

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



GARREY CARRUTHERS
GOVERNOR

March 17, 1987

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Gulf Oil Corporation
c/o Chevron U.S.A. Inc.
P.O. Box 7309
San Francisco, California 94120-7309

Attention: Albert G. Garcia
Regulatory Assistant - NGPA

Re: Administrative Order NFL-158

Dear Mr. Garcia:

Reference is made to your application for an Infill Well Finding and Well-Spacing Waiver made pursuant to Section 271.305(b) of the Federal Energy Regulatory Commission regulations, Natural Gas Policy Act of 1978, and Oil Conservation Division Order No. R-6013 for the following described well:

B.V. Culp (NCT-A) Well No. 9 located 2040 feet from the South line and 1980 feet from the East line (Unit J) of Section 19, Township 19 South, Range 37 East, NMPM, Lea County, New Mexico.

THE DIVISION FINDS THAT:

(1) Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waiver of existing well-spacing requirements.

(2) By Division Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) The well for which a finding is sought is to be completed in the Eumont Gas Pool, and the standard spacing unit in said pool is 640 acres.

(4) A 477-acre, more or less, non-standard gas proration unit comprising the N/2 and SE/4 of Section 19, Township 19 South, Range 37 East, is currently dedicated to the B.V. Culp (NCT-A) Well No. 3 located in Unit F of said Section 19.

(5) Said nonstandard unit was previously approved by Division Order No. R-1487, dated September 14, 1959.

(6) Said unit is not being effectively and efficiently drained by the existing well on the unit.

(7) The drilling and completion of the well for which a finding is sought should result in the production of an additional 582,000 MCF of gas from the proration unit which would not otherwise be recovered.

(8) All the requirements of Division Order No. R-6013 have been complied with, and the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

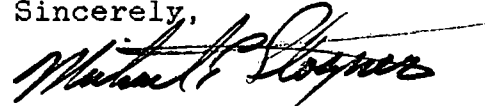
(9) In order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well spacing requirements for the pool.

IT IS THEREFORE ORDERED THAT:

(1) The applicant is hereby authorized to drill the B.V. Culp (NCT-A) Well No. 9, as described above, as an infill well on the existing 477-acre, more or less, non-standard gas proration unit (Division Order No. R-1487) comprising the N/2 and SE/4 of Section 19, Township 19 South, Range 37 East, NMPM, Eumont Gas Pool, Lea County, New Mexico. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

A handwritten signature in dark ink, appearing to read "Michael E. Stogner". The signature is fluid and cursive, with a long horizontal stroke extending from the end.

Michael E. Stogner
Examiner

xc: N.M.O.C.D.- Hobbs



Chevron U.S.A. Inc.
575 Market Street, San Francisco, California
Mail Address: P.O. Box 7309, San Francisco, CA 94120-7309

NFLE 18

April 28, 1986

**Supplemental Information for
Determination of Well Category
NGPA Section 103
Field Name: Eumont Gas
Well Name: B. V. Culp (NCT-A) No. 9
API No.: 30-025-26663
Chevron U.S.A. Inc. "SG-2015R" Key: 61**

Department of Energy and Minerals
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Gentlemen:

As you requested, attached are the following information for this well:

1. This well will recover 0.582 BCF additional Eumont gas reserves. Attached is the decline curve used for this decision.
2. Letter and list of offset operators that were submitted in the original filing.

Please contact me at (415) 894-5726 if you have any questions regarding this.

To let us know you received this, please date-stamp the attached copy of this letter and return it in the enclosed postage-paid envelope.

Sincerely,

Albert G. Garcia
Regulatory Assistant - NGPA

AGG:jbf
Attachments

cc: Mr. G. D. Greenwood, Houston

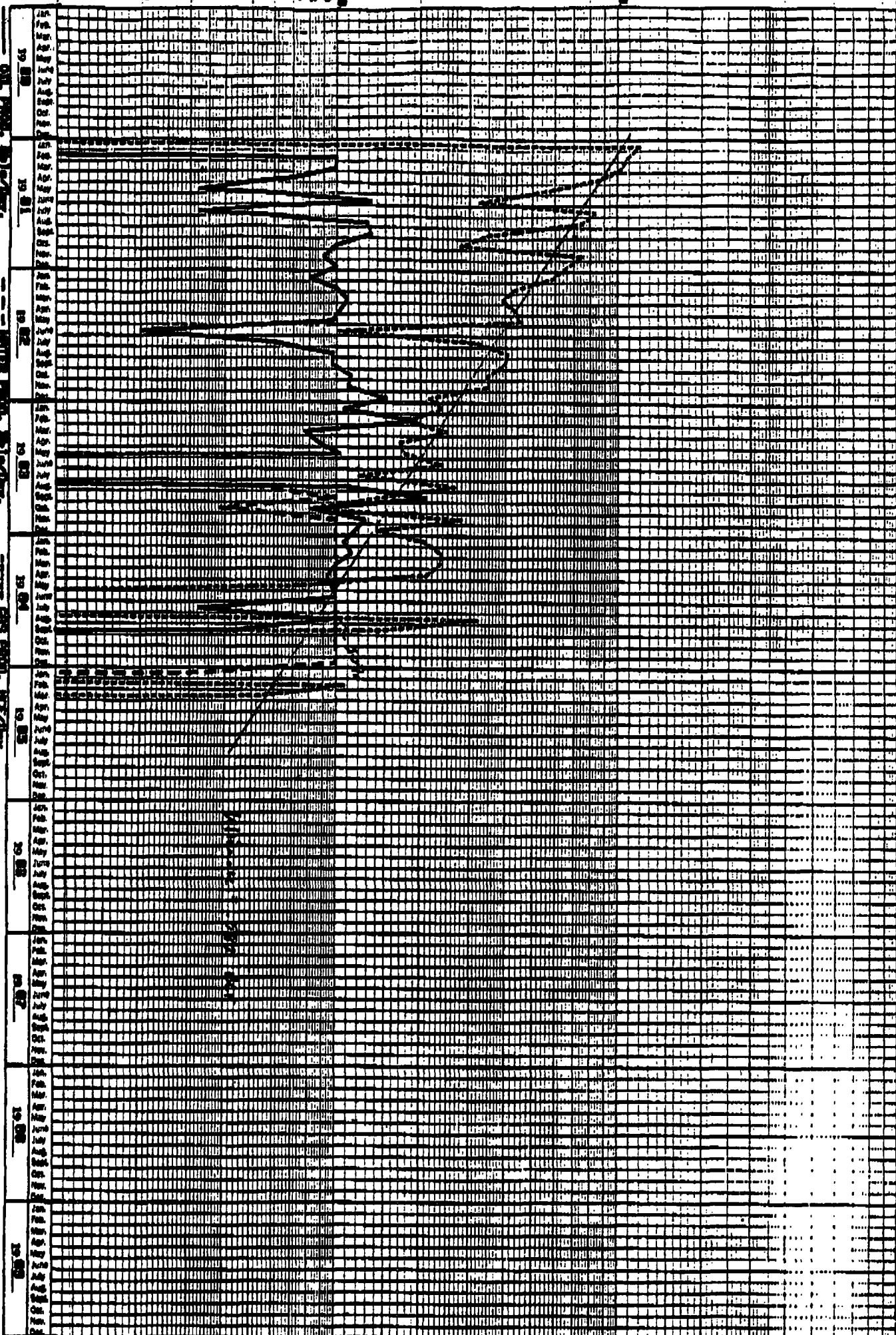
ELUMUNI GHS

B. V. CULP (NCT-R) NO. 9 CUSA

ON PLOT. 10/1/79.
Note. Scale X .1

ON PLOT. 10/1/79.
Note. Scale X .1

ON PLOT. 10/1/79.
Note. Scale X .1



Gulf Oil Exploration and Production Company**R. C. Anderson**
PRODUCTION MANAGER, HOBBS AREA

August 14, 1980

P. O. Box 670
Hobbs, NM 88240

Mr. Joe D. Ramey
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Sir:

Gulf Oil Corporation requests your administrative approval for an amendment to Order No. 1487 for a 477 acre non-standard proration unit in the Eumont Gas pool, consisting of the N $\frac{1}{2}$ and SE $\frac{1}{4}$ of Section 19-T19S-R37E, Lea County, New Mexico. The proration unit is to be simultaneously dedicated to our B. V. Culp (NCT-A) #9, located 2040' FSL and 1980' FEL, Section 19-T19S-R37E, and the B. V. Culp (NCT-A) #3, located 1980' FNL and 1980' FWL, Section 19-T19S-R37E, which has previously been dedicated to the aforementioned 477 acre non-standard proration unit.

In support of this application the following facts are submitted:

- (1) There are no other wells producing from the Eumont Gas pool in this non-standard proration unit.
- (2) The attached plat shows the 477 acre unit and the two wells.
- (3) All offset operators have been furnished copies of this application by certified mail.

Your early consideration will be appreciated.

Yours very truly,

R. C. Anderson
R. C. ANDERSON

TSW/jr.

Attachment

cc: Offset Operators (attached)
Oil Conservation Commission - Hobbs
J. M. Thacker - Midland



A DIVISION OF GULF OIL CORPORATION

Texaco, Inc.
P. O. Box 728
Hobbs, NM 88240

Amerada Hess Corp.
P. O. Box 2040
Tulsa, Oklahoma 74102

Shell Oil Co.
P. O. Box 991
Houston, Texas 77001

Continental Oil Company
P. O. Box 2197
Greenway Plaza
Houston, TX 77001

Phillips Petroleum Co.
Frank Phillips Bldg.
Bartlesville, OK 74003

Gatty Oil Co.
P. O. Box 1404
Houston, TX 77001

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Oil Conservation Commission - Hobbs
J. M. Thacker - Midland



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Offset Operators - B. V. Culp (NCT-A) #9

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P. O. Box 728
Hobbs, NM 88240

Amerada Hess Corp.
P. O. Box 2040
Tulsa, Oklahoma 74102

Shell Oil Co.
P. O. Box 991
Houston, Texas 77001

Continental Oil Company
P. O. Box 2197
Greenway Plaza
Houston, TX 77001

Phillips Petroleum Co.
Frank Phillips Bldg.
Bartlesville, OK 74003

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P. O. Box 728
Hobbs, NM 88240

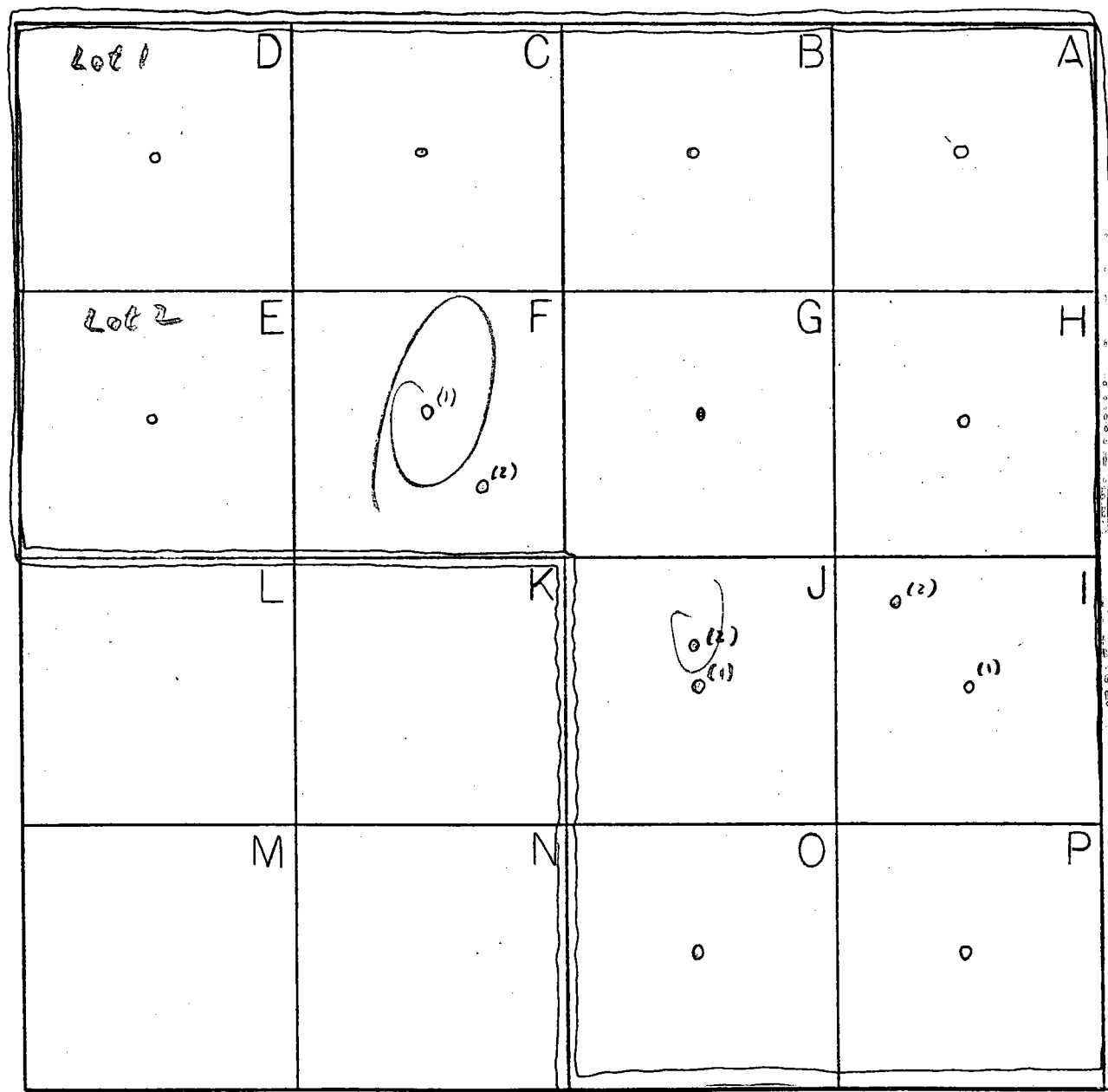
Amerada Hess Corp.
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Tulsa, Oklahoma 74102

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Continental Oil Company
P. O. Box 2197
Greenway Plaza
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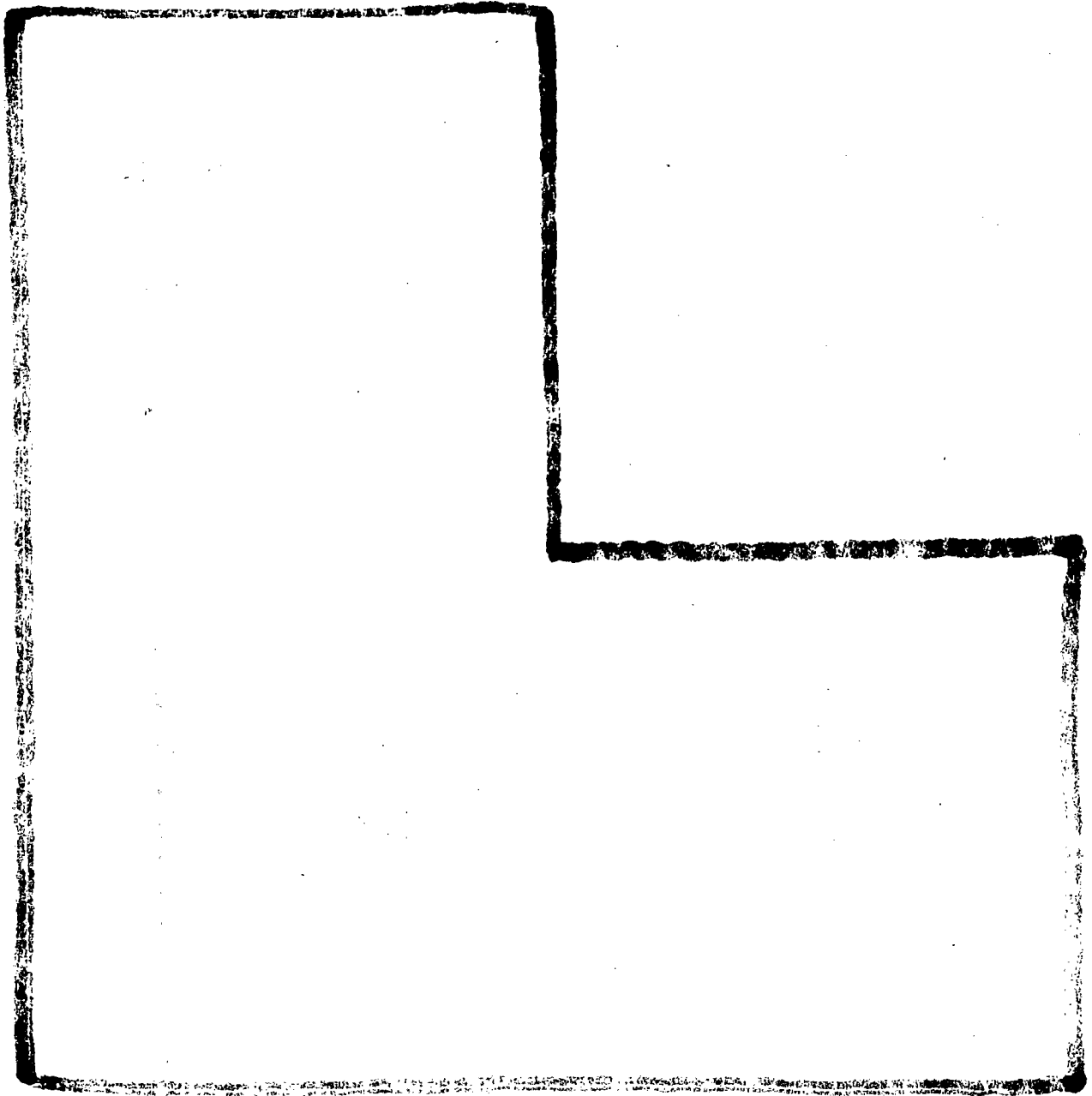
Getty Oil Co.
P. O. Box 1404
Houston, TX 77001



SECTION 19

TOWNSHIP 19 SOUTH

RANGE 37 EAST



UNIT A

Chevron U.S.A. Inc.
B.V. Corp. (UNIT-A) Well No. 7
660' F.N.T. EL
Spud: 4-12-36
Event: Movement Completion

UNIT B

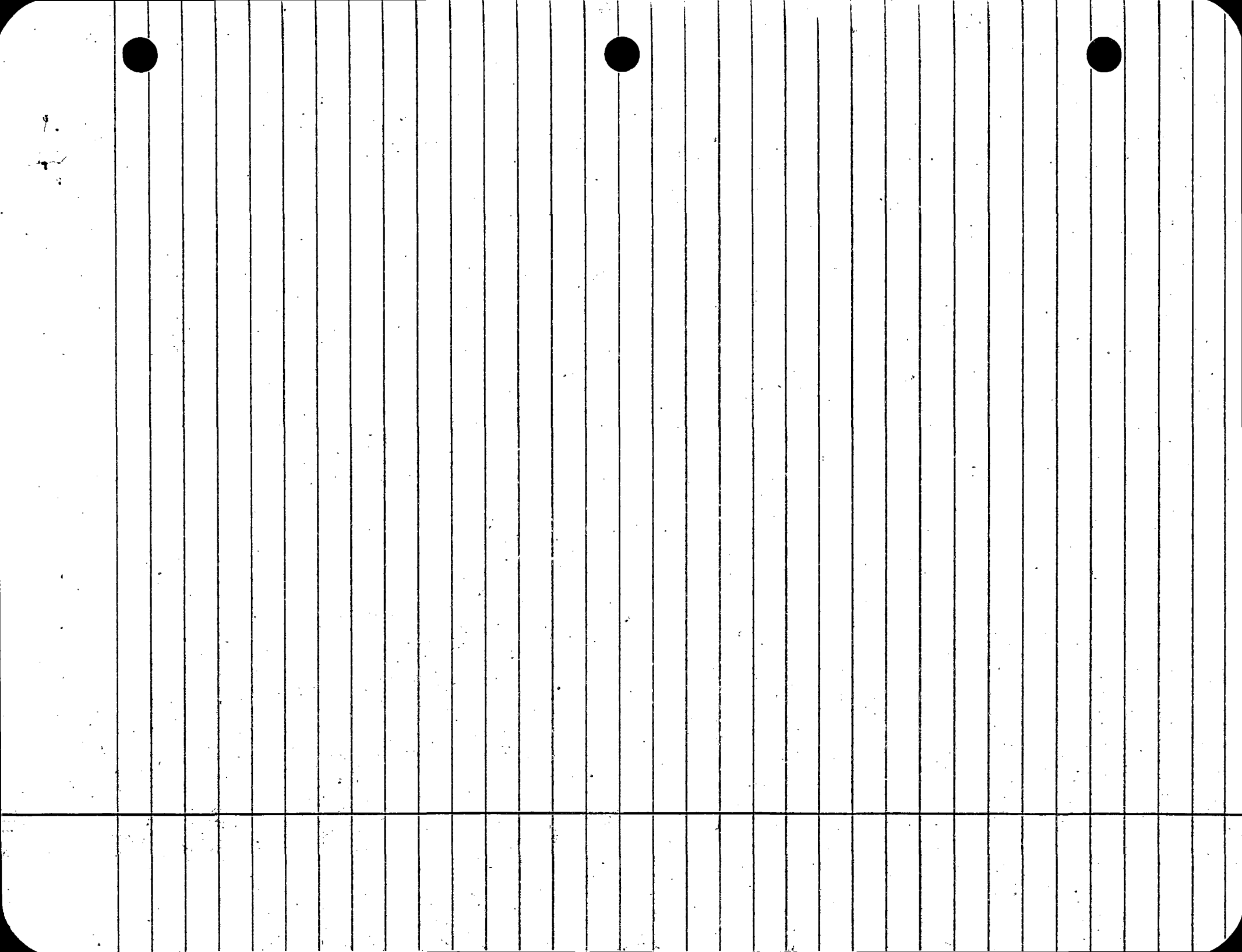
Chevron U.S.A. Inc.
B.V. Corp. (UNIT-A) Well No. 6
660' F.N.T. - 1980' F.E.L
Spud: 4-3-36
Event: Movement Completion

UNIT C

Chevron U.S.A. Inc.
B.V. Corp. (UNIT-A) Well No. 1
660' F.N.T. - 1980' F.E.L
Spud: 8-19-35
Event: Movement Completion

UNIT D

Phillips Petroleum Company
Corp. Well No. 1
660' F.N.T. EL
Spud: 8-22-35
Event: Movement Completion



UNIT E

Chevron U.S.A. Inc.

B.V. Culp (NIT-A) Well No. 2

1980' FNL - 660' FNL

Spud: 10-7-35

Eunice Measurement Completion

UNIT F

(1) Chevron U.S.A. Inc.

B.V. Culp (NIT-A) Comp Well No. 3

1980' FNL WL

Spud: 1-6-36

Dually Completed Eunice Gas / Eunice Measurement

Cumulative Eunice Production as of 12/31/85:

Gas - 9265773 MCF

Oil - 0 Oil

(2) Chevron U.S.A. Inc.

B.V. Culp (NIT-A) Well No. 8

2310' FNL - 2239' FNL

Spud: 10-28-59

Dry Hole in Eunice Zone

No Production Shown

Converted to a water supply well Dec. 1964

Unit G

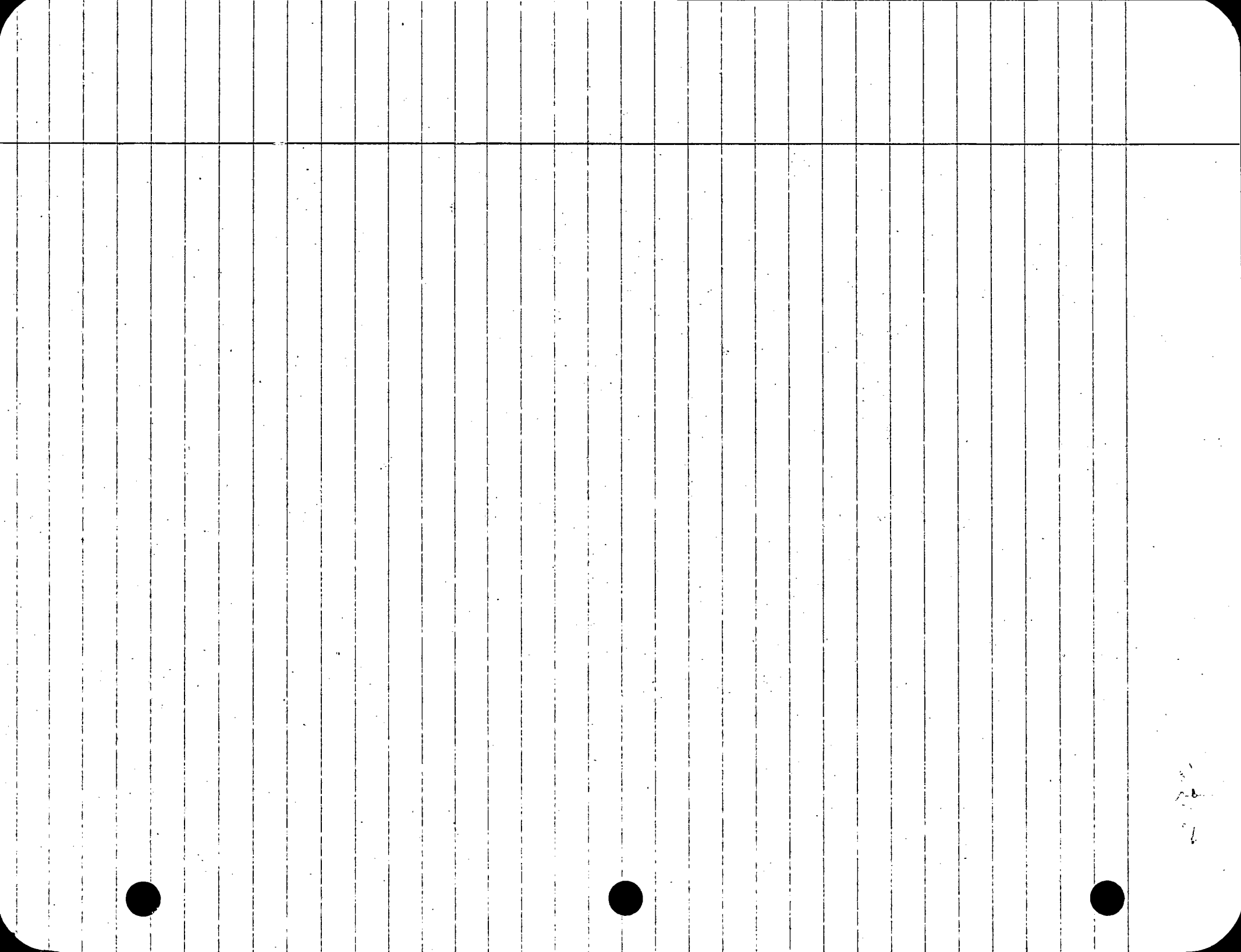
Chevron U.S.A. Inc.

B.V. Culp (NIT-A) Well No. 4

1980' FNL EL

Spud: 2-21-36

Eunice Measurement Completion



UNIT H

Chesapeake S.R. Int.

B.V. Culp (LWT-R) Well No. 5

1980' FSL - 660' FET

Spud: 3-1-36

Event Measurement Completion

UNIT I

(1) Shell Western E & P, Inc.

State "D" Well No. 2

1980' FSL - 660' FET

Spud: 3-25-36

Event Measurement Completion

(2) Shell Western E & P, Inc.

State "D" Well No. 3

2307' FSL - 990' FET

Spud: 9-19-79

Event Measurement Completion

UNIT J

(1) Shell Western E & P, Inc.

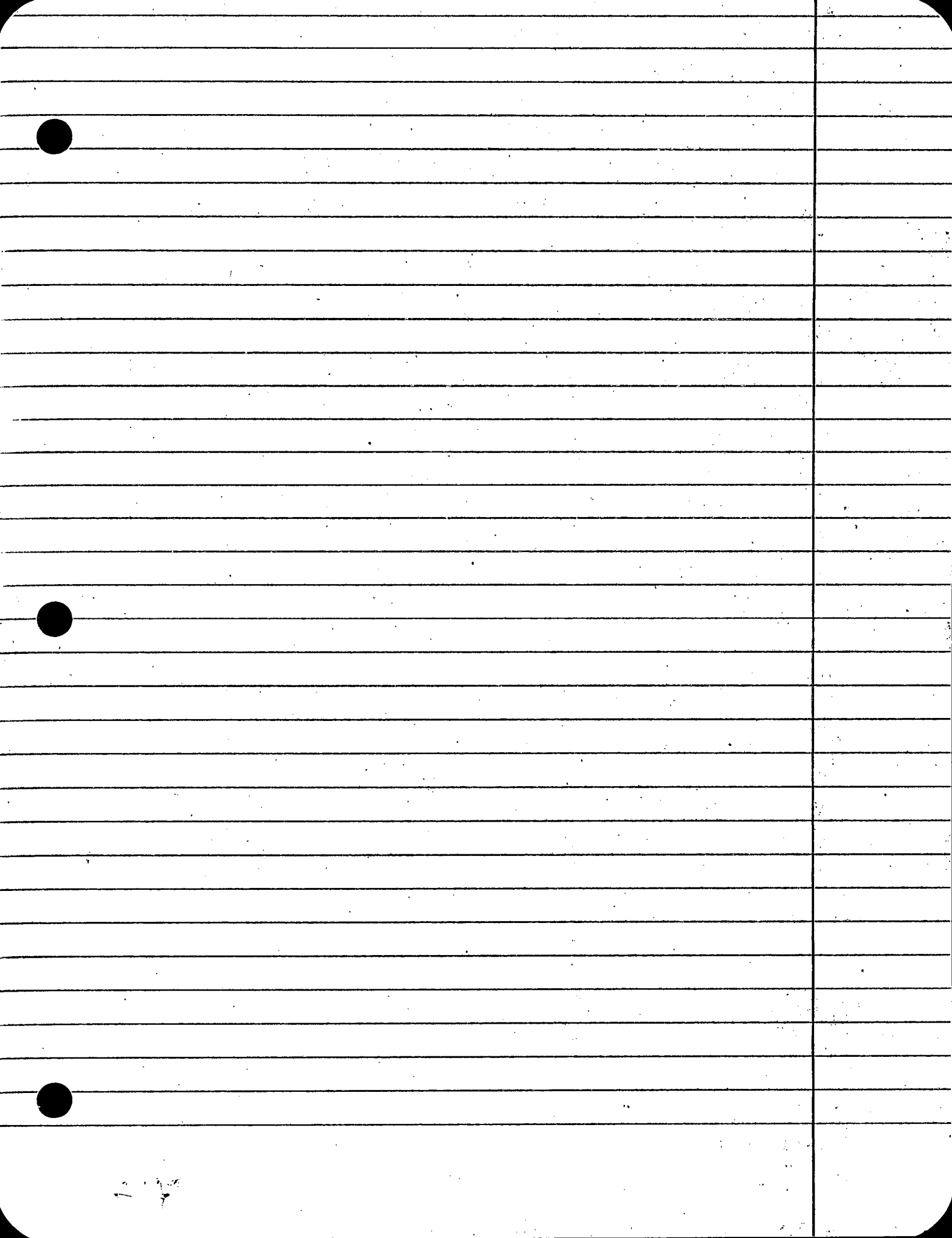
State "D" Well No. 1

1980' FSL - 660' FET

Spud: 2-4-36

Event Measurement Completion

(2) Application Well



UNIT D

Chevron U.S.A. Inc.

Graham State (NCT-D) Well No. 1

660' FSL - 1980' PFL

Spud: 2-3-36

Eunice Monument Completion

UNIT P

Gulf Oil Corporation

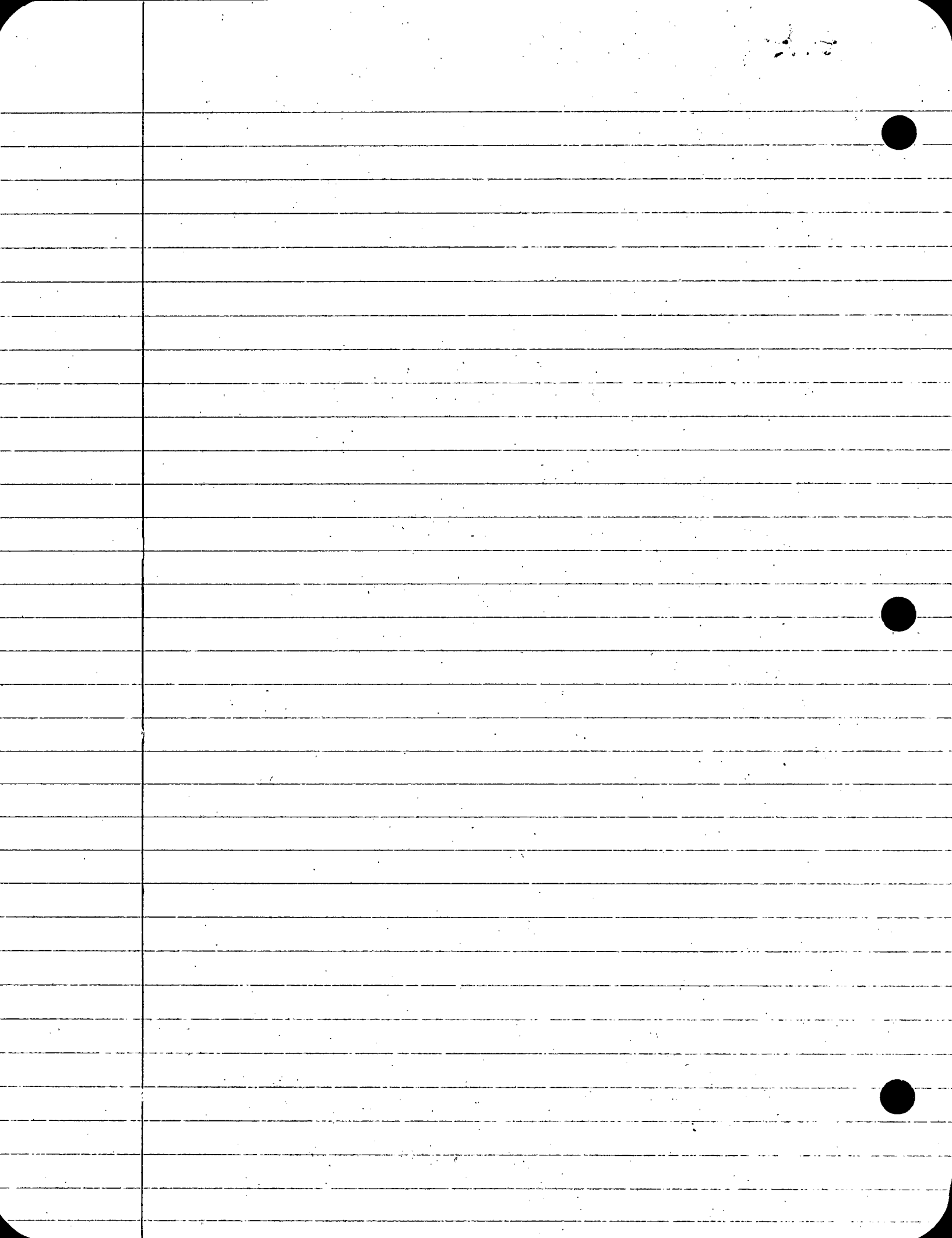
Graham State (NCT-D) Well No. 2

660' FSL EL

Spud: 3-28-36

Pd'd: Feb. 1979

Eunice Monument Completion



~~MONTHLY TOTALS ARE THRU MONTH OF DECEMBER.~~
MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS

42F15	19537E	666 P	850	115	2F890	17755	37573	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
45K15	19537E				2F862	11132	37573	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
44L15	19537E	1734 P	3158	154	2F812	10436	37573	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
48H15	19537E				6536	651	37573	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
49N15	19537E	1414 P	1331	340	42321	9188	37573	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
37A16	19537E				11488	60	37573	5	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
AD16	19537E	24		20501 G	557		24744	2	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
40H16	19537E	486 P	1095	167	20443	11689	37573	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
43I16	19537E				18654		37573	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
IK16	19537E			G	21121	12325	38598	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
46O17	19537E				21121	40	38598	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
42P16	19537E	2971 P	2349	513	20121	1912	37573	1	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
68I7	19537E	P			208155	304178	26676	5	UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
4C17	19537E				410493				UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
4C17	19537E			5589 G					UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
2017	19537E				440623	197239			UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
1617	19537E				493451	702238			UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
3F17	19537E			G					UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
3F17	19537E	2677 P	134	6275	362686	118502			UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
5017	19537E				247276				UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
5017	19537E			83	3649 G	678	193044		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
41I7	19537E	1221 P	773	10302	33981	41172	256329		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
21I7	19537E	1792 P	15521	44457	303950	264735	123152		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
4K17	19537E	5997 P	170621	11172	487521	1944807	854616		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
3L17	19537E	1063 P	72284	6209	502636	1129048	149321		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
3L17	19537E			G		6279	369993		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
1M17	19537E				342091	24357	24357		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
7H17	19537E	9451 P	61369	7422	146511	668246	24357		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
2N17	19537E	2879 P	2361	5330	476379	156114	24357		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
1017	19537E				2240	1633	24357		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
1017	19537E	3461 P	45576	10314	483339	629930	24357		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
3P17	19537E	1098 P	1420	11870	153789	31363	864956		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
1A18	19537E	2079 P	13748	5600	540338	249739	153465		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
1B18	19537E	1924 P	5891	6604	473993	90223	301777		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
1C18	19537E	509 P	551	7698	176486	19020	301777		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
1C18	19537E			109885 G		13826	6328912		UNIT	YATES 7*TEXACO PRODUCE EAST	UNIT#US	
1018	1											

SOUTHEAST OCO ANNUAL SECTION-TOWNSHIP-RANGE WELL LIST FOR 1985

DATED

APRIL 10, 1986

ORDER BY COUNTIES/OPERATOR

PAGE 394

WELL S T R YR. OIL MP YR WATER YR. GAS O-G CUM OIL CUM WATER CUM GAS ST POOL NAME OPERATOR LEASE NAME LAND

MONTHLY TOTALS ARE THRU MONTH OF DECEMBER
MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS

LEA COUNTY * * * * *

4G19	1953	7E	10244	P	24155	12513	921955	1440618	261884	EUNICE	MONUMEN*CHEVRON U.S.*B V CULP NCT A	* P	
5H19	1953	7E	12411	P	84915	12411	922881	652513	351659	EUNICE	MONUMEN*CHEVRON U.S.*B V CULP NCT A	* P	
3119	1953	7E	1192	P	1921	9126	9703	11384	46484	EUNICE	MONUMEN*SHELL WESTER*STATE D	* S	
2119	1953	7E					634507	4922683	147710	EUNICE	MONUMEN*SHELL WESTER*STATE D	* S	
1J19	1953	7E	16728	P	205475	24380	1024972	1290033	275369	EUNICE	MONUMEN*SHELL WESTER*STATE D	* S	
9J19	1953	7E			9	6240	G	1259	494	EUMONT	YATES 7*CHEVRON U.S.*B V CULP NCT A	* S	
1K19	1953	7E	27818	F		11517	1025157	26567	236449	EUNICE	MONUMEN*PHILLIPS PET*LAND OFFICE	* S	
1K19	1953	7E			450	8330	316	1072	569979	EUMONT	YATES 7*PHILLIPS PET*LAND OFFICE	* S	
1L19	1953	7E	15408	P	272021	3993	G	923115	1615443	EUNICE	MONUMEN*CONOCO, INC.*STATE AC COM	* S	
1L19	1953	7E					154	20012	1718633	EUMONT	YATES 7*CONOCO, INC.*STATE AC	* S	
3M19	1953	7E				59666	G	2194	494513	EUMONT	YATES 7*TEXACO INCOR*NEW MEXICO G STA	* S	
FOLLOWING WELL ZONE ABANDONED													
2M19	1953	7E				G			2284858	EUMONT	YATES 7*TEXACO INCOR*NEW MEXICO G STA	* S	
2M19	1953	7E	26493	P	1449	10386	896329	1240331	215753	EUNICE	MONUMEN*TEXACO INCOR*NEW MEXICO G STA	* S	
1N19	1953	7E	31999	P	33465	5732	1028674	1445241	214916	EUNICE	MONUMEN*TEXACO INCOR*NEW MEXICO G STA	* S	
1O19	1953	7E	12993	F	45440	7175	931090	306015	211132	EUNICE	MONUMEN*CHEVRON U.S.*GRAHAM STATE NCT	* S	
FOLLOWING WELL ZONE ABANDONED 1980													
2P19	1953	7E					621541	1432237	131798	EUNICE	MONUMEN*GULF OIL COR*GRAHAM STATE NCT	* S	
2A20	1953	7E	570	P	2000	17546	132949	20284	76444	EUNICE	MONUMEN*GRACE PETROL*NEW MEXICO D STA	* S	
6B20	1953	7E	2837	P	3100	13447	322448	20698	604634	EUNICE	MONUMEN*RAMERADA HESS*STATE T BATTERY	* S	
2C20	1953	7E	5159	P	30122	17031	579900	247608	309251	EUNICE	MONUMEN*TEXACO PRODU*STATE F	* S	
1C20	1953	7E				49351	G	89	117372	EUMONT	YATES 7*ALPHA TWENTYFOURTY	* S	
1D20	1953	7E	5279	P	15793	18567	714313	137841	605501	EUNICE	MONUMEN*TEXACO PRODU*STATE F	* S	
1E20	1953	7E	8610	P	17753	8404	827902	297788	641935	EUNICE	MONUMEN*RAMERADA HESS*STATE L	* S	
3E20	1953	7E			51	45350	G	184	29903	EUMONT	YATES 7*RAMERADA HESS*STATE L GAS COM	* S	
2F20	1953	7E	3846	P		8344	626844	318981	636151	EUNICE	MONUMEN*RAMERADA HESS*STATE L	* S	
FOLLOWING WELL ZONE ABANDONED													
5G20	1953	7E				G			117917	EUMONT	YATES 7*RAMERADA HESS*STATE T GAS COM	* S	
5G20	1953	7E	1558	P		11745	465412	23970	577095	EUNICE	MONUMEN*RAMERADA HESS*STATE T BATTERY	* S	
1H20	1953	7E	672	P	2841	22047	134871	38194	1113921	EUNICE	MONUMEN*GRACE PETROL*NEW MEXICO D STA	* S	
1I20	1953	7E	10105	P	3729	46363	578610	113707	1896812	EUNICE	MONUMEN*SHELL WESTER*STATE H	* S	
2J20	1953	7E	1149	P	2689	15841	228900	106979	841032	EUNICE	MONUMEN*CHEVRON U.S.*B V CULP NCT A	* S	
3J20	1953	7E				43311	G	523797	51701	EUMONT	YATES 7*CHEVRON U.S.*B V CULP NCT A	* S	
4K20	1953	7E	1502	P	1333	9971	685292	76794	470432	EUNICE	MONUMEN*TEXACO INCOR*H T MATTERN	* P	
1L20	1953	7E	3196	P	11257	8175	685292	76794	413917	EUNICE	MONUMEN*TEXACO INCOR*H T MATTERN	* P	
5L20	1953	7E				37795	G	4644	3265529	EUMONT	YATES 7*TEXACO INCOR*H T MATTERN	* P	
2M20	1953	7E	12638	P	23690	19530	701328	406272	645290	EUNICE	MONUMEN*TEXACO INCOR*H T MATTERN	* P	
3N20	1953	7E	4891	P	375	16925	651323	58788	537500	EUNICE	MONUMEN*TEXACO INCOR*H T MATTERN	* P	
1O20	1953	7E	1320	P	27842	13591	415158	1191248	274223	EUNICE	MONUMEN*CHEVRON U.S.*B V CULP NCT A	* S	
1P20	1953	7E	296	P	5328		423594	1033084	22589	EUNICE	MONUMEN*THE WISER DRILLINGSMITH B STA	* S	
849421	1953	7E								I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
3O21	1953	7E	390	P	364	12288	20311	12523	510119	EUNICE	MONUMEN*GRACE PETROL*NEW MEXICO E STA	* S	
2E21	1953	7E	761	P	364	47780	19344	15824	1347472	EUNICE	MONUMEN*GRACE PETROL*NEW MEXICO E STA	* S	
1F21	1953	7E				27787	G		723753	EUMONT	YATES 7*CHEVRON U.S.*B V CULP NCT A	* S	
FOLLOWING WELL ZONE ABANDONED 1984													
52H21	1953	7E					4529	108333	25014	EUMONT	YATES 7*GETTY OIL CO*EAST EUMONT UNIT#UP		
55I21	1953	7E					7525		55717	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#UP	
1K21	1953	7E	1798	P	10370	10095	49516	144460	274122	EUNICE	MONUMEN*E LONG *HOUSTON	* P	
1K21	1953	7E				7359	G		383681	EUMONT	YATES 7*E LONG *HOUSTON	* P	
1L21	1953	7E	1513	P	2834	35424	309078	43543	109552	EUNICE	MONUMEN*GRACE PETROL*NEW MEXICO E STA	* S	
1M21	1953	7E	1766	P	2500	3076	458698	37161	526764	EUNICE	MONUMEN*CHEVRON U.S.*B V CULP NCT A	* S	
2N21	1953	7E					13407	365	55752	S	EUNICE	MONUMEN*E LONG *HOUSTON	* P
57P21	1953	7E	2608	P	14385	361	35914	41339	56353	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
51C22	1953	7E					9443	213	16798	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
50D22	1953	7E	2179	P	948	350	36770	8096	36340	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
53E22	1953	7E					14625	1124	13150	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
54F22	1953	7E	997	P	1170	164	37349	5226	28430	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
85G22	1953	7E								I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
56K22	1953	7E	2740	P	18523	386	97614	340448	206438	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
58A22	1953	7E					4787	303	206127	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
59N22	1953	7E	5914	P	10618	567	175661	141233	1302109	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
60O22	1953	7E					26860	10	36443	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
61P22	1953	7E	685	P	3142	285	32535	12335	26443	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
FOLLOWING WELL ZONE ABANDONED 1985													
72E22	1953	7E					3277			I	EUMONT	YATES 7*GETTY OIL CO*EAST EUMONT UNIT#US	
76L22	1953	7E	1380	P	11633	187	49757	101992	49618	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
80M22	1953	7E					26936	678	30750	I	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	
81N22	1953	7E					24851	342224	4348	S	EUMONT	YATES 7*TEXACO PRODU*EAST EUMONT UNIT#US	

DATED

APRIL 10, 1986

ORDER BY COUNTIES/OPERATOR

PAGE 395

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 1683
Order No. R-1487

APPLICATION OF GULF OIL CORPORA-
TION FOR AN ORDER FORCE-POOLING
THE EUMONT GAS INTERESTS IN THE
N/2 AND THE SE/4 OF SECTION 19,
TOWNSHIP 19 SOUTH, RANGE 37 EAST,
LEA COUNTY, NEW MEXICO, TO FORM
A 477-ACRE NON-STANDARD GAS PRO-
RATION UNIT IN THE EUMONT GAS
POOL

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m., on August 19, 1959, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 14th day of September, 1959, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Gulf Oil Corporation, is the operator of the N/2 and the SE/4 of Section 19, Township 19 South, Range 37 East, NMPM, Lea County, New Mexico, and is the owner and operator of the B. V. Culp "A" Well No. 3, located in the SE/4 NW/4 of said Section 19.

(3) That the applicant seeks an order force-pooling said N/2 and SE/4 of Section 19 as a 477-acre non-standard Eumont gas proration unit.

(4) That all parties owning working interests in the above-described acreage have agreed to communitization, as have a majority of the parties owning royalty interests and contingent interests.

(5) That the applicant has made diligent efforts to communitize all royalty interests in the above-described 477-acre unit for the Eumont Gas Pool, but has been unable to obtain the consent of all persons owning such royalty interest in said 477-acre unit.

(6) That all parties owning an interest in the above-described acreage were given actual notice of the hearing in this case and that the Commission has received no objection to the approval of the subject application.

(7) That it is impractical to form a standard unit in the Eumont Gas Pool by combining the acreage in question with adjacent acreage because all surrounding property is presently dedicated to other Eumont gas wells.

(8) That accordingly, the enforcement of a uniform spacing pattern would tend to deprive the owners of the tract the opportunity to recover their just and equitable share of Eumont gas underlying the 477-acre tract.

(9) That the most efficient and orderly development of the subject acreage can be accomplished by force-pooling the N/2 and the SE/4 of said Section 19 to form a 477-acre non-standard gas proration unit in the Eumont Gas Pool, and that such an order should be entered.

IT IS THEREFORE ORDERED:

(1) That the interests of all persons having the right to drill for, produce, or share in the production of dry gas and associated liquid hydrocarbons, or either of them, from the Eumont Gas Pool underlying the N/2 and the SE/4 of Section 19, Township 19 South, Range 37 East, NMPM, Lea County, New Mexico, be and the same are hereby pooled, said unit to be dedicated to Gulf Oil Corporation's B. V. Culp "A" Well No. 3, located in the SE/4 NW/4 of said Section 19, and that Gulf Oil Corporation be and the same is hereby designated as the operator of said pooled unit.

(2) That as prescribed in the Gas Pooling Agreement for the B. V. Culp (NCT-A) Eumont Gas Unit No. 1, the production from the above-described pooled 477-acre non-standard unit be allocated to each tract in the unit in the proportion that the acreage interest contained in each of the tracts bears to the entire surface acreage of said unit.

-3-

Case No. 1683
Order No. R-1487

(3) That the allowable assigned to the above-described 477-acre non-standard gas proration unit shall bear the same ratio to a standard allowable in the Eumont Gas Pool as the acreage in said unit bears to the acreage in a standard unit in the Eumont Gas Pool.

(4) That the effective date of this order shall be the first day of the month following the month in which the Commission is notified that the subject well has been brought into balance.

(5) That Administrative Order NSP-256 shall be cancelled as of the effective date of this order.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JOHN BURROUGHS, Chairman

MURRAY E. MORGAN, Member

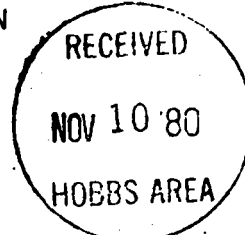
A. L. PORTER, Jr., Member & Secretary

S E A L

lcr/

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

*Copies to: Hobbs
Proration Unit
File
200.071*



WILLIAM A. KASTLER

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7021
Order No. R-6482

APPLICATION OF GULF OIL CORPORATION
FOR SIMULTANEOUS DEDICATION, LEA
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on September 17, 1980, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 20th day of October, 1980, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Gulf Oil Corporation, seeks approval for the simultaneous dedication of a previously approved 477-acre non-standard gas proration unit comprising the N/2 and SE/4 of Section 19, Township 19 South, Range 37 East, NMPM, Eumont Gas Pool, Lea County, New Mexico.

(3) That the applicant further seeks to simultaneously dedicate its B. V. Culp (NCT-A) Wells Nos. 3 and 9 located in Units F and J, respectively, of said Section 19.

(4) That the above-described wells will better enable applicant to produce the gas underlying the proration unit.

(5) That no offset operator objected to the proposed simultaneous dedication.

(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That Gulf Oil Corporation is hereby authorized to simultaneously dedicate its B. V. Culp (NCT-A) Wells Nos. 3 and 9 located in Units F and J, respectively, of Section 19, Township 19 South, Range 37 East, NMPM, Eumont Gas Pool, Lea County, New Mexico, to a previously approved 477-acre non-standard gas proration unit consisting of the N/2 and SE/4 of said Section 19.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Director

S E A L

fd/

Engineering Data to Support Effective and Efficient Finding
B. V. Culp (NCT-A) #9
Unit J, Sec 19-T19S-R37E
Lea County, New Mexico

The following data is submitted to support the opinion that the subject well, the B. V. Culp (NCT-A) #9, is necessary to effectively and efficiently drain a portion of the reservoir not being drained by the original well in the proration unit (the B. V. Culp (NCT-A) #3). Attached is a well location plat showing the 477 acre non-standard Eumont Gas proration unit and the wells in question. Also provided are well completion documents and a two-well cross-section to support the information contained in this summary.

The B. V. Culp (NCT-A) #3, located in Unit F, 1980' FNL & 1980' FWL of Section 19-T19S-R37E, was spudded January 6, 1936, and dually completed in the Eumont Gas and Eunice Monument pools. The Eumont Gas perforations, 3423'-3570', originally produced 6,000 MCFGPD with 875 psi flowing tubing pressure; CAOF was 22 MMCFGPD. This zone is currently producing approximately 135 MCFGPD.

The B. V. Culp (NCT-A) #9, located in Unit J, 2040' FSL & 1980' FEL of Section 19-T19S-R37E, was spudded April 5, 1980. The well was originally perforated April 22, 1980 in the Eumont Gas interval corresponding to that which was producing in the #3 well. These perforations, 3453'-3622', initially tested 164 MCFGPD with 65 psi FTP; a pressure buildup test showed a BHP of only 286 psi. This indicated that the B. V. Culp (NCT-A) #3 was effectively draining this interval at the location of the #9 well. A CIBP was set at 3425' and the well was reperforated in the interval 3180'-3342'. The B. V. Culp (NCT-A) #9 was opened to sales December 3, 1980, flowing 1100 MCFGPD with 4450# FTP. The well is currently producing approximately 320 MCFGPD.

Logs indicate that the wells are producing from intervals which are separated by a low-porosity, low-permeability dolomitic zone (see attached cross-section); there is no vertical communication. Initial completion pressures encountered in the B. V. Culp (NCT-A) #9 further support the fact that this well is producing from an interval which is not drained by the B. V. Culp (NCT-A) #3. Therefore, it is our conclusion that the subject well is necessary to effectively drain a portion of the reservoir covered by the proration unit which cannot be effectively and efficiently drained by the original well in the proration unit.

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NEW MEXICO OIL CONSERVATION COMMISSION

30-025-24663
Gulf Ref. 1-1-80
Form C-101
Revised 1-1-85

5A. Indicate Type of Lease

STATE ☒ FEE ☐

5. State Oil & Gas Lease No.

A-1543-1

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well DRILL ☒ DEEPEN ☐ PLUG BACK ☐
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

GULF OIL CORPORATION

3. Address of Operator

P.O. Box 670, Hobbs, NM 88240

4. Location of Well

UNIT LETTER J LOCATED 2040 FEET FROM THE South LINE

AND 1980 FEET FROM THE East LINE OF SEC. 19 TWP. 19S RGE. 37E NMPM

7. Unit Agreement Name

8. Farm or Lease Name

B. V. Culp (NCT-A)

9. Well No.

9

10. Field and Pool, or Wildcat

Eumont Gas

12. County

Lea

19. Proposed Depth

3800'

19A. Formation

Yates 7-Rvrs Qu.

20. Rotary or C.T.

Rotary

21. Elevations (Show whether DF, RT, etc.)

3683' GL

21A. Kind & Status Plug. Bond

Blanket

21B. Drilling Contractor

--

22. Approx. Date Work will start

February 15, 1980

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11"	8-5/8"	24#	375'	300	Circulated
7-7/8"	4 1/2"	9.5#	3800'	500	Circulated

Drilling Fluids: 0' - 400' Fresh water spud mud
400' - 3800' Brine water

See attached BOP Drawing #2

Gas is dedicated

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed R. C. Anderson Title Area Production Manager Date 1-25-80

(This space for State Use)

SUPERVISOR DISTRICT

JAN 28 1980

APPROVED BY [Signature] TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

Prior to producing this well in the Eumont Gas Pool, approval for the non-standard proration unit must be obtained.

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NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. A-1543-1	

14. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

2. Name of Operator

Gulf Oil Corporation

3. Address of Operator

P. O. Box 670, Hobbs, NM 88240

4. Location of Well

UNIT LETTER **J** LOCATED **2040** FEET FROM THE **South** LINE AND **1980** FEET FROMTHE **East** LINE OF SEC. **19** TWP. **19S** RGE. **37E** NMPM

7. Unit Agreement Name
8. Form of Lease Name B. V. Culp (NCT-A)
9. Well No. 9
10. Field and Pool, or Wildcat Eumont Gas
11. County Lea

15. Date Spudded 4-5-80	16. Date T.D. Reached 4-10-80	17. Date Compl. (Ready to Prod.) 8-8-80	18. Elevations (DF, RKB, RT, GR, etc.) 3683' GL	19. Elev. Casinghead --
-----------------------------------	---	---	---	-----------------------------------

20. Total Depth 3800'	21. Plug Back T.D. 3765'	22. If Multiple Compl., How Many Single	23. Intervals Drilled By Rotary Tools	23. Intervals Drilled By Cable Tools
---------------------------------	------------------------------------	---	---	--

24. Producing Interval(s), of this completion - Top, Bottom, Name

3124'-3342' Eumont Gas

25. Was Directional Survey Made

No

26. Type Electric and Other Logs Run

Compensated Density-Neutron Log

27. Was Well Cored

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	378'	12 1/2"	300 sk-circ	
5 1/2"	7#, 15.5#, 14#	3800'	7-7/8"	1050 sx-circ	

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	3058'	3058'

31. Perforation Record (Interval, size and number)

**3124-26', 3156-58', 3180-82', 3210-12', 3270-72',
3310-12', 3340-42' with 1/2" JHPF**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3124'-3342'	1346 gal 15% NEFE
3124'-3342'	42,000 gal 70 quality foam pac 87,500# 20/40 sd, (24) 7/8" RO & 1900# rock salt

33. PRODUCTION

Date First Production 8-8-80		Production Method (Flowing, gas lift, pumping - Size and type pump) Flow				Well Status (Prod. or Shut-in) Shut In	
Date of Test 8-9-80	Hours Tested 24	Shoe Size 20/64"	Prod'n. For Test Period →	Oil - Bbl. --	Gas - MCF 1033	Emulsion 36	Gas - Oil Ratio --
Flow Turning Press. 500#	Casing Pressure 0#	Calculated 24-Hour Rate →	Oil - Bbl. --	Gas - MCF 1083	Water - Bbl. 36	Oil Gravity - API (Corr.) 33.9°	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

Test Witnessed By

35. List of Attachments

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

RDP

TITLE

Area Engineer

DATE

8-21-80

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1286</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt <u>1392</u>	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt <u>2438</u>	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2586</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>2827</u>	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3310</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg <u>3663</u>	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. Grayburg <u>3445</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

No. 5, from _____ to _____

No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet

No. 2, from _____ to _____ feet

No. 3, from _____ to _____ feet

No. 4, from _____ to _____ feet

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1286		Red Bed				
1286	1392		Anhydrite				
1392	2438		Salt				
2438	2586		Anhydrite				
2586	3800		Dolomite, Anhydrite, Sand, Shale				

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OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
A-1543-1	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO OPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER-	7. Unit Agreement Name
2. Name of Operator	8. Farm or Lease Name
GULF OIL CORPORATION	B. V. Culp (NCT-A)
3. Address of Operator	9. Well No.
P. O. Box 670, Hobbs, NM 88240	9
4. Location of Well	10. Field and Pool, or Wildcat
UNIT LETTER <u>J</u> <u>2040</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>19</u> TOWNSHIP <u>19S</u> RANGE <u>37E</u> N.M.P.M.	Eumont Gas
15. Elevation (Show whether DF, RT, GR, etc.)	12. County
3683' GL	Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
		OTHER <u>Perfd. Aczd-</u>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Circ hole w/8.6# brine treated w/1 gal Tretolite RP2336 chem per 1000 gal wtr. Spotted 15% double inhib HCL f/3622' to 3425'. Perf 5½" csg w/(2) ½" o-phase burrless decentralized JHPF: 3620-22', 3598-3600', 3571-73', 3546-48', 3521-23', 3476-78, 3453-55'. Rvrsd out 4 bbls flu dn csg to displace acid into tbq. Put spot acid away @ 1 BPM. Broke @ 1900# to 1600#. ISIP 1300#. Swbd. Acz 5½" csg perfs 3453-55', 3476-78', 3521-23', 3546-48', 3571-73', 3598-3600', 3620-22' in 7 equal stages of 150 gals inhib HCL acid. Wait 5 min & pump 100 gal 15% inhib acid @ 1 BPM. Test lines to 6000#. Load 2-3/8" tbq w/acid, close circ valve on pkr; (3453-55') 2300# broke to 1800#; 2300# (3476-78') comm w/100 gal in form. Fnsh ppg acid @ 1 BPM; (3521-23') comm w/75 gal in form. Fnsh ppg acid @ 1 BPM; (3546-48') comm w/100 gal in form. Fnsh ppg acid. Ppd 750 gals in lower 3 set of perfs @ 3.5 BPM. Flsh w/18 bbls GKF. Pump 4 BW dn 5½" csg, close circ valve on pkr. Swbd.

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

Signed Jerry Sexton acting Area Engineer DATE 4-29-80

APPROVED BY Jerry Sexton TITLE Area Engineer DATE APR 30 1980

CONDITIONS OF APPROVAL, IF ANY:

CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-79

NO. OF COPIES RECEIVED	
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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
A-1543-1	

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER-		7. Unit Agreement Name	
2. Name of Operator Gulf Oil Corporation		8. Farm or Lease Name B. V. Culp (NCT-A)	
3. Address of Operator P. O. Box 670, Hobbs, NM 88240		9. Well No. 9	
4. Location of Well UNIT LETTER <u>J</u> <u>2040</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>19</u> TOWNSHIP <u>19S</u> RANGE <u>37E</u> NMPM.		10. Field and Pool, or Wildcat Eumont Gas	
15. Elevation (Show whether DF, RT, GR, etc.) 3683' GL		12. County Lea	

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <u>Perfd, Aczd, Fracd, Plugged Back</u> <input checked="" type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Pump KCL water into 3598'-3600' at 4.0 BPM with 3000#, 100# ISIP. Pump into 3571-73' at 4 BPM with 2800#, 0# ISIP. Cleaned sand fill to 3685'. Pump into 3620-22' at 3 BPM with 3600#. Spot 15% NEFE double inhibited HCL 3342'-3100'. Perf 3124-26, 3156-58', 3180-82', 3210-12', 3270-72', 3310-12', 3340-42' with 1/2" JHPF. Put spot acid away; pump 6 bbls water at 3 BPM with 2800#, form broke at 2900#. Swab. Acidize each set of perfs from top down as follows: perfs 3124-26', broke at 4000# to 2600#; pumped 150 gal acid at 1 BPM, wait 5 min pressure 2300#; pumped 100 gal acid at 2400#, ISIP 2200#. Perfs 3156-58', pump at 2200#; pumped 150 gal acid, ISIP 1000#; wait 5 min, pump 100 gal at 1700#, communicated, ISIP 2000#. Perfs 3180-82', communicated immediately; pumped 146 gal acid with 2000#, pressure build up on annulus, SD, ISIP 2000#. Perfs 3210-12', communicated immediately; pumped 40 gal acid at 2400#, SD, ISIP 1900#. Perfs 3270-72, broke at 3100# to 2800#, pumped 150 gal acid, ISIP 2500# wait 5 min pressure 2400#; pumped 100 gal acid at 2700#, ISIP 2500#. Perfs 3310-12', broke at 3200# to 2800#; pumped 150 gal acid, ISIP 2400#; wait 5 min pressure 1000#; pumped 100 gal acid at 2600# increase to 2700#, ISIP 2500#. Perfs 3340-42' pumped in at 2800#; pumped 150 gal acid, communicated, ISIP 2500#. Straddled all perfs & flushed spot acid with KCL water at 3000# at 3.8 BPM, ISIP 2400#, 5 min SIP 1100#. Swabbed; set packer at 3058'. Set CIBP at 3425'. Foam frac down 2-3/8" tubing through 3124'-3342' in 7 equal stages using 42,000 gal 70 quality foam pad, 37,500# 20/40 sand, (24) 7/8" RCNB's & 1900# rock salt. Flushed to mid perfs with 70 quality foam at 4700#. ISP 2450#, 15 min 2150#. Complete after drilling, perfs acidizing & fracing. Waiting on pipeline connection.

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

SIGNED <u>R. D. Pitzer</u>	TITLE <u>Area Engineer</u>	DATE <u>8-20-80</u>
Orig. Signed By Jerry Sexton		
APPROVED BY <u>D. L. Smith</u>	TITLE _____	DATE <u>AUG 22 1980</u>
CONDITIONS OF APPROVAL, IF ANY:		

EUMONT GAS POOL
Lea County, New Mexico

Order No. R-1670, Adopting Special Rules and Regulations, in Addition to the General Rules and Regulations for Southeastern New Mexico, for the Eumont Gas Pool, Lea County, New Mexico, May 20, 1960.

(Order No. R-1670 Supersedes Order No. R-264, Creating the Eumont Gas Pool, Lea County, New Mexico, February 17, 1953, as Amended by Order No. R-264-A, November 10, 1953; Order No. R-356, Adopting Rules for Gas Wells in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, August 28, 1953; Order No. R-370, September 28, 1953; Order No. R-371, September 28, 1953; Order No. R-370-A, November 10, 1953; Order No. R-371-A, November 10, 1953; Order No. R-370-B, December 7, 1953; Order No. R-371-B,; Order No. R-520, August 12, 1954; Order No. R-520-A, August 31, 1954; Order No. R-663, July 7, 1955; Order No. R-767, March 14, 1956; Order No. R-767-A, April 16, 1956; and Order No. R-967, April 23, 1957.)

(The Eumont Gas Pool was created February 17, 1953, and proration was instituted January 1, 1954. The Eumont Gas Pool now includes portions of the acreage once included in the Jalco and Langmat Pools (now Jalmat) and all of the acreage formerly in the Arrow and Hardy Pools.)

A. WELL LOCATION AND ACREAGE REQUIREMENTS

RULE 5(A). A standard gas proration unit in the Eumont Gas Pool shall be 640 acres.

RULE 5(B). Any well drilled to and producing from the Eumont Gas Pool, as defined herein, prior to August 12, 1954 at a location conforming with the spacing requirements effective at the time said well was drilled, shall be granted a tolerance not exceeding 330 feet with respect to the required distance from the boundary lines.

C. ALLOCATION AND GRANTING OF ALLOWABLES

RULE 8(A). The pool allowable remaining each month after deducting the total allowable assigned to marginal wells shall be allocated among the non-marginal wells entitled to an allowable in the proportion that each well's acreage factor bears to the total of the acreage factors for all non-marginal wells in the pool.

RULE 8(B). Allowables to newly completed gas wells shall commence on the date of connection to a gas transportation facility, as determined from an affidavit furnished to the Commission (Box 2045, Hobbs, New Mexico) by the purchaser, or the date of filing of Form C-104, Form C-110, and a plat (Form C-128), whichever date is the later.

G. GENERAL

RULE 22. No gas, either dry gas or casinghead gas, shall

be flared or vented from any well at any time after ninety (90) days from the date such well is completed. Any operator who desires to obtain an exception to the provisions of Rule 22 of Section I of this order shall submit to the Secretary-Director of the Commission an application for such exception with a sworn statement setting forth the facts and circumstances justifying such exception. The Secretary-Director is hereby authorized to grant such an exception whenever the granting of the exception is reasonably necessary to protect correlative rights, prevent waste, or prevent undue hardship on the applicant under all the acts and circumstances as set forth in the statement. The Secretary-Director shall either (a) grant the exception within 15 days after receipt of the application and statement or (b) thereafter set the application for hearing by the Commission at a regular monthly hearing; provided, however, that no such applicant shall incur any penalty by reason of a delay in setting the application for hearing. Notice of hearing of the application shall be published in the manner provided by law and the Rules of the Commission. If the exception is granted by the Secretary-Director, a list of such exceptions shall be distributed in the Commission's regular mailing list.

The flaring or venting of gas from any well in violation of any provision of this rule will result in suspension of any further allowable until further order of the Commission.

RULE 22(A). Within 15 days after any oil or gas well within the boundaries of the Eumont Gas Pool is connected to a gas transportation facility, the operator shall file Form C-110 designating the disposition of gas from the well.

RULE 22(B). No extraction plant processing any gas from the Eumont Gas Pool shall flare or vent such gas unless such flaring or venting is made necessary by mechanical difficulties or unless the gas flared or vented is of no commercial value.

H. MISCELLANEOUS SPECIAL POOL RULES

RULE 25. The vertical limits of the Eumont Gas Pool shall extend from the top of the Yates formation to the base of the Queen formation, thereby including all of the Yates, Seven Rivers and Queen formations.

RULE 26(A). A gas well shall mean a well producing with a gas-oil ratio in excess of 100,000 cubic feet of gas per barrel of oil.

RULE 26(B). A well producing from the Eumont Gas Pool and not classified as a gas well, as defined in Section (A) of this rule, shall be classified as an oil well.

RULE 26(C). Oil wells producing from the Eumont Gas Pool shall be allowed to produce a volume of gas each day not exceeding the daily normal unit oil allowable multiplied by 10,000; provided, however, that such well shall not be allowed to produce oil in excess of the normal unit allowable as ordered by the Commission under the provisions of Statewide Rule 505.

EMPIRE YATES-SEVEN RIVERS POOL
Eddy County, New Mexico

Order No. 850, January 1, 1950, Redefining Pool, as Amended by Order No. R-11, February 21, 1950; Order No. R-17-A, May 22, 1950; Order No. R-27, July 28, 1950; Order No. R-92, September 20, 1951; Order No. R-167, June 19, 1952; Order No. R-348, July 27, 1953; Order No. R-400, January 20, 1954; Order No. R-2187, March 1, 1962; Order No. R-3932, April 1, 1970.

T-17-S, R-27-E S/2 Sec. 12; Sec. 13; SE/4 NE/4 Sec. 14; Secs. 24, 25, 26, 35, 36.

T-17-S, R-28-E S/2 Sec. 7; Secs. 18, 19, 30; N/2 Sec. 31.

T-18-S, R-27-E N/2, SW/4 Sec. 2; E/2 Sec. 3.

EMPIRE-ABO POOL
Eddy County, New Mexico

Order No. R-1129, February 20, 1958, Establishing Pool, as Amended by Order No. R-1238, August 14, 1958; Order No. R-1312, December 24, 1958; Order No. R-1355, March 20, 1959; Order No. R-1397, May 18, 1959; Order No. R-1466, August 18, 1959; Order No. R-1509, October 25, 1959; Order No. R-1559, December 18, 1959; Order No. R-1633, March 18, 1960; Order No. R-1652, April 19, 1960; Order No. R-1681, May 20, 1960; Order No. R-1700, June 16, 1960; Order No. R-1749, August 18, 1960; Order No. R-1797, October 14, 1960; Order No. R-1840, January 1, 1961; Order No. R-1907, April 1, 1961; Order No. R-1981, June 1, 1961; Order No. R-2062, October 1, 1961; Order No. R-2139, January 1, 1962; Order No. R-2187, March 1, 1962; Order No. R-2241, June 1, 1962; Order No. R-2313, October 1, 1962; Order No. R-3979, July 1, 1970; Order No. R-6912, March 1, 1982; Order No. R-7114, November 1, 1982.

T-17-S, R-27-E SE/4 Sec. 34; S/2 Sec. 35; S/2 Sec. 36.

T-17-S, R-28-E S/2, NE/4 Sec. 25; S/2, S/2 NE/4 Sec. 26; S/2 Sec. 27; SE/4 Sec. 28; NW/4, S/2 Sec. 31; Secs. 32, 33, 34; W/2, NE/4 Sec. 35; NW/4 NW/4 Sec. 36.

T-17-S, R-29-E S/2 SW/4, SE/4 Sec. 19; SE/4, S/2 NW/4, N/2 SW/4 Sec. 29; N/2, SW/4, W/2 & NE/4 SE/4 Sec. 30.

T-18-S, R-27-E Secs. 1, 2, 3; S/2, NE/4 Sec. 4; SE/4, SE/4 NE/4 Sec. 8; Sec. 9; N/2, SW/4 Sec. 10; N/2 Sec. 11; N/2 Sec. 12; NW/4 Sec. 15; N/2, SW/4, N/2 and SW/4 SE/4 Sec. 16; E/2, NE/4 SW/4 Sec. 17.

T-18-S, R-28-E NW/4 Sec. 4; N/2 Sec. 5; Sec. 6.

EMPIRE-PENNSYLVANIAN GAS POOL
Eddy County, New Mexico

Order No. R-391, November 25, 1953, Establishing Pool, as Amended by Order No. R-7009, July 1, 1982; Order No. R-7048, September 1, 1982.

T-17-S, R-28-E S/2 Sec. 19; Sec. 20; S/2 Sec. 21; S/2 Sec. 22; Secs. 27 through 34.

T-18-S, R-28-E Sec. 3; N/2 Sec. 4; N/2 Sec. 5; N/2 Sec. 6.

EUMONT GAS POOL
(YATES-SEVEN RIVERS-QUEEN)
Lea County, New Mexico

Order No. R-264, February 17, 1953, Establishing Pool, as Amended by Order No. R-407, February 10, 1954; Order No. R-467, May 27, 1954; Order No. R-520, August 12, 1954; Order No. R-526, October 4, 1954; Order No. R-561, December 16, 1954; Order No. R-569, January 13, 1955; Order No. R-606, March 16, 1955; Order No. R-631, May 12, 1955; Order No. R-667, July 27, 1955; Order No. R-690, October 13, 1955; Order No. R-691, October 13, 1955; Order No. R-713, November 10, 1955; Order No. R-724, December 9, 1955; Order No. R-738, January 9, 1956; Order No. R-763, March 14, 1956; Order No. R-767, March 14, 1956; Order No. R-767-A, April 16, 1956; Order No. R-800, May 16, 1956; Order No. R-853, August 10, 1956; Order No. R-877, September 13, 1956; Order No. R-914, November 13, 1956; Order No. R-933, December 28, 1956; Order No. R-947, January 30, 1957; Order No. R-958, March 8, 1957; Order No. R-986, April 29, 1957; Order No. R-1017, June 28, 1957; Order No. R-1059, September 30, 1957; Order No. R-1089, November 27, 1957; Order No. R-1143, March 25, 1958; Order No. R-1160, April 22, 1958; Order No. R-1210, June 26, 1958; Order No. R-1248, September 29, 1958; Order No. R-1355, March 20, 1959; Order No. R-1372, April 21, 1959; Order No. R-1397, May 18, 1959; Order No. R-1633, March 18, 1960; Order No. R-1840, January 1, 1961; Order No. R-1878, March 1, 1961; Order No. R-1981, June 1, 1961; Order No. R-2139, January 1, 1962; Order No. 2221, May 1, 1962; Order No. R-2292, August 1, 1962; Order No. R-2556, August 23, 1963; Order No. R-3030, February 1, 1966; Order No. R-3631, January 1, 1969; Order No. R-4279, April 1, 1972; Order No. R-4423, November 1, 1972; Order No. R-4511, May 1, 1973; Order No. R-5162, March 1, 1976; Order No. R-5511, September 1, 1977; Order No. R-6033, July 1, 1979; Order No. R-6169, November 1, 1979; Order No. R-6274, March 1, 1980.

T-18-S, R-36-E NE/4 Sec. 36.

T-18-S, R-37-E SW/4 Sec. 29; Secs. 31, 32, 33; W/2 SW/4 Sec. 34.

T-19-S, R-36-E E/2 Sec. 1; S/2 Sec. 11; Secs. 12, 13, 14; SE/4 Sec. 15; E/2, E/2 SW/4 Sec. 22; Secs. 23 through 27; E/2 Sec. 33; Secs. 34, 35, 36.

T-19-S, R-37-E W/2 Sec. 3; Secs. 4 through 9; W/2, W/2 E/2 Sec. 10; W/2 Sec. 15; Secs. 16 through 21; W/2, SE/4 Sec. 22; W/2 NW/4, S/2 Sec. 26; Secs. 27 through 35; W/2 NW/4, SW/4 Sec. 36.

T-20-S, R-35-E SE/4 Sec. 24; N/2 NE/4 Sec. 25.

T-20-S, R-36-E Secs. 1, 2, 3; E/2 E/2 Sec. 4; E/2 Sec. 9; Secs. 10 through 14; E/2 Sec. 15; S/2 Sec. 19; Sec. 20; E/2 Sec. 22; Secs. 23 through 29; NE/4 Sec. 30; Secs. 31 through 36.

T-20-S, R-37-E Secs. 1 through 11; N/2, SW/4 Sec. 12; NW/4 Sec. 13; Secs. 14 through 24; NW/4, S/2 Sec. 25; Secs. 26 through 36.

T-20-S, R-38-E Sec. 18; W/2 Sec. 19; Sec. 31.

T-21-S, R-35-E Secs. 1, 2; Lots 1 through 16 Sec. 3; Lots 9 through 16 Sec. 4; E/2 Sec. 11; Secs. 12, 13, 24, 25.

T-21-S, R-36-E Secs. 1 through 30; NE/4 Sec. 31; N/2, N/2 SE/4 Sec. 32; N/2 Sec. 33; N/2, SE/4 Sec. 34; Secs. 35, 36.

T-21-S, R-37-E Secs. 5, 6, 7, 8; W/2 Sec. 16; Secs. 17 through 21; W/2 Sec. 28; Secs. 29, 30, 31; NW/4, SE/4, SW/4 NE/4 Sec. 33.

T-22-S, R-36-E Secs. 1, 2, 12, 13.

T-22-S, R-37-E Secs. 6 through 10; N/2 NW/4 Sec. 15; Sec. 16; N/2, SE/4, N/2 and SW/4 SW/4 Sec. 17; Sec. 18.

Order No. R-6723, August 1, 1981, Contracting the Vertical Limits to Delete the Lowermost 100 Feet of the Queen Formation Under the Following Area:

T-20-S, R-37-E E/2 Sec. 24.

T-20-S, R-38-E S/2 SW/4, NW/4 SW/4 Sec. 18; W/2 Sec. 19.

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800' APR 23 1980
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$57,590
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: -3453' - 3622'

3800' TD 3765' PB Opened well, RU (GO) WLU
Ran GR-CCL logs f/3765' - 2400'. Perf 5½"
17# csg w/(2) ½" o-phased, burrless, decntrlzd
JHPF as follows: 3620-22'; 3598-3600'; 3571-73';
3546-48'; 3521-23'; 3476-78'; 3453-55'. RD
WLU. Ran RBP & treating pkr, SN on 2-3/8"
tbg to 3747'. Left RBP & pulled pkr up to
3402'. Drop SV & tested tbg to 5000#. Fsh SV.
Rvrsd out 4 bbls of flu dn csg to displ acid
into tbg. Set pkr. RU Dresser-Titan & put
spot acid away @ 1 BPM. Broke @ 1900# to
1600#. ISIP 1300#. RD Dresser-Titan. RU
& Swbd tbg dry in 4 runs w/FL 200' f/surf
@ beginning of test. No gas - waited 30 min
& ran swb. 100' flu in hole. CION @ 4:30P
for 14½ hrs, rpt end 7A, 4-23-80. HICKS

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 3

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800' APR 24 1980
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$60,857
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3453' - 3622'

3800' TD 3765' PB 0# TP, ran swb, 350' flu
in hole. Swbd dry 1 run. RIH w/tbg & P/U
RBP. Pull up & set RBP & straddle perfs
w/RBP & pkr @ 3453-55'. Drop flu control
valve set @ 2200#. Pmp & clear flu control
valve w/wtr. RU Dresser-Titan to acz 5½"
csg perfs @ 3453-55'; 3476-78'; 3521-23';
3546-48'; 3571-73'; 3598-3600'; 3620-22' in
7 equal stages of 150 gal NEFE inhbt'd HCL
acid. Wait 5 min & pmp 100 gal 15% NEFE
inhbt'd acid @ 1 BPM. Test lines to 6000#.
Load 2-3/8" tbg w/acid, close circ valve on
Baker FB pkr. 1st stage - (3453-55') 2300#
broke to 1800#. 2nd stage - 2300# (3476-78')
comm w/100 gal in form. Fnsh ppg acid @
1 BPM. Reset straddle tools. 3rd set (3521-23')
comm w/75 gal in form. Fnsh ppg acid @ 1 BPM
4th set (3546-48') comm w/100 gal in form.
Fnsh ppg acid. Lower RBP to 3647', pkr @
3552'. Ppd 750 gal in lower 3 sets of perfs
@ 3.5 BPM. Flush w/18 bbls Gulf flu. Raise
tbg & pkr to 3402' & set pkr. Pmp 4 BW dn
5½" csg. Close circ valve on pkr. Install
WH, ran swb. CION @ 4:30P, rpt end 7A, 4-24-80
60 bbls to recover. EST COST \$136,021
LEONARD

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 4

EUMONT GAS (LEA, NM)**B. V. Culp** ~~(NCT-B) #10~~ *(NCT-A) #9* **AUG 4 1980**

AD: 3800'
GI: 100%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$129,000 Actual-\$90,924
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3124' ~ 3342'

3750' TD 3715' PB RU Dresser Titan
& pmp 46 bbls dn tbgs to load hole.
Spot 250 gal 15% NEFE double inhib
HCL acid f/3342 - 3100'. POH w/tbg
RU Go International. RIH w/perf gun
& perf following intervals w/½"
JHPF 3124 - 26, 3156-58', 3180-82',
3210-12', 3270-72', 3310'-12', 3340'
- 42'. We had difficulties getting the
guns to fire. POH w/guns & RD Go
International. GIH w/5½" RBP & full
bore treating pkr on 2-3/8" tbgs. Set
RBP @ 3390'. Pull up to 3075' & rev
excess acid. Set pkr @ 3075'. Put
spot acid away. Pmp 6 bbls wtr @
rate of 3 BPM @ 2800#. Form broke
dn @ 2900#. Instant SI 2300 after 15
min 2300'. RD Dresser Titan. CION.
8-2-80 - 0# TP. Open well. Ran swb
FL 500' f/surf. Swb to SN in 4 runs,
no gas. No flu entry in 1 hr. CI @
11A, 8-2-80 for 44 hrs. Rpt end 7A,
8-4-80. JONES

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 49

more

EUMONT GAS (LEA, NM)

B. V. Culp (NCT-A) #9

AD: 3800'

GI: 100%

AFE: #54212 - Drill

#54213 - Compl

D-\$ 91,000 Actual-\$75,164

C-\$129,000 Actual-\$90,924

SPUD: 4-5-80

RIG: DA&S

CSG: 5½" @ 3800'

PERF: 3124' - 3342'

AUG 6 1980

3800' TD 3765' PB Opened well, 125# TP. Bled press dn. Swbd tbg dry in 1 hr w/very little gas blow after each run. Swbd 12 bbls acid residue & wtr. RU PT, loaded tbg w/12 bbls 2% KCL wtr. Opened pkr by - pass, displaced 10 bbls flu dn tbg out annulus to flush out 1% acid contaminated wtr that was ppd into annulus during acid job by mistake. Rlsd pkr, retrieved RBP @ 3370'. Pulled tbg & tools f/hole. Ran 5½" Baker lok-set pkr, EL on-off tool (1.78" profile) on 99 jts 2-3/8" OD 4.70# EUE 8RD thd J-55 tbg. Landed tbg on well head w/btm of pkr set @ 3058'. Ran swb w/FL 500' f/surf. Swbd tbg dry in 2 hrs. Recov'd 12 BLW. CI well @ 5P for 14 hrs. 42 bbls acid residue & wtr to recover. Rpt end 7A, 8-6-80. HICKS

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
 COMPL: EST DAYS 10 ; ACTUAL DAYS 51

EUMONT GAS (LEA, NM)

B. V. Culp (NCT-A) #9

AD: 3800'

GI: 100%

AFE: #54212 - Drill

#54213 - Compl

D-\$ 91,000 Actual-\$ 75,164

C-\$129,000 Actual-\$106,733

SPUD: 4-5-80

RIG: DA&S

CSG: 5½" @ 3800'

PERF: 3124' - 3342'

AUG 7 1980

3800' TD 3765' PB Opened well, 950# TP. Bled press dn to 50# in 2 hrs. Ran swb each hr. Recov'd 100' flu each run. Gas vol 100 MCF/gas. CI well @ 11:30A w/300# press build up in 1 hr. Unseat pkr & Pull f/hole. Ran retrieving head & retrieved RBP set @ 3425' & pulled f/hole. Ran 5½" Baker CIBP & set @ 3425'. Pulled tbg f/hole. Ran 5½" Baker lok-set pkr, EL on-off tool (1.78 ID) on 99 hrs tbg & set pkr @ 3058'. CI well @ 7P. 41 bbls acid residue & wtr to recover. Rpt end 7A, 8-7-80. Est cost - \$181,897 HICKS

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
 COMPL: EST DAYS 10 ; ACTUAL DAYS 52

EUMONT GAS (LEA, NM)

B. V. Culp (NCT-A) #9

AD: 3800'
 GI: 100%
 AFE: #54212 - Drill
 #54213 - Compl
 D-\$ 91,000 Actual-\$75,164
 C-\$129,000 Actual-\$90,924
 SPUD: 4-5-80
 RIG: DA&S
 CSG: 5½" @ 3800'
 PERF: 3124' - 3342'

AUG 6 1980

3800' TD 3765' PB Opened well, 125# TP. Bled press dn. Swbd tbg dry in 1 hr w/very little gas blow after each run. Swbd 12 bbls acid residue & wtr. RU PT, loaded tbg w/12 bbls 2% KCL wtr. Opened pkr by - pass, displaced 10 bbls flu dn tbg out annulus to flush out 1% acid contaminated wtr that was ppd into annulus during acid job by mistake. Rlsd pkr, retrieved RBP @ 3370'. Pulled tbg & tools f/hole. Ran 5½" Baker lok-set pkr, EL on-off tool (1.78" profile) on 99 jts 2-3/8" OD 4.70# EUE 8RD thd J-55 tbg. Landed tbg on well head w/btm of pkr set @ 3058'. Ran swb w/FL 500' f/surf. Swbd tbg dry in 2 hrs. Recov'd 12 BLW. CI well @ 5P for 14 hrs. 42 bbls acid residue & wtr to recover. Rpt end 7A, 8-6-80. HICKS

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
 COMPL: EST DAYS 10 ; ACTUAL DAYS 51

EUMONT GAS (LEA, NM)

B. V. Culp (NCT-A) #9

AD: 3800'
 GI: 100%
 AFE: #54212 - Drill
 #54213 - Compl
 D-\$ 91,000 Actual-\$ 75,164
 C-\$129,000 Actual-\$106,733
 SPUD: 4-5-80
 RIG: DA&S
 CSG: 5½" @ 3800'
 PERF: 3124' - 3342'

AUG 7 1980

3800' TD 3765' PB Opened well, 950# TP. Bled press dn to 50# in 2 hrs. Ran swb each hr. Recov'd 100' flu each run. Gas vol 100 MCF/gas. CI well @ 11:30A w/300# press build up in 1 hr. Unseat pkr & Pull f/hole. Ran retrieving head & retrieved RBP set @ 3425' & pulled f/hole. Ran 5½" Baker CIBP & set @ 3425'. Pulled tbg f/hole. Ran 5½" Baker lok-set pkr, EL on-off tool (1.78 ID) on 99 hrs tbg & set pkr @ 3058'. CI well @ 7P. 41 bbls acid residue & wtr to recover. Rpt end 7A, 8-7-80. Est cost - \$181,897 HICKS

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
 COMPL: EST DAYS 10 ; ACTUAL DAYS 52

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800' JUN 11 1980
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$89,119
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3453' - 3622'

3800' TD 3765' PB CI 24 hrs. pending
analysis of BHP survey. Rpt end 7A,
6-11-80. IVANHOE

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 38

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800' JUN 12 1980
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$89,119
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3453' - 3622'

3800' TD 3765' PB CI 24 hrs, pending
analysis of BHP survey. Rpt end 7A,
6-12-80.
Est cost - \$164,283 IVANHOE

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 39

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800' JUN 13 1980
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$89,119
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3453' - 3622'

3800' TD 3765' PB CITP 255#. Opened
well to pit @ 9A on W/O ck. Flwd 22
hrs. No gauge. Rpt end 7A, 6-13-80.
IVANHOE

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 40

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800' JUN 16 1980
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$89,119
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3453' - 3622'

3800' TD 3765' PB 6-13-80 - Open well
set ck to 18/64" to hole 65# RP on well,
same as NNG line press. Set separator &
chart gas - volume on 3/4" orifice -
145.2 MCF & 0 wtr. 6-14-80 - 65# TP.
164.0 MCF on 3/4" orifice 2" well tstr.
Flwd thru Sunday on 65# TP. Opened well
W/O ck. 6-15-80 - Blow dn for temp
survey. Flwg 24 hrs. No measurement -
0 wtr. Rpt end 7A, 6-16-80. IVANHOE

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 43

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800'
GI: 100%
AFE: #54212 - Drill
#54213 - Compl
D-\$ 91,000 Actual-\$ 75,164
C-\$129,000 Actual-\$132,058
SPUD: 4-5-80
RIG: None
CSG: 5½" @ 3800'
PERF: 3124' - 3342'

DEC 04 1980

3800' TD 3765' PB Opened well, 1200# TP
Started well flwg to Northern Natural @ 9A
12-3-80 on 21/64" ck. TP 450# @ 1100 MCF/
Rpt end 7A, 12-4-80. OFF REPO

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 58

EUMONT GAS (LEA, NM)

B. V. Culp (NCT-A) #9

AD: 3800'

GI: 100%

AFE: #54212 - Drill

#54213 - Compl

D-\$ 91,000 Actual-\$ 75,164

C-\$129,000 Actual-\$132,058

SPUD: 4-5-80

RIG: None

CSG: 5½" @ 3800'

PERF: 3124' - 3342'

DEC 04 1980

3800' TD 3765' PB Opened well, 1200# TP.
Started well flwg to Northern Natural @ 9A,
12-3-80 on 21/64" ck. TP 450# @ 1100 MCF/
Rpt end 7A, 12-4-80. OFF REPO

DRILL: EST DAYS 7 ; ACTUAL DAYS 8

COMPL: EST DAYS 10 ; ACTUAL DAYS 58

EUMONT GAS (LEA, NM)

B. V. Culp (NCT-A) #9

APR 23 1980

AD: 3800'
 GI: 75.15%
 AFE: #54212 - Drill
 #54213 - Compl
 D-\$91,000 Actual-\$75,164
 C-\$89,000 Actual-\$57,590
 SPUD: 4-5-80
 RIG: DA&S
 CSG: 5½" @ 3800'
 PERF: 3453' - 3622'

3800' TD 3765' PB Opened well, RU (GO) WLU
 Ran GR-CCL logs f/3765' - 2400'. Perf 5½"
 17# csg w/(2) ½" o-phased, burrless, decntrlzd
 JHPF as follows: 3620-22'; 3598-3600'; 3571-73';
 3546-48'; 3521-23'; 3476-78'; 3453-55'. RD
 WLU. Ran RBP & treating pkr, SN on 2-3/8"
 tbg to 3747'. Left RBP & pulled pkr up to
 3402'. Drop SV & tested tbg to 5000#. Fsh SV.
 Rvrsd out 4 bbls of flu dn csg to displ acid
 into tbg. Set pkr. RU Dresser-Titan & put
 spot acid away @ 1 BPM. Broke @ 1900# to
 1600#. ISIP 1300#. RD Dresser-Titan. RU
 & Swbd tbg dry in 4 runs w/FL 200' f/surf
 @ beginning of test. No gas - waited 30 min
 & ran swb. 100' flu in hole. CION @ 4:30P
 for 14½ hrs, rpt end 7A, 4-23-80. HICKS

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
 COMPL: EST DAYS 10 ; ACTUAL DAYS 3

EUMONT GAS (LEA, NM)

B. V. Culp (NCT-A) #9

APR 24 1980

AD: 3800'
 GI: 75.15%
 AFE: #54212 - Drill
 #54213 - Compl
 D-\$91,000 Actual-\$75,164
 C-\$89,000 Actual-\$60,857
 SPUD: 4-5-80
 RIG: DA&S
 CSG: 5½" @ 3800'
 PERF: 3453' - 3622'

3800' TD 3765' PB 0# TP, ran swb, 350' flu
 in hole. Swbd dry 1 run. RIH w/tbg & P/U
 RBP. Pull up & set RBP & straddle perfs
 w/RBP & pkr @ 3453-55'. Drop flu control
 valve set @ 2200#. Pmp & clear flu control
 valve w/wtr. RU Dresser-Titan to acz 5½"
 csg perfs @ 3453-55'; 3476-78'; 3521-23';
 3546-48'; 3571-73'; 3598-3600'; 3620-22' in
 7 equal stages of 150 gal NEFE inhbt'd HCL
 acid. Wait 5 min & pmp 100 gal 15% NEFE
 inhbt'd acid @ 1 BPM. Test lines to 6000#.
 Load 2-3/8" tbg w/acid, close circ valve on
 Baker FB pkr. 1st stage - (3453-55') 2300#
 broke to 1800#. 2nd stage - 2300# (3476-78')
 comm w/100 gal in form. Fnsh ppg acid @
 1 BPM. Reset straddle tools. 3rd set (3521-23')
 comm w/75 gal in form. Fnsh ppg acid @ 1 BPM
 4th set (3546-48') comm w/100 gal in form.
 Fnsh ppg acid. Lower RBP to 3647', pkr @
 3552'. Ppd 750 gal in lower 3 sets of perfs
 @ 3.5 BPM. Flush w/18 bbls Gulf flu. Raise
 tbg & pkr to 3402' & set pkr. Pmp 4 BW dn
 5½" csg. Close circ valve on pkr. Install
 WH, ran swb. CION @ 4:30P, rpt end 7A, 4-24-80
 60 bbls to recover. EST COST \$136,021
 LEONARD

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
 COMPL: EST DAYS 10 ; ACTUAL DAYS 4

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800'
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$89,119
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3453' - 3622'

JUN 11 1980

3800' TD 3765' PB CI 24 hrs. pending
analysis of BHP survey. Rpt end 7A,
6-11-80. IVANHOE

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 38

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800'
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$89,119
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3453' - 3622'

JUN 12 1980

3800' TD 3765' PB CI 24 hrs, pending
analysis of BHP survey. Rpt end 7A,
6-12-80.
Est cost - \$164,283 IVANHOE

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 39

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800'
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$89,119
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3453' - 3622'

JUN 13 1980

3800' TD 3765' PB CITP 255#. Opened
well to pit @ 9A on W/O ck. Flwd 22
hrs. No gauge. Rpt end 7A, 6-13-80.
IVANHOE

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 40

EUMONT GAS (LEA, NM)
B. V. Culp (NCT-A) #9

AD: 3800'
GI: 75.15%
AFE: #54212 - Drill
#54213 - Compl
D-\$91,000 Actual-\$75,164
C-\$89,000 Actual-\$89,119
SPUD: 4-5-80
RIG: DA&S
CSG: 5½" @ 3800'
PERF: 3453' - 3622'

JUN 16 1980

3800' TD 3765' PB 6-13-80 - Open well
set ck to 18/64" to hole 65# BP on well,
same as NNG line press. Set separator &
chart gas - volume on 3/4" orifice -
145.2 MCF & 0 wtr. 6-14-80 - 65# TP.
164.0 MCF on 3/4" orifice 2" well tstr.
Flwd thru Sunday on 65# TP. Opened well
W/O ck. 6-15-80 - Blow dn for temp
survey. Flwg 24 hrs. No measurement -
0 wtr. Rpt end 7A, 6-16-80. IVANHOE

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
COMPL: EST DAYS 10 ; ACTUAL DAYS 43

EUMONT GAS (LEA, NM)

B. V. Culp (~~NET-8~~) #18 (~~NET-A~~) #9 AUG 4 1980

AD: 3800'
 GI: 100%
 AFE: #54212 - Drill
 #54213 - Compl
 D-\$91,000 Actual-\$75,164
 C-\$129,000 Actual-\$90,924
 SPUD: 4-5-80
 RIG: DA&S
 CSG: 5½" @ 3800'
 PERP: 3124' - 3342'

3750' TD 3715' PB RU Dresser Titan
 & pmp 46 bbls dn tbg to load hole.
 Spot 250 gal 15% NEFE double inhib
 HCL acid f/3342 - 3100'. POH w/tbg
 RU Go International. RIN w/perf gun
 & perf following intervals w/½"
 JHPF 3124 - 26, 3156-58', 3180-82',
 3210-12', 3270-72', 3310'-12', 3340'
 -42'. We had difficulties getting the
 guns to fire. POH w/guns & RD Go
 International. GIH w/5½" RBP & full
 bore treating pkr on 2-3/8" tbg. Set
 RBP @ 3390'. Pull up to 3075' & rev
 excess acid. Set pkr @ 3075'. Put
 spot acid away. Pmp 6 bbls wtr @
 rate of 3 BPM @ 2800#. Form broke
 dn @ 2900#. Instant SI 2300 after 15
 min 2300'. RD Dresser Tital. CION.
 8-2-80 - 0# TP. Open well. Ran swb
 FL 500' f/surf. Swb to SN in 4 runs,
 no gas. No flu entry in 1 hr. CI @
 11A, 8-2-80 for 44 hrs. Rpt end 7A,
 8-4-80. JONES

DRILL: EST DAYS 7 ; ACTUAL DAYS 8
 COMPL: EST DAYS 10 ; ACTUAL DAYS 49

more

GULF OIL CORPORATION
P.O. Box 670
Hobbs, New Mexico 88240

ATTACHMENT TO FORM C-102: B. V. CULP (NCT-A) WELL NO. 9
WELL LOCATION AND ACREAGE DEDICATION PLAT

Entire area outlined in heavy red line represents the B. V. Culp (NCT-A) Eumont Gas Unit. Total acres in unit = 477.19. This acreage is dedicated to the B. V. Culp (NCT-A) #9 well, as well as to the B. V. Culp (NCT-A) #3 (shown on C-102: Unit F, 1980' FNL & 1980' FWL, Section 19, T19S, R37E).

Ownership of other leases dedicated to the well:

- 1) Phillips Petroleum Company
4001 Penbrook Street
Odessa, Texas 79762

Culp Lease

- 2) Shell Oil Company
P.O. Box 1509
Midland, Texas 79702

**N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator GULF OIL CORPORATION			Lease B. V. Culp (NCT-A)		Well No. 9
Unit Letter J	Section 19	Township 19 South	Range 37 East	County Lea	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 2040 feet from the south line and 1980 feet from the east line </div>					
Ground Level Elev. 3683.4	Producing Formation Yates 7-Rivers Queen	Pool Eumont Gas		Dedicated Acreage: 477.19	

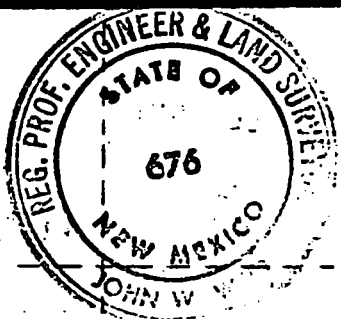
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below. _____
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). _____ (See Attachment)
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

Phillips Petroleum Co. Culp Lease Fee	<div style="text-align: center;"> Gulf Oil Corporation B. V. Culp (NCT-A) Lease Fee (NOTE: See Attachment) </div> <div style="text-align: center; margin-top: 20px;"> ● B. V. Culp (NCT-A) #3 </div>
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Shell Oil Company Graham State (NCT-D) Lease <div style="text-align: center;"> 1980' B. V. Culp (NCT-A) #9 </div>
State A-1543-1

Gulf Oil Corporation <div style="text-align: center;"> 2040' Graham State (NCT-D) Lease State A-1543-1 </div>
--

CERTIFICATION

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

R.C. Anderson

Name
R. C. Anderson

Position
Area Production Manager

Company
Gulf Oil Corporation

Date
1-25-80

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 knowledge and belief.

Date Surveyed
Nov. 13, 1979

Registered Professional Engineer and/or Land Surveyor
John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6663
Ronald J. Eidson 3239

0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000

Engineering Data to Support Effective and Efficient Finding
B. V. Culp (NCT-A) #9
Unit J, Sec 19-T19S-R37E
Lea County, New Mexico

The following data is submitted to support the opinion that the subject well, the B. V. Culp (NCT-A) #9, is necessary to effectively and efficiently drain a portion of the reservoir not being drained by the original well in the proration unit (the B. V. Culp (NCT-A) #3). Attached is a well location plat showing the 477 acre non-standard Eumont Gas proration unit and the wells in question. Also provided are well completion documents and a two-well cross-section to support the information contained in this summary.

The B. V. Culp (NCT-A) #3, located in Unit F, 1980' FNL & 1980' FWL of Section 19-T19S-R37E, was spudded January 6, 1936, and dually completed in the Eumont Gas and Eunice Monument pools. The Eumont Gas perforations, 3423'-3570', originally produced 6,000 MCFGPD with 875 psi flowing tubing pressure; CAOF was 22 MMCFGPD. This zone is currently producing approximately 135 MCFGPD.

The B. V. Culp (NCT-A) #9, located in Unit J, 2040' FSL & 1980' FEL of Section 19-T19S-R37E, was spudded April 5, 1980. The well was originally perforated April 22, 1980 in the Eumont Gas interval corresponding to that which was producing in the #3 well. These perforations, 3453'-3622', initially tested 164 MCFGPD with 65 psi FTP; a pressure buildup test showed a BHP of only 286 psi. This indicated that the B. V. Culp (NCT-A) #3 was effectively draining this interval at the location of the #9 well. A GIBP was set at 3425' and the well was reperforated in the interval 3180'-3342'. The B. V. Culp (NCT-A) #9 was opened to sales December 3, 1980, flowing 1100 MCFGPD with 450# FTP. The well is currently producing approximately 220 MCFGPD.

Logs indicate that the wells are producing from intervals which are separated by a low-porosity, low-permeability dolomitic zone (see attached cross-section); there is no vertical communication. Initial completion pressures encountered in the B. V. Culp (NCT-A) #9 further support the fact that this well is producing from an interval which is not drained by the B. V. Culp (NCT-A) #3. Therefore, it is our conclusion that the subject well is necessary to effectively drain a portion of the reservoir covered by the proration unit which cannot be effectively and efficiently drained by the original well in the proration unit.

