materials Foreign to the Site

No construction materials foreign to this area are anticipated for this drill site.

D) Access Roads

See Exhibit "B".

POINT 7: METHODS FOR HANDLING WASTE MATERIAL

A) Cuttings

Cuttings will be contained in the plastic lined reserve pit.

B) Drilling Fluids

Drilling fluids will be contained in the plastic lined reserve pit.

C) Produced Fluids

Water production will be contained in the plastic lined reserve pit.

Hydrocarbon fluid or other fluids that may be produced during testing will be retained in test tanks. Prior to cleanup operations, any hydrocarbon material in the reserve pit will be removed by skimming or burning as the situation would dictate.

D) Sewage

Current laws and regulations pertaining to the disposal of human waste will be complied with.

E) Garbage

Portable containers will be utilized for garbage disposal during the drilling of this well.

F) Cleanup of Well Site

Upon release of the drilling rig, the surface of the drilling pad will be graded to accommodate a completion rig if electric log analysis indicate potential productive zones. In any case, the "mouse" hole and the "rat" hole will be covered. The reserve pit will be fenced and the fence maintained until the pit is backfilled. Reasonable cleanup will be performed prior to the final restoration of the site.

POINT 8: ANCILLARY FACILITIES

None.

POINT 9: WELL SITE LAYOUT

A) Rig Orientation and Layout

Exhibit "C" shows the dimensions of the well pad and reserve pits, and the location of major rig components. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary.

B) Locations of Pits and Access Road

See Exhibit "C".

C) Lining of the Pits

The reserve pits will be lined with plastic.

POINT 10: PLANS FOR RESTORATION OF THE SURFACE

A) Reserve Pit Cleanup

The pits will be fenced immediately after spudding and shall be maintained until they are backfilled. The pits will be netted immediately after the drilling rig moves off location. Previous to backfill operations, any hydrocarbon material on the pits' surfaces shall be removed. The fluids and solids contained in the pits shall be backfilled with soil excavated from the site and soil adjacent to the reserve pits. The restored surface of the pits shall be contoured to prevent impoundment of surface water flow. Water-bars will be constructed as needed to prevent excessive erosion. Topsoil, as available, shall be placed over the restored surface in a uniform layer. The area will be seeded according to the Bureau of Land Management stipulations during the appropriate season following restoration.

B) Restoration Plans - Production Developed

Reserve pits will be backfilled and restored as described above under Item A. In addition, those areas not required for production will be graded to blend with the surrounding topography. Topsoil, as available, will be placed upon those areas and seeded. The portion of the site required for production will be graded to minimize erosion and provide access during inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

C) Restoration Plans - No Production Developed

Reserve pits will be restored as described above. With no production developed, the entire surface disturbed by construction of the well site will be restored. The site will be contoured to blend with the surrounding topography and provide drainage of surface water. The topsoil, as available, shall be replaced in a uniform layer and seeded according to the Bureau of Land Management's stipulations.

D) Rehabilitations Timetable

Upon completion of drilling operations, the initial cleanup of the site will be performed as soon as weather and site conditions allow economic execution of the work.

POINT 11: OTHER INFORMATION

A) Terrain

Relatively flat.

B) Soil

Caliche and sand.

C) Vegetation

Sparse, primarily grasses and mesquite with very little grass.

D) Surface Use

Primarily grazing.

E) Surface Water

There are no ponds, lakes, streams or rivers within several miles of the wellsite.

F) Water Wells

There is a water well located on the J. C. Mills Ranch in Section 6, T23S, R31E.

G) Residences and Buildings

Mills Ranch house is approximately 1.6 miles south of location.

H) Historical Sites

None observed.

Archeological Resources

An archeological survey will be obtained for this well site. The BLM should notify operator when the BLM potash group had approved the location so the operator can order survey.

J) Surface Ownership

The well site and new access road is on federally owned land.

- K) Well signs will be posted at the drilling site.
- Open Pits L)

All pits containing liquid or mud will be fenced.

POINT 12: OPERATOR'S FIELD REPRESENTATIVE

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

DRILLING William R. Dannels Box 2760

Mike Waygood Midland, Texas 79702

(915) 683-2277

3104 E. Green St. Carlsbad, New Mexico 88220

(505) 887-7329

PRODUCTION

Keith E. Bucy Box 2760

Midland, Texas 79702

(915) 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.

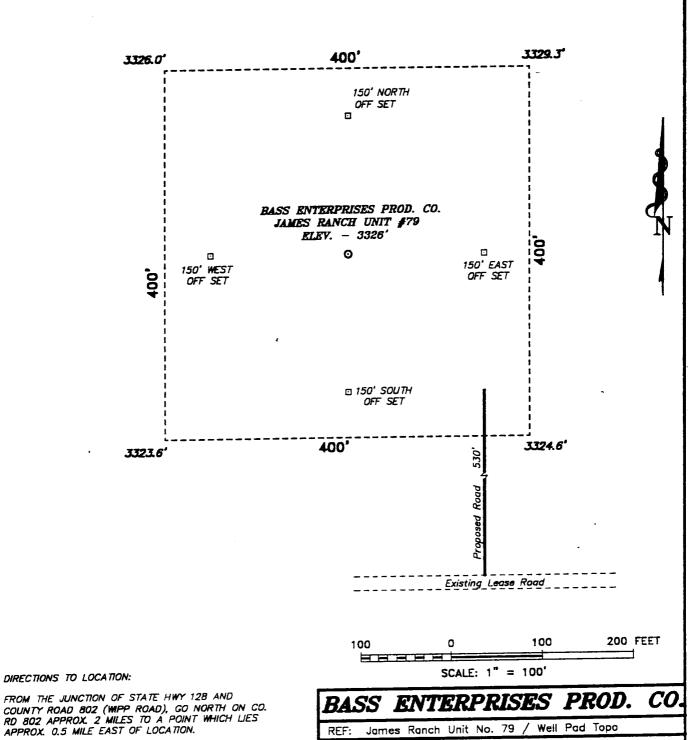
12-1-99 Date

WRD/BGH:mac

William R. Dannels

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SECTION 6, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY.



RASIN SURVEYS P.O. BOX 1786 -HOBBS, NEW MEXICO K. GOAD Drawn By: W.O. Number: 9393

EXHIBIT "B"

Diale KIC #122 -

Survey Date: 11-05-99 9393A.DWG

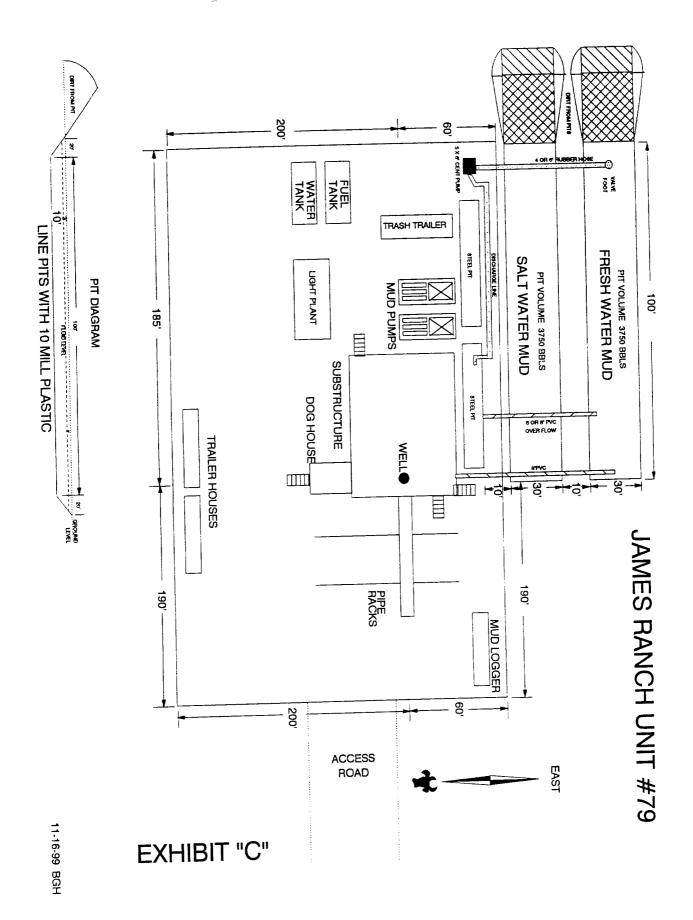
James Ranch Unit No. 79 / Well Pad Topo

THE JAMES RANCH UNIT No. 79 LOCATED 330' FROM THE

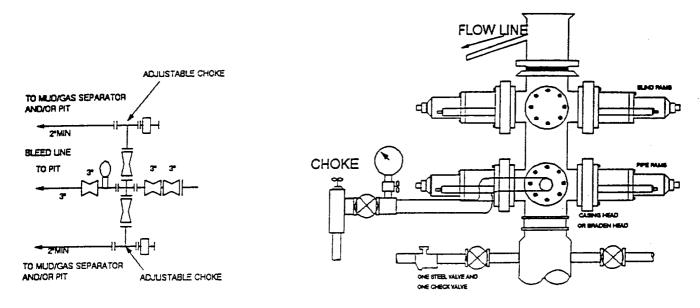
NORTH LINE AND 990' FROM THE EAST LINE OF SECTION 6, TOWNSHIP 23 SOUTH, RANGE 31 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Sheets Sheet



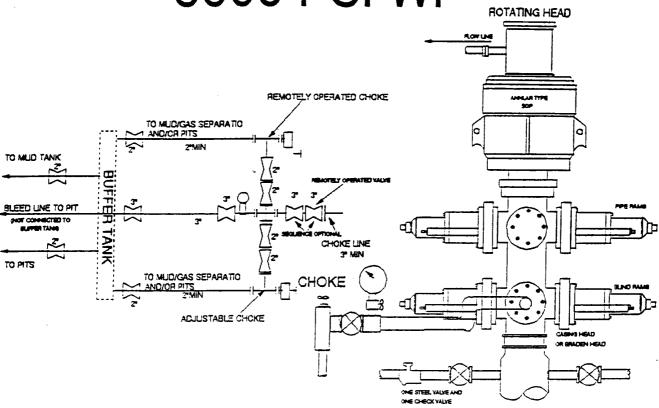
3000 PSI WP



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

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.
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DIAGRAM 2