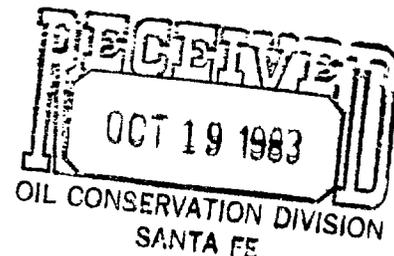


# dugan production corp.

October 17, 1983

New Mexico Oil Conservation Division  
Attn: Joe Ramey  
P O Box 2088  
Santa Fe, NM 87501



RE: Request for Surface Commingling  
Dugan Production Corp.  
Kinsale Well #1 (Undesignated Chacra) and  
Kinsale Well #2 (Lybrook Gallup)  
T23N, R7W, NMPM, Section 26: Units P & I  
Sandoval County, New Mexico  
Federal Lease No. NM 28748

Dear Mr. Ramey:

We hereby request administrative approval for surface commingling of gas production from the Chacra formation in the Kinsale #1 and from the Gallup formation in the Kinsale #2, both wells operated by Dugan Production Corp.

The Kinsale #1 was completed on February 2, 1982, with perforations in the upper Chacra, 2442-2457', testing 72 MCFD at a flowing tubing pressure of 2 psig on our initial one-point back-pressure test. (A copy is attached.) An analysis of the open hole logs indicates that within the 15' overall perforated interval, approximately 7' of pay with an average porosity of 12% exists. The 160 acre production unit for the Kinsale #1 is the SE/4 of section 26 and at the time of completion, the gas was not dedicated. The well was shut in following completion pending the negotiation of a gas contract. The well was placed on production September 6, 1983, into El Paso Natural Gas Company's system, having secured a gas contract with Northwest Pipeline Corp. and a tradeout agreement with EPNG. The pipeline pressure in El Paso's system is running 160-180 psi, which has resulted in marginal productivity from the Kinsale #1. During September, a total of 177 MCF of gas was produced during the 25 days on line; however, as a result of high line pressure, the Kinsale #1 actually delivered gas 10 days and was riding the line pressure with no production 15 days. As can be seen from the attached C-122, our initial shut in well head pressure was 407 psig.

The Kinsale #2 was completed on June 1, 1983, swab testing a rate of 72 BOPD with a GOR of 1222 from perforations in the Gallup 5112-5615'. Within the 503' overall interval completed, a total of 62 holes were perforated to develop approximately 68' of pay, averaging 6.5% porosity. The 40 acre

October 17, 1983

production unit for the Kinsale #2 is the NE/4 SE/4 of Section 26. The gas is dedicated to Northwest Pipeline. We placed the well on production during July and as of September 1 had produced 594 BO. To date we have produced this well, flowing it intermittently approximately two hours per day as the well will not flow continuously. A GOR test was taken on July 18, a copy of which is attached. As can be seen, during the test we flowed the well two hours and recovered 40 BO with an average GOR of 875. We do not believe this test is representative of sustained production and would expect production to average 15 BOPD with a GOR of approximately 2500 under continuous production. We plan to install a rod pump on the Kinsale #2 in order to produce the well more continuously and plan to commence the sale of casing head gas into El Paso's system under our contract with NWPL.

In order to allow the Kinsale #1 to produce and to provide improved pumping conditions in the Kinsale #2, Dugan Production Corp. is planning to install a small compressor at the Kinsale #1 location, compressing gas from both the Kinsale #1 and Kinsale #2 into El Paso's system through NWPL's meter run for the Kinsale #1. In order to allocate production between the two wells, we propose that one well be shut in periodically while continuing to produce the second well and thereby determine the gas production attributable to each well.

Both wells are located on a common lease which is jointly owned by Jerome P. McHugh and Dugan Production Corp., 50% each. The lease was originally obtained by McHugh under a farmout from Southern Union Exploration Co. The royalty interest of both zones is common (all federal), and as can be seen from the attached plat, Dugan and McHugh also have the lease adjacent to these production units in section 25. As can be seen from the attached production map, this is an area that is not well-developed, the nearest Gallup well being 1 mile to the northeast and the nearest Chacra well currently being produced is approximately 2 miles to the south. Dugan Production's Ballymaloe #1, approximately  $\frac{1}{2}$  mile to the east, is completed in the Chacra; however, it is not currently able to produce into the pipeline for similar reasons as the Kinsale #1. Pending the results of our compressor installation on the productivity of the Kinsale #1, we plan to install a compressor on the Ballymaloe #1. The gas from each well will qualify for Section 103 pricing and has similar qualities. It is our belief that the value of the commingled stream will be equal to the value of the individual streams; however, it should be noted that if this application for commingling is not granted, it will necessitate the installation of two compressor units in order to efficiently produce both wells. This will result in the use of additional lease fuel of approximately 3.5 MCFPD which, over a ten year period will result in approximately 13 MMCF of gas used on the lease in addition to the fuel that would have been used by a single compressor installation. In addition, should two compressors be required, an additional capital outlay of approximately \$30,000 will be required, which will detract from the overall economics of producing this lease.

New Mexico Oil Conservation Division  
Kinsale #1 and Kinsale #2  
Page 3

October 17, 1983

In summary, the proposed commingling will permit Dugan Production Corp. to operate the lease in a manner that will permit maximum recovery of gas from the lease and will result in the sale of additional natural gas. It is our belief that correlative rights will not be violated.

By copy of this application we are also requesting approval from the Bureau of Land Management for this commingling.

Should you have any questions regarding this matter, please feel free to contact me.

Sincerely,

*John D. Roe*

John D. Roe

JDR:fp

Enclosures: C-116  
C-122  
Sketch of Proposed Production Facilities  
Production Map

cc: Frank Chavez, NMOCD, Aztec, NM  
Area Manager, BLM, Farmington, NM  
Jerome P. McHugh

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|   |          |                         |                                     |                    |                                    |
|---|----------|-------------------------|-------------------------------------|--------------------|------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |          |                         | Test Date<br>Feb 10, 1982           |                    |                                    |
| Company<br>Dugan Production   |          |                         | Connection                          |                    |                                    |
| Pool<br>Wildcat   |          |                         | Formation<br>Chacra                 |                    |                                    |
| Completion Date<br>1-30-82  |          | Total Depth<br>2860'    | Plug Back TD<br>2630'               | Elevation<br>7180' | Firm or Lease Name<br>Kinsale      |
| Csg. Size<br>2 7/8"   | Wt.<br>- | Set At<br>2858'         | Perforations<br>From 2440' To 2455' |                    | Well No.<br>1                      |
| Trq. Size<br>-  | Wt.<br>- | Set At<br>-             | Perforations<br>From - To -         |                    | Unit Sec. Twp. Rge.<br>P 26 23N 7W |
| Type Well - Single - Blindhead - G.C. or G.O. Multiple<br>single  |          |                         | Packer Set At<br>-                  |                    | County<br>Sandoval                 |
| Producing Thru<br>csg.  |          | Reservoir Temp. *F<br>P | Mean Annual Temp. *F                |                    | State<br>New Mexico                |
| L   | K        | G <sub>g</sub><br>.65   | % CO <sub>2</sub>                   | % N <sub>2</sub>   | % H <sub>2</sub> S                 |
| Prover  |          | Meter Run               | Tape                                |                    |                                    |

| FLOW DATA |                     |   |              |                 |                      | TUBING DATA |                 | CASING DATA |                 | Duration of Flow |        |
|-----------|---------------------|---|--------------|-----------------|----------------------|-------------|-----------------|-------------|-----------------|------------------|--------|
| NO.       | Prover Line Size    | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. *F    | Press. p.s.i.g. | Temp. *F    | Press. p.s.i.g. | Temp. *F         |        |
| SI        |                     |   |              |                 |                      |             | -               | -           | 407             |                  | 7 days |
| 1.        | 1/2" positive choke |   |              |                 |                      |             | -               | -           | 2               | 65°              | 3 hrs  |
| 2.        |                     |   |              |                 |                      |             |                 |             |                 |                  |        |
| 3.        |                     |   |              |                 |                      |             |                 |             |                 |                  |        |
| 4.        |                     |   |              |                 |                      |             |                 |             |                 |                  |        |
| 5.        |                     |   |              |                 |                      |             |                 |             |                 |                  |        |

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                   |   |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------|---|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mscf |
| 1                         | 5.4315                |                  | 14                      | 9952                  | .9608             | 1.000                                   | 72.7                 |
| 2.                        |                       |                  |                         |                       |                   |   |                      |
| 3.                        |                       |                  |                         |                       |                   |   |                      |
| 4.                        |                       |                  |                         |                       |                   |   |                      |
| 5.                        |                       |                  |                         |                       |                   |   |                      |

| NO. | P <sub>r</sub> | Temp. *R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure P.S.I.A. | Critical Temperature R |
|-----|----------------|----------|----------------|---|------------------------------|---------------------------------------|--------------------------------|--------------------------------|----------------------------|------------------------|
| 1   |                |          |                |   |                              |                                       | X X X X X X X X                | X X X X X                      |                            |                        |
| 2.  |                |          |                |   |                              |                                       |                                |                                |                            |                        |
| 3.  |                |          |                |   |                              |                                       |                                |                                |                            |                        |
| 4.  |                |          |                |   |                              |                                       |                                |                                |                            |                        |
| 5   |                |          |                |   |                              |                                       |                                |                                |                            |                        |

|                    |                             |                                     |                             |   |  |   |  |
|--------------------|-----------------------------|-------------------------------------|-----------------------------|---|--|---|--|
| P <sub>c</sub> 419 |                             | P <sub>c</sub> <sup>2</sup> 175,561 |                             | (1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.001$                 |  | (2) $\left[ \frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0008$ |  |
| NO.                | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup>         | P <sub>r</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |  |   |  |
| 1                  | 196                         |                                     | 196                         | 175,365   |  |   |  |
| 2                  |                             |                                     |                             |   |  |   |  |
| 3                  |                             |                                     |                             |   |  |   |  |
| 4                  |                             |                                     |                             |   |  |   |  |
| 5                  |                             |                                     |                             |   |  |   |  |

Absolute Open Flow 73 Mscf @ 15.025 Angle of Slope  $\theta$  37° Slope, n .75

Remarks: heavy mist thru-out test!

Approved By Division \_\_\_\_\_ Conducted By PK Calculated By Anderson Checked By \_\_\_\_\_

WELL NO. 1111

Operator: Dugan Production Corp.  
 Pool: Lybrook Gallup  
 County: Sandoval  
 Lease Name: P O Box 208, Farmington, NM 87499  
 Well No.: 2  
 Location: U 26 I 26 23N 7W  
 Date of Test: 7-18-83  
 Type of Test: (X) Scheduled  Special

| LEASE NAME   | WELL NO. | LOCATION |    |     | DATE OF TEST | CHOKE SIZE | TBG. PRESS. | DAILY ALLOWABLE | LENGTH OF TEST HOURS | PROD. DURING TEST |              |           | GAS - OIL RATIO CU.FT./BBL. |            |            |
|--|----------|----------|----|-----|--------------|------------|-------------|-----------------|----------------------|-------------------|--------------|-----------|-----------------------------|------------|------------|
|  |          | U        | S  | T   |              |            |             |                 |                      | R                 | WATER BBL.S. | GRAV. OIL |                             | OIL BBL.S. | GAS M.C.F. |
| Kinsale  | 2        | I        | 26 | 23N | 7W           | 7-18-83    | F           | ---             | 50                   | 2                 | 0            | 40        | 40                          | 35         | 875        |
| This is a two hour flowing test. Plan to produce well 2 hrs. per day in order to conserve gas until gas connection is secured. |          |          |    |     |              |            |             |                 |                      |                   |              |           |                             |            |            |

No well will be assigned an allowable greater than the amount of oil produced on the official test.  
 During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.  
 Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.  
 Report casing pressure in lieu of tubing pressure for any well producing through casing.  
 Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 331 and appropriate pool rules.

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

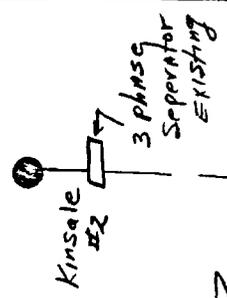
*John L. Jacobs*  
 John L. Jacobs (Signature)  
 Geologist  
 7-19-83 (Date)

PROPOSED Surface Commingling  
KINSALE well No. 1 Choery &  
KINSALE well No. 2 GALLUP  
DUGAN Production Corp.  
 Units I & P, Section 26  
 T-23N, R-7W NMPM  
 SANDOVAL County, New Mexico  
 (DRAWING NOT TO SCALE)

well locations:  
 KINSALE No. 1 - 790' FSL + 790' FEL  
 KINSALE No. 2 - 2170' FSL + 570' FEL

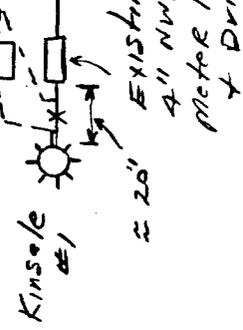
unit I unit P  
 unit I unit P

PIPELINE  
 LATERAL  
 2C-161



Proposed Line for casinghead " GAS - 1/2 to 2 1/16" Steel 1 1/2" ID

PROPOSED COMPRESSOR INSTALLATION - NEAR NEW KINSALE #1 HEAD

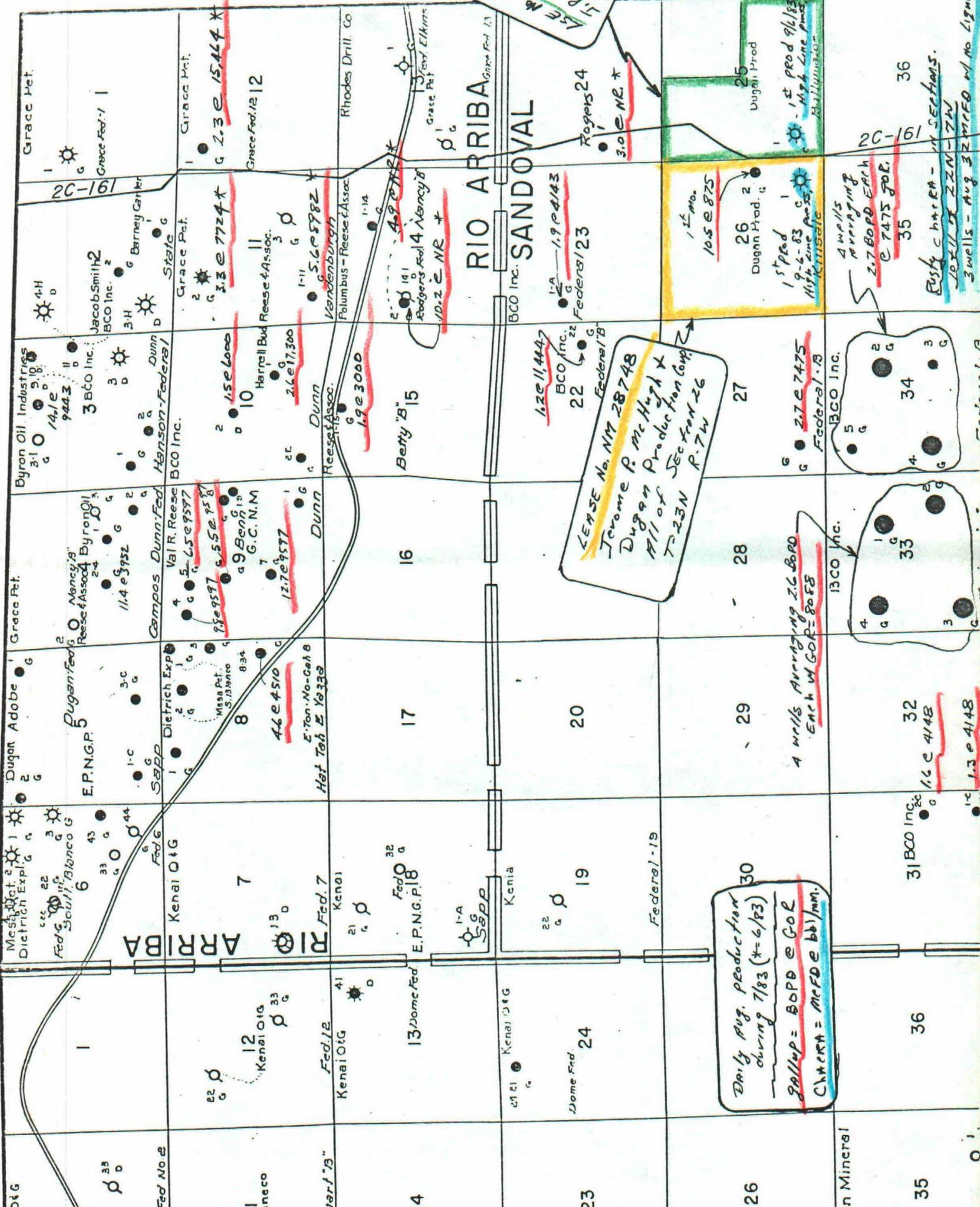


Ballymabe #1  
 DUGAN PROD.

Section 26  
 Section 35  
 Section 25  
 Section 36

R-7-W

T 23 N



USE No. 25747  
 T.R. McHugh  
 w/ 2 x 5E/4  
 25-23N7W

Per well flow  
 BOPD - GOR  
 2.1 2629  
 7.8 2634  
 15.2 2747  
 19-23N-6W  
 20-23N-6W  
 21-23N-6W  
 22-23N-6W  
 23-23N-6W  
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 27-23N-6W  
 28-23N-6W  
 29-23N-6W  
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 32-23N-6W  
 33-23N-6W  
 34-23N-6W  
 35-23N-6W  
 36-23N-6W

LEASE No. NM 28748  
 Jerome R. McHugh  
 Dugan Production Comp  
 T-23N R-7W

Daily Avg. production  
 during 7/83 (\*=6/83)  
 GALLUP = BOPD @ GOR  
 CHARTER = MCF @ 60/100

1st prod 9/6/83  
 High Line Press  
 9-6-83  
 High Line Press  
 2.7 BOPD EACH  
 @ 7475 FOL.  
 35  
 4 wells  
 averaging  
 2.7 BOPD EACH  
 @ 7475 FOL.  
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 Busy charter -  
 20-23N-6W  
 3 wells - Aug 32 PROD w/ no lignite

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