

CENTRAL BISTI LOWER GALLUP SAND UNIT San Juan County, New Mexico



PG INJECTION WELL
 GAS INJECTION WELL
 DRILLED AFTER UNITIZATION
 WATER INJECTION WELL

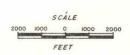




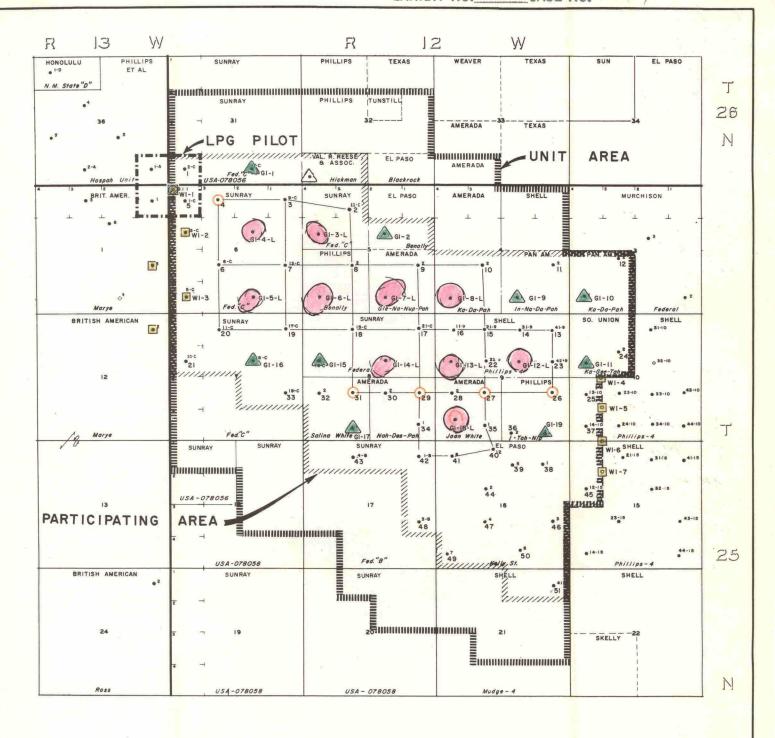
EXHIBIT NO. 1 ONE NO. 1904

RESERVOIR

PRESSURE, P.S.I.A.

PRODUCTION RATE, BBL./DAY

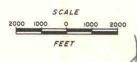
0 GAS PRODUCTION RATE MMCF/DAY RESERVOIR BBL. / RESERVOIR BBL. 5 0 0 N g N RESERVOIR San DAILY CENTRAL K Juan Co., New Mexico Þ DAILY GAS SUNRAY MID-CONTINENT OIL COMPANY EXHIBIT NO. 2 CASE NO. 704 F AVERAGE PERFORMANCE BISTI UNIT PRODUCTION 0// BOTTOM HOLE **VOLUMETRIC** PRODUCTION 6AS - 01L CASE NO RATE PRESSURE **AVERAGE** RESERVOIR RATIO RATE INJECTED VOIDAGE PRODUCTS / YEAR 1959 Activated July 1, 1959 ے RATIO Þ Ó Ø 0 Z Ö Þ × 1960 Þ S O z O ō 2000 3000 5000 000 800 900 4000 1000 <u>=</u> 1200



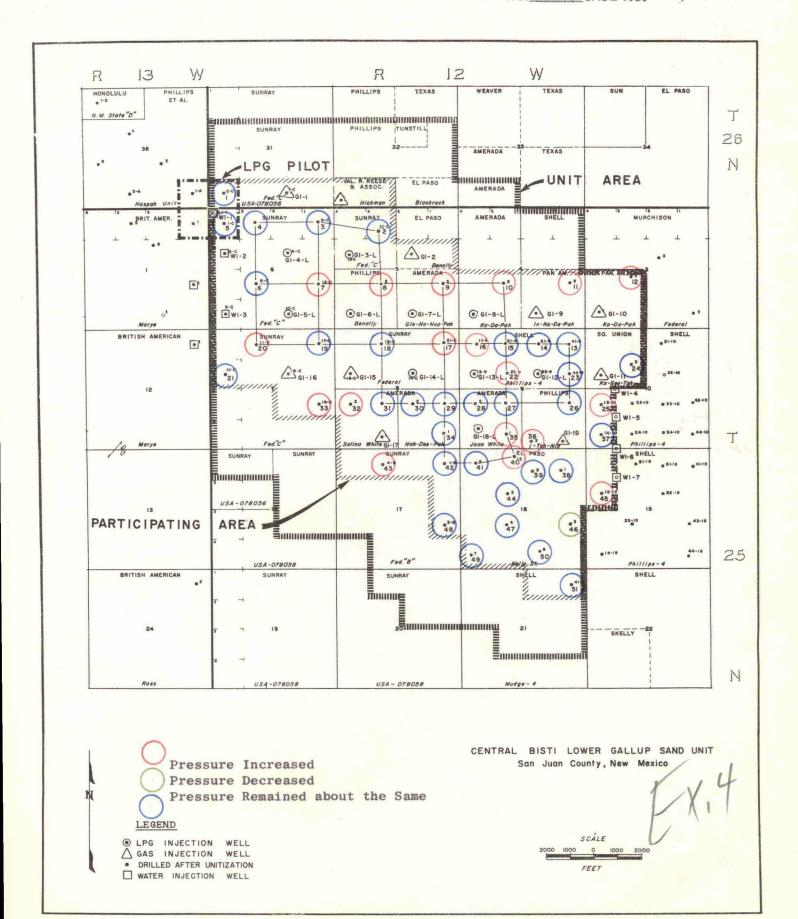
CENTRAL BISTI LOWER GALLUP SAND UNIT
San Juan County, New Mexico

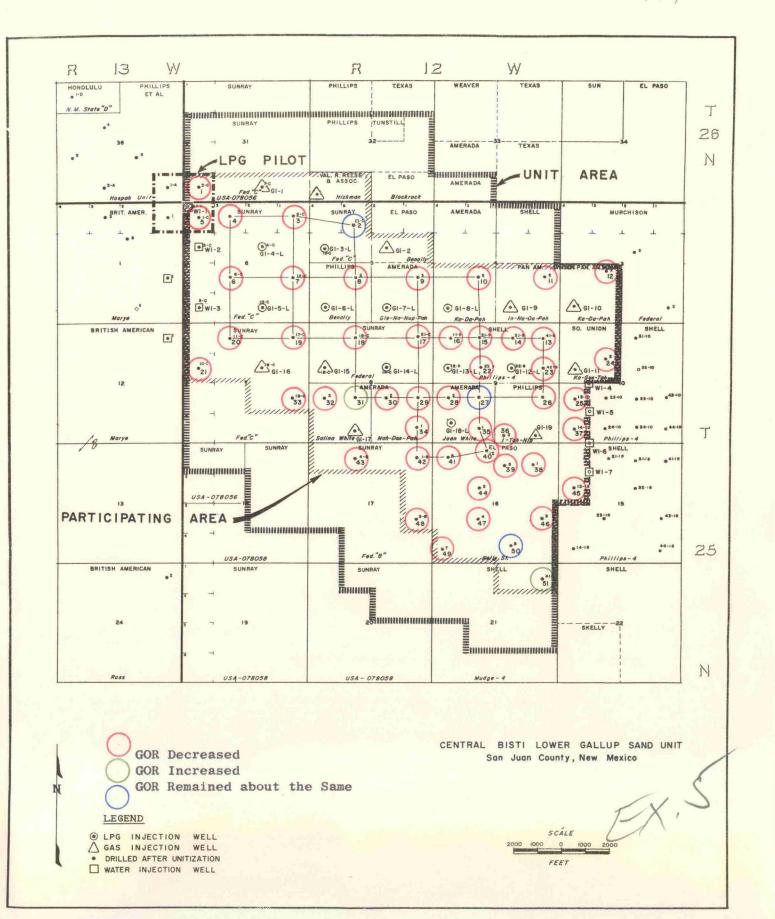


LPG INJECTION WELL
 GAS INJECTION WELL
 DRILLED AFTER UNITIZATION
 WATER INJECTION WELL









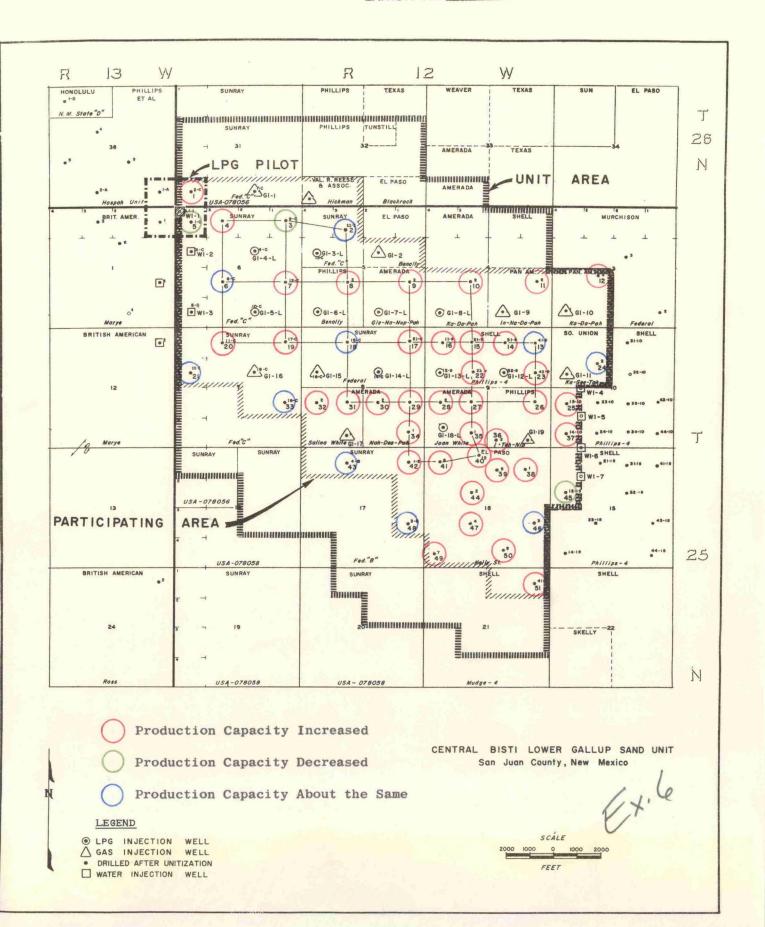


EXHIBIT NO. 7 CASE NO. 1964

WELL TESTS IN EFFECT AT TIME OF UNITIZATION
CENTRAL BISTI UNIT
BISTI POOL, SAN JUAN COUNTY, NEW MEXICO

CENTRAL BISTI UNIT WELL NUMBER	*	OIL PRODUCTION BARRELS PER DAY	CENTRAL BISTI WELL NUMBER		OIL PRODUCTION BARRELS PER DAY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	>	25 9 93 118 112 132 131 125 25 10 7 110 127 132 46 95 65 30 125(2) 40 126(3)	26 27 28 29 31 33 33 35 37 38 39 41 42 44 45 47 48 49 51		 46 122 20 22 23 46 23 * 28 12 10 15 9 8 ** 125 25 7 7 11 7
				TOTAL	2 , 389

⁽¹⁾ Includes Test for GI-13

⁽²⁾ Includes Test for GI-12

⁽³⁾ Includes Test for CBU-37* Included with Test for C Included with Test for CBU-25

⁽⁴⁾ Includes Test for CBU-44

Included with Test for CBU-40

SUNRAY MID-CONTINENT OIL COMPANY EXHIBIT NO. 8 CASE NO. 1904

DECEMBER, 1959, CAPACITY WELL TESTS

CENTRAL BISTI UNIT
BISTI POOL, SAN JUAN COUNTY, NEW MEXICO

CENTRAL BISTI UNIT WELL NUMBER	OIL PRODUCTION BARRELS PER DAY	CENTRAL BISTI UNIT WELL NUMBER	OIL PRODUCTION BARRELS PER DAY
WELL NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	23 6 32 486 101 103 442 256 98 27 10 19 50 443 120 120 407 39 60 70 24 118 409 63	WELL NUMBER 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	23 41 21 142 31 20 20 19 65 26 56 30 42 30 23 26 7 31 15 21 14 15 18 30
25 26	345 276	51	30
		TOTAL	4,943

EX.8

SUNRAY MID-CONTINUENT OF COMPANY EXHIBIT NO. 7 CASE NO. 1964

/ X0 /

CURRENT CAPACITY WELL TESTS CENTRAL BISTI UNIT BISTI POOL, SAN JUAN COUNTY, NEW MEXICO

CENTRAL BISTI UNIT	OIL PRODUCTION BARRELS PER DAY	CENTRAL BISTI UNIT WELL NUMBER	OIL PRODUCTION BARRELS PER DAY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	50 10 49 399 95 115 1,067 339 170 35 30 19 57 507 265 248 649 51 163 170 32 523 732 49 220	26 27 28 29 30 31 32 33 34 35 37 38 39 41 42 43 44 45 46 48 49 50 51	805 29 95 169 143 30 33 19 39 79 59 68 67 29 26 78 28 8 10 8 10 8 12 33
		TOTAL	7,981

Ex. 9

GROSS EXPENDITURE ANALYSIS (Not Including Operating Expense and Gas Purchase)

CENTRAL BISTI UNIT

BISTI POOL - SAN JUAN COUNTY, NEW MEXICO

BISTI POOL - SAN JUAN COUNTY,	SUNRAY MID-OCCUPANY ONE COMPANY EXHIBIT NO. 10 CASE NO. 1904
LPG AND GAS INJECTION	EXHIBIT NO. 70 CASE NO. 12
CONVERT 9 WELLS FOR LPG INJECTION	\$ 23,000
Drill and Complete 1 Well for LPG Injection	51,890
CONVERT 8 WELLS FOR GAS INJECTION	20,200
LPG SUPPLY AND INJECTION LINES	99,560
GAS SUPPLY, INJECTION LINES AND COMPRESSOR FACILITIES	332,700
PRODUCED GAS GATHERING SYSTEM	165,060
LPG PURCHASE @ \$2.10/BBL.	1,972,000
LPG INJECTION	72,200
SUB TOTAL	\$2,736,610
WATER BARRIERS	
WEST BARRIER	
CONVERT 2 WELLS, ACQUIRE AND RECOMPLETE	
GI #1 FOR W.I. LESS BRITISH AMERICAN 50%	\$ 8,700
INJECTION LINE	4,310
SUB TOTAL	\$ 13,010
EAST BARRIER	
DRILL AND COMPLETE 4 WATER INJECTION WELLS	\$ 71,050
DRILL AND COMPLETE 7 WATER SUPPLY WELL	28,700
INJECTION PLANT AND FACILITIES	42,950
SUB TOTAL	\$ 142,700
OIL GATHERING AND LEASE FACILITIES	
DRILL AND COMPLETE 5 OIL WELLS	\$ 227,470
INSTALL CONTROL LACT SYSTEM AND CRUDE OIL GATHERING SYSTE	175,000
RELOCATION OF OIL LINES	17,380
TRANSFERRING SEPARATORS AND TREATERS ON LEASE	13,160
CHROMATOGRAPH AND TEST EQUIPMENT	3,490
FIELD OFFICE, WAREHOUSE AND LAB	5,420
SUB TOTAL	\$ 441,920
TOTAL	\$3,334,240

OPERATING EXPENSE ANALYSIS FIRST SIX MONTHS 1959, SUNRAY WELLS BEFORE UNITIZATION vs. CENTRAL BISTI UNIT AREA AFTER JULY 1, 1959

BISTI POOL - SAN JUAN COUNTY, NEW MEXICO

		No. of	Operating Costs Less	Injection Expense
		Producing Oil Wells	\$/Well Month	\$/Bbl. 0il
1959	January	24	\$ 195	\$0.08
	February	24	312	0.16
	March	24	322	0.16
	April	24	26 2	0.12
	May	24	222	0.11
	June	24	397	0.11
	July	65	1,875	2.82
	August	71	1,107	2.04
	September	73	550	1.02 "
	October	78	791	1.59
	November	78	353	0.43
	December	78	561	1.19
1960	January	78	566	2.68
	February	78	1,350	1.39
	March	78	1,269	0.92

Note: January through June 1959, no gas injection expense, July 1959 through
March 1960, gas injection expense included but excluding LPG expense.

CX. 11

CALCULATED UNIT ALLOWABLE CENTRAL BISTI UNIT BISTI POOL, SAN JUAN COUNTY, NEW MEXICO

CENTRAL BISTI UNIT WELL NO.	ACRES IN PRORATION UNIT	NORMAL UNIT WELL ALLOWABLE BASED ON MARCH, APRIL & MAY WELL TESTS BARRELS OIL/DAY	CENTRAL BISTI UNIT WELL NO.	ACRES IN PRORATION UNIT	NORMAL UNIT WELL ALLOWABLE BASED ON MARCH, APRIL & MAY WELL TESTS BARRELS OIL/DAY
1 2 3 4 & 5 6 7 8 9 10 11 12 13 & 14 15 & 16 17 18 19 20 21 22 & GI-13 23 & GI-12 24	80 80 80 80 80 80 80 80 80 80 80 80 80 8	50 10 49 120 115 120 120 120 120 120 120 120 120 120 120	25 & 37 26 28 27 & 28 29 & 30 31 & 32 33 34 35 36 38 39 40 41 42 43 45 46 47 48 49 50 51	₹ 80 80 80 80 80 80 80 80 80 80 80 80 80 8	120 120 120 120 120 139 79 59 67 29 35 78 28 7 8 27 19 8 16 12 33 0TAL (2,865) will
	ZX.	#12	Transferred Injection	ell Allowable Allowable fro Wells - B/D .llowable - B/	1,484 not

operations to pass for the state of the stat

INJECTION WELL ALLOWABLE AVAILABLE TO TRANSFER

WELL NO	<u>AC</u>	ALLOW AVAIL TO TRANS
GI 1 GI 2 GI 3 GI 4 GI 5 GI 6 GI 7 GI 8 GI 9 GI 10 GI 11 GI 12 GI 12 GI 13 GI 14 GI 15 GI 16 GI 17 GI 18 GI 19 GI 20 WI 2 WI 3	80 80 80 80 80 80 80 80 80 80 40 80 80 80 80 80 80 80 80 80 80 80 80 80	33 24 55 120 120 120 100 47 120 77 60 60 113 110 18 16 28 23 0
J	55	<u>120</u> 1,604

3. A letter stating that all offset operators to the project area have been furnished a complete copy of the application and the date of the notification.

The Secretary-Director may approve the proposed injection well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant immediate approval provided waivers of objection are received from all offset operators.

Rule 6. Each well shall be subject to the limiting gas-oil ratio (2,000 to 1) for the Bisti-Lower Gallup Oil Pool, except that any well or wells within the project area producing with a gas-oil ratio in excess of 2,000 cubic feet of gas per barrel of oil may be produced on a "net" gas-oil ratio basis, which net gas-oil ratio shall be determined by applying credit for daily average gas injected into the Bisti-Lower Gallup Oil Pool within the project area to such high gas-oil ratio well. The daily adjusted oil allowable for any such well receiving gas injection credit shall be determined in accordance with the following formula:

Aadj =
$$\frac{P_g - l_g}{P_o}$$

Where:

Aad; = the well's daily adjusted allowable

TUA = top unit allowable for pool

Fa = the well's acreage factor

Pg = average daily volume of gas produced by the well during the preceding month, cubic feet.

the well's allocated share of the daily average gas injected during the preceding month, cubic feet.

P_o = average daily volume of oil produced by the well during the preceding month, barrels.

In no event shall the amount of injected gas being credited to a well be such as to cause the net gas-oil ratio, P_g - l_g to be less than 2,000 cubic feet of gas per barrel of oil produced. P_O

Rule 7. Credit for daily average net water injected into the Bisti-Lower Gallup Oil Pool through any injection well located within the project area may be converted to its gas equivalent and applied to any well producing with a gas-oil ratio in excess of two thousand cubic feet of gas per barrel of oil. Total credit for net water injected in the project area shall be the gas equivalent volume of the daily average net water injected during a one-month period. The daily average gas equivalent of net water injected shall be computed in accordance with the following formula:

$$E_g = (V_{w inj} - V_{w prod}) \times 5.61 \times \frac{P_a}{15.025} \times \frac{520^{\circ}}{T} \times \frac{1}{Z}$$

EXHIBIT NO. 13 CASE NO. 1904

SPECIAL RULES AND REGULATIONS EXHIBIT FOR SUNRAY MID-CONTINENT OIL COMPANY'S CENTRAL BISTI LPG-GAS-WATER INJECTION PROJECT

IT IS THEREFORE ORDERED THAT the special rules and regulations governing the operation of Sunray Mid-Continent Oil Company's Central Bisti LPG-Gas-Water Injection Project as set forth in R-1414 dated June 5, 1959, are amended as follows:

Rule 1. The project area of the Sunray Mid-Continent Oil Company Central Bisti LPG-Gas-Water Injection Project shall comprise that area described as follows:

TOWNSHIP 25 NORTH, RANGE 12 WEST, NMPM

Section 3	SW/4
Sections 4, 5, and 6	All
Sections 7, 8, and 9	All
Section 10	NW/4, $W/2$ $SW/4$
Section 15	W/2 NW/4
Section 16	All
Section 17	N/2, $SE/4$, $N/2$ $SW/4$, and $SE/4$ $SW/4$
Section 18	NE/4, $N/2$ $NW/4$, and $N/2$ $SE/4$
Section 20	NE/4 and $NE/4$ $NW/4$
Section 21	N/2, $N/2$ SE/4, and NE/4 SW/4

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM

Section	31	S/2 N/2	and	S/2
Section		s/2, s/2		
Section	33	S/2 SW/4		

- Rule 2. The allowable for the project shall be the sum of the allowables of the several wells within the project area including those wells which are shut-in or are used as injection wells. The allowable assigned to the wells in the project area shall be the current normal unit allowable for NW New Mexico with 80-acre proration units being assigned an 80-acre proportional factor of two.
- Rule 3. Allowables for injection wells may be transferred to producing wells within the project area, as may the allowables for producing wells which, in the interest of more efficient operation of the Project, are shut-in or curtailed because of high gas-oil ratio or shut-in for pressure regulation, control of pattern or sweep efficiencies, to observe changes in pressures or changes in characteristics of reservoir liquids, or progress of sweep.
- Rule 4. The project allowable may be produced from any well or wells in the project area in any proportion.
- Rule 5. Conversion of producing wells to injection or the drilling of additional wells for injection shall be done only after approval of same by the Secretary-Director of the Commission. To obtain such approval, the Project Operator shall file proper application with the Commission which application shall include the following:
 - 1. A plat showing location of proposed injection well, all wells within the project area and offset operators, locating their off-setting wells to the project area.
 - 2. A schematic drawing of the proposed injection well which fully describes the casing, tubing, perforated interval, and depths and showing that injection of LPG-gas-water will be confined into the Bisti-Lower Gallup formation.

where:

E = Average daily gas equivalent of net water injected, cubic feet

V. inj = Average daily volume of water injected, barrels

Vw prod = Average daily volume of water produced, barrels

5.61 = Cubic foot equivalent of one barrel of water

Pa = Average reservoir pressure at mid-point of upper pay-zone of Bisti-Lower Gallup Oil Pool in project area, psig / 11.5, as determined from most recent survey

15.025 = Pressure base, psi

520° = Temperature base of 60°F expressed as absolute temperature

 T_s = Reservoir temperature of 145°F expressed as absolute temperature

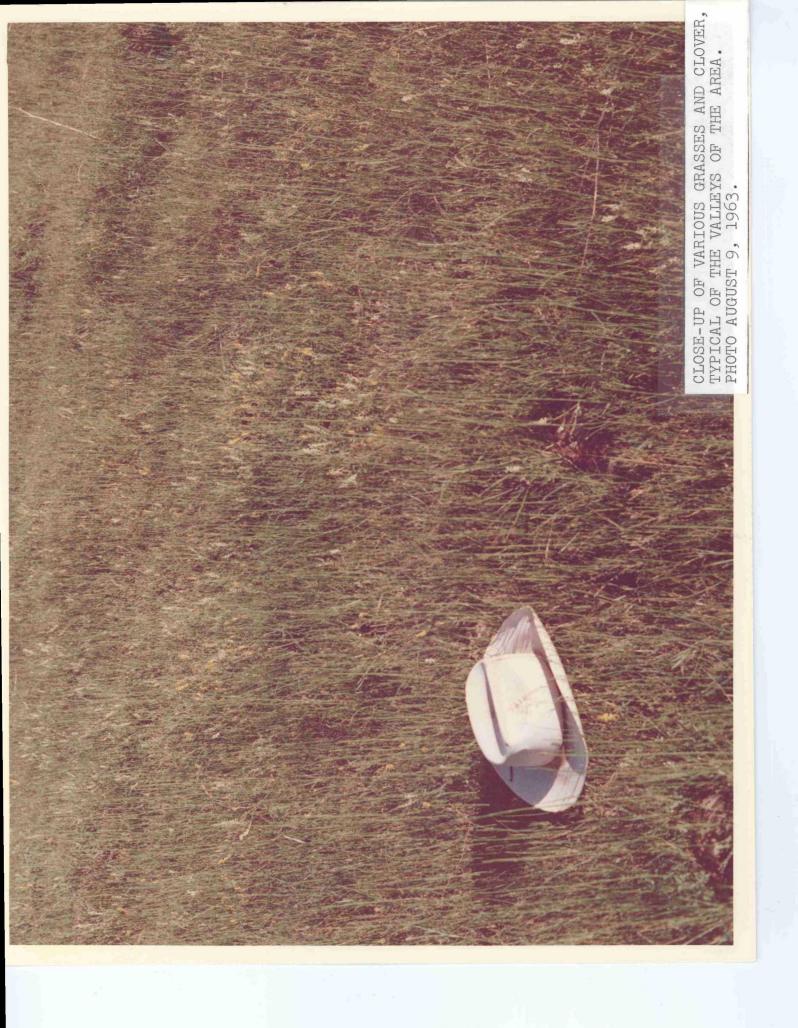
Z = Compressibility factor from analysis of Bisti-Lower Gallup gas at average reservoir pressure, P_a, interpolated from compressibility tabulation below:

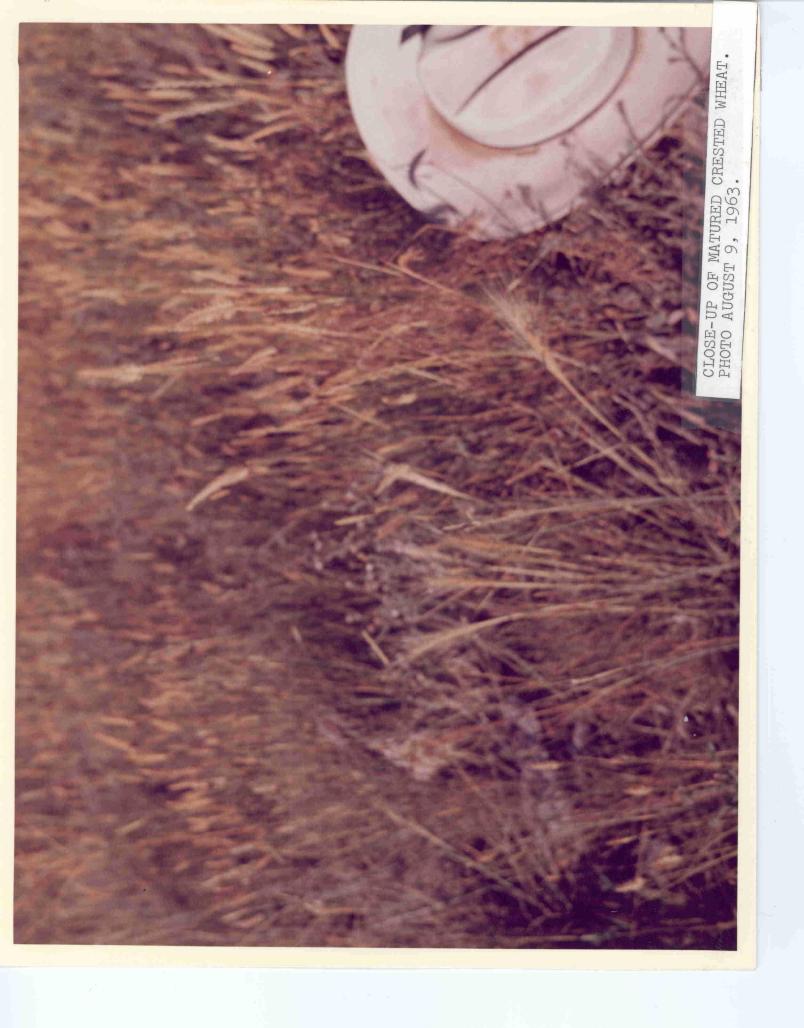
Reservoir Pressure	Z	Reservoir Pressure	Z
50	•9950	800	.9000
100	.9900	850	.8938
150	.9825	900	.8875
200	•9775	950	.8825
250	•9725	1000	.8775
300	.9625	1050	.8713
350	.9563	1100	.8663
400	.9500	1150	.8600
450	.9425	1200	.8550
500	.9363	1250	.8500
550	•9300	1300	.8450
600	.9238	1350	.8400
650	.9175	1400	.8360
700	.9115	1450	.8325
750	•9050	2.70	•0527

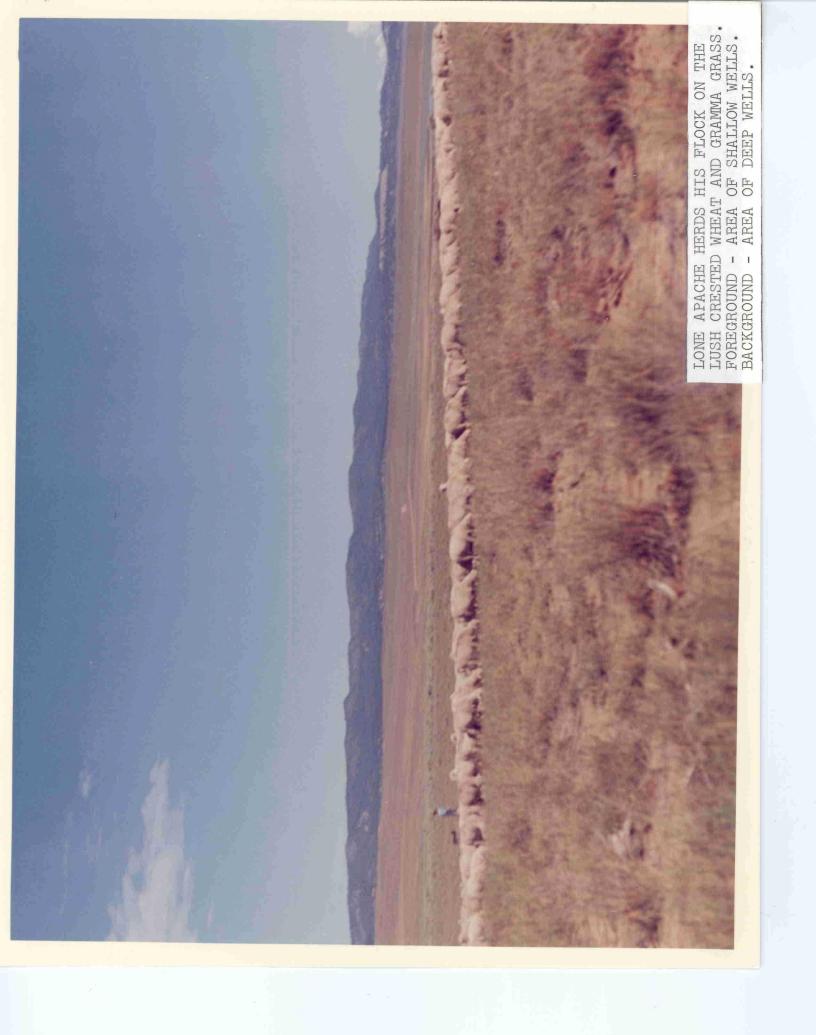
Rule 8. Each month the Project Operator shall within three days after the normal unit allowable for NW New Mexico has been established, submit to the Commission a Project Operator's report on a form prescribed by the Commission outlining thereon the data required and requesting the allowable for the project.

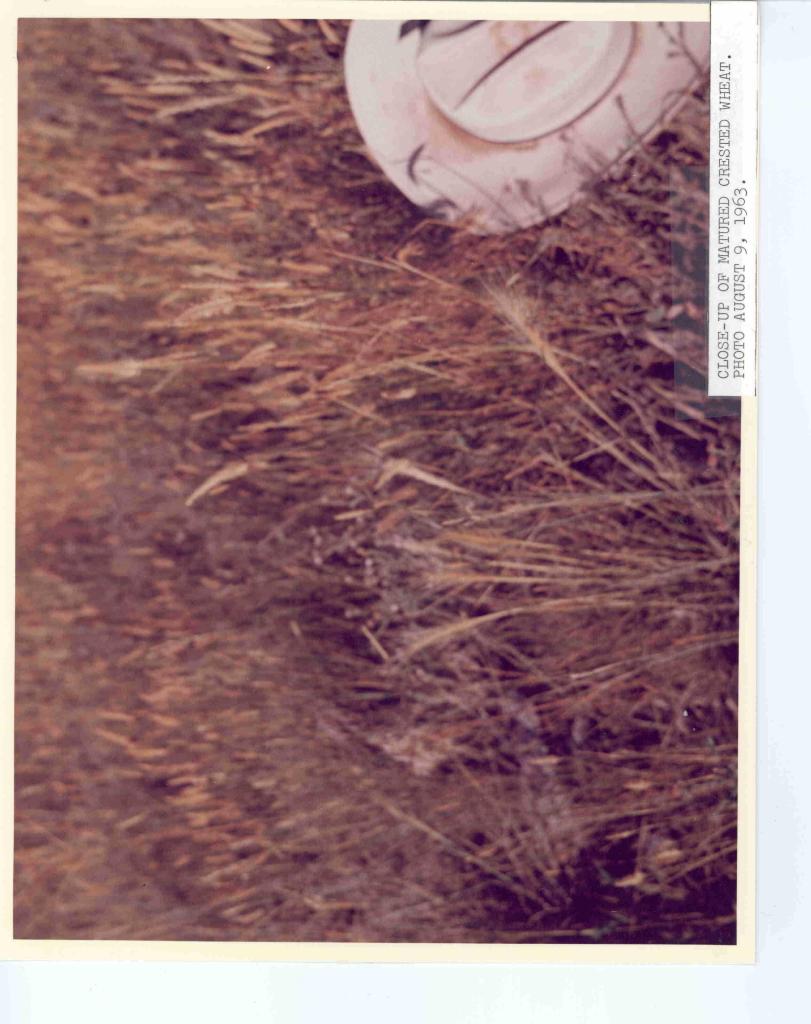
Rule 9. The Commission shall upon the review of the report and after any adjustments deemed necessary assign an allowable to the project for the next succeeding month in accordance with these rules.

Rule 10. The Special Rules and Regulations for the operation of the subject Project shall prevail against the Statewide Rules and also against the Special Rules and Regulations for the Bisti-Lower Gallup Oil Pool, if in conflict therewith.

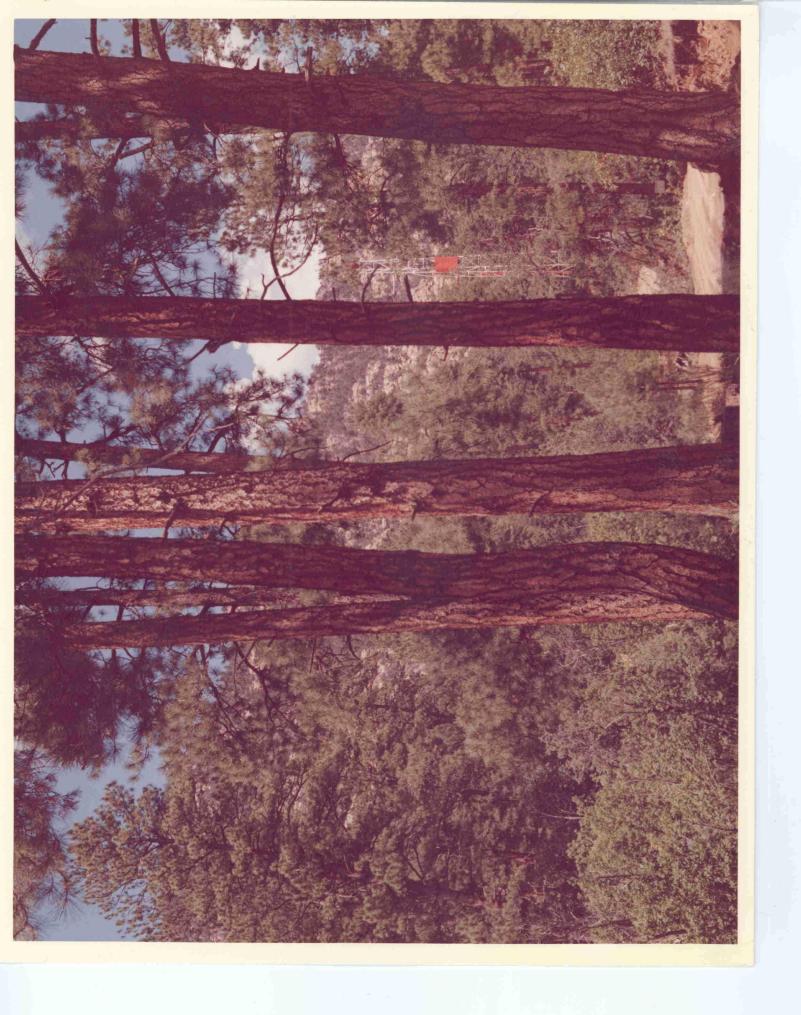




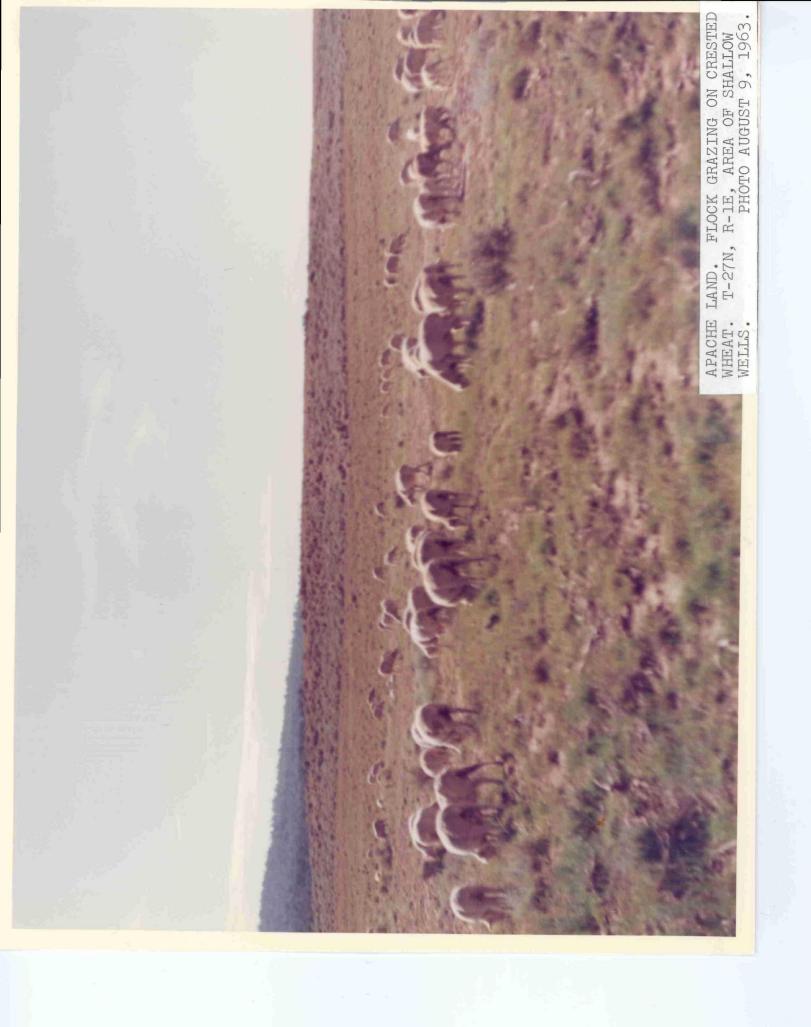


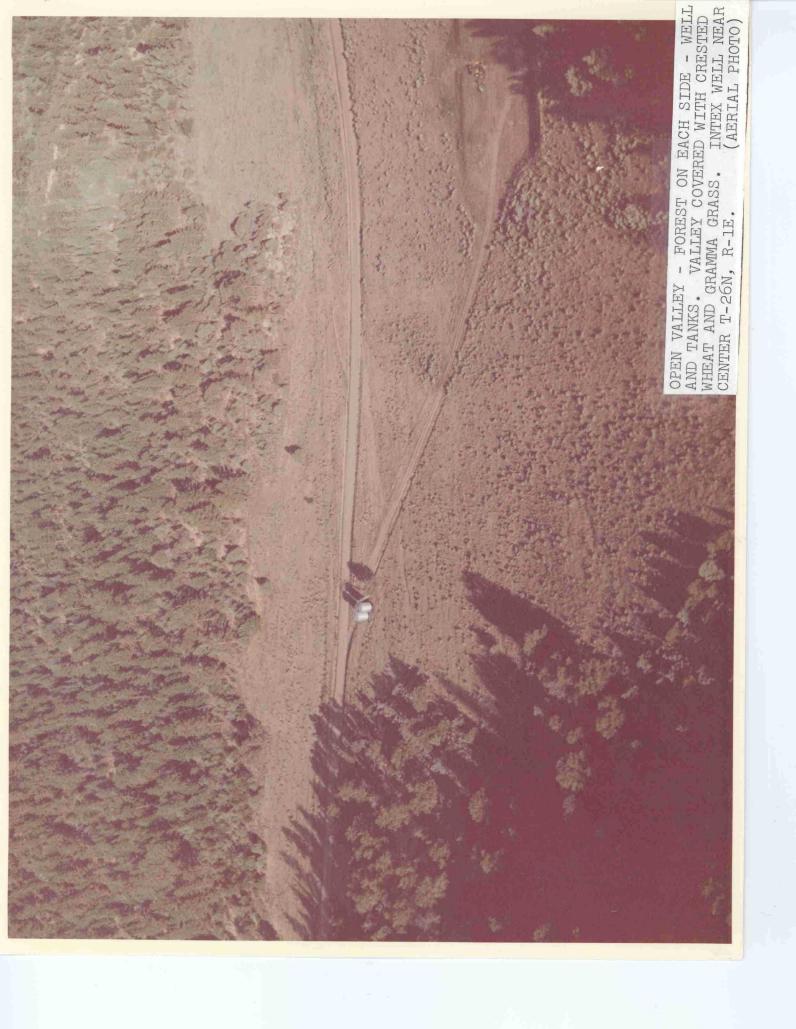










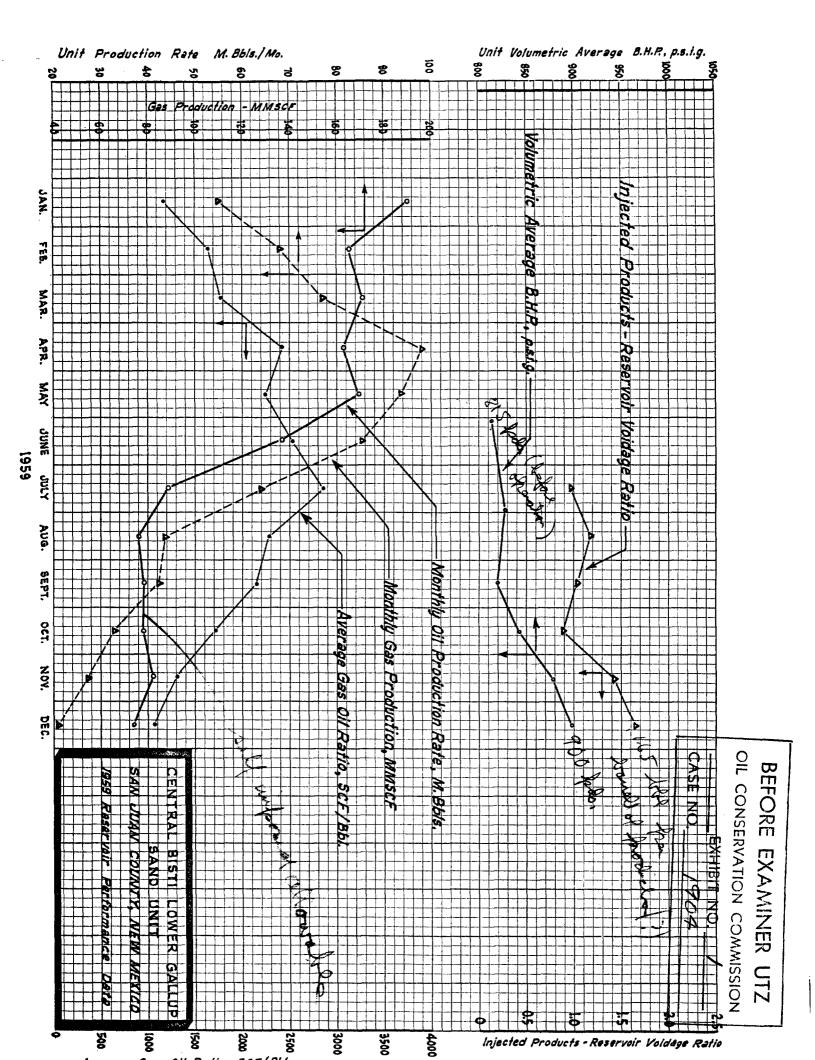












BEFORE EXAMINER UTZ

SPECIAL RULES AND REGULATIONS CONSERVATION COMMISSION FOR SUNRAY MID-CONTINENT OIL COMPANY'S CENTRAL BISTI LPG-GAS-WATER INJECTION PROJECTION PROJECTION OF A SUNRAY MID-CONTINENT OIL COMPANY'S CONSERVATION COMMISSION CENTRAL BISTI LPG-GAS-WATER INJECTION PROJECTION PROJECTIO

CASE	NO	1904
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Sections 7, 8, and 9	All
Section 10	NW/4, W/2 SW/4
Section 15	W/2 NW/4
Section 16	All
Section 17	N/2, SE/4, $N/2$ SW/4, and SE/4 SW/4
Section 18	NE/4, $N/2$ $NW/4$, and $N/2$ $SE/4$
Section 20	NE/4 and $NE/4$ $NW/4$
Section 21	N/2, $N/2$ SE/4, and $NE/4$ SW/4

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM

Section		S/2 N/2, and $S/2$
Section	32	s/2, $s/2 N/2$
Section		S/2 SW/4

- Rule 2. The allowable for the project shall be the sum of the allowables of the several wells within the project area including those wells which are shut-in or are used as injection wells. The allowable assigned to the wells in the project area shall be the current normal unit allowable for NW New Mexico with 80-acre proration units being assigned an 80-acre proportional factor of two.
- Rule 3. Allowables for injection wells may be transferred to producing wells within the project area, as may the allowables for producing wells which, in the interest of more efficient operation of the Project, are shut-in or curtailed because of high gas-oil ratio or shut-in for pressure regulation, control of pattern or sweep efficiencies, to observe changes in pressures or changes in characteristics of reservoir liquids, or progress of sweep.
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 - 2. A schematic drawing of the proposed injection well which fully describes the casing, tubing, perforated interval, and depths and showing that injection of LPG-gas-water will be confined into the Bisti-Lower Gallup formation.

3. A letter stating that all offset operators to the project area have been furnished a complete copy of the application and the date of the notification.

The Secretary-Director may approve the proposed injection well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant immediate approval provided waivers of objection are received from all offset operators.

Rule 6. Each well shall be subject to the limiting gas-oil ratio (2,000 to 1) for the Bisti-Lower Gallup Oil Pool, except that any well or wells within the project area producing with a gas-oil ratio in excess of 2,000 cubic feet of gas per barrel of oil may be produced on a "net" gas-oil ratio basis, which net gas-oil ratio shall be determined by applying credit for daily average gas injected into the Bisti-Lower Gallup Oil Pool within the project area to such high gas-oil ratio well. The daily adjusted oil allowable for any such well receiving gas injection credit shall be determined in accordance with the following formula:

Where:

Aadj = the well's daily adjusted allowable

TUA = top unit allowable for pool

F_a = the well's acreage factor

Pg * average daily volume of gas produced by the well during the preceding month, cubic feet.

the well's allocated share of the daily average gas injected during the preceding month, cubic feet.

Po = average daily volume of oil produced by the well during the preceding month, barrels.

In no event shall the amount of injected gas being credited to a well be such as to cause the net gas-oil ratio, P_g - l_g to be less than 2,000 cubic feet of gas per barrel of oil produced.

Rule 7. Each month the Project Operator shall within three days after the normal unit allowable for NW New Mexico has been established, submit to the Commission a Project Operator's report on a form prescribed by the Commission outlining thereon the data required and requesting the allowable for the project.

Rule 8. The Commission shall upon the review of the report and after any adjustments deemed necessary assign an allowable to the project for the next succeeding month in accordance with these rules.

Rule 9. The Special Rules and Regulations for the operation of the subject Project shall prevail against the Statewide Rules and also against the Special Rules and Regulations for the Bisti-Lower Gallup Oil Pool, if in conflict therewith.

SUNRAY MID-CONTHIENT OUL COMPANY

March 7, 1960

Mr. Elvis Utz New Mexico Oil Conservation Commission Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Enclosed are the Central Bisti Unit bottom hole pressure datum depths that you requested from Mr. T. W. Brinkley.

Yours truly,

SUNRAY MID-CONTINENT OIL COMPANY

T. R. Laverty

TRL:jl

Enc.



Well No.	Datum Elev. Depth	Datum Sea <u>Level</u>
12345678901123456789012234567890333333333333333333333333333333333333	4848 4800 4826 4833 4846 4833 4846 4832 4862 4805 4789 4763 4802 4837 4786 4776 4776 4776 4776 4776 4777 4777	+1323 +1354 +1353 +1359 +1377 +1378 +1377 +1378 +1377 +1382 +1377 +1382 +1373 +1415 +1415 +1415 +1415 +1415 +1415 +1415 +1415 +1415 +1415 +1416
WI 1 WI 2 WI 3 WI 4	4838 4832 4846 4756	+1352 +1367 +1395 +1444

+15 95 +1533 +262

Well No. Wi 5 Wi 6 Wi 7	Datum Elev• Depth 4754 4770 4763	Datum Sea <u>Level</u> +11,58 +11,68 +1499
GI 1 GI 2 GI 3 GI 4 GI 5 GI 6 GI 7 GI 8 GI 9 GI 10 GI 11 GI 12 GI 13 GI 14 GI 15 GI 16 GI 17 GI 18 GI 19	4835 4800 4813 4831 4724 4816 4792 4773 4788 4813 4791 4761 4766 4779 4811 4849 4784	+1328 +1366 +1355 +1359 +1396 +1397 +1398 +1397 +1386 +1427 +1430 +1432 +1432 +1422 +1430 +1432 +1430 +1432 +1470 +1470

SUNRAY MID-CONTHNENT OUL COMPANY

P. O. BOX 2039

TULISM Z., OKUMHOMM

March 4, 1960

Mr. Elvis Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

> Re: Central Bisti Unit, New Mexico

Dear Elvis:

Consistent with your telephone request today, I am attaching appropriate factors (Z), representing deviation from ideal gas for solution and injected gases in the captioned unit. The injected gas deviation factors are representative for El Paso Transmission Gas which supplies the injected gas for unit operations.

The datum elevations for the wells in the Central Bisti Unit have been requested forwarded to you from our Farmington, New Mexico office.

Yours very truly,

Thos. W. Brinkley

Chief Reservoir Engineer

TWB/gs Attach.



0.8450 0.8400

0.8360

0.8325~

DEVIATION FROM IDEAL GAS

CENTRAL BISTI UNIT, NEW MEXICO LOWER GALLUP OIL RESERVOIR

1,00 kg.

	,75	Z
Pressure Psia	Injected Gas	Solution Gas
50	0.9950	0.9950
100	0.9900	0.9900
150	0.9850	0.9825
200	0.9787	0.9775 ∕
250	0.9 72 5	0.9700 ∕
300	0.9675	0.9625
350	0.9619	0.9563
400	0.9556	0.9500
450	0.9500	0.9425
500	0.9450	0.9363
550	0.9388	0.9300
600	0.9331	0.9238
650	0.9275	0.9175
700	0.9225	0.9115
750	0.9163	0.9050
800	0.9113	0.9000
850	0.9050	0.8938
900	0.9000	0.8875
950	0.8950	0.8825
1000	0.8900	0.8775
1050	0.8850	0.8713
1100	0.8800	0.8663
1150	0.8775	0.8600
1200	0.87 2 5	0.8550
1250	0.8688	0.8500

0.8650 0.8610

0.8570

0.8535 0.8495

1300 1350

1400

1450 1500