Distr GAS AND WATER BEARING Distr ZONES 1000					NOTIFY OCD OF SPUD & TIME TO WITNESS CEMENTING OF SURFACE & INTERMEDIATE CASING			Form C-101 May 27, 2004 mit to appropriate District Office			
Distr 1220 S. St. Francis					Santa Fe, NM 87505						
APPLIC	ATIONE	OR PERMI Operator Nam	<u><b>F</b>TODRI</u> e and Address	LL, RE-	<u>entei</u>	R, DI	EEPEN		2 OGRID	<u>AD</u> Numbe	DAZONE
Bass Enterprise P. O. Box 2760	s Production	n Co.						001801	<sup>3</sup> API N		
		Texas /9/02			N			30-015	- 34	<u>63 5</u>	11 No.
<sup>3</sup> PropertyCo		Remude	Basin 24 Sta	<sup>5</sup> Property	Name					4 ve	ill No.
1010	- <b>L</b>	*ProposedPool 1	1 Dasiii 24 Su			1		10 Pron	osedPool 2		
Nash Draw (De	laware)/B	en Spring	(Avale.	n Sand	) /	<u>415</u>	45				
		3	7	<sup>7</sup> Surface	Locatio	on					
Ul or lot no. Sec B 24	tion Townshi 23S	p Range 29E	Lot Idn	Feet fro 460		Narth/S North	outh line	Feet from the 1980	East/We: East	stline	County Eddy
$\overline{}$		* Prop	osed Bottom	Hole Loca	tion If Di	ifferer	nt From S	Surface			
UL or lot no. Sec	tion Townshi		Lot Idn	Feet fro			outh line	Feet from the	East/We:	stline	County
<u> </u>							1				]
<sup>11</sup> Work Type C	ode	<sup>12</sup> Well Type Co		tional We	ell Infor Rotary	mati		Lease Type Code		<sup>15</sup> Gro	und Level Elevation
N	0		R	Cubi	, itotal y		R	Deale Type Cour	299		
<sup>16</sup> Multiple		<sup>17</sup> Proposed Dep	· •		mation			<sup>19</sup> Contractor			<sup>20</sup> Spud Date
No Depth to Groundwa		100'		elaware mnearestfres	h water we	11	Adobe	Distance from	nnearest su		5/2006
	330'	4554'			270	0'					one in area
	netic 🛛 📿	milsthick Clay		:11500 <sub>bbls</sub>			ng <u>Method</u>	E Brine X Diesel/(	N	1	A : []
Closed-Loo		2	1 <sub>D</sub> 1						A-based LA		
BGR for	mB		<sup>1</sup> Proposed							I	92. d l
Hole Size		Casing Size	Casing we	ight/foot		tting D	epth	Sacks of Co	ement	<u></u>	Estimated TOC
14-3/4"	<u> </u>		42#		330' 3195'			1200		Surfa Surfa	
7-7/8"	5-1/2"		15.5# & 17#	#	7400'			750		3100	
			<u> </u>								
<sup>22</sup> Describe the pro Describe the blowor The 11-3/4" cas intermediate cas	ing will be sing will be s	rogram, if any. Use et in the Red B set at least 100'	additional sheet ed section of pelow the ba	ts if necessary the Basal se of the sa	Rustler f alt. BOF	format diag	tion and rams and	cemented to su	rface. T	he 8-5	5/8"
Surface is owned	d by State of	f New Mexico.	This well is l	located wit	hin the F		area.	REC	EIVE	ר	
Waiver from Mo						111-	1		- •		
	Sale Folasii	Carisbau, me.	attacheu.						1 4 2006		
								OCD-/	MTEG	1A	
R-1	11 - P	>			b	,					
<sup>23</sup> I hereby certify th					ØG		OIL C	OMSERVA	MOND	IVAS	ION
of my knowledge an constructed accor an (attached) alter	ding to NMOC	D guidelines 🔼, :			Approve	ed by:	D.	Jent C	TT S		alleria
Printed name: Ar	nette Childe	are Dan - H	Tr. 10.0	Alma	Title:	<u> </u>				0	
	lministrative		<u>u my</u>	KUND.			FEB 2	0 2006 E			<b>50 0 0 2007</b>
					Approva	al Date		-	Expiration E		
E-mail Address: ma								A PIT CLO			
Date: 01/11/20	06	Phone:	(432)683-22	77	Conditio	onsof A	pproval At	BE APPRO			OR TO THE
								CLOSUR			

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DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

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DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico

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Form C-102 Revised March 17, 1999

Energy, Minerals and Natural Resources Department

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

#### OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

			WELL LC	CATION	AND ACREA	AGE DEDICATI	ON PLAT		
API	API Number			Pool Code Pool Name					
			4	<u> 7545</u>		n Spring (1	Ive ka Sa		
Property	Code			Well Number					
REMUDA BASIN "24" STATE								4	
OGRID N	0.				Operator Nam			Eleva	
001801		<u> </u>	BASS	ENTERP	RISES PROD	UCTION COMP.	ANY	299	2
					Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	24	23 S	29 E		460	NORTH	1980	EAST	EDDY
	<b>.</b>	. <b>I</b>	Bottom	Hole Lo	cation If Diffe	rent From Sur	face		I
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
				, , , , , , , , , , , , , , , , , , ,					
Dedicated Acre	s Joint o	or Infill Co	nsolidation	Code Or	der No.			I	
40	N								
			SSIGNED	TO THIS	COMPLETION I	JNTIL ALL INTER	FSTS HAVE BI	FN CONSOLID	172D
NO ADDO						APPROVED BY			1160
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				V//	///i		OPERATO	R CERTIFICAT	TION
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					i		Date Surveye	CARY L. JONES	×.
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SECTION 2 EDDY COUNTY		UTH, RANGE 29 EAST, N.M.P.M., NEW MEXICO.
	150' NORTH ⊡ OFF SET 2990.3'	
150' ₩EST OFF SET □ 2989.7'	BASS ENTERPRISES PROD. CO. REMUDA BASIN "24" STATE #4 ELEV 2992' O LatN 32*17'47.4" Long-W 103*56'09.8"	150' EAST □ OFF SET 2993.2'
·	150' SOUTH OFF SET 2992.3'	989
		Prop. Lease Rd. 1342' 513'
793, GO SOUTH FOR 3.	ON: F STATE HWY 128 AND CO. RD. 1 MILES TO PROPOSED LEASE	100 0 100 200 FEET   SCALE: 1" = 100'   BASS ENTERPRISES PRODUCTION CO
road. Asin surveyS p.	O. BOX 1786-HOBBS, NEW MEXICO	REF: REMUDA BASIN "24" STATE No. 4 / Well Pad Topo REMUDA BASIN "24" STATE No. 4 LOCATED 460' FROM THE NORTH LINE AND 1980' FROM THE EAST LINE OF SECTION 24, TOWNSHIP 23 SOUTH, RANGE 29 EAST,



REMUDA BASIN "24" STATE #4 Located at 460' FNL and 1980' FEL Section 24, Township 23 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com W.O. Number: 5948AA – KJG #7

11-12-2005

Scale: 1" = 2000' Date: 11-17-2005

Survey Date:

BASS ENTERPRISES PRODUCTION CO.



## EIGHT POINT DRILLING PROGRAM BASS ENTERPRISES PRODUCTION CO.

## NAME OF WELL: Remuda Basin 24 State #4

LEGAL DESCRIPTION - SURFACE: 460' FNL & 1980' FEL, Section 24, T-23-S, R-29-E, Eddy County, New Mexico.

#### **POINT 1: ESTIMATED FORMATION TOPS**

(See No. 2 Below)

#### POINT 2: WATER, OIL, GAS AND/OR MINERAL BEARING FORMATIONS

Anticipated Formation Tops: KB 3009' (est) GL 2992'

	ESTIMATED	ESTIMATED	
FORMATION	TOP FROM KB	SUBSEA TOP	BEARING
T/Rustler	Not Present	Not Present	
B/Rustler	339'	+2670'	Barren
T/Salt	349'	+2660'	Barren
B/Salt	3061'	+ 52'	Barren
T/Lamar	3180'	- 171'	Barren
T/Ramsey	3210'	- 201'	Oil/Gas
T/Lwr Brushy Canyon	6665'	-3658'	Oil/Gas
T/"Y" Sand	6839'	-3830'	Oil/Gas
TD	7400'	-4391'	
POINT 3: CASING PROGRAM			
TYPE	INTERVALS	PURPOSE	CONDITION
16"	0' - 60'	Conductor	Contractor Discretion
11-3/4", 42#, WC-50,ST&C	0' - 330'	Surface	New
8-5/8", 32#, WC-50, LT&C	0' - 3195'	Intermediate	New
5-1/2", 15.5#, K-55, LT&C	0' - 6000'	Production	New
5-1/2", 17#, K-55, LT&C	6000' - 7400'	Production	New

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

A BOPE consistent with API RP-53 will be nippled up on the surface casing head. The BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. when installed on the surface casing head will be hydro-tested to 70% of internal yield pressure of casing or 1000 psig whichever is less with the rig pump. The BOPE when rigged up on the intermediate casing spool will be tested to 3000 psig by independent tester. In addition to the high pressure test, a low pressure (200 psig) 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.

#### **POINT 5: MUD PROGRAM**

· . ·

DEPTH	MUD TYPE	<u>WEIGHT</u>	FV	_PV	<u>YP</u>	FL	Ph
0' - 340'	FW Spud Mud	8.5 - 9.2	45-35	NC	NC	NC	10.0
340' - 3070'	BW	10.0	28-30	NC	NC	NC	9.5-10.5
3070' - 6000'	FW	8.4 - 8.9	28-30	NC	NC	NC	9.5-10.5
6000' - 6900'	FW/ Starch	8.7 – 8.9	30-35	4	8	<100cc	9.5-10.5
6900' - 7400'	FW/ Starch	8.7 – 8.9	40-45	4	8	<25 cc	9.5 - 10.5

\*Will increase vis for logging purposes only.

#### **POINT 6: TECHNICAL STAGES OF OPERATION**

A) TESTING

None anticipated.

B) LOGGING

GR-CNL-LDT-LLD from TD to base of Salt (+/- 3061'). GR-CNL from base of Salt to surface.

C) CONVENTIONAL CORING

None anticipated.

D) CEMENT

		FT OF				_	
INTERVAL	<u>AMOUNT SXS</u>	<u>FILL</u>	TYPE	GALS/SX	<u>PPG</u>	<u>FT³/SX</u>	
SURFACE:							
Lead - 0 - 330'	275	330'	Premium Plus + 2%	6.33	14.8	1.35	
(100% excess)			CaCl <sub>2</sub> + 1/4# Flocele				
Circ cement to surfa	ace						
INTERMEDIATE: Lead - 0 - 2695'	900	2695'	Interfill C + 0.3% Halad	14.11	11.9	0.45	
(200% excess)	900	2095	R-322	14.11	11.9	2.45	
Circ cement to surfa	n n n n n n n n n n n n n n n n n n n		N-322				
Tail - 2570 - 3195'	300	500'	Premium Plus + 2%	6.37	14.8	1.35	
(200% excess)			CaCl <sub>2</sub>				
. ,			-				
PRODUCTION:							COMPRESSIVE:
Lead - 2770 - 7400'	750	4630'	Premium Plus + 1%	6.32	11.9	1.65	Nitrogen Strength
(50% excess)			Zone Sealant 2000				300/600 1200
							scf/bbl

#### E) DIRECTIONAL DRILLING

No directional services anticipated.

## POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout Delaware section. A BHP of 3322 psi (max) or MWE of 8.7 ppg is expected. Lost circulation may exist in the Delaware Section from  $3210 - 7400^{\circ}$ . No H<sub>s</sub>S is anticipated.

Estimated BHT is 140° F.

# **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

- 12 days drilling operations
- 14 days completion operations

LHS/mac January 6, 2006

· . •

# 2000 PSI WP



#### THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. One double gate blowout preventer with lower rams for pipe and upper rams blind, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventers to have a pressure rating equivalent to that of the BOP's.
- F. Manual controls to be installed before drilling cement plug.
- G. Valve to control flow through drill pipe to be located on rig floor.
- H.

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

# 3000 PSI WP



DIAGRAM 2

**BASS ENTERPRISES PRODUCTION COMPANY** 

Remuda Bain 24 state #4





Mosaic Potash Carlsbad Inc. PO Box 71 1361 Potash Mines Road Carlsbad, NM 88220 www.mosaicco.com Tel 505-887-2871 Fax 505-887-0589

December 29, 2005

Mr. Brad Glasscock Bass Enterprises Production Co. 201 Main Street Fort Worth, TX 76102-3131 (817) 339-7185



Dear Mr. Glasscock:

We are in receipt of your request dated 12/20/2005 concerning 5 well locations in Section 24, T-23-S, R-29-E. Mosaic Potash Carlsbad Inc. does have a potash lease ¼ mile from the northwest corner of this section.

All locations requested (Remuda Basin 24 State #4 thru #8) are further than 1/4 mile from our LMR. However, all but #7 are located in measured ore as delineated by the BLM. This ore is economically mineable but not currently in the mine plan, several oil wells have already been drilled in the area. Mosaic Potash does not object to drilling at these locations.

As more information becomes available, our estimates of the extent of potash resources in any given area may change. Therefore, please consider this "no objection" to this location to be valid for one year only. If you are still considering this well location at a date later than one year from today, notify us again at that time so we can make the decision on information current at that time. Do not consider a "no objection offered" or an "objection offered" decision to be permanent.

Mosaic Potash submits this letter in lieu of the forms requested.

Sincerely,

Dan Morehouse Mine Engineering Superintendent

cc:

Don Purvis Charlie High

Joe Lara

#### BASS ENTERPRISES PRODUCTION CO.

201 MAIN ST. FORT WORTH, TEXAS 76102-3131 817/390-8400

January 9, 2006

#### FEDERAL EXPRESS

AECEIVED JAN 1 1 2006

Oil Conservation Division 1301 West Grand Artesia, New Mexico 88210

Attention: Bryan Arrant

# Re: Mosaic Potash Carlsbad, Inc. Waiver of Objection to Location Letter Eddy County, New Mexico

Dear Mr. Arrant:

Attached is a copy of the letter from Mosaic Potash Carlsbad, Inc. to Bass, stating that they do not object to the drilling of the Remuda Basin 24 State #4 thru #8 wells at their current locations. This "no objection" is valid from 12/20/05 for one year.

If you need anything further, please do not hesitate to call me at (817) 339-7185.

Very truly yours,

Brad Glasscock



Mosaic Potash Carlsbad Inc. PO Box 71 1361 Potash Mines Road Carlsbad, NM 88220 www.mosaicco.com Tel 505-887-2871 Fax 505-887-0589

December 29, 2005

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AECEIVED JAN 1 1 2006



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Mosaic Potash submits this letter in lieu of the forms requested.

Sincerely,

Dan Morehouse Mine Engineering Superintendent

cc:

Don Purvis Charlie High

Joe Lara



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

January 6, 2006

New Mexico State Land Office

310 Old Santa Fe Trail.

Santa Fe, NM 87504-1148

Mark E. Fesmire, P.E. Director Oil Conservation Division

RECEIVED

JAN 0 9 2006 OOD=AFITESIA

# **RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA**

<b>OPERATOR:</b>	<b>Bass Enterprises Production Company</b>
LEASE NAME:	Remuda Basin '24'State # 4
LOCATION:	SEC. 24, TOWNSHIP 23 SOUTH, RANGE 29 EAST,
	460' FNL & 1980' FEL
	EDDY COUNTY, NM, NMPM

PROPOSED DEPTH: 7400' Dear Joe or To Whom It May Concern,

Attn: Joe Mraz or To Whom It May Concern

The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuit to the provisions of Oil Conservation Division Order R-111-P, please advise this office whether or not this application is within an established Life-of Mine Reserve area filed with and approved by your office. If not, please advise whether it is within the buffer zone established by this order. Thank you for your assistance.

Sincerely,

Bryan G. Arrant PES, District II Artesia NMOCD

In LMR In Buffer Zone Yes\_\_\_\_ Yes

J-6-06 8 m

Date:

Comments:

Signature:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

January 6, 2006 Bureau of Land Management 620 East Green St. Carlsbad, NM 88220 Attn: Craig Crantson or To Whom It May Concern

## **RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA**

OPERATOR: Bass Enterprises Production Company LEASE NAME: Remuda Basin '24'State # 4 LOCATION: SEC. 24, TOWNSHIP 23 SOUTH, RANGE 29 EAST, 460' FSL & 1980' FEL EDDY COUNTY, NM, NMPM RECEIVED

JAN 1 0 2006

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# PROPOSED DEPTH: 7400' Dear Craig or To Whom It May Concern,

The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuit to the provisions of Oil Conservation Division Order R-111-P, please advise this office whether or not this application is within an established Life-of Mine Reserve area filed with and approved by your office. If not, please advise whether it is within the buffer zone established by this order. Thank you for your assistance.

Sincerely,

Bryan G. Arrant PES, District II Artesia NMOCD

In	LMR
In	<b>Buffer Zone</b>

Yes Yes

**Comments:** Signature: Date: 1-9-06