IL TYPE OF WORK

b. TYPE OF WELL

2. NAME OF OPERATOR

3. ADDRESS AND TELEPHONE NO.

At proposed prod. zone

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST

SIZE OF HOLE *14-3/4"

11"

3327" GR

23.

PROPERTY OR LEASE LINE, PT.

18 DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, PT.

(Also to nearest drlg, unit line

or X

WELL

DRILL X

GAS

P.O. Box 2760, Midland, TX 79702-2760

200' FNL, 1355' FEL, SECTION 6. T23S. R31E LOT 2

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

if any) 660°

GRADE, SIZE OF CASING

11-3/4", H40

8-5/8"

Bass Enterprises Production Co

BHL: 1980' FSL. 1980' FEL.

38 MILES EAST OF CARLSBAD. NM

(This space for Federal or State office use)

CONDITIONS OF APPROVAL, IF ANY:

OTHE

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

SECTION 31

1320

21. ELEVATIONS (Show whether DF,RT, GR, etc.) CARLSBAD CONTROLLED WATER BASIN

WEIGHT PER FOOT

42#

32#

SUBMIT IN TRIFLIC Ar MANGES. *4*834 reverse side)

6 7 18 7 MULTIPLE X

UQCD - ARTESIA

11350' TVD/11797' MD

00'

APPROVAL DATE

ActingSTATE DIRECTOR

TTING DEPTH

1000

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

320

PROPOSED CASING AND CEMENTING PROGRAM

915-683-2277

FORM APPROVED OMB NO. 1004-0136

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO. SL-NM-02887D/BHL-NM-02953C

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

9. API WELL NO

30-01

LOS MEDANOS

& WOLFCAMP),

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12. COUNTY OR PARISH

EDDY

17. NO. OF ACRES ASSIGNED TO THIS WELL

20. ROTARY OR CABLE TOOLS

390 SX CIRC TO SURFACE

1010 SX CIRC TO SURFACE

ROTARY

JAMES RANCH UNIT

JAMES RANCH UNIT

10. PIELD AND POOL, OR WILDCAT

SURF: SEC 6. T23S.

22. APPROX. DATE WORK WILL START* **UPON APPROVAL**

QUANTITY OF CEMENT

8. FARM OR LEASE NAME, WELL NO.

#25

13. STATE

NM

UN. ED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

801

DEEPEN __

7-7/8"	5-1/2", P110	17#	NESS 1,797'	1755 SX CIRC T @ 5500'.	TO SURFACE. DV TOOL
	BE SET IN THE RUSTLE CEDURE, BOPE DIAGRA		OPS AND SURFACE PL	ANS ATTACHED.	
THIS WILL BE	A CONTROLLED DIRECT	TIONAL WELL. KOP	@ APPROX 5200', B	BUILDING ANGLE AT	APPROX 3.5 DEG/100'
TO 18.84 DEG	AT 5738' AND HOLDI	NG THAT ANGLE TO	10.718' WHERE WE	WILL BEGIN TO BUIL	LD AT 3.5 DEG/100'
TO 36.20 DEG	AT 11,214' AND HOL	D THAT ANGLE TO I	PTD. THE LEASE LIN	IE WILL NOT BE CRO	SEE DELECTO FOOO'
TVD AND ALL (OBJECTIVES BELOW 10	,980' TVD WILL BI	E WITHIN ORTHODOX	GENEHA	T HECOIDEMPIA
	MEASURED DEPTH EXC			SPECIAL	STIPULATIONS
THIS WELL IS	LOCATED WITHIN THE	R-111P POTASH A	REA AND ALL POTASH	I LEASE OWNERS WITH	HIN A MILE OF THE
PROPOSED LOCA	ATION WILL BE NOTIF	IED OF THE DRILL	ING OF THIS WELL.	POTASH NOTIFICATION	ONS WILL BE SENT
UNDER SEPARAT		-111-P POTAS	07/	CRETARY'S POT	
IN ABOVE SPACE DESCRI deepen directionally, give per	BE PROPOSED PROGRAM: tinent data on subsurface location	If proposal is to deepen, git	ve data on present productive	zone and proposed new produc	ctive zone. If proposal is to drill or
24.	am R Danneh		I. R. DANNELS DIVISION DRILLING	SUPT. DA	те 12-29-99

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.

See Instructions On Reverse Side

- TITLE

SplendoRIA

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency to witness comenting

3-14-00

MEDEINED OF A US 2M

DISTRICT I P.O. Box 1960, Hobbs, NM 86240

State of New Mexico

Energy, 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 88210

DISTRICT III 1000 Ric Brasco Rd., Astec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	_
		LOS MEDANOS (WOLFCAMP & BON	E SPRING)
Property Code	Prop	erty Name	Well Number
	JAMES	RANCH UNIT	25
OGRID No.	Oper	stor Name	Elevation
001801	BASS ENTERPRISES	PRODUCTION COMPANY	3327'

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 2	6	23 S	31 E		200	NORTH	1355	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
J	31	22 S	31 E		1980	SOUTH	1980	EAST	EDDY
Dedicated Acre	laint o	r Infill C	onsolidation	Code Or	der No.				
10	l v	i i		1					

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

Lot 3 - 40.47 Ac.	1980'-	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
Lot 4 - 40.81 Ac.		William R. Dannels William R. Dannels
	2267.8	Printed Name Division Drilling Supt. Title 12-29-99 Date
SEC. 31, T-22-S, R-31-E SEC. 6, T-23-S, R-31-E	3322.6' 3329.0' 1355' 3323.1' 3325.0'	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
Lot 4 - 40.45 Ac. Lot 3 - 39.90 Ac.	LAT - N 32*20'25" LONG - W 103*48'46" Lot 2 - 39.94 Ac. Lot 1 - 39.98 Ac.	November 16, 1999 Date Surveyed L JONES Signature & Seal of Professional Surveyor
		Profesional Paris Revision Profesion Profesional Profe
Lot 5 40.79 Ac.		Certificate Ner Gary L. Jones 7977 BASIN SURVEYS

EIGHT POINT DRILLING PROGRAM BASS ENTERPRISES PRODUCTION CO.

NAME OF WELL: JAMES RANCH UNIT #25

LEGAL DESCRIPTION - SURFACE: 200' FNL & 1355' FEL, Section 6, T-23-S, R-31-E, Eddy County, New Mexico.

Bottom Hole Location: 1980' FSL & 1980' FEL, Section 31, T22S, R31E, 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 3343' (est)

GL 3327'

FORMATION	ESTIM/ TOP FR		ESTIMATED SUBSEA TOP	<u>BEARING</u>
	TVD	MD_	TVD	
T/Rustler	628'	628'	+2,715'	None
T/Salt	728'	728'	+2,615'	None
B/Salt	3,628'	3,628'	- 285'	None
T/Ramsey	4,018'	4,018'	- 675'	None
T/Delaware 'C'	7,288'	7,385'	- 3,945'	Oil & Gas
T/Delaware 'D'	7,523'	7,634'	- 4,180'	Oil & Gas
T/Bone Spring	7,810'	7,937'	- 4,467'	Oil & Gas
T/3 rd Bone Spring	10,980'	11,338'	- 7,637'	Oil & Gas
T/Wolfcamp	11,103'	11,490'	- 7,760'	Oil & Gas
TD	11,350'	11,797'	- 8,007'	

POINT 3: CASING PROGRAM

TYPE	INTERVALS	<u>PURPOSE</u>	CONDITION
16"	0' - 40'	Conductor	New
11-3/4", 42#, H-40, STC	0' - 700'	Surface	New
8-5/8", 32#, K-55, STC	0' - 4,000'	Intermediate	New
5-1/2", 17#, P-110, LTC	0' - 11,797'	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. 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) Fifteen 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

DEPTH	MUD TYPE	<u>WEIGHT</u>	FV	<u>PV</u>	YP	<u>FL</u>	<u>Ph</u>
0' - 700'	FW Spud Mud	8.5 - 9.2	35-40	NC	NC	NC	NC
700' - 4,000'	BW	9.8 - 10.2	29-30	NC	NC	NC	NC
4,000' - 7,800'	FW/Starch	8.4 - 8.3	29-31	NC	NC	<100	9.5 - 10.5
7,800' - 11,797'	CBW/Polymer	8.6 - 9.8	34-45	10-14	12-18	15-18	9.5 - 10.5

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-DLL-MSFL run from TD to 4000', GR-CNL intermediate casing shoe to surface.

C) CORING

No cores are anticipated.

D) CEMENT

INTERVAL SURFACE	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	<u>PPG</u>	FT³/SX
Circ to surface Lead (100% excess)	±290	575	Class C + 4% Gel + 2% CaCl ₂ + 1/4 ppg Celloflake	9.17	13.50	1.75
Tail (100% excess)	±100	125	Class C + 2% CaCl ₂ + 1/4 ppg Celloflake	6.36	14.80	1.34

POINT 6: TECHNICAL STAGES OF OPERATION Con't...

D) CEMENT

INTERVAL INTERMEDIATE	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	<u>PPG</u>	FT³/SX
Circ to surface Lead (100% excess)	±760	3370	50/50 Poz C + 10% Gel + 5% Salt	12.09	12.59	2.24
Tail (100% excess)	±250	630	Class C + 1% CaCl ₂	6.34	14.80	1.34
PRODUCTION (Two	stage w/DV tool @ 5500'	and circula	te cement to surface.)			
INTERVAL 1stage	AMOUNT SXS	FILL	TYPE	GALS/\$X	<u>PPG</u>	FT ³ /SX
5500'-11,797' (50% excess)	1205	6297	Poz H + 0.5% FL-25 + 0.5% FL-52 + 2 pps Salt	6.36	14.00	1.36
2 nd Stage LEAD 0'-5000' (50% excess)	450	5000	Poz H + 10% Gel + 5% Salt + 0.2% FL-52	12.09	12.59	2.24
TAIL 5000-5500' (50% excess)	100	500	Class C Neat	6.34	14.80	1.34

E) DIRECTIONAL DRILLING (See attached directional plan.)

A straight hole will be drilled to 5200' TVD. A gyro or multi-shot directional survey will be taken in 100' intervals from 5200' to surface.

Directional surveys will be provided at least every 200' from TD to 5200' detailing hole location.

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 H_2 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

30 days drilling operations

15 days completion operations

JCW/mac December 29, 1999

MULTI-POINT SURFACE USE PLAN

NAME OF WELL: JAMES RANCH UNIT #25

LEGAL DESCRIPTION - SURFACE: 200' FNL & 1355' FEL, Section 6, T-23-S, R-31-E, Eddy County, New Mexico.

Bottom Hole Location: 1980' FSL & 1980' FEL, Section 31, T22S, R31E, Eddy County, New Mexico.

POINT 1: EXISTING ROADS

A) Proposed Well Site Location:

See Exhibit "A".

B) Existing Roads:

From Jal, New Mexico, go west on Hwy 128 approximately 47 miles (10 miles east of Hwy 31 & Hwy 128). Go North on paved WIPP road for 3/4 mile. Turn right and go East 1/2 mile on lease road then north 1/4 mile, then east into location.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit "A".

POINT 2: NEW PLANNED ACCESS ROUTE

A) Route Location:

See Exhibit "A". If this well is the first well on the 5 well location pad, the new road from existing JRU #65 location will be 12' wide and approximately 700' long. The road will be constructed of watered and compacted caliche. If not the first well on the location pad, no new road will be required.

B) Width

Not applicable

C) Maximum Grade

Not applicable.

D) Turnout Ditches

None.

POINT 2: NEW PLANNED ACCESS ROUTE - Con't...

E) Culverts, Cattle Guards, and Surfacing EquipmentNone.

POINT 3: LOCATION OF EXISTING WELLS

Exhibit "A-1" 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:

Production facilities and wells are shown on Exhibit "A-1" at:

James Ranch Unit #1

James Ranch Unit #13

James Ranch Unit #4

James Ranch Unit #19

James Ranch Unit #7

James Ranch Unit #29

James Ranch Unit #10

B) New Facilities in the Event of Production:

Will build new facilities at new James Ranch Unit #22, 23 ,24, & 25 surface pad and lay a flowline to these facilities.

C) Rehabilitation of Disturbed Areas Unnecessary for Production:

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 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 hauled form commercial facilities. Fresh water to be hauled from Diamond and a Half Meter Station, 35 miles east of Carlsbad, New Mexico or from Mills Ranch.

B) Water Transportation System

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

POINT 6: SOURCE OF CONSTRUCTION MATERIALS

A) Materials

Surface caliche will be used if possible. Closest alternate caliche source is indicated on Exhibit "A".

B) Land Ownership

Federally owned for both surface and bottom hole locations.

C) Materials Foreign to the Site

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

D) Access Roads

See Exhibit "A".

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.

POINT 7: METHODS FOR HANDLING WASTE MATERIAL - Con't...

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 filled and covered. The reserve pit will be bird netted and fenced. The fence will be maintained until the pit is backfilled. Reasonable cleanup will be performed prior to the final restoration of the site.

POINT 8: ANCILLARY FACILITIES

None required.

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 Exhibits "A" and "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

Pits will be fenced immediately after spudding and maintained until backfilled. Prior to back-filling, any hydrocarbon material on the pit 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 to Bureau of Land Management stipulations in the appropriate season following restoration.

POINT 10: PLANS FOR RESTORATION OF THE SURFACE - Con't...

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) Rehabilitation's Time table

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.

POINT 11: OTHER INFORMATION - Con't ...

F) Water Wells

Mills Ranch has a water well.

G) Residences and Buildings

Ranch house is approximately 1 to 1-1/2 miles south of location.

H) Historical Sites

None observed.

1) Archeological Resources

An archeological survey will be obtained for this area. Before any construction begins, a full and complete archeological survey will be submitted to the Bureau of Land Management. Any location or construction conflicts will be resolved before construction begins.

J) Surface Ownership

The well site and new access road is on federally owned land. No ROW will be required.

- 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
(915) 683-2277

PRODUCTION

Mike Waygood 3104 E. Green St. Carlsbad, New Mexico 88220 (505) 887-7329

Keith E. Bucy

Box 2760

Midland, Texas 79702

(915) 683-2277

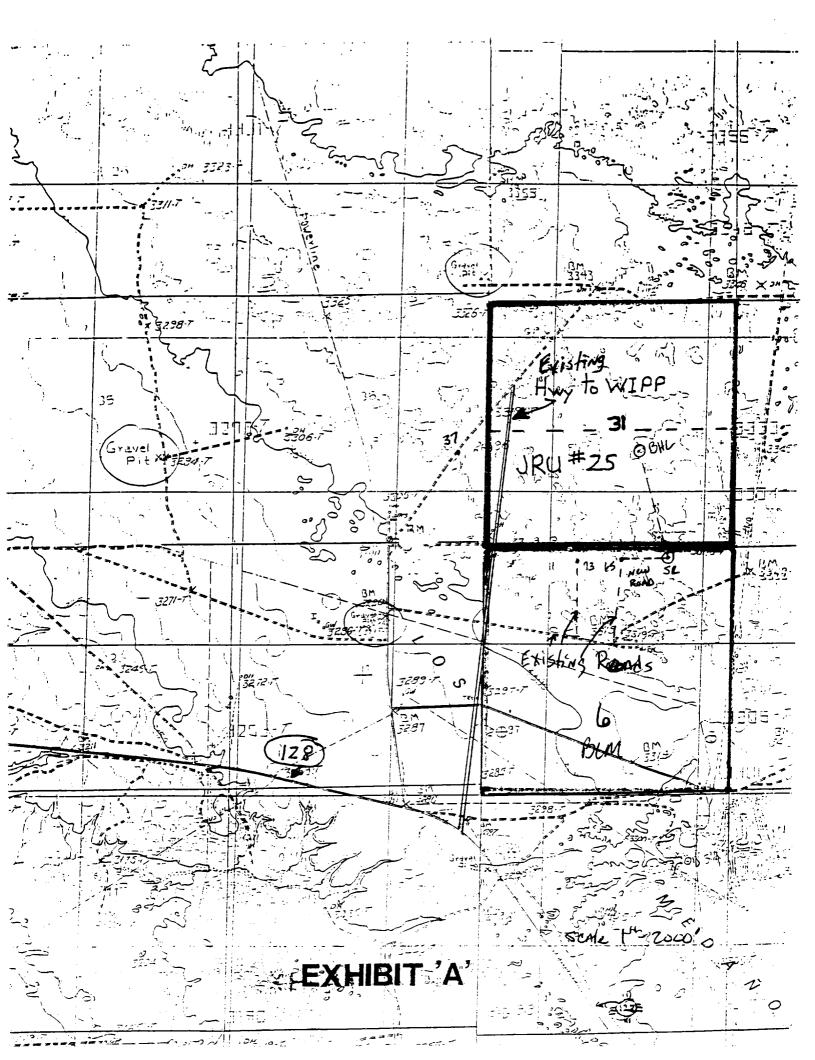
POINT 13: CERTIFICATION

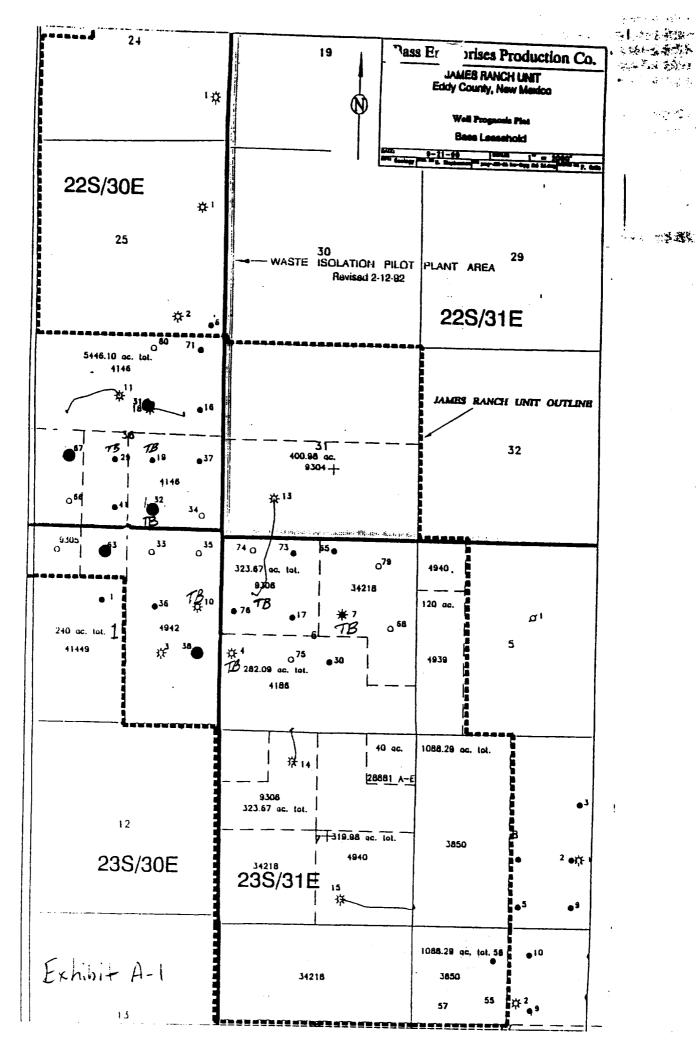
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated 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.

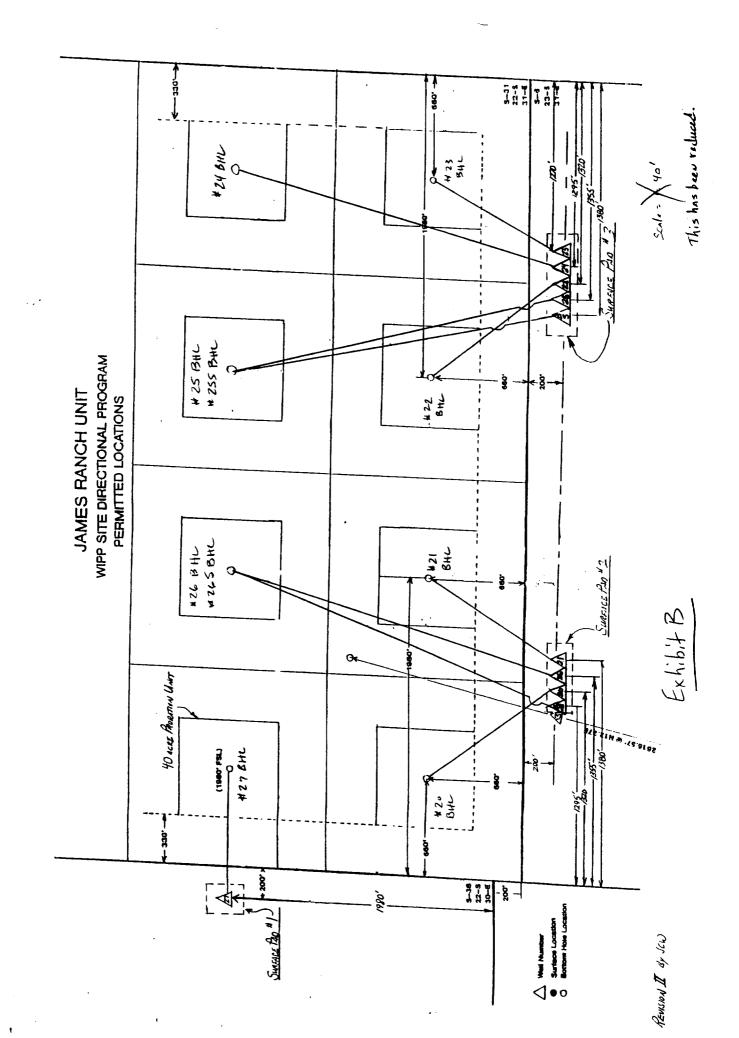
Date

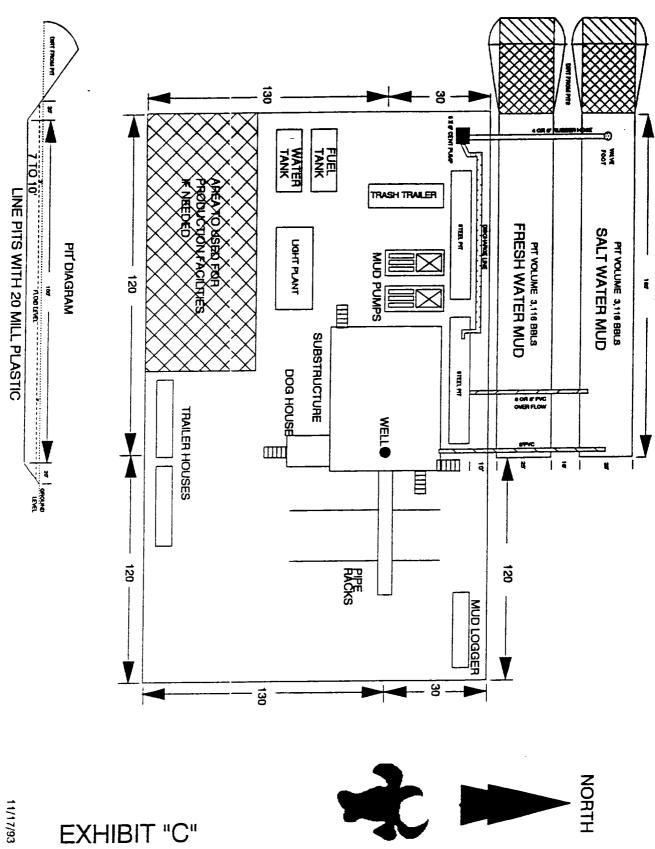
WRD/JCW:mac

William R. Dannels

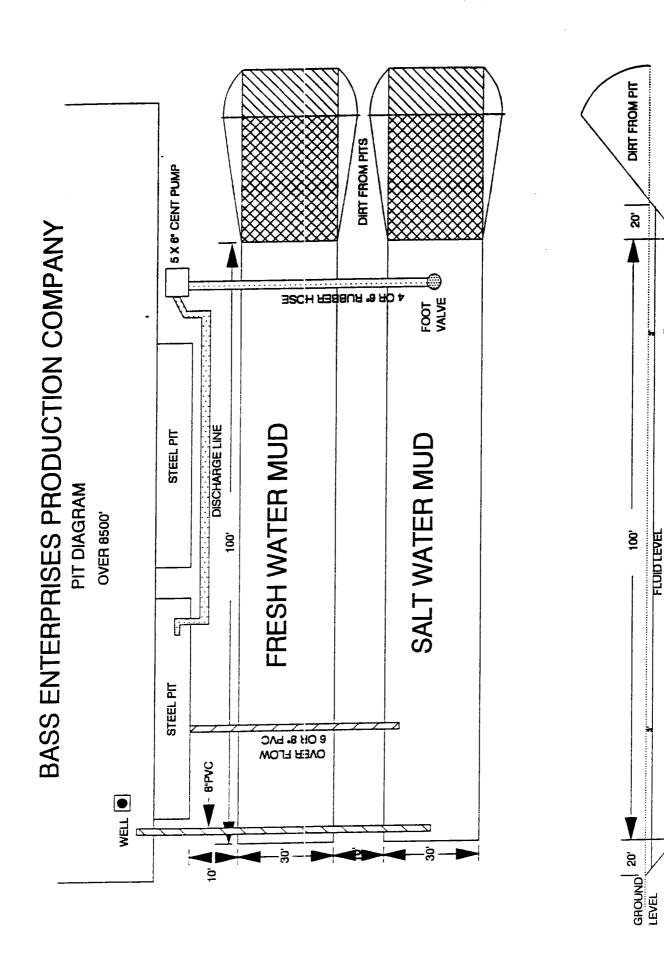








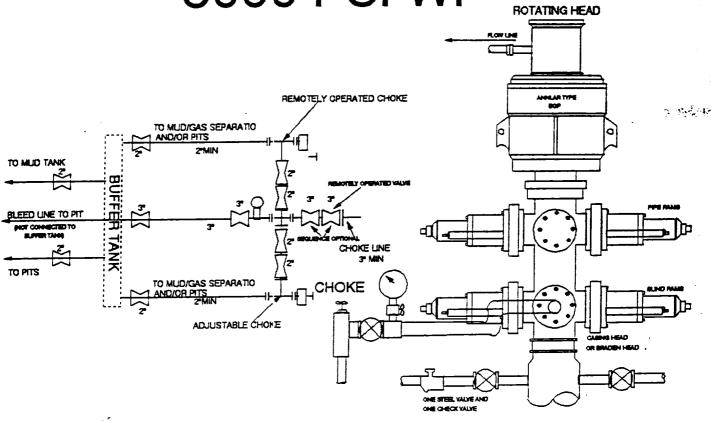
11/17/93 BGH



LINE PITS WITH 20 MILL PLASTIC

FLUIDTEVEL

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.

Schlumberger

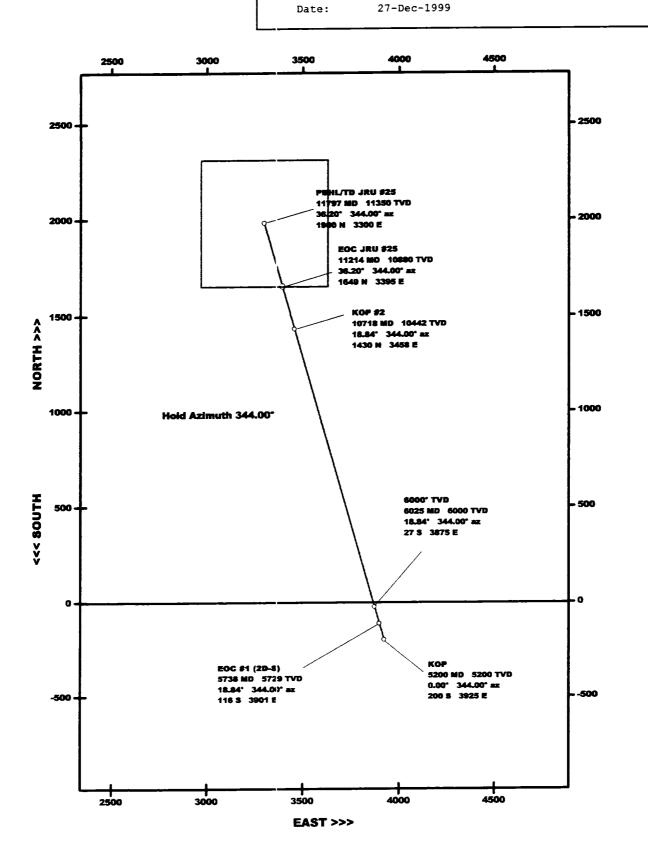
PLAN VIEW

Client: Bass Enterprises Production Company

Well: JRU #25

Field: Eddy County, NM

Structure: James Ranch Unit Scale: 1 in = 500 ft



Schlumberger

VERTICAL SECTION VIEW

Client: Bass Enterprises Production Company

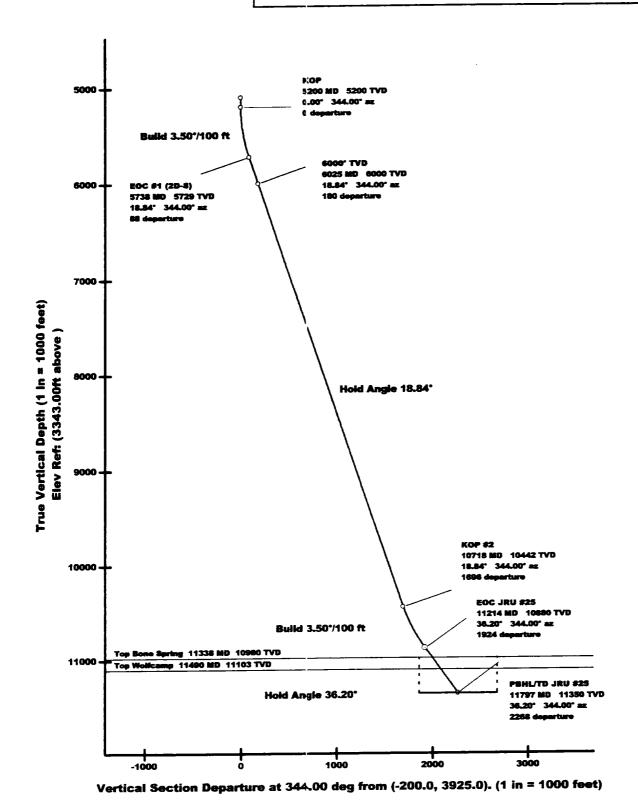
Well: JRU #25

Field: Eddy County, NM Structure: James Ranch Unit

Section At: 344.00 deg

Date:

December 27, 1999



Schlumberger

Proposed Well Profile

_													
Minimum Curvature	Lubinski	344.000°	Vertical Section Origin: S 200,000 ft, E 3925,000 ft		3327.0 ft above	8.823	48575.922 nT	Dip: 58.629°	Declination Date: December 27, 1999	BGGM 1999	True North	Coordinate Reference To: Structure Reference Point	
Survey Computation Method: Minimum Curvature	DLS Computation Method: Lubinski	Vertical Section Azimuth: 344.000°	Vertical Section Origin:	TVD Reference:		Magnetic Declination: 8.823°	Total Field Strength: 48575.922 nT	:diQ	Declination Date:	Magnetic Declination Model: BGGM 1999	North Reference: True North	Coordinate Reference To:	
Client: Bass Enterprises Production Company	Field: Eddy County, NM	Structure: James Ranch Unit	Well: JRU #25	JRU #25		Date : December 27, 1999	0.26276859	0.99993994		Location: N 30 20 21.038, W 103 48 47.274	S 239951.674 ftUS, E 664099.302 ftUS	Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	
Client:	Field:	Structure:	Well:	Borehole: JRU #25	UWIAPI#:	Date:	Grid Convergence: 0.26276859°	Scale Factor: 0.99993994		Location:	••	Coordinate System:	

Station ID	QW	lucl	Azim	2	VSec	S-/N	E/-W	Closure	at Azim	DLS	TF
	(#)	(°)	(°)	(ft)	(ff)	(ft)	Œ	(H)	•	(*/100ft)	0
Tie-In	5100.00	0.00	344.0	5100.00	0.00	-200.00	3925.00	0.00	92.92	0.00	-16.0MTF
KOP	5200.00	0.00	344.0	5200.00	0.00	-200.00	3925.00	0.00	92.92	0.00	-16.0MTF
	5300.00	3.50	344.0	5299.94	3.05	-197.06	3924.16	3.05	92.87	3.50	-16.0MTF
	5400.00	7.00	344.0	5399.50	12.20	-188.27	3921.64	12.20	92.75	3.50	0.0
	5500.00	10.50	344.0	5498.32	27.41	-173.65	3917.45	27.41	92.54	3.50	0.0
	5600.00	14.00	344.0	5596.03	48.63	-153.26	3911.60	48.63	92.24	3.50	0.0
	5700.00	17.50	344.0	5692.26	75.77	-127.17	3904.12	75.77	91.87	3.50	0.0
EOC #1 (2D-S)	5738.18	18.84	344.0	5728.54	87.67	-115.72	3900.84	87.67	91.70	3.50	0.0

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Station ID	MD.	Incl	Azim	DVT OX	VSec	S-/N	E/-W	Closure	at Azim	DLS	TF
	(ft)	(0)	(0)	(ft)	(#)	£	(£)	(H)	€	(*/100ft)	•
G000' TVD	6025.00	18.84	344.0	00.0009	180.28	-26.71	3875.32	180.28	90.39	0.0	0.0
KOP #2	10718.05	18.84	344.0	10441.71	1695.50	1429.84	3457.73	1695.50	67.53	0.00	0.0
	10800.00	21.70	344.0	10518.58	1723.89	1457.13	3449.90	1723.89	67.10	3.50	0.0
	10900.00	25.20	344.0	10610.30	1763.69	1495.39	3438.93	1763.69	66.50	3.50	0.0
	11000.00	28.70	344.0	10699.42	1809.01	1538.95	3426.44	1809.01	65.81	3.50	0.0
	11100.00	32.20	344.0	10785.61	1859.69	1587.67	3412.48	1859.69	65.05	3.50	0.0
	11200.00	35.70	344.0	10868.55	1915.53	1641.35	3397.09	1915.53	64.21	3.50	0.0
EOC JRU #25	11214.15	36.20	344.0	10880.00	1923.84	1649.33	3394.80	1923.84	64.09	3.50	90.0
4.12	11300.00	36.20	344.0	10949.28	1974.54	1698.07	3380.82	1974.54	63.33	0.00	90.0
Top Bone Spring	11338.07	36.20	344.0	10980.00	1997.03	1719.69	3374.63	1997.03	63.00	00.0	90.0
	11400.00	36.20	344.0	11029.97	2033.60	1754.85	3364.55	2033.60	62.45	00.0	90.0
Top Wolfcamp	11490.49	36.20	344.0	11103.00	2087.05	1806.22	3349.82	2087.05	61.67	0.00	0.06
	11500.00	36.20	344.0	11110.67	2092.66	1811.62	3348.27	2092.66	61.58	0.00	90.0
	11600.00	36.20	344.0	11191.37	2151.72	1868.39	3331.99	2151.72	60.72		90.0
	11700.00	36.20	344.0	11272.06	2210.78	1925.17	3315.72	2210.78	59.86	0.00	90.0
PBHL/TD JRU #25	11796.58	36.20	344.0	11350.00	2267.82	1980.00	3300.00	2267.82	59.04	0.00	0.0

Survey Program: (No Error Model Selected)