State of New Mexico nergy, Minerals & Natural Resources Department

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies Fee Lease - 5 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco

AMENDED REPORT

APPLIC	ATION	FOR P	ERMIT T	O DRIL	L, RE-EN	TER,∖Đ̃	EEPEN	PLAGBACE	, OR A	ADD	A ZONE
	¹ Operator name and Address					15	· ·	TESIA S		2 OGR	ID Number
Bass Enterp	rises Pro	oduction	Co.			\	156°			0(01801
P.O. Box 276	50						65.85	12341			I Number
Midland, TX	79702-	2760							30-0	ζ-	31065
4 Prop	perty Code				5	Property Nan	ne			6	Well No.
	1786				Jame	es Ranch	Unit				66
⁷ Surface Location											
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	eet from the North/South Line Feet from the E		East/West	line	County	
м	36	225	30E		660	660 South 990			West	:	Eddy
		8	Proposed	Bottom I	Hole Location	on If Diffe	erent From	Surface		_	
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from t	he Nort	h/South Line	Feet from the	East/Wes	t line	County
7 110,000 1 1001 1							10 Proposed Po	ol 2			
L	uuanac	a Kidge	(Delaware)	<u>.)c</u>							
11 Work T	ype Code	1	Weil Type C	Code	13 Cable/Rotary		ry 14 Lease Type Code		15 Gr	15 Ground Level Elevation	
	N		0		1	R		S		3	292*

11 Work Type Code	12 Well Type Code	13 Cable/Rotary	¹⁴ Lease Type Code	15 Ground Level Elevation
N	0	R	S	3292*
16 Multiple	17 Proposed Depth	18 Formation	19 Contractor	²⁰ Spud Date
N	8000*	Delaware	WEK Rig 1	ASAP

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2*	13-3/8"	48#	520*	400	Surface
11 •	8-5/8"	28# & 32#	3780	885	Surface
7-7/8*	5-1/2"	15-1/2# & 17#	8000	635	3480' (300 inside
					intermediate casing)

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone.

Notify OCD at SPUD & TIME Describe the blowout prevention program, if any. Use additional sheets if necessary to witness comenting the

This well is inside the R-111 Potash Area.

District I

District II

District III

District IV

PO Box 1980, Hobbs, NM 88241-1980

811 S. 1st Street, Artesia, NM 88210-2834

1000 Rio Brazos Rd., Aztec, NM 87410

2040 South Pacheco, Santa Fe, NM 87505

The surface casing will be set \pm /- 100' above the salt in the Rustler. The intermediate casing will be set into the Lamar Lime.

Cement will tie 300' into the intermediate casing.

Attached is our potash notification letter dated March 3, 2000 along with IMC's response letter dated March 13, 2000 indicating "no objections".

R-111-P ²³ I hereby certify that the information given above is true and complete to the best

OIL CONSERVATION DIVISION of my knowledge and belief. Approved by: Title: Printed name: William R. Dannels . Cc **Expiration Date:** Approval Date: 4 Title: Division Drilling Supt.

ROSINETT' NM
RECEIVED

DISTRICT I 1625 M. French Dr., Hobbs, NM 56240

State of New Mexico

Form C-102 Revised March 17, 1999

DISTRICT II 811 South First, Artonia, NM 88210 Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

DISTRICT III 1000 Rio Brance Rd., Astec, NM 57410

2040 South Pacheco, Santa Fe, 104 87606

DISTRICT IV

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	Quahada Ridge	e (Delaware), SE
Property Code	Property Name	Well Number
	JAMES RANCH UNIT	66
OGRID No.	Operator Name	Elevation
001801	BASS ENTERPRISES PRODUCTION COM	IPANY 3292'

Surface Location

ſ	UL or let No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	M	36	22 S	30 E		660	SOUTH	990	WEST	EDDY

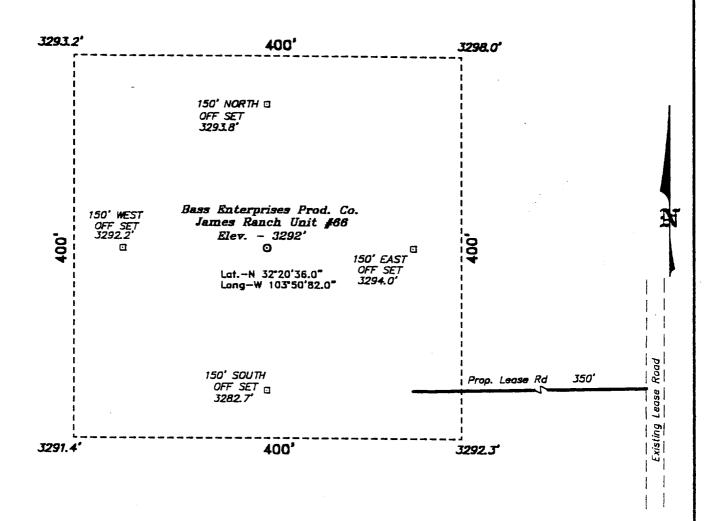
Bottom Hole Location If Different From Surface

UL or lot No.	Section Tow	nship Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint or Infill Consolidation Code				der No.				
40	N					······································	·	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
	William R. Dannels
	Printed Name Division Drilling Supt. Title 3-20-2000
	SURVEYOR CERTIFICATION
	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.
7777777	February 28, 2000 Date Surveyed Signature & Sabbi JONES Professions SurveyerMEX/C
3293.2' 3298.0' LAT - N 32°20'36.0" LONG - W 103°50'22.8	3 C 1707 Mm = 1
3291.4' 0 3292.3'	Certificate Na GGgr Jones 7977 BASIN SURVEYS

SECTION 36, TOWNSHIP 22 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF CO. RD. 802(MPP ROAD)
AND STATE HWY 128(JAL HWY), GO WEST ON STATE
HWY 128 APPROX. 1500 FEET TO A LEASE ROAD;
THENCE NORTH ON LEASE ROAD APPROX. 3500 FEET
TO A LEASE ROAD; THENCE WEST ON LEASE ROAD
APPROX. 2000 FEET; THENCE NORTH ON LEASE ROAD
APPROX. 0.5 MILE TO A PROPOSED LEASE ROAD
WHICH LIES 350 FEET FROM THE SOUTHEAST CORNER
OF THE PROPOSED WELL LOCATION.

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

W.O. Number: 0114 Drawn By: **K. GOAD**Date: 03-01-2000 Disk: KJG #122 - 0114D DWG

100 0 100 200 FEET

SCALE: 1" = 100"

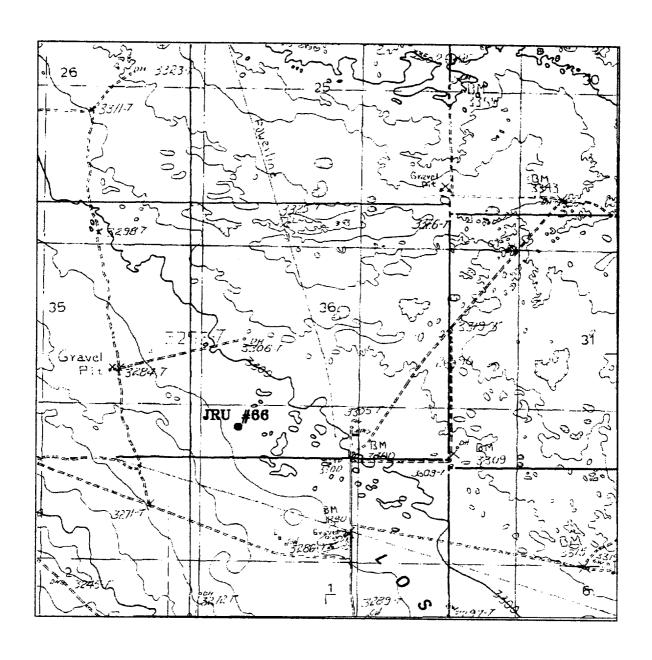
BASS ENTERPRISES PRODUCTION CO.

F: James Ranch Unit No. 66 / Well Pad Topo
THE JAMES RANCH UNIT No. 66 LOCATED 660' FROM
THE SOUTH LINE AND 990' FROM THE WEST LINE OF
SECTION 36, TOWNSHIP 22 SOUTH, RANGE 30 EAST.

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

Survey Date: 02-28-2000 | Sheet 1 c

1 of 1 Shapte



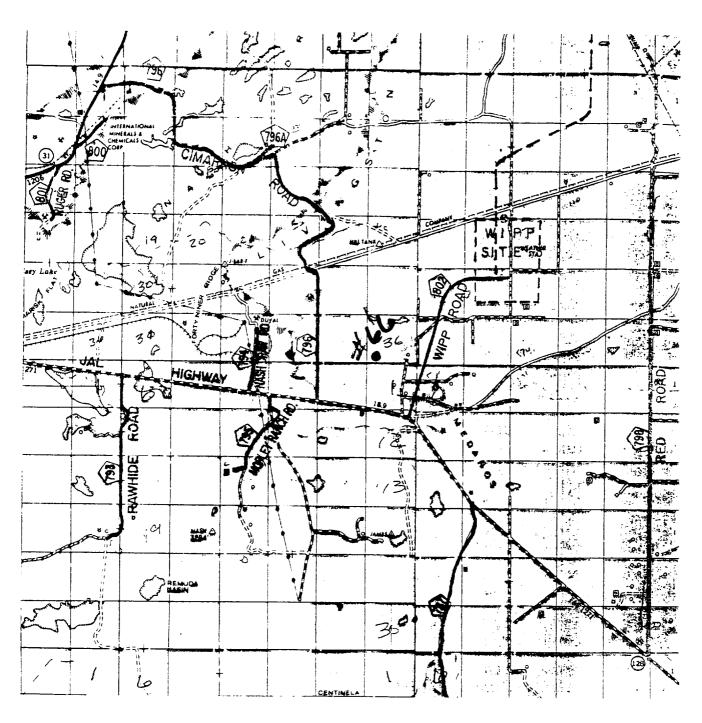
JAMES RANCH UNIT #66 Located at 660' FSL and 990' FWL Section 36, Township 22 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 38241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

W.C. Number:	0114DD - KJG #122
Survey Date:	02-28-2000
Scale: 1" = 20	000′
Date: 03-01-	-2000

BASS ENTERPRISES PRODUCTION CO.



JAMES RANCH UNIT #66 Located at 660' FSL and 990' FWL Section 36, Township 22 South, Range 30 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:	0114DD KJG #122
Survey Date:	02-28-2000
Scale: 1" = 2	MILES
Date: 03-01-	-2000

BASS ENTERPRISES PRODUCTION CO.

EIGHT POINT DRILLING PROGRAM BASS ENTERPRISES PRODUCTION CO.

NAME OF WELL: JAMES RANCH UNIT #66

LEGAL DESCRIPTION - SURFACE: 660' FSL & 990' FWL, Section 36, T-22-S, R-30-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 3307' (est)

GL 3292'

FORMATION	ESTIMATED TOP FROM KB	ESTIMATED SUBSEA TOP	BEARING
T/Rustler	197'	+3110'	Barren
T/Salt	619'	+2688'	Barren
T/Lamar	3762'	- 455'	Barren
T/Delaware Mtn. Group	3817'	- 510'	Oil/Gas
T/8A Lower Brushy Canyon	7335'	- 4028'	Oil/Gas
T/Bone Spring	7627'	- 4320'	Oil/Gas
TD	8000'	- 4693'	

POINT 3: CASING PROGRAM

<u>TYPE</u>	INTERVALS	<u>PURPOSE</u>	CONDITION
13-3/8", 48#, WC-40, STC	0- 520'	Surface	New
8-5/8", 28# & 32#, WC-50, STC	0-3780'	Intermediate	New
5-1/2", 15.50# & 17#, K-55, LTC	0-8000'	Production	New

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)

A BOP equivalent to Diagram 1 will be nippled up on the surface casing head. When testing, the BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. will be hydro-tested to 70% of the internal yield pressure of the casing. 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

Con't...

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)

A function test of pipe and blind rams to insure that the preventers are operating correctly will be performed on each trip. A function test is required only a minimum of once every 24 hours. See the attached diagram #1 for the minimum criteria for the choke manifold.

POINT 5: MUD PROGRAM

DEPTH	MUD TYPE	WEIGHT	_FV_	PV	YP	FL	<u>Ph</u>
0' - 520'	FW Spud	8.4 - 9.0	45-38	NC	NC	NC	9.5
520' - 3780'	Brine	9.8 - 10.0	28-30	NC	NC	NC	9.5
3780' - 6300'	FW	8.4 - 8.6	28-30	NC	NC	NC	9.5
6300' - 7600'	FW/Starch	8.4 - 8.6	28-30	NC	NC	<100	9.5
7600' - TD	FW/Gel/Starch	8.4 - 8.7	32-42	3	1	<100	9.5

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

None anticipated.

B) LOGGING

GR-CNL from base of intermediate casing to surface. GR-CNL-LDT-AIT from TD to base of intermediate casing.

C) CONVENTIONAL CORING

None anticipated.

D) CEMENT

<u>SURFACE</u>						
		FT OF				2
INTERVAL	<u>AMOUNT SX</u>	<u>FILL</u>	TYPE	GALS/SX	<u>PPG</u>	<u>FT3/SX</u>
0-220'	100	220	Interfill C + 1/4#/sx Flocele + 2% Cacl ₂	14.35	11.9	2.49
220-520'	300	300	Class C + 2% CaCl ₂	6.31	14.8	1.34
(100% excess circ	to surface)		-			
INTERMEDIATE						
		FT OF				
INTERVAL	AMOUNT SX	FILL	TYPE	GALS/SX	PPG	FT ³ /SX
Lead						
0-3480'	735	3480	Interfill C + 2% CaCl ₂	14.4	11.9	2.49
Tail						
3480'-3780'	150	300	Class C Neat	6.31	14.8	1.34
(100% excess in o	pen hole)					

Con't...

POINT 6: TECHNICAL STAGES OF OPERATION

D) CEMENT Con't...

PRODUCTION - A two Stage Cementing Procedure with DV tool @ ±5600' will be required.

INTERVAL 2 nd Stage Lead	AMOUNT SX	FT OF FILL	TYPE	GALS/SX	<u>PPG</u>	FT ³ /SX
3480'-5200' (50% excess)	170	1720	Interfill C	16.58	11.5	2.77
Tail 5200'-5600' (50% excess)	75	400	Class C	6.31	14.8	1.32
1st Stage 5600-8000' (50% excess)	390	2400	Super H + 3#/sx Salt + 4/10% Halad 344 + 3/10% CFR-3	8.67	13.0	1.65

E) DIRECTIONAL DRILLING

No directional services anticipated.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressured formations are anticipated throughout this well. No $\,{\rm H_2S}$ is expected.

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

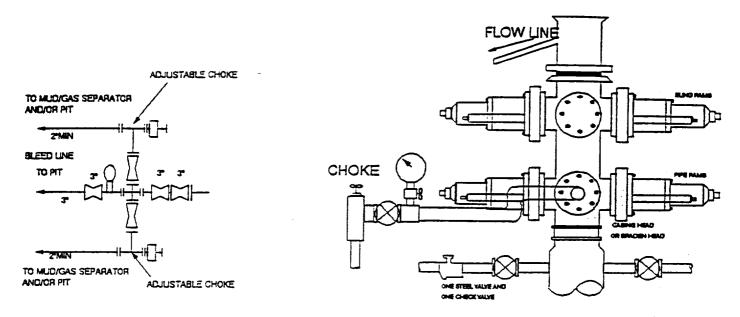
Upon approval

16 days drilling operations

10 days completion operations

BGH/mac 3/21/00

3000 PSI WP



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

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

BASS ENTERPRISES PRODUCTION CO.

201 MAIN ST. FORT WORTH, TEXAS 78103-3131 817/380-6408

March 3, 2000

U.S. MAIL & VIA FACSIMILE (505) 887-0589

IMC Kalium Carlsbad Potash Company P. O. Box 71 Carlsbad, New Mexico 88221-0071

Attn: Mr. John Purcell

Re: Proposed Wells in James Ranch Federal Unit

Section 36, T22S-R30E (State Lease No. E-5229)

Section 1, T23S-R30E (Fed. Lease No. NM 02884, LC 0543280) Section 6, T23S-R31E (Fed. Lease No. NM 02887, LC 071988) James Ranch Unit Well Nos. 33, 34, 35, 62, 66, 68, 74, 75, 81, 82,

Hudson "1" Federal Well Nos. 2, 3, 4, 5, 6

Eddy County, New Mexico

Dear Mr. Purcell:

Bass Enterprises Production Co. has plans to drill fifteen (15) wells within the James Ranch Federal Unit area in the Eddy County, New Mexico. Provided below are the well names, locations, and projected depths for these vertical wells.

Well Name	Proposed <u>Depth</u>	Proposed <u>Location</u>
JRU No. 33	7,810' (Delaware)	660' FNL, 1,880' FEL, Section 1, T23S-R30E
JRU No. 34	7,840' (Delaware)	660' FSL, 660' FEL, Section 36, T22S-R30E
JRU No. 35	7,830' (Delaware)	660' FNL, 660' FEL, Section 1, T23S-R30E
JRU No. 62	7,830' (Delaware)	1,200' FSL, 2,080' FEL, Section 1, T23S-R30E
JRU No. 66	7,775' (Delaware)	660' FSL, 990' FWL, Section 36, T22S-R30E
IRU No. 68	11,380' (Wolfcamp)	1,980' FNL, 660' FEL, Section 6, T23S-R31E
JRU No. 74	7,860' (Delaware)	330' FNL, 660' FWL, Section 6, T23S-R31E
JRU No. 75	7,920' (Delaware)	1,980' FSL, 1,650' FWL, Section 6, T23S-31E
JRU No. 81	7,780' (Delaware)	560' FNL, 990' FWL, Section 1, T23S-R30E

Well Name	Proposed <u>Depth</u>	Proposed Location
JRU No. 82	7,840' (Delaware)	1,200' FSL, 760' FEL, Section 1, T23S-R30E
Hudson "1" Fed. #2	7,805' (Delaware)	2,310' FSL, 1,980' FWL, Section 1, T23S-R30E
Hudson "1" Fed.#3	7,780' (Delaware)	1,980' FNL, 850' FWL, Section 1, T23S-R30E
Hudson "1" Fed #4	7,785' (Delaware)	1,980' FSL, 660' FWL, Section 1, T23S-R30E
Hudson "1" Fed #5	7,780' (Delaware)	990' FSL, 660' FWL, Section 1, T23S-R30E
Hudson "1" Fed. #6	7,800' (Delaware)	1,200' FSL, 1,650' FWL, Section 1, T23S-R30E

Bass hereby request a waiver of any objection IMC Kalium may have for the drilling of the above described wells. In the event IMC Kalium is agreeable to providing such waiver, please sign in the space provided and return one (1) executed original to the undersigned at your earliest convenience. Thank you very much and should you have any questions or comments or require additional information, please don't hesitate to contact the undersigned at (817) 390-8568.

Sincerely,

Worth Carlin

WWC:ca

AGREED and ACCEPTED this _	day of	, 2000.
IMC KALIUM CARLSBAD POT	ASH COMPANY	
By:		
Title:		



IMC Kalium Carlsbad Potash Company P. O. Box 71 1361 Potash Mines Road Carisbad, New Mexico 88221-0071 505.887.2871 505.887.0589 Fax

March 13, 2000

Mr. Worth Carlin Bass Enterprises Production Co. 201 Main St. Fort Worth. Texas 76102-3131

RE:

Proposed Wells in James Ranch Federal Unit Section 36,T23S-R30E (State Lease No. E-5229) Section 1, T23S-R30E (Fed Lease No. NM 02884, LC 0543280) Section 6, T23S-R31E (Fed. Lease No. NM 02887, LC 071988) JRU Nos. 33, 34, 35, 62, 66, 68, 74, 75, 81, and 82. Hudson "I" Federal Well Nos. 2, 3, 4, 5, and 6. Eddy County, New Mexico

RECEIVED

MAR 1 5 2000

AND DEPARTMENT

Dear Mr. Carlin:

IMC Kalium Carlsbad Potash Company has received your notice that Bass Enterprises Production Company intends to the above referenced wells. IMC Kalium has no objections to Bass drilling wells JRU Well No. 33, JRU Well No. 34, JRU Well No. 35, JRU Well No.62, JRU Well No.66, JRU Well No. 74, JRU Well No. 75, JRU Well No. 81, JRU Well No. 82, Hudson "1" Fed. #2, Hudson "1" Fed. #3, and Hudson "1" Fed. #4 to depths no deeper than the base of the Delaware formation at the stated locations. Based on the best available information, the locations of the fore mentioned wells will not interfere with the development of our potash resources.

IMC Kalium does object to the proposed locations for JRU Well No. 68, Hudson "1" Fed. #5, and Hudson "1" Fed. #6. The locations given for Hudson "1" Fed. #5 and Hudson "1" Fed. #6, with a projected final depths in the Delaware formation, are within 1/2 mile of where we expect to mine in the future. If Hudson "1" Fed. #5 well could be moved at least 80 feet to the North and Hudson "1" Fed. #6 well could be moved at least 45 feet to the North; the impact on potash recovery would be greatly diminished. The location given for JRU Well No. 68, with a projected final depth in the Wolfcamp formation is within 1/4 mile of where we expect to mine. Drilled at the proposed location; this well would interfere with the development of potash reserves.

The above considerations are based on the best available information at this time; as more information becomes available our estimates of the extent of the potash resources in the area may change. Therefore, please consider the "objections offered" and "no objection offered" to the well locations to be valid for one year only. If you are still considering a well location that a potash operator has or has not objected to, more than one year prior, notify us again at that time so we can make the decision based on current information.

IMC Kalium submits this letter in lieu of the forms requested.

Chief Mine Engineer

C:

Don Purvis Charlie High

Leslie Theiss

Lori Wroteneerv

Dan Morehouse Tim O'Brien

Craig Cranston