STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

February 25, 1993

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

ARCO Oil and Gas Corporation P.O. Box 1610 Midland, TX 79702

Attention: David K. Newell

Administrative Order NSP-1570(L)(SD)-A

Dear Mr. Newell:

By Division Administrative Order NSP-1570(L)(SD), dated April 6, 1989, ARCO was authorized a 320-acre non-standard gas spacing and proration unit in the Eumont Gas Pool comprising the W/2 of Section 21, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, in which was simultaneously dedicated the following three wells:

- W.C. Roach Well No. 1 located at a non-standard gas well location 330 feet from the North and West lines (Unit D);
- W.C. Roach Well No. 6 located at a non-standard gas well location 660 feet from the North line and 1980 feet from the West line (Unit C); and,
- W.C. Roach Well No. 7 located at a standard gas well location 1980 feet from the South and West lines (Unit K).

By Division Administrative Order SD-92-6, dated November 24, 1992, an additional well, the W.C. Roach Well No. 5 located in Unit F at a standard gas well location 1650 feet from the North and West lines of said Section 21, was included in the 320-acre Eumont Gas spacing unit.

Reference is now made to your application dated January 29, 1993 to reduce said 320-acre unit by deleting the SE/4 NW/4 (Unit F) of said Section 21, which is to be utilized as a standard 40-acre oil spacing and proration unit in the Eumont Oil Pool for the above-described W.C. Roach Well No. 5.

By authority granted me under the provisions of Rule 2(a)4 of the Special Rules and Regulations for the Eumont Gas Pool, as promulgated by Division Order No. R-8170, as amended, the following described 280-acre non-standard gas spacing and proration unit is hereby approved:

LEA COUNTY, NEW MEXICO TOWNSHIP 20 SOUTH, RANGE 37 EAST Section 21: N/2 NW/4, SW/4 NW/4 and SW/4

Said unit to remain simultaneously dedicated to the original wells approved by Division Order NSP-1570(L)(SD).

Division Administrative Order SD-92-6 is hereby placed in abeyance until further notice and that portion of NSP-1570(L)(SD) authorizing the 320-acre non-standard unit is also placed in abeyance. All other provisions of that order shall remain in full force and effect.

Sincerely,

William J. LeMay

Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs

Files: NSP-1196

NSP-1570(L)(SD)

SD-92-6



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT hst-1196

OIL CONSERVATION DIVISION

March 13, 1980

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

GOVERNOR ARRY KEHOE SECRETARY

BRUCE KING

ARCO Oil and Gas Company P. O. Box 1610 Midland, Texas 79702

Attention: Ms. Carolyn Dawson

Application for two Non-Standard Re: Proration Units, Simultaneous Dedication and Infill Findings, W/2 of Sec. 21, T-20-S, R-37-E,

Lea County, New Mexico

Dear Ms. Dawson:

By letter of March 3, 1980, ARCO Oil and Gas submitted the subject application. We may not process the application for non-standard units and simultaneous dedication until we receive waivers from offset operators or until you notify us that such offsets were notified of the application by certified mail.

Order No. R-6013 has been modified by Order No. R-6013-A to provide for administrative approval of infill findings only after completion of the well. Therefore your request for infill findings may not be approved at this time.

Sincerely,

R. L. STAMETS Technical Support Chief

RLS/dr

ELICIE TO ALL COMMINGENION COMMINGENION OF THE PRINTE OF MEN MEMBER el the matter of the bemading CALLED BY THE ON GUIDEWAYSON COLLEGION OF THE STATE OF NEW PERSON CON THE SHELLOUR OF COMMERCE THE CO CASY NO. 225 Order---THE APPLICATION OF THE COMMISSION UPON IIS OWN MOTION, DINDOTED TO simplair oil and das compant, for THE RECOMMENATION OF ADMINISTRATIVE COLDER MOP-66 WINGS CAMATED A NON-STANDAND CAS PROLATION TWEE IN THE FUNCTIONS POOL CONSISTING OF THE WAS OF SECTION 21, TOWNINGS 20 SOUTH, RANGE 37 MAST, MAPIN, LYA COUNTY, MEW MENICO. ONDER OF THE COMMERCE BA ARE COUNTERIOR This cause came on for hearing at 9 o'clock a. m. on Descuty 16, 1955, at Santa Pe, Maw Merico, before the Oil Concervation Comnitesien, hersinalter referred to as the "Gemminator". NOW, on this 20 day of April, 1955, the Commission, a quarum being present, naving considered the records and testimony adduced, and being fully advised in the premises, (1) That due notice of the time and place of humain, and the purpose thereof having been given so required by law, the Commission has jurisdiction of this case and the subject metter thereof. (2) That pursuant to provisions of Rule 5 (a) of the Special Rules and Regulations for the Durant Gas Pool of Order No. R. 520, Ch. Con. . relation has power and authority to parrell the formation of a gas promited unit constaining of other than a logal section after setter and become by the Commission. (3) That applicant, Staches Oil and Cas Company, to the owner of on all and gus lance in Lon County, New Mexico, the land couriefles of other than a logal section, and described an Jellows, toward: TOWNSHIP SE SOUTH, PARTY OF PART, SECRET containing \$10 acres, more or less. (4) That applicant, Similate Oil and Can Company, has a producing with on the classauld kense known no W. C. Medels well viincome 530 fact from the north and west Hiss of Section 21. Terminity 2 Tearing Softa Res

ARCO Oil and Gas Company
Permian District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0100

March 3, 1980

Oil Conservation Division of the New Mexico Department of Energy & Minerals P. O. Box 2088
Santa Fe, New Mexico 87501

RE: W. C. Roach Lease
Application for non-standard proration unit
and Simultaneous Dedication
Eumont Yates, Seven Rivers Queen Gas Pool
Section 21, T20S, R37E
Lea County, New Mexico

Gentlemen:

ARCO Oil & Gas Company respectfully requests administrative approval to replace the existing 320 acre non-standard proration unit on the W. C. Roach Lease with two 160 acre non-standard proration units. Currently, the 320 acre non-standard proration unit comprises the W/2 of Section 21, T20S, R37E. Approval is requested to replace this proration unit with two 160 acre proration units comprising the $\frac{NW/4}{Of\ Section\ 21\ T20S\ R37E}$ and the $\frac{SW/4\ of\ Section\ 21\ T20S\ R37E}$.

This letter also requests administrative approval of a simultaneous dedication of the W. C. Roach No. 6 660 N 1980 W with the W. C. Roach No. 1, which is currently producing as a marginal gas well from the subject field. The subject wells are located in the NW/4 of Section 21, T20S, R37E. It is requested that the Division issue certification that there is a need for a second well on the non-standard proration unit. This certification is necessary to meet the requirements of the NGPA of 1978 and we request the certification be handled administratively under Division Order No. R-6013. The volume of increased ultimate recovery from the drilling of the subject well is estimated to be 4.58 BCF. The reserve calculations and supporting data are attached.

Forth under Order R-6013, the following data is submitted:

330 N 330W

- 1. Copies of Forms C-101 and C-102 are attached.
- 2. A completion attempt will be made in the Eumont Gas Pool which has a standard proration unit size of 640 acres.
- 3. The W. C. Roach No. 1 is currently producing as a marginal well on a 320 acre non-standard proration unit. The proration unit was established under Division Order R-612.
- 4. The W. C. Roach No. 6 has not been spudded.
- 5. The W. C. Roach No. 1 is the only other well on the subject proration unit that has been drilled and completed in the Eumont gas pool. This well is located 330' FNL & 330' FWL in Section 21, T20S, R37E, Lea County, New Mexico. The No. 1 well was spudded April 2, 1936 and completed May 25, 1936 as an oil well in the Grayburg zone. In November 1954, a hole in the casing was discovered at 1350'. The well was successfully squeezed and then dually completed for Queen gas production on November 12, 1954. In February 1978, the wellbore was entered and a hole in the tubing was discovered and repaired. The Eumont perforations were acidized and the well was put on production. The leak in the tubing allowed the annulus to load up with fluid. This resulted in apparent formation damage, since production remains low. Average production for the well for September 1979 was 64 MCFD.
- 6. A structure map on the top of the lower Queen formation is attached. The proposed location is shown in red.
- 7. The volume of increased ultimate recovery is anticipated to be 4.58 BCF. The reserve calculations and supporting data are attached.
- 8. A list of all offset operators is attached. These operators have been sent a copy of this application by certified mail.
- 9. Attached is a summary of the last 12 months production for the W. C. Roach No. 1 and the allowable for a normal 160 acre spacing unit.

At no time during the past year has the No. 1 made the allowable. With the additional well-bore, the Roach lease should return to full allowable and will help prevent waste and eliminate unnecessary drainage.

Atlantic Richfield Company believes approval of these requests will be in the interest of conservation, protection of correlative rights, and allow for more complete recovery of Eumont gas reserves from the subject acreage.

Respectfully,

Carolyn Dawson

Carolyn Dawson

Attachments

RBM: ad

Amerada Hess Corporation 1209 S. Main Lovington, New Mexico 88260

Amoco Production Company P. 0. Box 68 Hobbs, New Mexico 88240

B.W.P. Incorporated 1012 Alpine Midland, Texas 79701

W. K. Byrom, Oil Operator P. O. Box 147 Hobbs, New Mexico 88240

Conoco, Inc. P. O. Box 460 Hobbs, New Mexico 88240

Getty Oil Company P. O. Box 1231 Midland, Texas 79702

Gulf Oil Company P. O. Box 1150 Midland, Texas 79702

Sun Production Company P. O. Box 1861 Midland, Texas 79702

Texaco, Inc. P. O. Box 3109 Midland, Texas 79701

NO. OF COPIES RECEIVED				•	
DISTRIBUTION	NI NI	W MEXICO OIL CONSE	RVATION COMMISSION	N Form C-101	
SANTAFE				Revised 1-1-	65
FILE	4			1	e Type of Lease
U.S.G.S.			•	STATE	
LAND OFFICE				5. State Cil	& Gas Lease No.
OPERATOR				· · · · · · · · · · · · · · · · · · ·	
1001101710		0.0011.00000			
APPLICATIO	N FOR PERMIT I	O DRILL, DEEPEN,	OR PLUG BACK		eement Name
				Oint Agi	eement Name
b. Type of Well DRILL X		DEEPEN	PLUG i	BACK BEGGE OF L	Le ise Name
OIL GAS		•	SINGLE MUL		
2. Manue of Operator	O.HER		ZONE L	9. Well No.	Roach
ARCO OIL AND	CAS COMPANY			6	•
3. Address of Operator	das com an			10. Field a	nd Poel, or Wildeat
Box 1710, Hob	hs. New Mex	ico 88240		Eumon	t Yates 7R Gas
4. Location of Well		LOCATED	Nor		
UNIT LETTE	-R	LOCATED	FEET FROM THE	FIT TIME	
AND 1980 FEET FROM	THE West	LINE OF SEC. 21	TWP. 205 RGE. 3	7E NMPM	
				12. County	THILL STATE OF THE
				ILEA	
			19, Proposed Depth	9A. Formation	20. Rotary or C.T.
			3595' Y	ates 7R On Ga	s Rotary
21. Elevations (Show whether DF)	RT, etc.) 21A. K	nd & Status Plug. Bond	21B. Drilling Contractor		x. Date Work will start
1 3509.71 GR		CCA #8	Not selected	2/1	5/80
23,		PROPOSED CASING AN	CEMENT PROGRAM		
SIZE OF HOLE	SIZE OF CASIN	C WEIGHT BED FOOT	CETTING DEDTIN	I CACKE OF COLUMN	TCT TOD
11"	8-5/8" OD	G WEIGHT PER FOOT	1200'	SACKS OF CEMENT	EST. TOP
7-7/8"	4-1/2" OD	9.5# K-55	35951	875	circ to surf
7-170	4-1/2 00	<u> </u>	3235	- 07.5	CITC CO SULL
			1	1	
Propose to dri	ll a develo	nment well an	d test the or	oducing capab	ilities of the
Eumont Queen G					
simultaneous d	edication o	f acreage wit	h existing W.	C. Roach No.	ii.
		ŭ	· ·	•	
Blowout Preven	ter Program	attached.			
					•
IN ABOVE SPACE DESCRIBE PE	OPOSED PROGRAM:	IF PROPOSAL IS TO DEEPEN	OR PLUG BACK, GIVE DATA O	N PRESENT PRODUCTIVE ZON	E AND PROPOSED NEW PRODUC-
TIVE ZONE. GIVE BLOWOUT PREVENT					
I hereby certify that the informati	on above is true and c	omplete to the be st of my k	inpwledge and belief.		
Signed Mill Mary		Title Oper	ations Engine	er Date	3/3/80
	Cara dia s				
(This space for	state Use)				·
APPROVED BY		TITLE		DATE	

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

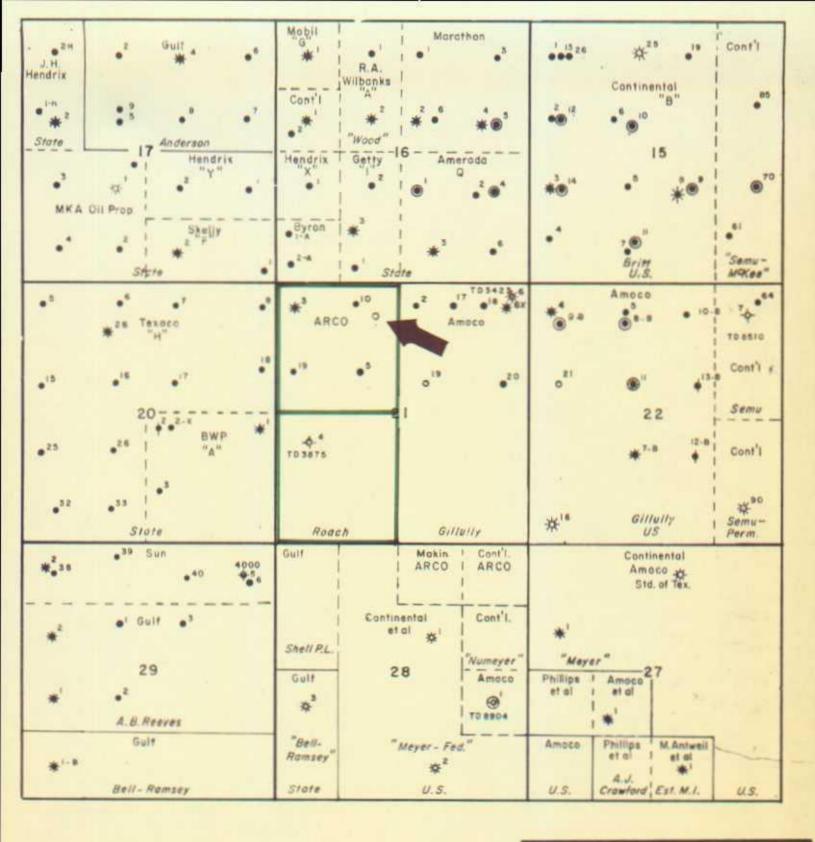
			on the outer boundaries of	THE PROPERTY.	The state of the s
ARCO OIL	ε GAS COMP	NAME OF TAXABLE PARTY.	William C. R	oach	Well No.
C C	Section 21	20 South	37 East	County	
Actual Footage Loc	ation of Wells		1000	Ver	
Ground Level Elev.	feet Imm the NC	orth line and	1980 fee	tom the Wes	Dedicated Acreages
3509.7	The second of the second	R Queen Gas	Eumont Gas		160 Acres
1. Outline th	e acreage dedicat	ted to the subject we	ll by colored pencil o	or hachure marks	on the plat below.
	an one lease is	dedicated to the well.	outline each and ide	entify the owners	hip thereof (both as to working
		Morent ownership is d	adicated to the well	have the interest	ts of all owners been consoli-
		nitization, force-pooling		nave me interes	is or all owners been consoli-
☐ Yes	No If an	swer is "yes!" type of	consolidation		
If answer	is "no." list the	owners and tract descr	intions which have a	ctually been cons	solidated. (Use reverse side of
this form i	f necessary.)				
					communitization, unitization, been approved by the Commis-
sion.	MILES IN CONTRACTOR IN CO.				
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330'7	180'			0.00	ed herein is true and complete to the raf my knowledge and belief.
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	+			None	JJ E Muse
			1	Positi	//
	i			Comp	erations Engineer
				AR	CO OIL & GAS
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					eraby certify that the well location
					wn on this plot was plotted from field as at actual surveys made by me or
			i		er my supervision, and that the same true and correct to the best of my
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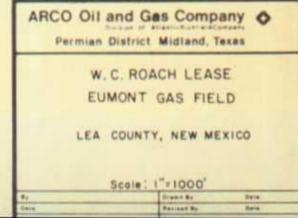
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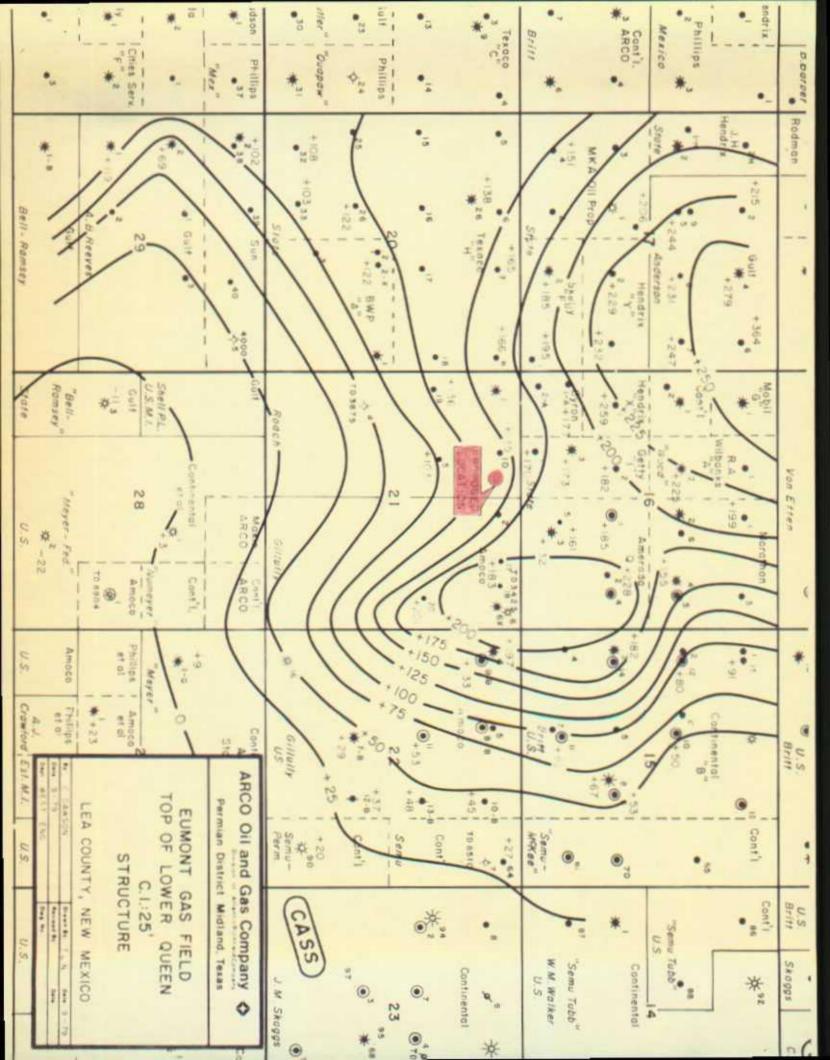
230 660 190 1920 1680 1980 2310 2640

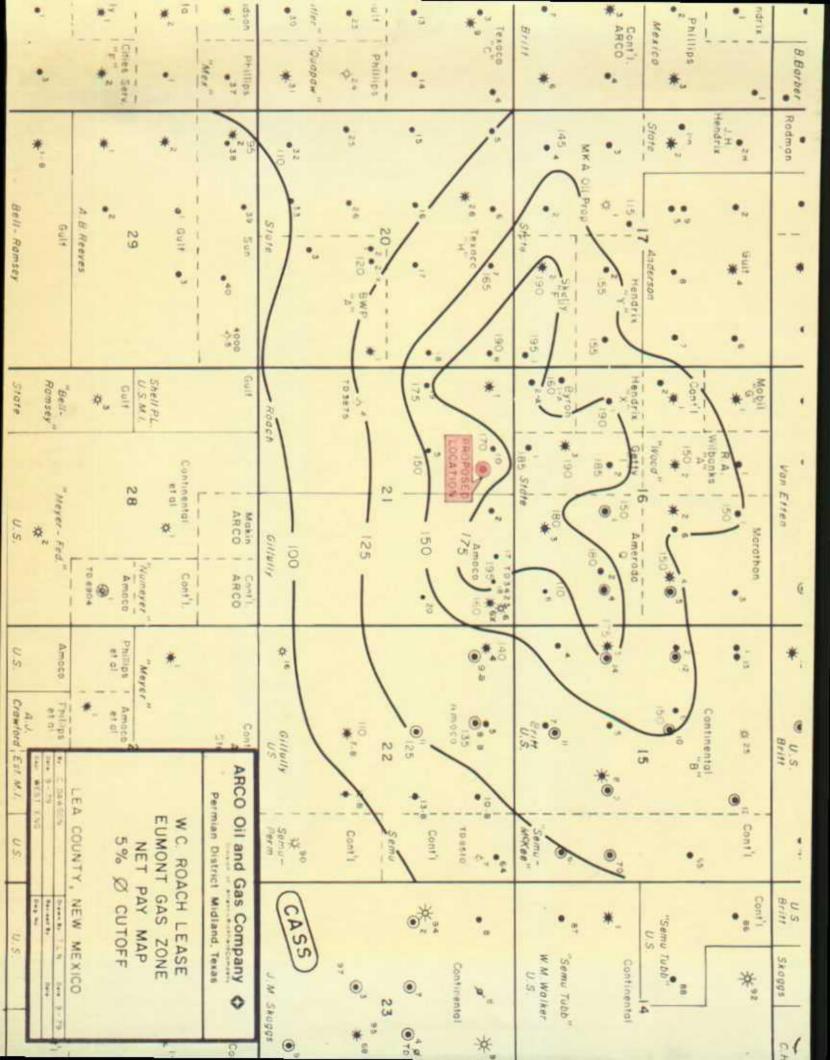
EUMONT GAS POOL W. C. ROACH NO. I Production vs. Allowable

	W. C. ROACH NO. I		EUMONT GAS NON- MARGINAL ALLOWABLE,	
	MCF	AF STATUS	160 Acres - MCF	
Oct., 1979	1999	2.0 M	28642	
Sept., 1979	1919	2.0 M	27443	
Aug., 1979	2212	2.0 M	27267	
July, 1979	2103	2.0 M	27267	
June, 1979	1944	2.0 M	25471	
May, 1979	1772	2.0 M	27078	
April, 1979	1805	2.0 M	28987	
March, 1979	2002	2.0 M	31267	
Feb., 1979	1915	2.0 M	28241	
Jan., 1979	1867	2.0 M	33266	
Dec., 1978	1842	2.0 M	33228	
Nov., 1978	1806	2.0 M	31159	



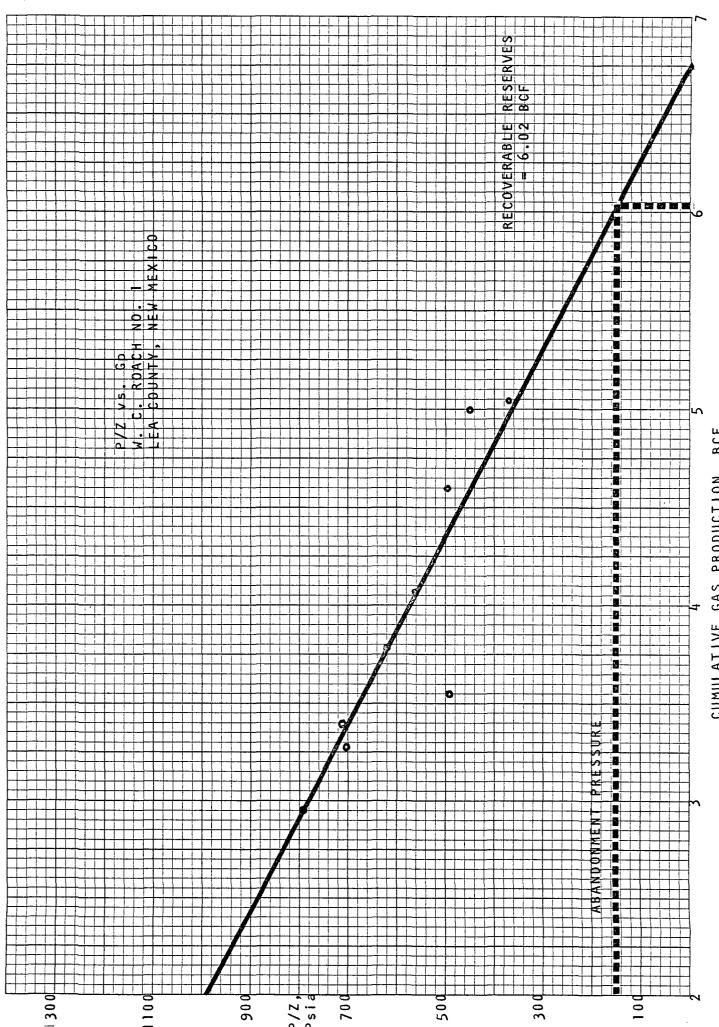






W. C. ROACH LEASE EUMONT GAS ZONE CALCULATION OF AVERAVE NET PAY

Isopach	Planimeter Area	Area, Acres
125 - 150 150 - 175 175 - 200	.010 .020 .013	38 74 48
	.043	160
160 acres = .043		
	V, acre - ft	
137.5 (38) 162.5 (75) 187.5 (48)	5225 12186 9000	
	26411	
26411 ac-ft = 165 ft 160 ac		



BCF GAS PRODUCTION, CUMULATIVE

RESERVE CALCULATIONS
W. C. ROACH NO. 1
160 Acre Proration Unit
(Eumont Gas)
2/2 Section 21-T20S-R37E
Lea County, NM

1. Calculation of Gas in Place by Volumetric Method

$$G = 43560 \times Vb \times \emptyset \times (1-Sw) \times Bgi$$

Where:

Therefore,

$$G = (43560)(26511)(.115)(1-.271)(119.69)$$
$$= 11.54 BCF$$

- * See attached isopach map and calculation
- ** Published in Oil & Gas Fields of Southeast New Mexico, 1956, by Roswell Geological Society

Page 2
Reserve Calculations
W. C. Roach No. 1
160 Acre Proration Unit
W/2 Section 21-T20S-R37E
Lea County, New Mexico

11. Calculation of Recoverable Gas on 160 acres

Assume Abandonment P/Z = 150 psia

$$G = 43560 \times Bv \times \emptyset \times (1 - Sw) \times (Bgi - Bga)$$

Where,

$$Bga = \frac{(35.35) (150)}{(.980)(554)}$$
$$= 9.77 \frac{SCF}{Cu.Ft.}$$

Therefore,

$$G = (43560)(26411)(.115)(1 - .271)(119.69 - 9.77)$$
$$= 10.60 BCF$$

- 111. Calculation of Unrecoverable Reserves 160 Acre Proration Unit Unrecoverable Reserves = Recoverable Reserves to P/Z of 150 psia
 - Economic Recovery from W. C. Roach No. 1 *
 - = 10.60 BCF 6.02 BCF
 - = 4.58 BCF
- * See attached P/Z graph and supporting data.

PRODUCTION HISTORY*
W. C. ROACH No.1
Sec. 21-T20S-R37E
Lea County, N.M.

DATE	BHP/Z	Cumulative Gas Production, MMCF
7-16-70	792	2947.4
7-12-71	706	3272.3
6-16-72	713	3395.2
10-15-72	491	3533.5
3-29-73	621	3783.8
3-1-74	564	4068.6
4-24-75	491	4592.6
5-17-76	451	4991.5
2-4-77	367	5031.9

^{*} Published in <u>Natural Gas Well Production Histories</u>, Gas Graph Report, by Dwight's, Dallas, Tx.

W. C. ROACH LEASE EUMONT GAS ZONE SUMMARY OF WELLS USED IN ISOPACH MAP

WELL & LEASE	LOCATION	OPERATOR	DATE COMPLETED	LOGS	NET PAY,FT
Britt B-15#3	1980 FSL, 330 FWL 15-T20S-R37E	Conoco	12-13-38	Lane Wells GR-NL 11-30-49 2300-3845'	175
Britt B #10	1980 FNL, 1980 FWL 15-T20S-R37E	Conoco	6-11-64	Frontier GR-NL 3-17-60 Surf-6947'	150
State #1	330 FSL, 1650 FWL 16-T20S-R37E	Getty	10-21-36	Western GR-NL 7-3-53 Surf-3835	185
State I#2	1980 FSL, 1980 FWL 16-T20S-R37E	Getty	3-20-37	Welex GR-NL 3-22-58 50-3811'	185
State I #3	990 FSL, 1650 FWL 16-T20S-R37E	Getty	1-11-56	McCullough GR-NL 12-30-55 Surf-3542'	190
State Q #1	1980 FSL, 2310 FEL 16-T20S-R37E	Amerada	6-13-37	Schlumberger GR-NL 5-31-59 Surf-6939'	150
State Q #2	1980 FSL, 990 FEL 16-T20S-R37E	Amerada	10-6-55	Lane Wells GR-NL 7-10-61 Surf-3834'	180
State Q #3	1980 FEL, 660 FSL 16-T20S-R37E	Amerada	8-22-51	Lane Wells GR-NL 7-1-51 Surf-3875'	180
State Q #6	660 FSL, 660 FEL 16-T20S-R37E	Amerada	10-13-75	Schlumberger CNL-FDC 9-24-75 Surf-5255'	110
State X #1	1980 FSL, 660 FWL 16-T20S-R37E	Amerada	5-6-37	Welex GR-NL 1-6-61 Surf-3834'	190

Page 2 Summary of Wells used in Isopach Map

			DATE		NET
WELL & LEASE	LOCATION	OPERATOR	COMPLETED	LOGS	PAY,FT
State GA #1	330 FWL, 990 FSL 16-T20S-R37E	W.K.Byrom	7-10-59	Schlumberger GR-NL 7-1-59 2180-3850'	160
Hansen State #1	660 FNL, 2310 FEL 16-T20S-R37E	Marathon	5-14-37	Welex GR-NL 10-8-54 50-3834'	150
Hansen State #4	1980 FNL,990 FEL 16-T20S-R37E	Continental	2-18-38	Western GR-NL 6-11-54 50-3845'	150
Wood A State #2	1980 FNL, 1650 FWL 16-T20S-R37E	Wilbanks & Rasmusse	3 - 22-37 n	Schlumberger GR-NL 4-4-57 2360-3802'	150
State F #1	330 FSL, 330 FEL 17-T20S-R37E	Skelly	8-20-36	Lane Wells GR-NL 11-19-55 Surf-3767'	195
State F #2	1980 FEL, 660 FSL 17-T20S-R37E	Skelly	3-20-37	Lane Wells GR-NL 6-7-56 Surf-3861'	190
State Y #1	1980 FSL, 660 FEL 17-T20S-R37E	Amerada	5-15-37	Schlumberger GR-NL 7-27-62 100-3794'	155
State Y #2	1980 FSL, 1980 FEL 17-T20S-R37E	Amerada	5-28-37	Lane Wells GR-NL I1-15-55 Surf-3808'	155
New Mexico State F #1	1980 FSL, 1980 FWL 17-T20S-R37E	MKA Oil Properties	2-26-37	Perf.Guns Atlas Corp GR-NL 6-15-52	115
New Mexico State F #4	660 FSL, 660 FWL 17-T20S-R37E	MKA Oil Properties	5-10-37	Surf.3845 Lane Wells GR-NL 8-3-54 Surf.3855'	145
Eunice Monument #7	660 FNL, 1980 FEL 20-T20S-R37E	Texaco	3-6-37	Lane Wells Gr-NL 10-31-50 Surf.3840'	165

Page 3 Summary of Wells used in Isopach Map

WELL & LEASE	LOCATION	<u>OPERATOR</u>	DATE COMPLETED	LOGS	NET PAY,FT
Eunice Monument Unit #8	330 FNL,330 FEL 20-T20S-R37E	Texaco	10-29-36	Lane Wells GR-NL 10-31-50 Surf-3840'	190
Eunice Monument Unit #32	660 FSL, 660 FWL 20-T20S-R37E	Texaco	8-14-37	Welex GR-NL 4-12-61 Surf-3848'	110
State A 20 #2-X	2100 FEL,2310 FSL 20-T20S-R37E	B.W.P.INC.	11-28-58	Welex GR-NL 7-10-58 2500-3817'	120
Eunice Monument Unit #10	330 FNL,1650 FWL 21-T20S-R37E	Texaco	12-12-36	McCullough GR-NL 6-21-54 Surf-3833'	170
Eunice Monument Unit #19	1650 FNL,330 FWL 21-T20S-R37E	Texaco	9-27-54	McCullough GR-NL 9-12-54 Surf-3854'	175
W.C.Roach #5	1650 FNL, 330 FWL 21-T20S-R37E	ARCO	5-21-73	Schlumberger NPL 5-12-73 Surf-3801'	150
Gilluly B#6X	330 FNL,660 FEL 21-T20S-R37E	Pan Ameri- can	2-12-40	Schlumberger GR-NL 3-30-54 Surf-3835'	160
Gilluly B#17	660 FNL,1650 FEL 21-T20S-R37E	Amoco	5-16-78	Schlumberger CNL-FDC 3-26-78 1250-6701	195
Gilluly B#4	330 FNL,330 FWL 22-T20S-R37E	Pan Ameri- can	6-1-39	Lane Wells GR-NL 3-5-54 Surf-3834'	140
Gilluly B#7	1980 FSL, 1980 FWL 22-T20S-R37E	Pan Ameri- can	3-29-56	Welex GR-NL 1-1-56 3310-3519	110

ary of Wells used in Isopach Map

L & LEASE	LOCATION	OPERATOR	DATE COMPLETED	LOGS	PAY,FT
luly B #8	660 FNL, 1980 FEL 22-T20S-R37E	Pan Ameri- can	10-4-52	Pan.Geo. Atlas Corp GR-NL_LL 9-11-62 Surf-6603	135
luly B #11	1980 FNL, 1980 FWL 22-T20S-R37E	Pan Ameri- .can	4 - 24 - 64	Pan Geo. Atlas Corp GR-AL 11-18-63 200-6818'	125