LAW OFFICES

LOSEE, CARSON, HAAS & CARROLL, P. A.

ERNEST L. CARROLL JOEL M. CARSON JAMES E. HAAS OF COUNSEL A. J. LOSEE

311 WEST QUAY AVENUE P. O. BOX 1720 ARTESIA, NEW MEXICO 88211-1720 PHONE (505) 746-3505 FAX (505) 746-6316 FEB 16

February 15, 2001

Via Federal Express

Mr. Michael Stogner, Hearing Examiner New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, New Mexico 87505

> Re: Application of Bass Enterprises Production Co. for Unorthodox Bottomhole Oil Well Location, Eddy County, New Mexico

Dear Mr. Stogner:

Enclosed for your files, please find an original application with colored Exhibits which was faxed to you on today's date. If you need anything further, please do not hesitate to call.

Very truly yours,

LOSEE, CARSON, HAAS & CARROLL, P.A.

nnak Patomin

Hannah Palomin Secretary to Ernest L. Carroll

Encl.

cc: **Bass Enterprises Production** Attn: Mr. Wayne Bailey

BEFORE THE OIL CONSERVATION DIVISION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF: BASS ENTERPRISES PRODUCTION CO. FOR : AN UNORTHODOX OIL WELL LOCATION : EDDY COUNTY, NEW MEXICO :

CASE NO.

APPLICATION

COMES NOW Bass Enterprises Production Co., by and through its attorneys, Losee, Carson, Haas & Carroll, P.A., (Ernest L. Carroll), and in support hereof respectively states:

1. Applicant is the operator of the Strawn formation underlying the E/2, of Section 15, Township 21 South, Range 29 East, N.M.P.M., Eddy County, New Mexico. Applicant has already submitted an application for permit to drill ("APD") its Big Eddy Unit No. 61-A at a surface location 1983' from the South line, and 1990' from the West line of the said Section 15 with a bottom hole location of 330' from the North line and 1650' from the East line. This APD was approved on November 17, 2000.

2. The applicant seeks an exception to the well location requirements of Rule 104.C(1)(a) of the Oil Conservation Division to permit the re-entry of the Big Eddy Unit #61 and the drilling of a directional well to TD at the above-mentioned unorthodox bottom hole location at a depth sufficient to adequately test the Strawn formation.

3. A 320-acre oil proration unit comprising of the E/2, of Section 15 is to be dedicated to such well.

4. Attached to this application as Exhibit "1" is a land plat showing the ownership of all 320-acre proration units located around the E/2 of said Section 15. All such proration units are owned and operated by the same Bass entities, as so denoted in the ownership portion of said land plat.

5. Application is sought for an administrative approval of this unorthodox location pursuant to Rule 104.F(2), and is sought based upon geologic conditions as shown on a structure map drawn on the top of the Strawn formation as dictated by seismic lines. A copy of the structure map drawn on the top of the Strawn formation is attached as Exhibit "2".

6. All affected parties by this application are Bass entities, and no further notification to any other parties has been made of this application.

7. Attached hereto as Exhibits "3", "4" and "5" respectively are the Application for Permit to drill and directors approval from the BLM, Approval by Mississippi Potash, Inc. to re-enter the Big Eddy Unit No. 61 Well, and Form C102 with attachments.

BASS ENTERPRISES PRODUCTION CO.

and Ernest L. Carroll

LOSEE, CARSON, HAAS & CARROLL, P.A. P.O. Box 1720 Artesia, NM 88211-1720

Attorneys for Applicant

	EXHIBIT
tabbies'	1









Title Tile



NM-06750

IN REPLY REFER TO: 3160 (06200)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT New Mexico State Office 1474 Rodeo Rd. P.O. Box 27115 Santa Fe, New Mexico 87502-0115

NOV 1 7 2000

CERTIFIED--RETURN RECEIPT REQUESTED 7099 3220 0004 0017 5694

Bass Enterprises Production Co. Attn: W. R. Dannels P. O. Box 2760 Midland, TX 79702-2760 BEPCO - WID PRODUCTION

NOV 28 2000

RECEIVED

RE: Big Eddy Unit #61-A NM-06750 1983'/S & 1990'/W, Sec. 15, T. 21 S., R. 29 E. (SHL) 330'/S & 1650'/E, Sec. 15, T. 21 S., R. 29 E. (BHL) Eddy County, New Mexico

Dear Mr. Dannels:

I have approved your application at the well location requested. A copy of the approved application with stipulations is enclosed. Please contact our Roswell Field Office at (505) 627-0272, should you have any questions or if we can be of any additional help.

Sincerely. M.J. Chavez State Director

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1 Enclosure

			OPI	RATOR	COPI	B	EPCO - WTD PR	ODUCTION
Forin 3160-3 (July 1992)					SUBMIT IN TRI (Other instruc	PLICATE tions on	HURM 2 PRC	2000
		UN	ITED STA	ATES	reverse s	ide)	ExRECE	LED 1995
	1	DEPARTME BUREAU C	NT OF T	HE INTER	OR T	۰	5. Lease Designation NM-06750	and Serial No.
	AP	PLICATION	FOR PER	MIT TO DR	ILL OR DEEPEN		6. If Indian, Allottee of	or Tribe Name
Ia. TYPE OF WORK	<				· · · · · · · · · · · ·			
	DRILL	$\overline{\mathbf{X}}$	DEEPEN	1			7. Unit agreement na	me
	Gas W		r	Single Zone	Mutiple 7		8 Farm or Lease Na	
. Name of Operator				Ungle Lune			Big Eddy Unit #	10. 161-A
Bass Ente	rprises Prod	luction Co.					9. API Well No.	
. Address and Teler	phone No.			_			30-015-22544	
	2760	Midland, Texa	s 79702-276	0	(915) 683-2277		10. Field and Pool, or	r Wildcat
At Surface	vepon locatio	m cleany and in a	ccordance w	iun any State re		3	VVildcat	or Bik
1983' FSL At proposed BHL 330' FSL a	& 1990' FW (Canter of & 1650' FEL	/L, Section 15, T proposed 330' X , Section 15, T21	21S, R29E 660' target) S, R29E	GENER SPECI	AL REQUIREME	NTS AND	and Survey or Ar Sec 15, T21S,	ea R29E
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5. Distance from pro	posed"			16. No. of acr	es in Lease	17. No. of	Acres assigned	
Location to neares	st line #	330'			200	to this	Well	
(Also to nearest di	ng, n. ng, unit line.	if any)					J2U	
 Distance from pro to nearest well, dri ar applied for, on t 	posed locatio	on" ited,	NA	19. Proposed	Depth 11,600' TVD 12,637' MD	20. Rotary	or Cable Tools Rotary	
1. Elevations (Show	whether DF,	RT, GR, etc.)		<u>_!</u>			22. Approx. date wor	« will start*
			3413' GR				Upon Approval	
3	· · · · · · · · · · · · · · · · · · ·		PROPO	SED CASING	AND CEMENTING PROC	GRAM		
SIZE OF HOLE	IGRADE, S	ZE OF CASING	WEIGHT	PER FOOT	SETTING DEPTH	1 ou Ciro		CEMENT
	18-5/8"	K55/S80	24# & 28#		3215	1850 sy C	ire to surface. DV tool	@ 807
7-7/8"	5-1/2"	P110	17#		10-10.637	1825 sx C	ire to 3000'. DV tool (D 6500'.
*	10	L5-110	4		10.637 -17.637	,		
rilling procedure, BC his will be a re-entry uilding angle at appr riginal well was drille Mil depths are given a indicates strings alre his BHL is an unorth	P Diagram, of an existing ox 4.3 deg/10 ed in June 19 is measured eady in place odox location	Anticipated Tops g wellbore with a 00° to 51.47 deg a 178. Surface and depths except with NOTE : L n. Upon BLM app	& Surface Pi controlled dir at 10,297 and Intermediate nen specified -5710 is proval of this	ians attached, ectional hole be d holding that an were cemented otherwise.) HC -//0 APD application	low intermediate casing. In Ingle to PTD. All objectives I and remain in place as in DER W. N. BEPCO Land Departme	COP @ approx s will be within idicated. TOC	$\frac{2}{3} \frac{1}{3} \frac{1}$	s. Nurface. С.(3)
ABOVE SPACE DES	tiure. CRIBE PROP e pertinent da	OSED PROGRAM: la on subsurface lo	If proposal is cations and m	to deepen, give o easured and true	ata on present productive zo vertical depths. Give blowo	ne and propose ut preventer pro	d new productive zone. gram. if any.	If proposal is to drill o
Signed	C. 11/a	nd to a	4R. Dannels	Title	Division Drilling	Supt.	Date	<i>N</i>
his space for Federal or S ermit No.	tate office use)				Approval [ate		
Phoses seesal sees a DNDITIONS OF APPROV			hoids legat er eq	uliable tide to those	nghts in the subject lease which	would ensite the	applicant to conduct operation	ans thereon
	An	ny	*0	Title See Instructi	State Dire	tor	Date 11/17	00
In 18 U.S.C., Section 109	+ makes it a cn atter within its iu	C me for any person kno instiction.	wingly and with	ully to make to any	tepartment or agency of the Unit	ed States any faise	a, fictitious or fraudulent statu	erronts or

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	EXHIBIT
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October 7, 1999

Bass Enterprises Production Co. 201 Main St. Fort Worth, TX 76102-3131 Attention: Mr. J. Wayne Bailey

- LAND RECEIVED OCT 13 1999 UNAS UNA TOS DDC HEF WWC HCM LL TL SHS
- Re: Big Eddy Unix No. 61 Section 15, T-21-S, R-29-E Eddy County, New Mexico

Dear Mr. Bailey.

Mississippi Potash, Inc. offers no objection to the re-entering and directional drilling of the Big Eddy Unit No. 61 well by Bass Enterprises Production Co.

Sincereiv. Tanna th

Jill Farnsworth Chief Mine Engineer

Ce: Ms. Leslie Theiss Bureau of Land Management Carlsbad Area Resource Office P.O. Box 1778 Carlsbad, NM 38220

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P.O. Box 101 • 1996 Potash Mines Road • Cartsbad, New Mexico 88220 Phone (505) 887-5591 • FAX (505) 887-0705

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DISTRICT I 1665 N. Present Sr., Sobbe, NM 58540 DISTRICT II

811 South First, Artenia, NM 88210

DISTRICT III 1000 Ris Branes Rd., Axtec, NM 87410

DISTRICT IV 2040 South Pachece, Sunta 7e, 7M 57505 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office State Lasse - 4 Copies Fee Lasse - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

I AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT



EIGHT POINT DRILLING PROGRAM BASS ENTERPRISES PRODUCTION CO.

NAME OF WELL: BIG EDDY UNIT #61A

LEGAL DESCRIPTION - SURFACE: 1983' FSL & 1990' FWL, Section 15, T21S, R29E, Eddy County, New Mexico.

Bottom Hole Location: 330' FSL & 1650' FEL, Section 15, 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 3439' (est) GL 3413'

FORMATION	ESTIM/ TOP FR	ATED OM KB	ESTIMATED SUBSEA TOP	BEARING
	TVD	MD	_ TVD	
T/Rustler	432'	432'	+3,007'	None
T/Salt	522'	522'	+2,917'	None
B/Salt	2,299'	2,299'	+1,140'	None
T/Delaware	3,132'	3,132'	+ 307'	Oil & Gas
T/Cherry Canyon	4,074'	4,074'	- 635'	Oil & Gas
T/Bone Spring	6,857'	6,857'	- 3,418'	Oil & Gas
T/3 rd Bone Spring	9,826'	9,830'	- 6,398'	Oil & Gas
T/Wolfcamp	10,126'	10,270'	- 6,838'	Oil & Gas
T/Strawn	11,100'	11,835'	- 7,668'	Oil & Gas
TD	11,600'	12,637'	- 8,168'	

POINT 3: CASING PROGRAM

TYPE	INTERVALS	PURPOSE	<u>CONDITION</u>
16	0' - 40'	Conductor	New
11-3/4, 42#, H-40, STC	0' - 406'	Surface	New
* 8-5/8", 24#, K-55, STC	0' - 2,374'	Intermediate	New
* 8-5/8", 28#, S-80, STC	2374' - 3,215'	Intermediate	New
5-1/2", 17#, P110, LTC	0' - 12,637'	Production	New

* Already in place.

,

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	WEIGHT	<u>FV</u>	<u>PV</u>	YP	FL	<u>Ph</u>
0' - 10,500'	FW Lime	8.5 - 9.2	45-35	NC	NC	NC	9.5
10,500' – TD	CBW/Polymer	8.8 - 13.5	34-55	10-18	12-20	10-15	9.5-10.5

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

Drill stem tests may be performed on significant shows in zones of interest.

B) LOGGING

GR-CNL-LDT, GR-DLL-MSFL run from TD to 9100', shoe to surface.

C) CORING

No cores are anticipated.

D) CEMENT

	AMOUNT SXS	FT OF <u>FILL</u>	TYPE	GALS/SX	PPG	FT ³ /SX
Circ to surface 50 sx	300 sx	406	Class C + 2% CaCl ₂ + 1/4#/sx Flocele	6.30	14.80	1.32

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

D) CEMENT

		FIOF				
INTERVAL	AMOUNT SXS	FILL	TYPE	GALS/SX	PPG	FT ³ /SX
1* Stage: (Circ 15	0 sx to surface)					
Lead	1300	2515	Halco Lite + 2% CaCl ₂ + 1/4#/sx Flocele	1 2.09 .	12.59	2.24
Tail	100	200	Class C + 2% CaCl ₂	6.34	14.80	1.34
2 nd Stage: (Circ 12	sx to surface)					
Lead	150	420	Halco Lite + 2% CaCl ₂ + 1/4#/sx Flocele	12.09	12.59	2.24
Tail	100	280	Class C + 2% CaCl ₂	6.34	14.80 ·	1.34
PRODUCTION (T	wo stage w/DV tool @ 65	500' and circul	ate cement to surface)			
INTERVAL	AMOUNT SXS	FILL	TYPE	GALS/SX	PPG	ET'SX
6500'-12,637' (50% excess) 2 nd Stage	1175	6137	Poz H + 0.5% FL-25 + 0.5% FL-52 + 2 pps Sait	6. 36	14.00	1.36
0'-6000' (50% excess) TAIL	550	6000	Poz H + 10% Gel + 5% Sait + 0.2% FL-52	12.09	12.5 9	2.24
6000'-6500' (50% excess)	100	500	Class C Neat	6.34	14.80	1.34

* Surface & Intermediate was cemented in place during previous drilling (6/78).

E) DIRECTIONAL DRILLING (See attached directional plan.)

A straight hole will be re-drilled and drilled to 9100' TVD. A gyro survey or multishot survey will be taken every 100' from 9100' to surface.

Directional surveys will be provided at least every 200' from TD to 9100' detailing hole location. See attached directional plan.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout the Delaware, Bone Spring & Wolfcamp sections. The Strawn expected BHP is 9100 (max) or an equivalent mud weight of 13.3 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 205°F. Prior to penetrating the abnormal pressures in the Strawn, 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

50 days drilling operations

15 days completion operations

JCW/mac August 30, 2000

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MULTI-POINT SURFACE USE PLAN

NAME OF WELL: BIG EDDY UNIT #61A

LEGAL DESCRIPTION - SURFACE: 1983' FSL & 1990' FWL, Section 15, T21S, R29E, Eddy County, New Mexico.

Bottom Hole Location: 330' FSL & 1650' FEL, Section 15, T21S, R29E, Eddy County, New Mexico.

POINT 1: EXISTING ROADS

A) Proposed Well Site Location:

See Exhibit "A".

8) Existing Roads:

From the intersection of NM 31 & US 62-180 approximately 15 miles east of Carlsbad, NM, go 4-1/2 miles south on NM 31. Turn right and go 1.9 miles west on lease road to BEU #40 pad. Continue north across pad 1 mile into location.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit "A".

POINT 2: NEW PLANNED ACCESS ROUTE

A) Route Location:

The original drilling pad will be reconstructed and the lease road to the location will be the same with necessary reconditioning.

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 Equipment None.

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:

None.

B) New Facilities in the Event of Production:

Will build new facilities at location pad and lay a flowline to those 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 from commercial facilities. Fresh water to be hauled from 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 Exhibits "A".

B) Land Ownership

Federally owned land for both surface locations and bottom hole location.

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...

Page 4

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.

Page 5

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.

F) Water Wells

There are no water wells within several miles of the wellsite.

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

G) Residences and Buildings

No buildings within several miles of wellsite.

H) Historical Sites

None observed.

I) Archeological Resources

An archeological survey has been obtained for this area. A full and complete archeological survey has been 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 910 N. Canal, Suite 704 Carlsbad, New Mexico 88220 (505) 887-7329

Keith E. Bucy Box 2760 Midland, Texas 79702 (915) 683-2277

POINT 13: CERTIFICATION

Page 7

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.

8/31/00

Date

William R. Dannels

WRD/JCW:mac

10-M. WP BOPE WITH 5-M WP ANNULAR



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS:

- A. Opening between the ram to be flanged, studded, or clamped.
- B. All connections from operating manifolds to preventers to be all steel hose or tube a minimum of one inch diameter.
- C. 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 preventors.
- D. ALL connections to and from preventer to have a pressure rating equivalent to that of the BOPs.
- E. Manual controls to be installed before drilling cement plug.
- F. Kelly cock to be installed on kelly.
- G. Inside blowout preventer to be available on rig floor.
- H. Dual operating controls: one located by drillers position and the other located a safe distance from the rig floor.
- I. All chokes will be adjustable.



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EXHIBIT "8"-/



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Report Date:	August 31, 2000					Survey / DI	LS Computation	Method:	Minimum Curvat	ure / Lubinsk	-
Cllent:	Bass Enterprise:	s Productio	n Company			-	/ertical Section	Azlınuth:	135.000"		
Field:	Eddy County, NI	5					Vertical Sectio	n Orìgin:	N 0.000 ft, E U.01	00 ft	<u> </u>
Structure / Slot:	Big Eddy #61A /	Slant Well			_		TVD Referenc	e Datum:			
Well:	Big Eddy #61A					-	'VD Reference E	Elevation:	3414.0 ft relative	t 0	
Borehole:	Big Eddy #61A					Sea Bed /	Ground Level E	elevation:	0.000 ft relative I	0	-
UWVAPI#:							Magnetic De	clination:	9.274*		
Proposal Name / Modified Date:	Rev 4 / August 3	1, 2000					Total Field	Strength:	49752.050 nT		
Tort / AHD / DDI /ERD ratio:	51.473° / 2333.4	14 ft / 5.117	/ 0.201				Magi	netic Dip:	60.316°		
Grid Coordinate System:	NAD27 New Me	xico State f	Planes, East	ern Zone, US F	eel		Declinat	tion Date:	August 31, 2000		
Location Lat/Long:	N 32 9 16.621, V	V 104 14 5	2.902		<u> </u>	Maç	jnetic Declinatic	in Model:	IGRF 1999		<u></u>
Location Grid N/E Y/X:	N 419981.400 ft	US, E 5263	99.600 flus				North R	eference:	Grid North		
Grid Convergence Angle:	+0.04539979*					Total Corr	Mag North -> G	rid North:	+ 9 .229*		
Grid Scale Factor:	0.99990989					Local Co	ordinates Refere	suced To:	Well Head		
Station ID	QW	Incl	Azim	TVD	VSec	N/-S	EI-W	Closure	at Azim	DLS	TF
	(ft)	(,)	(")	(tt)	(H)	(ll)	(ft)	(II)	(,)	("/100ft)	(")
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КОР	9100.00	00.00	135.00	9100.00	00.00	00.00	0.00	0.00	0.00	0.00	35.0MTF
	9200.00	4.30	135.00	9199.91	3.75	-2.65	2 65	3.75	135.00	4.30	135.0MTF
	9300.00	8.60	135.00	9299.25	14.99	-10,60	10.60	14.99	135.00	4.30	0.0
	9400.00	12.90	135.00	9397.47	33.64	-23.79	23.79	33.64	135.00	4.30	0.0
	9500.00	17.21	135.00	9494.01	59.61	-42.15	42.15	59.61	135.00	4.30	0.0
	9600.00	21.51	135.00	9588.34	92.75	-65.58	65.58	92.75	135.00	4.30	0.0
	9700.00	25.81	135.00	9679.91	132.87	-93.95	93.95	132.87	135.00	4.30	0.0
	9800.00	30.11	135.00	9768.22	179.74	-127.10	127.10	179.74	135.00	4.30	0.0
	<u>9900.00</u>	34.41	135.00	9852.76	233.11	-164.83	164.83	233.11	135.00	4.30	0.0
	10000.00	38.71	135.00	9 3 3.06	292.67	-206.95	206.95	292.67	135.00	4.30	0.0
	10100.00	43.02	135.00	10008.67	358.08	-253.20	253.20	358.08	135.00	4.30	0.0
	10200.00	47.32	135.00	10079.16	428.98	-303.34	303.34	428.98	135.00	4.30	0.0

Proposed Well Profile

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Slant Well/Big Eddy #61A/Big Eddy #61A/

Page 1 of 3

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EOC	10296.58	51.47	135.00	10142.00	502.29	-355.17	355.17	502.29	135.00	4.30	0.0
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	10400.00	51.47	135.00	10206.42	583.20	-412.38	412.38	583.20	135.00	0.00	0.0
	10500.00	51.47	135.00	10268.71	661.43	-467.70	467.70	661.43	135.00	0.00	0.0
	10600.00	51.47	135.00	10331.00	739.66	-523.02	523.02	739.66	135.00	0.00	0.0
	10700.00	51.47	135.00	10393.29	817.89	-578.33	578.33	817.89	135.00	0.00	0.0
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	11000.00	51.47	135.00	10580.16	1052.58	-744.28	744.28	1052.58	135.00	00.00	0.0
	11100.00	51.47	135.00	10642.45	1130.81	-799.60	799.60	1130.81	135.00	0.00	0.0
	11200.00	51.47	135.00	10704.74	1209.04	-854.92	854.92	1209.04	135.00	00.00	0.0
	11300.00	51.47	135.00	10767.03	1287.27	-910.24	910.24	1287.27	135.00	0.00	0.0
	11400.00	51.47	135.00	10829.32	1365.50	-965,55	965,55	1365.50	135.00	00.00	0.0
	11500.00	51.47	135.00	10891.61	1443.73	-1020.87	1020.87	1443.73	135.00	0.00	0.0
	11600.00	51.47	135.00	10953.90	1521.96	-1076.19	1076.19	1521.96	135.00	0.00	0.0
	11700.00	51.47	135.00	11016.19	1600.19	-1131.51	1131.51	1600.19	135.00	00.0	0.0
	11800.00	51.47	135.00	11078.48	1678.42	-1186.82	1186.82	1678.42	135.00	0.00	0.0
Top of Strawn	11834.55	51.47	135.00	11100.00	1705.45	-1205.94	1205.94	1705.45	135.00	0.00	0.0
	11900.00	51.47	135.00	11140.77	1756.65	-1242.14	1242.14	1756.65	135.00	0.00	0.0
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	12300.00	51.47	135.00	11389.93	2069.57	-1463.41	1463.41	2069.57	135.00	0.00	0.0
	12400.00	51.47	135.00	11452.22	2147.80	-1518.73	1518.73	2147.80	135.00	0.00	0.0
	12500.00	51.47	135.00	11514.51	2226.03	-1574.04	1574.04	2226.03	135.00	0.00	0.0
	12600.00	51.47	135.00	11576.80	2304.26	-1629.36	1629.36	2304.26	135.00	0.00	0.0
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Survey Error Model: (No Error Model Selected)

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Page 2 of 3

Slant Well/Big Eddy #61A/Big Eddy #61A/



SPECIAL DRILLING STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

 Operator's Name
 BASS
 ENTERPRISES
 PROD
 CO.
 Well Name & No.
 BIG
 EDDY
 UNIT
 #
 61-A

 Location
 1983'
 F
 S
 L & 1990'
 FW
 L
 Sec.
 15
 , T.
 21
 S., R.29
 E

 Lease No.
 NM-06750
 County
 EDDY
 State
 New Mexico

The Special stipulations check marked below are applicable to the above described well and approval of this application to drill is conditioned upon compliance with such stipulations in addition to the General Requirements. The permittee should be familiar with the General Requirements, a copy of which is available from a Bureau of Land Management office. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PURSUANT TO TITLE 43 CFR 3165.3 AND 3165.4.

This permit is valid for a period of one year from the date of approval or until lease expiration or termination whichever is shorter.

I. SPECIAL ENVIRONMENT REQUIREMENTS

() Lesser Prairie Chicken (stips attached)() San Simon Swale (stips attached)

() Floodplain (stips attached) Wother See attached archaeological stipulations

II. ON LEASE - SURFACE REQUIREMENTS PRIOR TO DRILLING

(A) The BLM will monitor construction of this drill site. Notify the (A) Carlsbad Field Office at (505) 234-5972 () Hobbs Office (505) 393-3612, at least 3 working days prior to commencing construction.

(PRoads and the drill pad for this well must be surfaced with 6 inches of compacted caliche.

() All topsoil and vegetation encountered during the construction of the drill site area will be stockpiled and made available for resurfacing of the disturbed area after completion of the drilling operation. Topsoil on the subject location is approximately _____ inches in depth. Approximately _____ cubic yards of topsoil material will be stockpiled for reclamation.

() Other.

III. WELL COMPLETION REQUIREMENTS

() A communitization Agreement covering the acreage dedicated to the well must be filed for approval with the BLM. The effective date of the agreement must be prior to any sales.

() Surface Restoration: If the well is a producer, the reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced to a slope of 3:1 or less. All areas of the pad not necessary for production must be re-contoured to resemble the original contours of the surrounding terrain, and topsoil must be re-distributed and re-seeded with a drill equipped with a depth indicator (set at a depth of ½ inch) with the following seed mixture, in pounds of Pure Live Seed (PLS), per acre.

 A. Seed Mixture 1 (Loamy Sites) Side Oats Grama (Bouteloua curtipendula) Sand Dropseed (Sporobolus cryptandrus) 	5.0 1.0	 () B. Seed Mixture 2 (Sandy Siles) Sand Dropseed (Sporobolus cryptandrus) Sand Lovegrass (Eragostis trichodes) Plains Bristlegrass (Setaria magrostachya) 	1.0 1.0 2.0
() C. Seed Mixture 3 (Shallow Sites) Sideoats Grama (Boute curtipendula)	1.0	(<i>i</i>) D . Seed Mixture 4 (Gypsum Sites) Alkali Sacaton (<i>Sporobollud airoides</i>) Four-Wing Saltbush (<i>Atriplex canescens</i>)	1.0 5.0

Seeding should be done either late in the fall (September 15 - November 15, before freeze up, or early as possible the following spring to take advantage of available ground moisture.

() Other.

RESERVE PIT CONSTRUCTION STANDARDS

The reserve pit shall be constructed entirely in cut material and lined with 6 mil plastic.

Mineral material extracted during construction of the reserve pit may be used for development of the pad and access road as needed. Removal of any additional material on location must be purchased from BLM.

<u>Reclamation</u>: Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is NOT TO BE RUPTURED to facilitate drying; a ten month period after completion of the well is allowed for drying of the pit contents.

The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit.

OPTIONAL PIT CONSTRUCTION STANDARDS

The reserve pit may be constructed in predominantly fill material if:

- (1) Lined as specified above and
- (2) A borrow/caliche/gravel pit can be constructed immediately adjacent to the reserve pit and it capable of containing all reserve pit contents. The mineral material removed in the process can be used for pad and access road construction. However, a material sales contract must be purchased from the BLM prior to removal of the material.

Reclamation of the reserve pit consists of bulldozing all reserve pit contents and contaminants into the borrow pit and covering with a minimum of 3 feet of clean soil material. The entire area must be recontoured, all trash removed, and reseeded as specified in this permit.

CULTURAL

Whether or not an archaeological survey has been completed and notwithstanding that operations are being conducted as approved, the lessee/operator/grantee shall notify the BLM immediately if previously unidentified cultural resources are observed during surface disturbing operations. From the time of the observation, the lessee/operator/grantee shall avoid operations that will result in disturbance to these cultural resources until directed to proceed by BLM.

TRASH PIT STIPS

All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.
CULTURAL RESOURCES STIPULATIONS CARLSBAD FIELD OFFICE

PROJECT Bass Big Eddy #61-re-entry loc + Report No. On NMI-070-555 Access SITE PROTECTION AND EMPLOYEE EDUCATION: All employees of the project will be informed that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. They will be also be notified that'it is illegal to collect, damage or disturb cultural resources. EGIBLE yes A. Monitoring is required. 1. A copy of these stipulations will be supplied to the archaeological monitor at least two (2) working days prior to the start of construction activities. 2. No construction activities, including vegetation removal, may begin before the arrival of the archaeological monitor. - NO 2 quipment May be moved on to location with net archaeological monitor present <u>Uls</u> 3. The archaeological monitor will: a. Ensure that the site protection barrier is located as indicated on the attached map(s). b. Observe all surface disturbing activities within ______ feet of cultural site (see attached map(s). 1110 c. Other: Ohsense all equipment including Chilling M. d. Submit a report of the monitoring activities within thirty (30) days of completion of freen monitoring unless other arrangements are made with the BLM. These stipulations Movel on to locatur must be attached to the report. and go $\underline{\frown}$ B. The grantee must select one of the following alternatives: 1. Controlled test excavations to determine if cultural resources are present; 2. Reduction of the project size to avoid all significant cultural materials; Relocation of the project; 4. Preparation and implementation of a data recovery plan for cultural sites(s) (1) C. SITE BARRIER/FENCING: (1) 1. A temporary site protection barrier(s) will be erected prior to <u>any + all and</u> and a construction. The barrier(s) will, at a minimum, consist of upright wooden survey lath spaced light and no more than ten (10) feet apart and marked with blue ribbon flagging or blue paint. There will be no construction activities or vehicular traffic past the barrier(s). The barrier(s) will Le removed along the read chering drilling activity + replace 2. A permanent fence(s) will be erected prior to ______ construction. There to make will be no construction activities or vehicle traffic past the fence(s). 10 2. A permanent fence(s) will be erected prior to ____ will be no construction activities or vehicle traffic past the fence(s). \underbrace{U}_{1} 3. The barrier(s)/fence(s) will be placed as indicated on the attached map(s). As D. CONSTRUCTION ZONES: There will be a no construction zone East on South of exercising Pack and out wich of existing road where forced No E. OTHER: the movement of equipment- along the rouch must be restricted through sites - see attacked maps - by temporary barriers and is costed by archaeologent -

Road Three Sites Shall NOT Be Up Graded

TOWER HILL SOUTH, NEW MEXICO PROVISIONAL EDITION 1985

32103-D8-TF-024



Figure 1. Project location

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and is sig

1.

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: <u>Bass Enterprises Production Co.</u> Well No. <u>61-A</u> - <u>Big Eddy Unit</u> Location: <u>330' FSL & 1650' FEL</u> sec. <u>15</u>, T. <u>21 S.</u>, R. <u>29 E.</u> Lease: <u>NMNM-06750</u>

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at (505) 887-6544 in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: <u>11-3/4</u> inch <u>8-5/8</u> inch <u>5-1/2</u> inch

C. BOP tests

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Include the API No. assigned to well by NMOCD on the subsequent report of setting the first casing string.

II. CASING:

3. Minimimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement shall extend upward a minimum of 500 feet above the uppermost</u> <u>perforation and cover all potential oil & gas zones</u>.

III. PRESSURE CONTROL:

1. Before drilling below the 11-3/4 inch surface casing, the blowout preventer assembly shall consist of a minimum of One Annular Preventer or Two Ram-Type Preventers and a Kelly Cock/Stabbing Valve.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be <u>10000</u> psi.

3. The BOPE shall be installed before drilling below the 8-5/8 inch intermediate casing and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

4. The results of the test will be reported to the BLM Carlsbad Resource Area office at 620 East Greene Street, Carlsbad, New Mexico 88220-6292.

CHIG. SGD 33 BABYA

EXHIBIT A

BLM Serial Number: <u>NM-06750</u>

Company Reference: BIG EDDY UNIT # 61-A

STANDARD STIPULATIONS FOR PERMANENT RESOURCE ROADS

The holder/grantee/permittee shall hereafter be identified as the holder in these stipulations. The Authorized Officer is the person who approves the Application for Permit to Drill (APD) and/or Right-of-Way (ROW).

GENERAL REQUIREMENTS

The holder shall minimize disturbance to existing fences and other improvements on public domain surface. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will make a documented good-faith effort to contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence.

Holder agrees to comply with the following stipulations:

1. ROAD WIDTH AND GRADE

The road will have a driving surface of 14 feet (all roads shall have a minimum driving surface of 12 feet, unless local conditions dictate a different width). The maximum grade is 10 percent unless the box below is checked. Maximum width of surface disturbance from construction will be 30 feet.

/__/ Those segments of road where grade is in excess of 10% for more than 300 feet shall be designed by a professional engineer.

2. CROWNING AND DITCHING

Crowning with materials on site and ditching on one side of the road on the uphill side will be required. The road cross-section will conform to the cross section diagrams in Figure 1. If conditions dictate, ditching may be required for both sides of the road; if local conditions permit, a flat-bladed road may be considered (if these conditions exist, check the appropriate box below). The crown shall have a grade of approximately 2% (i.e., 1" crown on a 12' wide road).

 $/\underline{V}/$ Ditching will be required on both sides of the roadway as shown on the attached map or as staked in the field.

/__/ Flat-blading is authorized on segment(s) delineated on the attached map.

Page 3 of 4

4. TURNOUTS

Unless otherwise approved by the Authorized Officer, vehicle turnouts will be required. Turnouts will be located at 2000-foot intervals, or the turnouts will be intervisible, whichever is less. Turnouts will conform to the following diagram:





STANDARD TURNOUT - PLAN VIEW

5. SURFACING

Surfacing of the road or those portions identified on the attached map may, at the direction of the Authorized Officer, be required, if necessary, to maintain traffic within the right-of-way with caliche, gravel, or other surfacing material which shall be approved by the Authorized Officer. When surfacing is required, surfacing materials will be compacted to a minimum thickness of six inches with caliche material. The width of surfacing shall be no less than the driving surface. Prior to using any mineral materials from an existing or proposed Federal source, authorization must be obtained from the Authorized Officer.

6. CATTLEGUARDS

Where used, all cattleguard grids and foundation designs and construction shall meet the American Association of State Highway and Transportation Officials (AASHTO) Load Rating H-20, although AASHTO U-80 rated grids shall be required where heavy loads (exceeding H-20 loading), are anticipated (See BLM standard drawings for cattleguards). Cattleguard grid length shall not be less than 8 feet and width of not less than 14 feet. A wire gate (16-foot minimum width) will be provided on one side of the cattleguard unless requested otherwise by the surface user.

7. MAINTENANCE

The holder shall maintain the road in a safe, usable condition. A maintenance program shall include, but not be limited to blading, ditching, culvert installation, culvert cleaning, drainage installation, cattleguard maintenance, and surfacing.

8. PUBLIC ACCESS

- - -

Public access along this road will not be restricted by the holder without specific written approval being granted by the Authorized Officer. Gates or cattleguards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized inwriting by the Authorized Officer.

9. CULTURAL RESOURCES

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the authorized officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the authorized officer after consulting with the holder.

10. SPECIAL STIPULATIONS: See attached archaeological stipulations

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15-2001	11:10	LOSEE CARSON ATTY	105128880	15\$574663 NS 4	316 P.01/43 3/7/0/
	LOSEE,	CARSON, HAA 311 W. P. O. Be Artesia, New I (505)74 Fax: (505)	AS & CARRO Quay DX 1720 Mexico 88210 6-3505 746-6316	DLL, P. A.	
		FAX COVI	ER SHEE	T	

FAX NUMBER TRANSMITTED TO: (505) 476 -34	67	Hanne
To: Michael Stogner		1505)
of: OCD	j	770
From: Ernest Carroll		
Client/Matter: Bass Enterprises Production		
Date: <u>2-15-01</u>		
DOCUMENTS	NUMBER OF PAGES	
Application	44	
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COMMENTS:

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BEFORE THE OIL CONSERVATION DIVISION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF: **BASS ENTERPRISES PRODUCTION CO. FOR** : CASE NO. AN UNORTHODOX OIL WELL LOCATION EDDY C(

- 2-15-01 Talker W/ E. Carroll Talker W/ E. Carroll a Cost Phis april duice today - Save Verbalok @ 3:45 PM. C losee, itates: 1. Section icant 61-A at lection

15 with a bottom hole location of 330' from the North line and 1650' from the East line. This APD was approved on November 17, 2000.

2. The applicant seeks an exception to the well location requirements of Rule 104.C(1)(a) of the Oil Conservation Division to permit the re-entry of the Big Eddy Unit #61 and the drilling of a directional well to TD at the above-mentioned unorthodox bottom hole location at a depth sufficient to adequately test the Strawn formation.

3. A 320-acre oil proration unit comprising of the E/2, of Section 15 is to be dedicated to such well.

Attached to this application as Exhibit "1" is a land plat showing the ownership 4. of all 320-acre proration units located around the E/2 of said Section 15. All such proration units are owned and operated by the same Bass entities, as so denoted in the ownership portion of said land plat.

Carson. F

15. Town

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a surface

5. Application is sought for an administrative approval of this unorthodox location pursuant to Rule 104.F(2), and is sought based upon geologic conditions as shown on a structure map drawn on the top of the Strawn formation as dictated by seismic lines. A copy of the structure map drawn on the top of the Strawn formation is attached as Exhibit "2".

6. All affected parties by this application are Bass entities, and no further notification to any other parties has been made of this application.

7. Attached hereto as Exhibits "3", "4" and "5" respectively are the Application for Permit to drill and directors approval from the BLM, Approval by Mississippi Potash, Inc. to re-enter the Big Eddy Unit No. 61 Well, and Form C102 with attachments.

BASS ENTERPRISES PRODUCTION CO.

Ernest L. Carroll

LOSEE, CARSON, HAAS & CARROLL, P.A. P.O. Box 1720 Artesia, NM 88211-1720

Attorneys for Applicant

FEB-15-2001 11:11

15057466316 P.04/43







LOSEE CARSON ATTY



3160 (06200) NM-06750

IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF LAND MANAGEMENT New Mexico State Office 1474 Rodeo Rd. P.O. Box 27115 Santa Fe, New Mexico 87502-0115

NOV 1 7 2000

CERTIFIED--RETURN RECEIPT REQUESTED 7099 3220 0004 0017 5694

Bass Enterprises Production Co. Attn: W. R. Dannels P. O. Box 2760 Midland, TX 79702-2760 RECEIVED

RE: Big Eddy Unit #61-A NM-06750 1983'/S & 1990'/W, Sec. 15, T. 21 S., R. 29 E. (SHL) 330'/S & 1650'/E, Sec. 15, T. 21 S., R. 29 E. (BHL) Eddy County, New Mexico

Dear Mr. Dannels:

I have approved your application at the well location requested. A copy of the approved application with stipulations is enclosed. Please contact our Roswell Field Office at (505) 627-0272, should you have any questions or if we can be of any additional help.

Sincerely. J. Chavez Μ State Director

• '

l Enclosure

FEB-15-20	301 11	:13		CARSON AT	Y 	(B Ì	15057466316 EPCO - WID PK	
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2 Name of Operator				Single Zone		one La	Big Eddy Unit #	61-A
Bass Enter	orises Prod	uction Co.					9. API Well No.	
3. Address and Telepi	ione Na.			_			30-015-22544	
POBox 27	80	Midland, Texa	s 79702-2750) ih any State m	(915) 683-2277		10. Field and Pool, or	Wildcat
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FEB-15-2001	11:14
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LOSEE CARSON ATTY

15057466316 P.09/43

	EXHIBIT	
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OCT 14 '99 02:06FM BASE LAND DEPT.

P.2/3



October 7, 1999

Bass Enterprises Production Co. 201 Main St. Fort Worth, TX 76102-3131 Amendion: Mr. J. Wayne Bailey



Re: Big Eddy Unit No. 61 Section 15, T-71-S, R-29-E Eddy County, New Mexico

Dear Mr. Bailey:

Mississippi Potash, Inc. offers no objection to the re-entering and directional drilling of the Big Eddy Unit No. 61 weil by Bass Enterprises Production Co.

Sincereiv Tanna

Jill Farmsworth Chief Mine Engineer

Co: Ms. Leslie Theiss Bureau of Land Management Carisbad Area Resource Office P.O. Box 1778 Carisbad, NM 38220

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P.O. Box 101 • 1996 Porash Mines Road • Caristiad, New Mexico 88220 Flicite (505) 887-5591 - FAX (505) 887-0705





FEB-15-2001 11:14

LOSEE CARSON ATTY

15057466316 P.12/43

EIGHT POINT DRILLING PROGRAM BASS ENTERPRISES PRODUCTION CO.

NAME OF WELL: BIG EDDY UNIT #61A

LEGAL DESCRIPTION - SURFACE: 1983' FSL & 1990' FWL, Section 15, T21S, R29E, Eddy County, New Mexico.

Bottom Hole Location: 330' FSL & 1650' FEL, Section 15, 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 3439' (est) GL 3413'

	ESTIM	ATED	ESTIMATED		
FORMATION	TOP FR		SUBSEA TOP	BEARING	
	TVD	MD	TVD		
T/Rustler	432'	432'	+3,007'	None	
T/Salt	522'	522'	+2,917'	None	
B/Salt	2,299'	2,299'	+1,140'	None	
T/Delaware	3,132'	3,132'	+ 307'	Oil & Gas	
T/Cherry Canyon	4,074'	4,074'	- 635'	Oil & Gas	
T/Bone Spring	6,857'	6,857*	- 3,418'	Oil & Gas	
T/3 rd Bone Spring	9,826'	9,830'	- 6,398'	Oil & Gas	
T/Wolfcamp	10,126'	10,270'	- 6,838'	Oil & Gas	
T/Strawn	11,100'	11,835'	- 7,668'	Oil & Gas	
סד	11,600'	12,637'	- 8,168'		

POINT 3: CASING PROGRAM

TYPE	INTERVALS	PURPOSE	CONDITION
*16"	0' - 40'	Conductor	New
*11-3/4", 42#, H-40, STC	0' - 406'	Surface	New
* 8-5/8", 24#, K-55, STC	0' - 2,374'	Intermediate	New
* 8-5/8", 28#, S-80, STC	2374' - 3,215'	Intermediate	New
5-1/2", 17#, P110, LTC	0' - 12,637'	Production	New

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* Already in place.

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POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)

A 8OP 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	WEIGHT	<u>FV</u>		YP	FL	Ph.
0' - 10,500'	FW Lime	8.5 - 9.2	45-35	NC	NC	NC	9.5
10.500' - TD	CBW/Polymer	8.8 - 13.5	34-55	10-18	12-20	10-15	9.5-10.5

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

Drill stem tests may be performed on significant shows in zones of interest.

B) LOGGING

GR-CNL-LDT, GR-DLL-MSFL run from TD to 9100', shoe to surface.

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C) CORING

No cores are anticipated.

D) CEMENT

	AMOUNT SXS	FT OF	TYPE	GALS/SX	PPG	FT'/SX	
Circ to surface 50 sx	300 sx	406	Class C + 2% CaCl ₂ + 1/4#/sx Fiocele	6.30	14.80	1.32	

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

D) CEMENT

		FT OF				
INTERVAL	AMOUNT SXS	FILL	TYPE	GALS/SX	PPG	FT ¹ /SX
1" Stage: (Circ 15	50 sx to surface)					
Lead	1300	2515	Halco Lite + 2% CaCl ₂ + 1/4#/sx Flocele	12.09.	12.59	2.24
Tail	100	200	Class C + 2% CaCl ₂	6.34	14,80	1.34
2 ^{re} Stage: (Circ 1)	2 sx to surface)					
Lead	150	420	Halco Lite + 2% CaCl ₂ + 1/4#/sx Flocele	12.09	12,59	2.24
Tail	100	250	Class C + 2% CaCl ₂	6,34	14.80	1.34
PRODUCTION (Two stage w/DV tool @ 69	500' and circul FT OF	ate cement to surface)			
INTERVAL 1ª Stage	AMOUNT SXS	FILL	TYPE	GALS/SX	PPG	FTISX
6500'-12.637' (50% excess) 2 rd Stage	1175	6137	Poz H + 0.5% FL-25 + 0.5% FL-52 + 2 pps Sait	6.36	14.00	1.36
0'-6000' (50% excess) TAIL	550	6000	Poz. H + 10% Gel + 5% Salt + 0.2% FL-52	12.09	12.59	2.24
6000'-6500'	100	500	Çiasş Ç Neşt	6.34	14.80	1,34

" Surface & Intermediate was cemented in place during previous drilling (6/78).

E) DIRECTIONAL DRILLING (See attached directional plan.)

A straight hole will be re-drilled and drilled to 9100' TVD. A gyro survey or multishot survey will be taken every 100' from 9100' to surface.

Directional surveys will be provided at least every 200' from TD to 9100' detailing hole location. See attached directional plan.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout the Delaware, Bone Spring & Wolfcamp sections. The Strawn expected BHP is 9100 (max) or an equivalent mud weight of 13.3 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 205°F. Prior to penetrating the abnormal pressures in the Strawn, mud-monitoring equipment will be installed and operative. No H₂S is anticipated.

4

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

50 days drilling operations

15 days completion operations

JCW/mac August 30, 2000

MULTI-POINT SURFACE USE PLAN

NAME OF WELL: BIG EDDY UNIT #61A

LEGAL DESCRIPTION - SURFACE: 1983' FSL & 1990' FWL. Section 15, T21S, R29E, Eddy County, New Mexico.

Bottom Hole Location: 330' FSL & 1650' FEL, Section 15, T21S, R29E, Eddy County, New Mexico.

POINT 1: EXISTING ROADS

A) Proposed Well Site Location:

See Exhibit "A".

8) Existing Roads:

From the intersection of NM 31 & US 62-180 approximately 15 miles east of Carlsbad, NM, go 4-1/2 miles south on NM 31. Turn right and go 1.9 miles west on lease road to BEU #40 pad. Continue north across pad 1 mile into location.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit "A".

POINT 2: NEW PLANNED ACCESS ROUTE

A) Route Location:

The original drilling pad will be reconstructed and the lease road to the location will be the same with necessary reconditioning.

8) Width

Not applicable

C) Maximum Grade

Not applicable.

D) Turnout Ditches

None.

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

Page 2

 E) Culverts, Cattle Guards, and Surfacing Equipment None.

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:

None.

B) New Facilities in the Event of Production:

Will build new facilities at location pad and lay a flowline to those 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 from commercial facilities. Fresh water to be hauled from 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

Page 3

A) Materials

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

B) Land Ownership

Federally owned land for both surface locations and bottom hole location.

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.

8) 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

Page 4

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... Page 5

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.

F) Water Wells

There are no water wells within several miles of the wellsite.

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

Page 6

G) Residences and Buildings

No buildings within several miles of wellsite.

H) Historical Sites

None observed.

1) Archeological Resources

An archeological survey has been obtained for this area. A full and complete archeological survey has been 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 910 N. Canal, Suite 704 Carlsbad, New Mexico 88220 (505) 887-7329

Keith E. Bucy Box 2760 Midland, Texas 79702 (915) 683-2277

POINT 13: CERTIFICATION

Page 7

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.

8/31/00

Date

William R. Dannels

WRD/JCW:mac

10-M. WP BOPE WITH 5-M WP ANNULAR



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS:

- A. Opening between the ram to be flanged, studded, or clamped.
- B. All connections from operating manifolds to preventers to be all steel hose or tube a minimum of one inch diameter.
- C. 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 preventors.
- D. ALL connections to and from preventer to have a pressure rating equivalent to that of the BOPs.
- E. Manual controls to be installed before drilling cement plug.
- F. Kelly cock to be installed on kelly.
- G. Inside blowout preventer to be available on rig floor.
- H. Dual operating controls: one located by drillers position and the other located a safe distance from the rig floor.
- I. All chokes will be adjustable.

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DIAGRAM 1



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> EXHIBIT "8"-/ .




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Page 2 of 3

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SPECIAL DRILLING STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

Operator's Name_BASS ENTERPRISES PROD CO. Well Name & No. BIG EDDY UNIT # 61-A Location 1983' F S L & 1990' F W L Sec. 15 , T 21 S., R.29 E Lease No. NM-06750 County EDDY State New Mexico

The Special stipulations check marked below are applicable to the above described well and approval of this application to drill is conditioned upon compliance with such stipulations in addition to the General Requirements. The permittee should be familiar with the General Requirements, a copy of which is available from a Bureau of Land Management office. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PURSUANT TO TITLE 43 CER 3165.3 AND 3165.4.

This permit is valid for a period of one year from the date of approval or until lease expiration or termination whichever is shorter.

I. SPECIAL ENVIRONMENT REQUIREMENTS

() Lesser Prairie Chicken (stips attached)() San Simon Swale (stips attached)

() Floodplain (stips altached) Wother See attached archaeological stipulations.

IL ON LEASE - SURFACE REQUIREMENTS PRIOR TO DRILLING

(.) The BLM will monitor construction of this drill site. Notify the (.) Carlsbad Field Office at (505) 234-5972 () Hobbs Office (505) 393-3612, at least 3 working days prior to commencing construction.

(A Roads and the drill pad for this well must be surfaced with 6 inches of compacted caliche.

() All topsoil and vegetation encountered during the construction of the drill site area will be stockpiled and made available for resurfacing of the disturbed area after completion of the drilling operation. Topsoil on the subject location is approximately _____ inches in depth. Approximately _____ cubic yards of topsoil material will be stockpiled for reclamation.

() Other.

III. WELL COMPLETION REQUIREMENTS

() A communitization Agreement covering the acreage dedicated to the well must be filed for approval with the BLM. The effective date of the agreement must be prior to any sales.

() Surface Restoration: If the well is a producer, the reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced to a slope of 3:1 or less. All areas of the pad not necessary for production must be re-contoured to resemble the original contours of the surrounding terrain, and lopsoil must be re-distributed and re-seeded with a drill equipped with a depth indicator (set at a depth of ½ inch) with the following seed mixture, in pounds of Pure Live Seed (PLS), per acre.

() A. Seed Mixture 1 (Loamy Sites)		() 8. Seed Mixture 2 (Sandy Sites)	
Side Oats Grama (Boutelous curtipendula)	5.0	Sand Dropseed (Sporobolus cryptandrus)	1.0
Sand Dropseed (Sporobolus cryptandrus)	1.0	Sand Lovegrass (Eragostis trichodes)	1.0
		Plains Bristlegrass (Setaria magrostachya)	2.0
() C. Seed Mixture 3 (Shailow Sites) Sideoats Grama (Boute curtipendula)	1.0	(Z) D. Seed Mixture 4 (Gypsum Sites) Alkeli Sacaton (Sporobollud alroides) Four-Wing Salibush (Alriplex canescens)	1.0 5.0

Seeding should be done either late in the fail (September 15 - November 15, before freeze up, or early as possibe the following spring to take advantage of available ground moisture.

() Other.

RESERVE PIT CONSTRUCTION STANDARDS

The reserve pit shall be constructed entirely in cut material and lined with 6 mil plastic.

Mineral material extracted during construction of the reserve pit may be used for development of the pad and access road as needed. Removal of any additional material on location must be purchased from BLM.

<u>Reclamation</u>: Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is NOT TO BE RUPTURED to facilitate drying; a ten month period after completion of the well is allowed for drying of the pit contents.

The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit.

OPTIONAL PIT CONSTRUCTION STANDARDS

The reserve pit may be constructed in predominantly fill material if:

- (1) Lined as specified above and
- (2) A borrow/caliche/gravel pit can be constructed immediately adjacent to the reserve pit and it capable of containing all reserve pit contents. The mineral material removed in the process can be used for pad and access road construction. However, a material sales contract must be purchased from the BLM prior to removal of the material.

Reclamation of the reserve pit consists of bulldozing all reserve pit contents and contaminants into the borrow pit and covering with a minimum of 3 feet of clean soil material. The entire area must be recontoured, all trash removed, and reseeded as specified in this permit.

CULTURAL

Whether or not an archaeological survey has been completed and notwithstanding that operations are being conducted as approved, the lessee/operator/grantee shall notify the BLM immediately if previously unidentified cultural resources are observed during surface disturbing operations. From the time of the observation, the lessee/operator/grantee shall avoid operations that will result in disturbance to these cultural resources until directed to proceed by BLM.

TRASH PIT STIPS

All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

LOSEE CARSON ATTY

CULTURAL RESOURCES STIPULATIONS CARLSBAD FIELD OFFICE

PROJECT Bon Big Eddy # 61 - ne entry Loc - Report No. On 1011-080-55.5 Access SITE PROTECTION AND EMPLOYEE EDUCATION: All employees of the project will be informed that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. They will be also be notified that'it is illegal to collect, damage or disturb cultural resources. $\underline{\mathcal{U}}_{\underline{\mathcal{U}}}$ A. Monitoring is required. yes 1. A copy of these stipulations will be supplied to the archaeological monitor at least two (2) working days prior to the start of construction activities. 2. No construction activities, including vegetation removal, may begin before the arrival of the <u>Ye</u> archaeological monitor. - No equipment May be more on to location with out archaeological monitor present yla 3. The archaeological monitor will: a. Ensure that the site protection barrier is located as indicated on the attached map(s). b. Observe all surface disturbing activities within ______ feet of cultural site (see attached map(s). Us c. Other: Olasune all & qui prised including Chilling Ma d. Submit a report of the monitoring activities within thirty (30) days of completion of being monitoring unless other arrangements are made with the BLM. These stipulations movelen must be attached to the report. to locute-<u>Mo</u> B. The grantee must select one of the following alternatives: 1. Controlled test excavations to determine if cultural resources are present; 2. Reduction of the project size to avoid all significant cultural materials; 3. Relocation of the project; 4. Preparation and implementation of a data recovery plan for cultural sites(s) (112 C. SITE BARRIER/FENCING: <u>Uls</u> I. A temporary site protection barrier(s) will be erected prior to <u>Anti-All Antival</u> of construction. The barrier(s) will, at a minimum, consist of upright wooden survey lath spaced Lyun, no more than ten (10) feet apart and marked with blue ribbon flagging or blue paint. There will be no construction activities or vehicular traffic past the barrier(s). The barrier(s) will be removed along the second during drelling activity + replace construction. There to misci-Equipment ULO. 2. A permanent fence(s) will be erected prior to _____ will be no construction activities or vehicle traffic past the fence(s). \underline{I} 3. The barrier(s)/fence(s) will be placed as indicated on the attached map(s). 116 D. CONSTRUCTION ZONES: There will be a no construction zone <u>East on South of Insting</u> Pack and out side of exiting road where descent Mr. E. OTHER: He mintement of equipment along the reads must be restricted Hernigh sites - see attacked maps - by temporary barriers and is costed by archaeologiet-Road Thru Sites Shall NOT Be Up Graded

TOWER HILL SOUTH, NEW MEXICO PROVISIONAL EDITION 1985

J2103-D8-TF-024



Figure 1. Project location







CONDITIONS OF APPROVAL - DRILLING

Operator's Name: <u>Bass Enterprises Production Co.</u> Well No. <u>61-A</u> <u>Big Eddy Unit</u> Location: <u>330' FSL & 1650' FEL</u> sec. <u>15</u>, T. <u>21 S.</u>, R. <u>29 B.</u> Lease: <u>NMNM-06750</u>

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at (505) 887-6544 in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: 11-3/4 inch 5-5/8 inch 5-1/2 inch

C. BOP tests

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Include the API No. assigned to well by NMOCD on the subsequent report of setting the first casing string.

II. CASING:

3. Minimimum required fill of cement behind the $5 \cdot 1/2$ inch production casing is <u>cement shall extend upward a minimum of 500 feet above the uppermost</u> <u>perforation and cover all potential oil 4 gas zones</u>.

III. PRESSURE CONTROL:

1. Before drilling below the <u>11-3/4</u> inch surface casing, the blowout preventer assembly shall consist of a minimum of One Annular Preventer or Two Ram-Type Preventers and a Kelly Cock/Stabbing Valve.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 10000 psi.

3. The BOPE shall be installed before drilling below the <u>8-5/8</u> inch intermediate casing and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

4. The results of the test will be reported to the BLM Carlsbad Resource Area office at 620 East Greene Street, Carlsbad, New Mexico 88220-6292.

ORIG. SGD. . ES BABYA!

EXHIBIT A

BLM Serial Number: <u>NM-06750</u> Company Reference: <u>BIG EDDY UNIT # 61-A</u>

STANDARD STIFULATIONS FOR PERMANENT RESOURCE ROADS

The holder/grantee/permittee shall hereafter be identified as the holder in these stipulations. The Authorized Officer is the person who approves the Application for Permit to Drill (APD) and/or Right-of-Way (ROW).

GENERAL REQUIREMENTS

The holder shall minimize disturbance to existing fences and other improvements on public domain surface. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will make a documented good-faith effort to contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence.

Holder agrees to comply with the following stipulations:

1. ROAD WIDTH AND GRADE

The road will have a driving surface of 14 feet (all roads shall have a minimum driving surface of 12 feet, unless local conditions dictate a different width). The maximum grade is 10 percent unless the box below is checked. Maximum width of surface disturbance from construction will be 30 feet.

/__/ Those segments of road where grade is in excess of 10% for more than 300 feet shall be designed by a professional engineer.

2. CROWNING AND DITCHING

Crowning with materials on site and ditching on one side of the road on the uphill side will be required. The road cross-section will conform to the cross section diagrams in Figure 1. If conditions dictate, ditching may be required for both sides of the road; if local conditions permit, a flat-bladed road may be considered (if these conditions exist, check the appropriate box below). The crown shall have a grade of approximately 2% (i.e., 1" crown on a 12' wide road).

 $/\underline{V}$ / Ditching will be required on both sides of the roadway as shown on the attached map or as staked in the field.

 $\frac{1}{1}$ Flat-blading is authorized on segment(s) delineated on the attached map.

Page 3 of 4

4. TURNOUTS

Unless otherwise approved by the Authorized Officer, vehicle turnouts will be required. Turnouts will be located at 2000-foot intervals, or the turnouts will be intervisible, whichever is less. Turnouts will conform to the following diagram:

<u>TURNOUT - 10' WIDE</u>

STANDARD TURNOUT - PLAN VIEW

5. SURFACING

Surfacing of the road or those portions identified on the attached map may, at the direction of the Authorized Officer, be required, if necessary, to maintain traffic within the right-of-way with caliche, gravel, or other surfacing material which shall be approved by the Authorized Officer. When surfacing is required, surfacing materials will be compacted to a minimum thickness of six inches with caliche material. The width of surfacing shall be no less than the driving surface. Prior to using any mineral materials from an existing or proposed Federal source, authorization must be obtained from the Authorized Officer.

6. CATTLEGUARDS

Where used, all cattleguard grids and foundation designs and construction shall meet the American Association of State Highway and Transportation Officials (AASHTO) Load Rating H-20, although AASHTO U-80 rated grids shall be required where heavy loads (exceeding H-20 loading), are anticipated (See BLM standard drawings for cattleguards). Cattleguard grid length shall not be less than 8 feet and width of not less than 14 feet. A wire gate (16-foot minimum width) will be provided on one side of the cattleguard unless requested otherwise by the surface user.

7. MAINTENANCE

The holder shall maintain the road in a safe, usable condition. A maintenance program shall include, but not be limited to blading, ditching, culvert installation, culvert cleaning, drainage installation, cattleguard maintenance, and surfacing.

- <u>-</u> - -

Page 4 of 4

8. PUBLIC ACCESS

Public access along this road will not be restricted by the holder without specific written approval being granted by the Authorized Officer. Gates or cattleguards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized inwriting by the Authorized Officer.

9. CULTURAL RESOURCES

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the authorized officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the authorized officer after consulting with the holder.

10. SPECIAL STIPULATIONS: See attached archaeological stipulations

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SIZE OF HOLE	GRADE,	SIZE OF CASING	42#	PERFOOT	A06	ING DEPTH	A sy Circ t	QUANTITY OF CE	MENT
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7-7/8"	5-1/2"	P110	17#		12.637 0	-10,637	1825 sx C	irc to 3000'. DV tool @	6500'.
	11	65-110	11		10.637	- 12,637			
Drilling procedure, BO	P Diagram	Anticipated Tops	& Surface Pl	ans attached.	•	. 9	ECRE	TARY'S POTAS	H
This will be a re-entry of	of an existi	ng wellbore with a c	ontrolled dire	ectional hole be	low intermed	diate casing. KOF	o @ approx	9100' MD.	
Building angle at appro	x 4.3 deg/	100' to 51.47 deg a	10,297' and	I holding that a	ngle to PTD.	All objectives wil	l be within	orthodox spacing limits.	
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This BHL is an unortho	odox locati	on. Upon BLM app	roval of this	APD application	n, BEPCO L	and Department v	vill initiate u	northodox location	<i>C</i> Ŋ.
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IN ABOVE SPACE DESC		POSED PROGRAM:	If proposal is	to deepen, give d	data on prese	nt productive zone a	and propose	d new productive zone. If p	roposal is to drill or
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Signed	C.M	and to w	-R. Dannels	Title	Di	vision Drilling Sup	ot.	Date PI31/M)
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LAND RECEIVED OCT 1 3 1999 WRS TCS DDC HCM

October 7, 1999

Bass Enterprises Production Co. 201 Main St. Fort Worth TX 76102-3131 Attention: Mr. J. Wayne Bailey

> Re: Big Eddy Unit No. 61 Section 15, T-21-S, R-29-E Eddy County, New Mexico

ILLEGIBLE

Dear Mr. Bailey:

Mississippi Potash, Inc. offers no objection to the re-entering and directional drilling of the Big Eddy Unit No. 61 well by Bass Enterprises Production Co.

Sincereiv. Tarnoumth

Jill Farnsworth Chief Mine Engineer

Cc: Ms. Leslie Theiss Bureau of Land Management Carlsbad Area Resource Office P.O. Box 1778 Carlsbad_NM \$8220

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t di stati ta più e

P.O. Box 101 • 1996 Potash Mines Road • Carisbad, New Mexico 88220 Phone (505) 887-5591 · FAX (505) 887-0705

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P.2/2

DISTRICT I 1825 N. Franch Dr., Hobbs, NM 58240 DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Ed., 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 Pee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT



EIGHT POINT DRILLING PROGRAM BASS ENTERPRISES PRODUCTION CO.

NAME OF WELL: BIG EDDY UNIT #61A

LEGAL DESCRIPTION - SURFACE: 1983' FSL & 1990' FWL, Section 15, T21S, R29E, Eddy County, New Mexico.

Bottom Hole Location: 330' FSL & 1650' FEL, Section 15, 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 3439' (est) GL 3413'

FORMATION	ESTIM TOP FR	ATED ROM KB	ESTIMATED SUBSEA TOP	BEARING
		MD		
T/Rustler	432'	432'	+3,007'	None
T/Salt	522'	522'	+2,917'	None
B/Salt	2,299'	2,299'	+1,140'	None
T/Delaware	3,132'	3,132'	+ 307'	Oil & Gas
T/Cherry Canyon	4,074'	4,074'	- 635'	Oil & Gas
T/Bone Spring	6,857'	6,857'	- 3,418'	Oil & Gas
T/3 rd Bone Spring	9,826'	9,830'	- 6,398'	Oil & Gas
T/Wolfcamp	10,126'	10,270'	- 6,838'	Oil & Gas
T/Strawn	11,100'	11,835'	- 7,668'	Oil & Gas
TD	11,600'	12,637'	- 8,168'	

POINT 3: CASING PROGRAM

TYPE	INTERVALS	PURPOSE	CONDITION
16	0' - 40'	Conductor	New
11-3/4, 42#, H-40, STC	0' - 406'	Surface	New
* 8-5/8", 24#, K-55, STC	0' - 2,374'	Intermediate	New
* 8-5/8", 28#, S-80, STC	2374' - 3,215'	Intermediate	New
5-1/2", 17#, P110, LTC	0' - 12,637'	Production	New

* Already in place.

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	WEIGHT	FV	PV	YP	FL	Ph.
0' - 10,500'	FW Lime	8.5 - 9.2	• 45-35	NC	NC	NC	9.5
10,500' – TD	CBW/Polymer	8.8 - 13.5	34-55	10-18	12-20	10-15	9.5-10.5

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

Drill stem tests may be performed on significant shows in zones of interest.

B) LOGGING

GR-CNL-LDT, GR-DLL-MSFL run from TD to 9100', shoe to surface.

C) CORING

No cores are anticipated.

D) CEMENT

		FT OF				
	AMOUNT SXS	<u>FILL</u>	TYPE	GALS/SX	PPG	FT ³ /SX
Circ to surface 50 sx	300 sx	406	Class C + 2% CaCl ₂ + 1/4#/sx Flocele	6.30	14.80	1.32

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

- - -

D) CEMENT

INTERMEDIATE

		FIOF				
INTERVAL	AMOUNT SXS	<u> </u>	TYPE	GALS/SX	PPG	FT ³ /SX
1 st Stage: (Circ 15	0 sx to surface)					
Lead	1300	2515	Halco Lite + 2% CaCl ₂ + 1/4#/sx Flocele	12.09	12.59	2.24
Tail	100	200	Class C + 2% CaCl ₂	6.34	14.80	1.34
2 nd Stage: (Circ 1)	2 sx to surface)					
Lead	150	420	Halco Lite + 2% CaCl₂ + 1/4#/sx Flocele	12.0 9	12.59	2.24
Tail	100	280	Class C + 2% CaCl ₂	6.34	14.80	1.34
PRODUCTION (Two stage w/DV tool @ 65	500' and circul	ate cement to surface)			
		FIOF	TVDC			
1ª Stage	AMOUNT SAS			GALS/SX	PPG	<u>F195X</u>
6500'-12,637' (50% excess) 2 nd Stage	1175	6137	Poz H + 0.5% FL-25 + 0.5% FL-52 + 2 pps Salt	6.36	14.0 0	1.36
LEAD						
0'-6000' (50% excess) TAII	550	6000	Poz H + 10% Gel + 5% Salt + 0.2% FL-52	12.09	12.59	2.24
6000'-6500' (50% excess)	100	500	Class C Neat	6.34	14.80	1. 34

* Surface & Intermediate was cemented in place during previous drilling (6/78).

E) DIRECTIONAL DRILLING (See attached directional plan.)

A straight hole will be re-drilled and drilled to 9100' TVD. A gyro survey or multishot survey will be taken every 100' from 9100' to surface.

Directional surveys will be provided at least every 200' from TD to 9100' detailing hole location. See attached directional plan.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout the Delaware, Bone Spring & Wolfcamp sections. The Strawn expected BHP is 9100 (max) or an equivalent mud weight of 13.3 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 205° F. Prior to penetrating the abnormal pressures in the Strawn, 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

50 days drilling operations

15 days completion operations

JCW/mac August 30, 2000

MULTI-POINT SURFACE USE PLAN

NAME OF WELL: BIG EDDY UNIT #61A

LEGAL DESCRIPTION - SURFACE: 1983' FSL & 1990' FWL, Section 15, T21S, R29E, Eddy County, New Mexico.

Bottom Hole Location: 330' FSL & 1650' FEL, Section 15, T21S, R29E, Eddy County, New Mexico.

POINT 1: EXISTING ROADS

A) Proposed Well Site Location:

See Exhibit "A".

B) Existing Roads:

From the intersection of NM 31 & US 62-180 approximately 15 miles east of Carlsbad, NM, go 4-1/2 miles south on NM 31. Turn right and go 1.9 miles west on lease road to BEU #40 pad. Continue north across pad 1 mile into location.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit "A".

POINT 2: NEW PLANNED ACCESS ROUTE

A) Route Location:

The original drilling pad will be reconstructed and the lease road to the location will be the same with necessary reconditioning.

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 Equipment None.

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:

None.

B) New Facilities in the Event of Production: *

Will build new facilities at location pad and lay a flowline to those 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 from commercial facilities. Fresh water to be hauled from 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 Exhibits "A".

B) Land Ownership

Federally owned land for both surface locations and bottom hole location.

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...

Page 4

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.

Page 5

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.

F) Water Wells

There are no water wells within several miles of the wellsite.

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

G) Residences and Buildings

No buildings within several miles of wellsite.

H) Historical Sites

None observed.

I) Archeological Resources

An archeological survey has been obtained for this area. A full and complete archeological survey has been 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 910 N. Canal, Suite 704 Carlsbad, New Mexico 88220 (505) 887-7329

Keith E. Bucy Box 2760 Midland, Texas 79702 (915) 683-2277 Page 6

POINT 13: CERTIFICATION

Page 7

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.

8/31/00

Date

William R. Dannels

WRD/JCW:mac

10-M. WP BOPE WITH 5-M WP ANNULAR



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS:

- A. Opening between the ram to be flanged, studded, or clamped.
- B. All connections from operating manifolds to preventers to be all steel hose or tube a minimum of one inch diameter.
- C. 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 preventors.
- D. ALL connections to and from preventer to have a pressure rating equivalent to that of the BOPs.
- E. Manual controls to be installed before drilling cement plug.
- F. Kelly cock to be installed on kelly.
- G. Inside blowout preventer to be available on rig floor.
- H. Dual operating controls: one located by drillers position and the other located a safe distance from the rig floor.
- I. All chokes will be adjustable.



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Report Date:	August 31, 2000					Survey / DI	-S Computatio	n Method:	Minimum Curva	ture / Lubinsk	
Client:	Bass Enterprise	s Productio	on Company			-	/ertical Section	Azimuth:	135.000*		
Field:	Eddy County, N	×					Vertical Section	on Origin:	N 0.000 ft, E 0.0	00 ft	
Structure / Slot:	Big Eddy #61A	Slant Wel	-				TVD Referen	ce Datum:			
Well:	Big Eddy #61A					-	VD Reference	Elevation:	3414.0 ft relative	e to	
Borehole:	Big Eddy #61A					Sea Bed /	Ground Level	Elevation:	0.000 ft relative	5	
UW/API#:							Magnetic De	sclination:	9.274°		
Proposal Name / Modified Date:	Rev 4 / August :	31, 2000					Total Field	Strength:	49752.050 nT		
Tort / AHD / DDI /ERD ratio:	51.473" / 2333.4	14 ft / 5.11	7 / 0.201				Mag	netic Dip:	60.316°		
Grid Coordinate System:	NAD27 New Me	xico State	Planes, Eas	tern Zone, US F	eet		Declina	tion Date:	August 31, 2000	_	
Location Lat/Long:	N 32 9 16.621, V	V 104 14 5	52.902			Mag	netic Declinati	on Model:	IGRF 1999		
Location Grid N/E Y/X:	N 419981.400 ft	US, E 526	399.600 ftus	~~~			North R	eference:	Grid North		
Grid Convergence Angle:	+0.04539979*					Total Corr	Mag North -> G	rid North:	+9.229*		
Grid Scale Factor:	0.99990989					Local Coc	rdinates Refer	enced To:	Well Head		
						٠					
Station ID	QW	Incl	Azim	۵۸۲	VSec	S-IN	EI-W	Closure	at Azim	DLS	TF
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(tt)	(ft)	(.)	(°/100ft)	()
Tie-In	9000.00	0.00	135.00	00.0006	00.00	00.0	00.00	0.00	00.0	0.00	135.0MTF
KOP	9100.00	00.0	135.00	9100.00	00.00	0.00	00.0	0.00	00.00	0.00	135.0MTF
	9200.00	4.30	135.00	9199.91	3.75	-2.65	2.65	3.75	135.00	4.30 1	135.0MTF
	9300.00	8.60	135.00	9299.25	14.99	-10.60	10.60	14.99	135.00	4.30	0.0
	9400.00	12.90	135.00	9397.47	33.64	-23.79	23.79	33.64	135.00	4.30	0.0
	9500.00	17.21	135.00	9494.01	59.61	-42.15	42.15	59.61	135.00	4.30	0.0
	9600.00	21.51	135.00	9588.34	92.75	-65.58	65.58	92.75	135.00	4.30	0.0
	9700.00	25.81	135.00	9679.91	132.87	-93.95	93.95	132.87	135.00	4.30	0.0
	9800.00	30.11	135.00	9768.22	179.74	-127.10	127.10	179.74	135.00	4.30	0.0
	00.0066	34.41	135.00	9852.76	233.11	-164.83	164.83	233.11	135.00	4.30	0.0
	10000.00	38.71	135.00	9333.06	292.67	-206.95	206.95	292.67	135.00	4.30	0.0
	10100.00	43.02	135.00	10008.67	358.08	-253.20	253.20	358.08	135.00	4.30	0.0
	10200.00	47.32	135.00	10079.16	428.98	-303.34	303.34	428.98	135.00	4.30	0.0

Proposed Well Profile

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Stant Well/Big Eddy #61A/Big Eddy #61A/

EOC	10296.58 10300.00	51.47 51.47	135.00 135.00	10142.00 10144.13	502.29 504.97	-355.17 -357.06	355.17 357.06	502.29 504.97	135.00 135.00	4.30 0.00	0.0 0.0
	10400.00	51.47	135.00	10206.42	583.20	-412.38	412.38	583.20	135.00	0.00	0.0
	10500.00	51.47	135.00	10268.71	661.43 700.00	-467.70	467.70	661.43 700.00	135.00	0.00	0.0
	10600.00	51.47	135.00	10331.00	739.66	-523.02	523.02	739.66	135.00	0.00	0.0
	10700.00	51.47	135.00	10393.29	817.89	-578.33	578.33	817.89	135.00	0.00	0.0
	10800.00	51.47	135.00	10455.58	896.12	-633.65	633.65	896.12	135.00	0.00	0.0
	10900.00	51.47	135.00	10517.87	974.35	-688.97	688.97	974.35	135.00	00.0	0.0
	11000.00	51.47	135.00	10580.16	1052.58	-744.28	744.28	1052.58	135.00	0.00	0.0
	11100.00	51.47	135.00	10642.45	1130.81	-799.60	799.60	1130.81	135.00	0.00	0.0
	11200.00	51.47	135.00	10704.74	1209.04	-854.92	854.92	1209.04	135.00	0.00	0.0
	11300.00	51.47	135.00	10767.03	1287.27	-910.24	910.24	1287.27	135.00	0.00	0.0
	11400.00	51.47	135.00	10829.32	1365.50	-965.55	965.55	1365.50	135.00	0.00	0.0
	11500.00	51.47	135.00	10891.61	1443.73	-1020.87	1020.87	1443.73	135.00	0.00	0.0
	11600.00	51.47	135.00	10953.90	1521.96	-1076.19	1076.19	1521.96	135.00	0.00	0.0
	11700.00	51.47	135.00	11016.19	1600.19	-1131.51	1131.51	1600.19	135.00	0.00	0.0
	11800.00	51.47	135.00	11078.48	1678.42	-1186.82	1186.82	1678.42	135.00	0.00	0.0
Top of Strawn	11834.55	51.47	135.00	11100.00	1705.45	-1205.94	1205.94	1705.45	135.00	00.0	0.0
	11900.00	51.47	135.00	11140.77	1756.65	-1242.14	1242.14	1756.65	135.00	0.00	0.0
	12000.00	51.47	135.00	11203.06	1834.88	-1297.46	1297.46	1834.88	135.00	0.00	0.0
Top of Pay	12051.28	51.47	135.00	11235.00	1875.00	-1325.82	1325.82	1875.00	135.00	0.00	0.0
	12100.00	51.47	135.00	11265.35	1913.11	-1352.77	1352.77	1913.11	135.00	0.00	0.0
	12200.00	51.47	135.00	11327.64	1991.34	-1408.09	1408.09	1991.34	135.00	0.00	0.0
	12300.00	51.47	135.00	11389.93	2069.57	-1463.41	1463.41	2069.57	135.00	0.00	0.0
	12400.00	51.47	135.00	11452.22	2147.80	-1518.73	1518.73	2147.80	135.00	0.00	0.0
	12500.00	51.47	135.00	11514.51	2226.03	-1574.04	1574.04	2226.03	135.00	0.00	0.0
	12600.00	51.47	135.00	11576.80	2304.26	-1629.36	1629.36	2304.26	135.00	0.00	0.0
DIJ/TH8d	12637.29	51.47	135.00	11600.00	2333.45	-1650.00	1650.00	2333.45	135.00	00.0	0.0

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Survey Error Model: (No Error Model Selected)

Slant Well/Big Eddy #61A/Big Eddy #61A/

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