ATTACHMENT NO. 2 - PAGE 1 OF 1 DUGAN PRODUCTION CORP. PROPOSED LEAH MARIE GATHERING SYSTEM AND CDP SAN JUAN COUNTY, NEW MEXICO

			1 - 14 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -			-	Completion	<u> </u>	Current Prod (4)	<u>-</u>	Spacing
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Well Name	30-045-	30-045- UL-Sec-Twn-Rng	Lease No.	Lse.Type	CA Number	Pool	Date	MCFD BC/D BW/D	BC/D E	3W/D	Unit
WELLS TO BE ADDED TO SYSTEM	TO SYST		THE STATE OF STATE OF STATES								Market Control
l eah Marie No 1	27126	27126 C-23-26N-12W	NM55113	FED	A/N	Basin Fruitland Coal	10/01/90	98	0	11	W/2-320A
Leah Marie No. 2	29831	L-23-26N-12W	NM55113	FED	A/N	WAW FR Sand/PC	Note 2	400	0	40	SW/4-160A
l eah Marie No. 3	30314	+	NM55113	FED	A/N	WAW FR Sand/PC	Note 3	400	0	40	NW/4-160A
l eah Marie No 4	30315	+	NM55113	FED	N/A	WAW FR Sand/PC	Note 4	400	0	40	SE/4-160A
Mitzi No. 1 (Note 5)			A-23-26N-12W NOG-9909-1356	Navajo Allotted	A/N	WAW FR Sand/PC	02/08/01	400	0	40	NE/4-160A
Mitzi Com No. 90		_	G-23-26N-12W NOG-9909-1356	Navajo Allotted	Pending	Basin Fruitland Coal	Note 6	400	0	40	E/2-320A

dotes:

N/A - Not applicable or not needed.

- 1. Production data for Leah Marie No. 1 is actual average during 11/01 and 12/01. Since all other wells have not produced or have not been completed, production data represents anticipated rates of production.
 - Leah Marie No. 2 was spudded on 01/14/02. Drilled TD = 1,405' and 4-1/2" casing is cemented @ 1,400'. The wellbore is currently ready to be completed, which will occur in conjunction with completion efforts on Leah Marie No. 3, 4 and Mitzi Com No. 90.
 - Leah Marie No. 3 was spudded on 01/21/02. Drilled TD = 1,480' and 4-1/2" casing is cemented @ 1,474'. The wellbore is currently ready to be completed, which will occur in conjunction with completion efforts on Leah Marie No. 2, 4 and Mitzi Com No. 90.
 - 4. Leah Marie No. 4 was spudded on 01/28/02. Drilled TD = 1,485' and 4-1/2" casing is cemented at 1,476'. The wellbore is currently ready to be completed, which will occur in conjunction with completion efforts on the Leah Marie No, 2, 3 and Mitzi Com No. 90.
- The Mitzi No. 1 completion is a re-entry of an abandoned wellbore (Tenneco's Navajo Yazza No. 1). The Pictured Cliffs formation was completed 02/08/01 and tested a rate of 97 mcfd + 140 BWPD. The well is currently shut in pending a pipeline connection.
- The Mitzi Com No. 90 was spudded on 05/24/01. Drilled TD = 1,505' and 4-1/2" casing is cemented at 1,482'. The wellbore is currently ready to be completed, which will occur in conjunction with completion efforts on the Leah Marie No. 2, 3 and 4.



dugan production corp.



Ms. Lori Wrotenbery New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505 Mr. Steve Henke Bureau of Land Management-R 1235 La Plata Highway, Suite A Farmington, NM 87401

Re:

Proposed surface commingling & off-lease measurement Six wells operated by Dugan Production Corp.

Dugan Production's Proposed Leah Marie Gas Gathering System

San Juan County, New Mexico

Dear Ms. Wrotenbery and Mr. Henke:

We are writing to request your approvals for the surface commingling and off-lease measurement of natural gas produced from six wells operated by Dugan Production Corp. Four of the wells are located on Federal Lease NM-55113, and since the proposed CDP sales meter will also be located on this lease, will not require off-lease measurement, but will require approvals for surface commingling. Two of the wells are located on Navajo Allotted Lease NOG-9909-1356 and will require approvals to surface commingle and for off-lease measurement.

Of the six wells, only one, Dugan's Leah Marie #1, has an established producing history. A second well, Dugan's Mitzi No. 1 has recently been completed, but has not been connected to a pipeline. Four of the wells have recently been drilled, but completions have been postponed until the subject gas gathering system is ready to deliver gas. The six wells are all located within Section 23, T-26N, R12W and include two Fruitland Coal completions (Pool No. 71629), plus four WAW Fruitland Sand-Pictured Cliffs completions (Pool No. 87190).

This new gathering system will be known as the Leah Marie Gas Gathering System and will deliver natural gas to a central delivery sales meter (CDP) to be installed, operated, and maintained by El Paso Field Services (EPFS) in the NWSW of Section 23, T-26N, R-12W at the Leah Marie No. 2 well site. Only natural gas will be surface commingled. All liquids will be separated, stored, and disposed of at each individual well. We do not anticipate any liquid hydrocarbon production. Dugan Production holds 100% of the working interest in all wells.

Attachment No. 1 was reproduced from the Carson Trading Post USGS Quadrangle topography map and presents Dugan's proposed Leah Marie Gas Gathering System along, with the six wells proposed to be connected to the system. In addition, Dugan Production's leasehold interest in this area is also presented. This gathering system will consist of approximately 10,200' of buried 2" to 8", 160# working pressure, new polyethylene pipe. To insure the initial system integrity, we will pressure test all lines to approximately 120 psi. To insure continued gathering system integrity, the entire gathering system will be periodically surveyed, using Dugan's portable gas detector. The frequency of our monitoring will primarily be dependent upon the indicated need, but will most likely be at least annually. We anticipate maintaining a system gathering pressure of ±10 psi and will be using a single-stage compressor located at the CDP to deliver gas into El Paso's pipeline, which is currently averaging 50 to 75 psi. Each well will be equipped with continuous recording allocation meters (Barton dry-flow or similar), which will be maintained by Dugan Production in accordance with state and federal regulations (currently Onshore Order No. 5). The monthly charts from each allocation meter will be integrated by a commercial integration company and the volumes recorded will be used to determine factors for allocating sales volumes. BTU's and revenues from the CDP sales meter to each well.

Attachment No. 2 presents well and lease information for each of the six wells to be connected to the gathering system. Attachment No. 3 presents the C-102's for each of the wells along with the dedicated spacing units and associated leases. Attachment No. 4 presents the ownership for each of the six wells, and Attachment No. 5 presents the proposed allocation procedures.

The six wells to be connected to this gathering system are completed, or will be completed, in either the WAW Fruitland Sand-Pictured Cliffs or the Basin Fruitland Coal pools, and the natural gas from each pool is believed to be mutually compatible. Since five of the six wells have no production history (four have been drilled, but not completed; and one has been completed, but not first delivered), we only have actual production data for one well, Dugan's Leah Marie No. 1, which was completed 10/01/90 in the Basin Fruitland Coal. The production history for this well is presented on Attachment No. 6, and as of 01/01/02, a total of 131,802 mcf have been produced. Production currently averages 86 mcfd plus 11 BWPD. Anticipated production of ±400 mcfd for each of the wells to be completed is based upon our experience with similar completions in the general area. Attachment No. 7 presents a copy of a gas analysis from Dugan's Leah Marie No. 1 Fruitland Coal completion, which is believed to be representative for the Fruitland Coal in this area. Also presented in Attachment No. 7 is a copy of a gas analysis from a Fruitland Sand-Pictured Cliffs completion in the SW/4 of Section 26, which is also believed to be representative of production from the WAW Fruitland Sand-Pictured Cliffs in this area. Attachment No. 8 presents a sketch of the Central Delivery Sales Meter site. The equipment at the CDP will consist of a central compressor, a two-phase separator (to recover any water that inadvertently gets into the system), a 100 bbl. steel water storage tank, and El Paso's gas sales meter, which will be an orifice-type meter.

As previously stated, Dugan Production is the operator and holds 100% of the working interest in all six wells. All leasehold interest is either Federal or Navajo Allotted, and there is no overriding royalty interest. A complete copy of this application is being sent to the Farmington Indian Minerals Office (FIMO) for their review and concurrence, as it is our understanding that FIMO will review this application on behalf of the Navajo Allottees and will provide the Allottees with whatever notice and information they need. Copies of this application sent to the BLM and FIMO are being sent by certified return-receipt mail and upon receiving the return receipts, we will provide copies to the NMOCD as evidence of interest owner notification.

In summary, Dugan Production Corp. is proposing to install a new gas gathering system which will gather produced natural gas from six wells and deliver the gas to a CDP sales meter belonging to El Paso Field Services. Dugan Production is the operator of all six wells and will install and operate the Leah Marie Gas Gathering System. A central gathering system compressor will be installed, which will allow all wells to benefit from the operation of one compressor and eliminate the need for individual wellhead compressors (which may not be economically feasible for some wells). A central compressor, as opposed to individual wellhead compressors, will provide an overall more efficient operation, will reduce the volumes of compressor fuel needed, plus will reduce compressor noise and exhaust emissions, which is an important consideration since there are people living in this general area (none close to the CDP site). All gas volumes, BTU's and revenues will be allocated from the CDP to the individual wells using allocation factors determined from gas volumes recorded by allocation meters located at each well and BTU's determined for each well. This should help to insure that the proposed surface commingling and off-lease measurement will not diminish the production value of any one well.

Should you have questions or need additional information, please let me know.

Sincerely,

John D. Roe

Engineering Manager

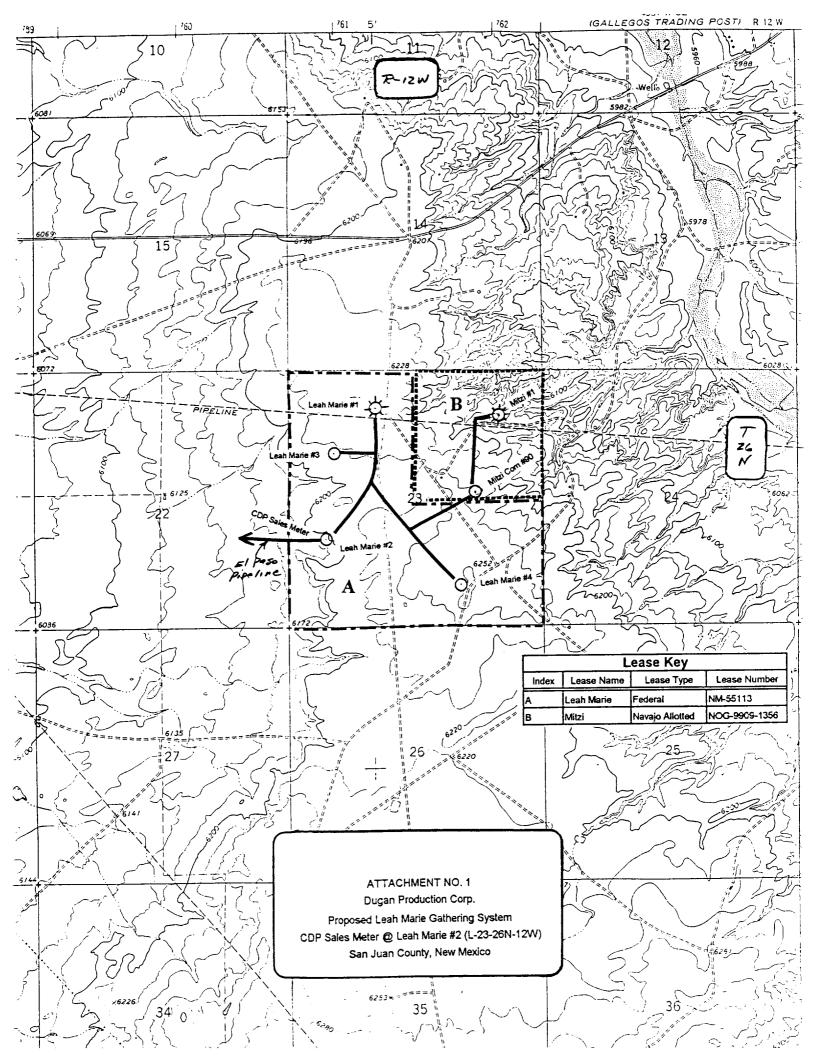
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Farmington Indian Minerals Office



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION P. O. DOX 2088

SANTA FE, NEW MEXICO 87501

AHachment No.3 P310F6

Form C-102 Revised 10-1-78

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District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

District III

State of New Mexico Energy, Minerals & Natural Resources Dev

No.3 Pgzof6

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OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

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District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Bruzos Rd., Aztec, NM 87410

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department

AKachment No.3 P23.76

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☐ AMENDED REPORT

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District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

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District I PO Box 1980, Hobbs, NAI 88241-1980 District II PO Drawer DD, Artesia, NAI 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NAI 87410 District IV

PO Bux 2088, Santa Fe, NM 87504-2088

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Energy, Minerals & Natural Resources Department

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Attachment No3 PS 6 of 6

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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ATTACHMENT NO. 4 - PAGE 1 OF 4

Interest Ownership Summary

Wells to be connected to

Dugan Production Corp.'s Proposed Leah Marie Gas Gathering System

		lo. 1, 2, 3 & 4 Pg. No. 2)		i No. 1 n Pg. No. 3)		om No. 90 n Pg. No. 4)
	WI	NI	WI	NI	WI	NI
Working Interest		tia.	t in the first of the			et de la competition
Dugan Production Corp.	100.000	87.500	100.000	83.333	100.000	85.417
Royalty Interest					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
USA - Federal		12.500		0.000		6.250
Navajo Allotted		0.000		16.667		8.333
TOTALS	100.000	100.000	100.000	100.000	100.000	100.000

ATTACHMENT 4 - PAGE 2 OF 4 Dugan Production Corp.

Well Name Leah Marie No. 1 Leah Marie No. 2 Leah Marie No. 3 Leah Marie No. 4	Pool Basin Fruitland Coal WAW FR Sand/PC WAW FR Sand/PC WAW FR Sand/PC	Location NENW 23, T-26 NWSW 23, T-26 SWNW 23, T-26 SWSE 23, T-26	6N, R12W 6N, R-12W	Spacing Unit W/2 - 320A SW/4 - 160A NW/4 - 160A SE/4 - 160A
INTEREST OWNER		INTERE	EST%	
		Gross	Net	
Working Interest				
Dugan Production Corp	•	100.0000	87.5000	
P. O. Box 420				
Farmington, NM 87499-	-0420			
D #				
Royalty		0.0000	40 5000	
USA - Bureau of Land M 1235 La Plata Hwy., Su	•	0.0000	12.5000	
Farmington, NM 87401				
. ag.o., 1411 07 101				
TOTAL WELL		100.0000	100.0000	
I O I AL WELL		100.000	100.000	

ATTACHMENT 4 - PAGE 3 OF 4 **Dugan Production Corp.** Mitzi No. 1

WAW Fruitland Sand - Pictured Cliffs Pool Well Location: NENE 23, T-26N, R-12W Spacing Unit: NE/4 (160A) San Juan County, New Mexico

INTEREST OWNER	INTERE	EST%
Working Interest	Gross	<u>Net</u>
Dugan Production Corp. P. O. Box 420 Farmington, NM 87499-0420	100.0000	83.3333
Royalty Navajo Allotment No. 59730 c/o Farmington Indian Minerals Office 1235 La Plata Hwy., Suite B Farmington, NM 87401	0.0000	16.6667
TOTAL WELL	100.0000	100.0000

ATTACHMENT 4 - PAGE 4 OF 4 Dugan Production Corp. Mitzi Com No. 90 Basin Fruitland Coal Pool Well Location: SWNE 23, T-26N, R-12W Spacing Unit: E/2 (320A) San Juan County, New Mexico

INTEREST OWNER	INTEREST%	
Working Interest	Gross	<u>Net</u>
Dugan Production Corp. P. O. Box 420 Farmington, NM 87499-0420	100.0000	85.4167
Royalty		
USA - Bureau of Land Management 1235 La Plata Highway, Suite A Farmington, NM 87401	0.0000	6.2500
Navajo Allotment No. 59730 c/o Farmington Indian Minerals Office 1235 La Plata Hwy., Suite B Farmington, NM 87401	0.0000	8.3333
TOTAL WELL	100.0000	100.0000

ATTACHMENT 5 - PAGE 1 OF 1 PROPOSED ALLOCATION PROCEDURES DUGAN PRODUCTION CORP.'S PROPOSED LEAH MARIE GAS GATHERING SYSTEM CDP GAS SALES METER: NWSW 23-26N-12W (New EI Paso Meter) SAN JUAN COUNTY, NEW MEXICO

Base Data:

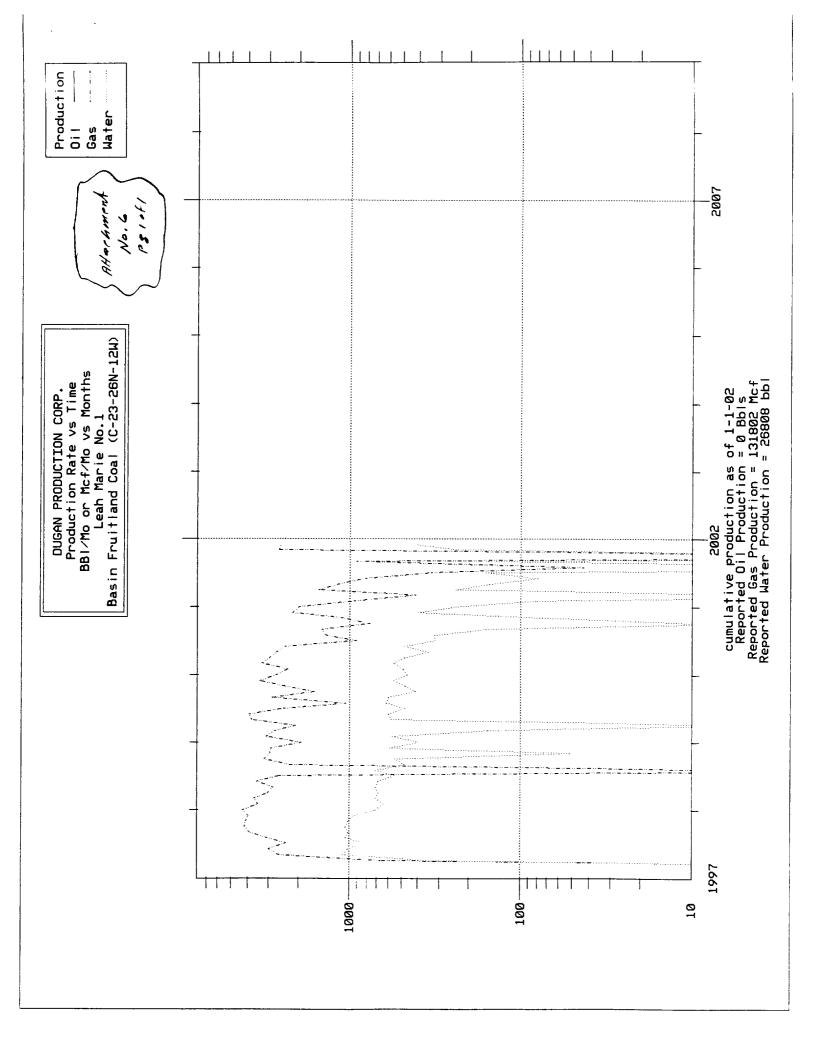
W = Gas Volume (MCF) from allocation meters at individual wells during allocation period.

X = Gas Volume (MCF) from CDP Sales Meter during allocation period.

Y = BTU's from CDP Sales Meter during allocation period.

Allocation Period is typically a calendar month and will be the same for all wells.

- Individual Well Gas Production = A + B + C + D + E
 A = Allocated Sales Volume, MCF. = (W/SUM W) x X
 - B = On lease fuel usage, MCF. Determined from equipment specification and operating conditions.
 - C = Purged and/or vented gas from well and/or lease equipment, MCF. Calculated using equipment specifications and pressures.
 - D = Allocated fuel from gathering system equipment, MCF. The total fuel required to operate gathering system equipment will be allocated to the individual wells benefiting from the equipment using allocation factors determined by W/SUM W for the wells involved.
 - E = Allocated volume of gas lost and/or vented from the gathering system and/or gathering system equipment, MCF. The total volume will be determined using industry accepted procedures for the conditions existing at the time of the loss. All volumes corresponding to liquid condensation within the gathering system will also be determined. The total volume lost and/or vented will be allocated to the individual wells affected using factors determined by W/SUM W.
- Allocated Individual Well BTU's=((W x Individual well BTU)/Sum (W x individual well BTU)) x Y.
 Individual well gas heating values to be determined in accordance with BLM regulations (currently On shore Order No. 5).



CO.CD 23 EL PASO NATURAL GAS CUSTOMER ACCOUNTING SERVICES DEPARTMENT VOLUME CALCULATION DIVISION POST OFFICE BOX 1492 EL PASO, TEXAS 79978

CONTACTS: EL PASO FIELD SERVICES (713) 757-5953 EL PASO MAINLINE (915) 496-2595

DATE 11/05/98

CHROMATOGRAPHIC GAS ANALYSIS REPORT

Altarhoment No.7 PSI of 2

MAILEE 26730

DUGAN PRODUCTION CORPORATION P O BOX 420 FARMINGTON, NM 87499-0420

METER NUMBER 99403 - LEAH MARIE #1 - Basin Fruitland Coal OPERATOR 1862 - DUGAN PRODUCTION CORP

ANALYSIS DATE 10/28/98 SAMPLE DATE 10/03/98 EFFECTIVE DATE 11/01/98 EFFECTIVE FOR 6 MONTHS TYPE CODE 2 - ACTUAL H2S GRAINS O LOCATION F - FARM BECK

COMPONENTS	NORMALIZED MOL %	GPM
COM ONENTS	NOL %	GIII
CO2	.72	.000
H2S	.00	.000
N2	2.00	.000
METHANE	96.63	.000
ETHANE	.64	.171
PROPANE	.01	.003
ISO-BUTANE	.00	.000
NORM-BUTANE	.00	.000
ISO-PENTANE	.00	.000
NORM-PENTANE	.00	.000
HEXANE PLUS	00	000
	100.00	0.174

SPECIFIC GRAVITY .573

MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 992

RATIO OF SPECIFIC HEATS .000

NO TEST SECURED FOR H2S CONTENT

BASIN Fruitland Coal
C-23-26N-12 W

12/07/84

EL PASO NATURAL GAS COMPANY MEASUREMENT DEPARTMENT POST OFFICE BOX 1492 EL PASO, TEXAS 79999

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

Alfarament No.7 Pszofz

DUGAN PRODUCTION CORP. P.O. BOX 208 FARMINGTON, NM 87401

METER STA 90503

ANAL DATE 00 00 00

METER STATION NAME

OPER

1862

DESIGNATED HITTER #3 - WAW Fruitland Sand - Pictured eliffs

TYPE CODE SAMPLE DATE EFF. DATE USE MOS. SCALE H2S GRAINS LOCATION

40 *** 05 22 81 12 05 84 06

4 F 02

	NORMAL MOL%	GPM
c o 2	2. 01	. 000
H 2 5	. 00	. 000
N2	. 15	. 000
METHANE	94.67	. 000
ETHANE	2. 66	. 711
PROPANE	. 30	. 083
ISO-BUTANE	. 08	. 026
NORM-BUTANE	. 06	.019
ISO-PENTANE	. 03	. 011
NORM-PENTANE	. 01	. 004
HEXANE PLUS	. 03	. 013
TOTALS	100.00	. 867

SPECIFIC GRAVITY

. 594

MIXTURE HEATING VALUE

(BTU/CF AT 14.73 PSIA,60 DEGREES,DRY) 1,023

RATIO OF SPECIFIC HEATS

1.303

NO TEST SECURED FOR H2S CONTENT

*** TYPE CODE EXPLANATION: VALUES FROM PREVIOUS ANALYSIS

WAW Fr Sand-PC M-Zb-Z6N-IZW PAA 8/2Z/85 Cum = 278 mmcf

