

District I
1625 N. French Drive, Hobbs, NM 68240
District II
811 South First Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-107A
Revised May 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well

☐ Established Pre-Approved Pools

EXISTING WELLBORE

☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Bass Enterprises Production Co.

P. O. Box 2760 Midland TX 79702

Operator

Address

James Ranch Unit

4

Unit Letter L Section 6 T23S-R31E

Eddy

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 001801 Property Code NM04473 API No. 30-015-20803 Lease Type ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Los Medanos (Atoka)		Los Medanos (Morrow)
Pool Code	80520		80560
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	12,912-12,920 Perfs		13,865-14,114 Perfs
Method of Production (Flowing of Artificial Lift)	Artificial Lift		Artificial Lift
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	800 psig	RECEIVED NOV - 7 2003 OCD-ARTESIA	800 psig
Oil Gravity or Gas BTU (Degree API or Gas BTU)	Dry BTU 1090		Dry BTU 1012
Producing, Shut-in or New Zone	New Zone		Producing
Date and Oil/Gas/Water Rates of Last Production (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 10/29/2003 Rates: 72 mcfpd	Date: Rates:	Date: 10/29/2003 Rates: 476 mcfpd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or part production, supporting data or explanation will be required.)	Oil Gas % 13 %	Oil Gas % %	Oil Gas % 87 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingling zones?
If not, have all working royalty and overriding royalty interest owners been notified by certified mail?

Yes ☒ No ☐
Yes ☐ No ☐

Are all produced fluids from all commingling zones compatible with each other?

Yes ☒ No ☐

Will commingling decrease the value of production?

Yes ☐ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application?

Yes ☒ No ☐

NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

Pre-Approved Pools

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Tami Wilber TITLE Production Clerk DATE 11/04/2003

TYPE OR PRINT NAME Tami Wilber TELEPHONE NO. (432)683-2277

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Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-20803		2 Pool Code 80520		3 Pool Name Los Medanos (Atoka)	
4 Property Code 001786		5 Property Name James Ranch Unit			6 Well Number 4
7 OGRID No. 001801		8 Operator Name Bass Enterprises Production Co.			9 Elevation 3296'


10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	6	23S	31E		2180'	South	330	West	Eddy

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 320		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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

<div>16</div> 				<div>RECEIVED</div> <div>NOV - 7 2003</div> <div>OCD-ARTESIA</div>		<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div><i>Tami Wilber</i></div> <div>Signature</div> <div>Tami Wilber</div> <div>Printed Name</div> <div>Production Clerk</div> <div>Title</div> <div>11/05/2003</div> <div>Date</div>	
						<div>18 SURVEYOR CERTIFICATION</div> <div>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 supervision, and that the same is true and correct to the best of my belief.</div> <div>Date of Survey</div> <div>Signature and Seal of Professional Surveyor:</div> <div>John West-676</div> <div>Certificate Number</div>	

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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-20803	² Pool Code 80560	³ Pool Name Los Medanos (Morrow)
⁴ Property Code 001786	⁵ Property Name James Ranch Unit	⁶ Well Number 4
⁷ OGRID No. 001801	⁸ Operator Name Bass Enterprises Production Co.	⁹ Elevation 3296'

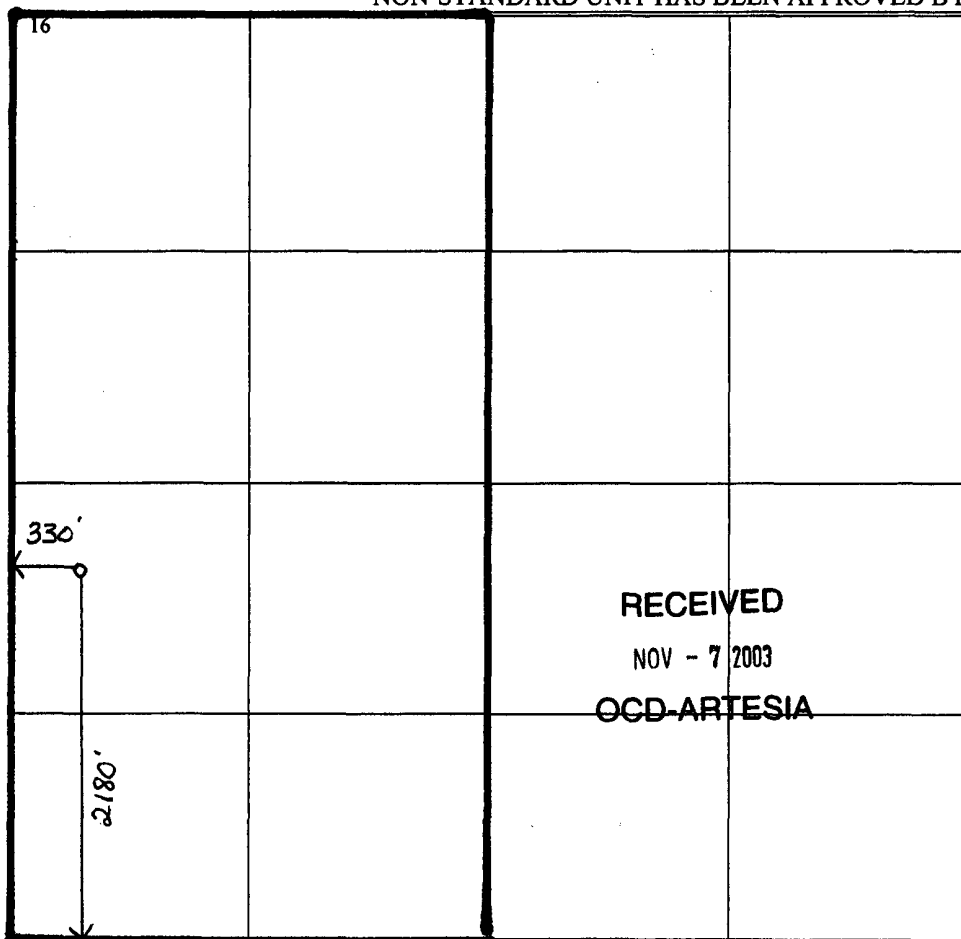

¹⁰ Surface Location

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L	6	23S	31E		2180'	South	330	West	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

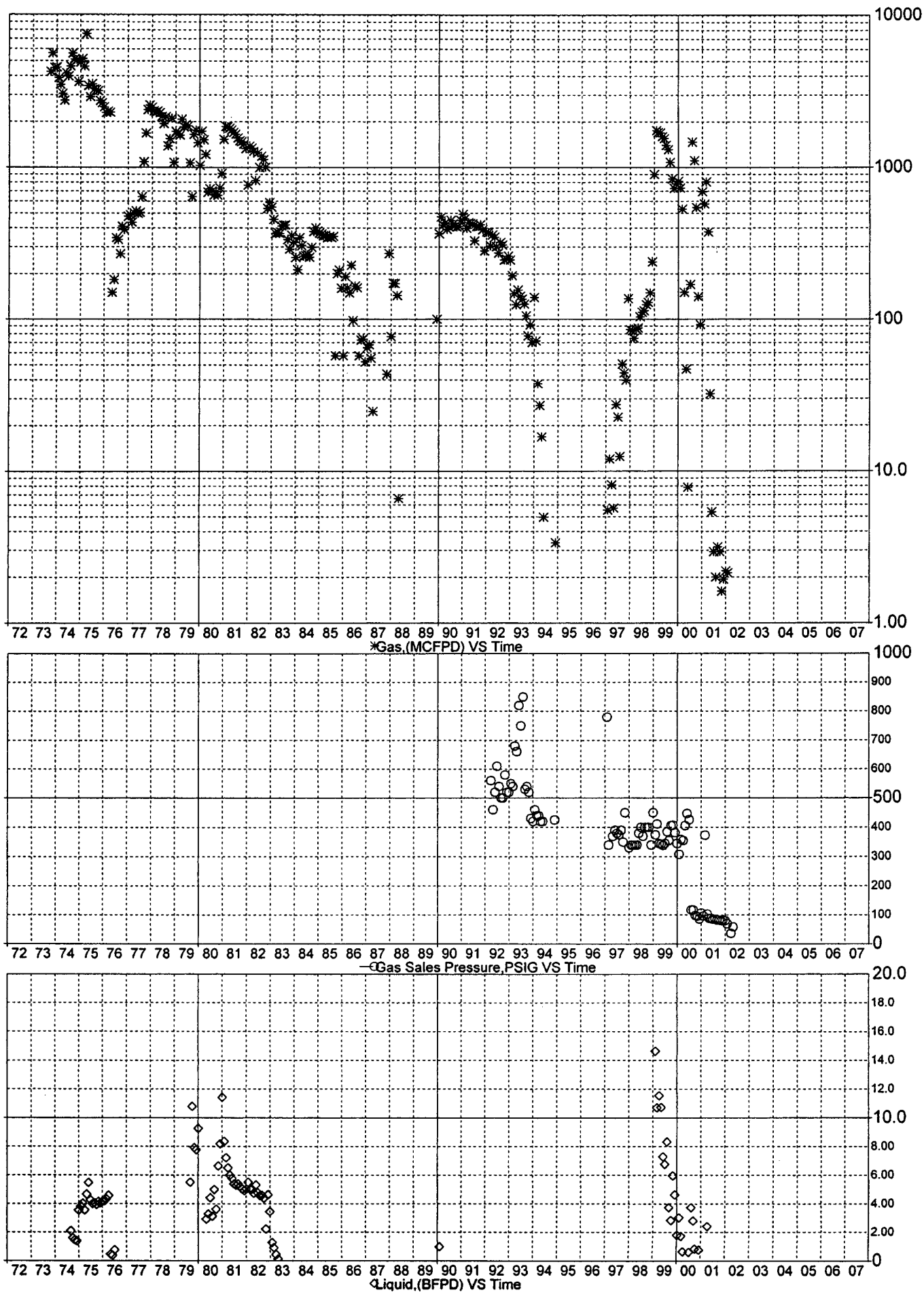
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 	RECEIVED NOV - 7 2003 OCD-ARTESIA	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Tami Wilber Printed Name Production Clerk Title 11/05/2003 Date
		¹⁸ SURVEYOR CERTIFICATION <i>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 supervision, and that the same is true and correct to the best of my belief.</i> Date of Survey Signature and Seal of Professional Surveyor: John West-676 Certificate Number

Well: JAMES RANCH UNIT # 4
Field: LOS MEDANOS
Reservoir: MORROW

County: EDDY
State: NM
Status: SI GAS

Cum Oil: 14769
Cum Water: 2817
Cum Gas: 8425547



JAMES RANCH UNIT #4
DOWNHOLE COMMINGLE APPLICATION
DETERMINATION OF BASIS FOR ALLOCATION
BASED ON GAS ANALYSIS DATA

GAS ANALYSIS #1: James Ranch Unit #14
Morrow
Nearby (closest) Morrow well to James Ranch Unit #4

GAS ANALYSIS #2: James Ranch Unit #13
Atoka
Nearby (closest) Atoka well to James Ranch Unit #4

GAS ANALYSIS #3: James Ranch Unit #4
Combined Atoka/Morrow
Recent gas analysis after returning well to production

GAS ANALYSIS COMPONENT OR INDICATOR	GAS ANALYSIS #1 MORROW JRU #14	GAS ANALYSIS #2 ATOKA JRU #13	GAS ANALYSIS #3 ATOKA/MORROW JRU #4	CALCULATED ALLOCATION TO MORROW
DRY BTU	1012	1090	1017	93.59%
SPECIFIC GRAVITY	0.575	0.625	0.582	86.00%
C1: METHANE	0.9737	0.9194	0.9652	84.35%
C2: ETHANE	0.0103	0.0413	0.0154	83.55%
			AVERAGE:	86.87%
RESULTS:	86.87% Allocated to Morrow 13.13% Allocated to Atoka			13.13%

CORPORATE MEASUREMENT SYSTEM
GPM CERTIFICATE REPORT

04/25/2002 16:18:21

Prod Date : 11/01/2001 00:00:00

Page 1 of 1

FP FIELD SERVICES-PERMIAN

Certificate of Gas Analysis

Sample Desc: ENRON JAMES RANCH #14

Sample Id: 68356

Effective Date: 11/1/01 00:00:00

Sample Type: Spot

Sample Date: 9/26/01 00:00:00

Sampled By:

Chromatograph Id: N/A

Analyzed Date:

Analyzed By: FSLAB

Analysis Id:

Sample Frequency: SEMIANNUALLY

GPA Version: GPA 2145-97

Temperature:

Pressure Base: 14.73

Pressure:

<u>Component</u>	<u>Mole %</u>	<u>GPM</u>
Methane:	97.3700	
Ethane:	1.0300	0.2755
Propane:	0.1300	0.0358
Iso Butane:	0.0100	0.0033
Butane:	0.0200	0.0063
Iso Pentane:	0.0100	0.0037
Pentane:	0.0000	0.0000
Neo Pentane:	0.0000	0.0000
Hexane:	0.0200	0.0087
Heptane:	0.0000	0.0000
Nonane:	0.0000	0.0000
Octane:	0.0000	0.0000
Decane:	0.0000	0.0000
H2s:	0.0000	
Sub Total GPM:	98.5900	0.3333

<u>Inerts</u>	<u>Mole %</u>
Carbon Dioxide:	1.2500
Nitrogen:	0.1600
Hydrogen:	0.0000
Oxygen:	0.0000
Helium:	0.0000
Argon:	0.0000
Carbon Monoxide:	0.0000
Total Mole %:	100.0000

Gravity: 0.5750

BTU: 1012.0

Saturated BTU: 994.1

Remarks:

MANLEY GAS TESTING, INC.

P.O. DRAWER 193
OFFICE(915)367-3024

FAX(915)367-1166

ODESSA, TEXAS 79760
E-MAIL: MANLEYGAST@AOL.COM

CHARGE..... 13 - 1 - 1
REC. NO. 0
TEST NUMBER.. 44206

DATE SAMPLED..... 09 -04 -03
DATE RUN..... 09 -10 -03
EFF DATE..... - -

STATION NO.
AREA
SAMPLE NAME.... JRU #13
RECEIVED FROM.. BASS ENTERPRISES
LOCATION..... CARLSBAD NEW MEXICO

SAMPLE CONDITIONS PRESSURE PSIG.. 65.0 ... FLOWING TEMP..... 102.0 F

SAMPLED BY: DC

FRACTIONAL ANALYSIS
CALCULATED at 14.650 PSIA AND 60F

	MOL%	GPM	SULPHUR DETERMINATION
HYDROGEN SULFIDE.	0.00		GRAINS/100 SCF
NITROGEN.....	0.85		* HYDROGEN SULFIDE.. 0.000
CARBON DIOXIDE...	0.49		MERCAPTANS..... 0.000
METHANE.....	91.94		SULFIDES..... 0.000
ETHANE.....	4.13	1.098	RESIDUAL SULPHUR.. 0.000
PROPANE.....	1.10	0.301	TOTAL 0.000
ISO-BUTANE.....	0.22	0.072	
NOR-BUTANE.....	0.29	0.091	LIQUEFIABLE HYDROCARBONS- GPM
ISO-PENTANE.....	0.13	0.047	
NOR-PENTANE.....	0.10	0.036	ETHANE PLUS..... 1.969
HEXANES.....	0.19	0.082	PROPANE PLUS..... 0.871
HEPTANES+	0.56	0.242	BUTANES PLUS..... 0.570
			PENTANES PLUS..... 0.407
TOTAL.....	100.00	1.969	

'Z' FACTOR = 0.9974

REID VAPOR PRESSURE

26 LB..... 0.604
12 LB..... 0.464

MIXTURE SPECIFIC GRAVITY

CALCULATED FROM ANALYSIS..... 0.625
DETERMINED BY RANAREX..... 0.000

MIXTURE HEATING VALUE..... DRY..... 1090 WET..... 1072 BTU

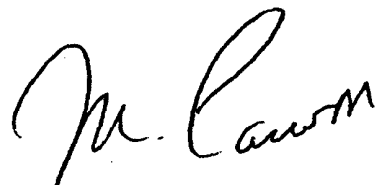
DISTRIBUTION AND REMARKS:

* H2S PPM = 0

DENNY MCCOMBS / M. SNELSON

ANALYZED BY: JT

APPROVED:



MANLEY GAS TESTING, INC.

P.O. DRAWER 193
OFFICE(915)367-3024

ODESSA, TEXAS 79760
FAX(915)367-1166

E-MAIL: MANLEYGAST@AOL.COM

CHARGE..... 13 - 1 - 1
REC. NO. 0
TEST NUMBER.. 44205

DATE SAMPLED..... 09 -04 -03
DATE RUN..... 09 -10 -03
EFF DATE..... - -

STATION NO. ...
AREA
SAMPLE NAME.... JRU #4
RECEIVED FROM.. BASS ENTERPRISES
LOCATION..... CARLSBAD NEW MEXICO

SAMPLE CONDITIONS PRESSURE PSIG.. 68.0 ... FLOWING TEMP..... 82.0 F

SAMPLED BY: DC

FRACTIONAL ANALYSIS
CALCULATED at 14.650 PSIA AND 60F

	MOL%	GPM	SULPHUR DETERMINATION	
HYDROGEN SULFIDE.	0.00		GRAINS/100 SCF	
NITROGEN.....	0.32		* HYDROGEN SULFIDE..	0.000
CARBON DIOXIDE...	1.15		MERCAPTANS.....	0.000
METHANE.....	96.52		SULFIDES.....	0.000
ETHANE.....	1.54	0.409	RESIDUAL SULPHUR..	0.000
PROPANE.....	0.18	0.049	TOTAL	0.000
ISO-BUTANE.....	0.03	0.010	LIQUEFIABLE HYDROCARBONS- GPM	
NOR-BUTANE.....	0.04	0.013	ETHANE PLUS.....	0.574
ISO-PENTANE.....	0.02	0.007	PROPANE PLUS.....	0.165
NOR-PENTANE.....	0.01	0.004	BUTANES PLUS.....	0.116
HEXANES.....	0.03	0.013	PENTANES PLUS.....	0.093
HEPTANES+	0.16	0.069		
TOTAL.....	100.00	0.574		

'Z' FACTOR = 0.9979

REID VAPOR PRESSURE

26 LB..... 0.124
12 LB..... 0.109

MIXTURE SPECIFIC GRAVITY

CALCULATED FROM ANALYSIS..... 0.582
DETERMINED BY RANAREX..... 0.000

MIXTURE HEATING VALUE..... DRY..... 1017 WET..... 1000 BTU

DISTRIBUTION AND REMARKS:

* H2S PPM = 0

DENNY MCCOMBS / M. SNELSON

ANALYZED BY: JT

APPROVED: 