	OIL CONSERVATION DIVISION P. O. Box 2088	ADMINT	STRATIVE ORDER
STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	SANTA FE, NEW MEXICO 87501	•	37
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an a	DRILLING FINDING	ТТО	•
SECTION 271.305 COMMISSION REGULA	DRILLING FINDINGS PURSUAN (b) OF THE FEDERAL ENERGY TIONS, NATURAL GAS POLICY	REGULATORY ACT OF 1978	
	VATION DIVISION ORDER NO.		
I.			·
Operator Amerada Hess Corpor	ration Well Name and No.		1 No. 6
Location: Unit <u>C</u> Sec. <u>1</u> Twp.		· · · · · · · · · · · · · · · · · · ·	
II.		· · · · · · · · · · · · · · · · · · ·	
THE DIVISION FINDS:			Ч
(1) That Section 271.305(b) of the F pursuant to the Natural Gas Policy Ac as a new onshore production well under infill well is necessary to effective by the proration unit which cannot be	t'of 1978 provides that, or Section 103 of said Act and efficiently drain so drained by any existing	in order for an infill , the Division must fir a portion of the reserving well within that un	well to qualify nd that the voir covered it.
(2) That by Order No. R-6013-A, date procedure whereby the Division Direct Division and find that an infill well	or and the Division Exami:	ivision established an ners are empowered to	administrative act for the
(3) That the well for which a finding	-	in theEumont Gas	3
Pool, and the standard	spacing unit in said pool	1 is 640	acres.
(4) That a 118 -acre pr	oration unit comprising	Lots 3, 5	5 and 6
of Sec. 1 , Twp. 21-5 , Rn	ig. 35-E , is current:	ly dedicated to the	State WE "B"
Well No. 3 locate	d in Unit of s	aid section.	·· ·
(5) That this proration unit is () approved by Order No. NSP-1182			unit was previously
(6) That said proration unit is not	being effectively and eff.	iciently drained by the	e existing
well(s) on the unit.	of the	findine in	14
(7) That the drilling and completion the production of an additional			
the production of an additional		· · · ·	
(8) That all the requirements of Ord for which a finding is sought is nece reservoir covered by said proration us unit.	essary to effectively and on the so drawn of t	efficiently drain a post ained by any existing v	rtion of the well within the
(9) That in order to permit effective application should be approved.	e and efficient drainage	of said proration unit	, the subject
IT IS THEREFORE ORDERED:			• •
(1) That the applicant is hereby aut infill well on the existing proration for infill drilling granted by this o	n unit described in Section order is necessary to perm	on II(4) above. The aut nit the drainage of a po	thorization ortion of the
reservoir covered by said proration u any existing well thereon.	which cannot be effec	and erriciently	DY
(2) That jurisdiction of this causeDivision may deem necessary.	is retained for the entry	of such further order.	s as the
DONE at Santa Fe, New Mexico, on this	12th day of Man	rch , 19 82	
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· · · ·		L DRILLING FINDINGS PURSUA D5(b) OF THE FEDERAL ENERG		
	COMMISSION REGU	LATIONS, NATURAL GAS POLIC	Y ACT OF 1978	
•	AND OIL CONSE	RVATION DIVISION ORDER NO.	R-6013-A	
I.	`````			
Operator	Amerada Hess Corp	oration.Well Name and No.	<u>State WE "B" Wel</u>	L No. 6
Location:	Unit_CSec1Tw			
II.				
THE DIVIS	ION FINDS:			
pursuant as a new infill we	Section 271.305(b) of the to the Natural Gas Policy A onshore production well un ll is necessary to effective oration unit which cannot b	Act of 1978 provides that, der Section 103 of said Ac vely and efficiently drain	in order for an infill t, the Division must fin a portion of the reserv	well to qualify d that the oir covered
procedure	by Order No. R-6013-A, da whereby the Division Dire and find that an infill we	tor and the Division Exam		
	the well for which a find.	-	in the Eumont Gas	
		rd spacing unit in said po		acres.
(4) That	a <u>118</u> -acre			
of Sec.	<u>1</u> , Twp . <u>21-S</u> ,	ang. 35-E is curren	tly dedicated to the	State WF "B"
The sector	lell No. 3 loca		caid sostion	
(7) That the produc	n the unit. the drilling and completion ction of an additional be recovered.			
for which	all the requirements of O: a finding is sought is nec covered by said proration	essary to effectively and	efficiently drain a por	tion of the
	in order to permit effect: on should be approved.	ive and efficient drainage	of said proration unit,	the subject
IT IS THE	REFORE ORDERED:			· · · ·
(1) That infill we for infil reservoir any exist	the applicant is hereby a ll on the existing proration l drilling granted by this covered by said proration ing well thereon.	on unit described in Secti order is necessary to per unit which cannot be effe	on II(4) above. The aut mit the drainage of a po ctively and efficiently	horization rtion of the drained by
Division	jurisdiction of this cause may deem necessary.			as the
DONE at S	anta Fe, New Mexico, on th	is <u>12th</u> day of <u>Ma</u>	arch 19 82	·
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		DIVISION DIRECTOR	X EXAMINER	
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ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

July 9, 1984

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

U.S. Department of Energy Federal Energy Regulatory Commission 825 North Capitol Washington, D.C. 20426

Attention: Brooks Carter

RE: N.G.P.A. Section 103 Determination Amerada Gess Corporation State WE "F" Well No. 4,located in Unit K F.E.R.C. No. JD 81-4831 A.P.I. No. 30-025-26549 State WE "B" Well No. 6 Located in Unit C F.E.R.C. No. JD 81-4833 API No. 30-025-26548 Both Wells in Section 1, Township 21 South Range 35 East, N.M.P.M., Lea County, New Mexico.

Dear Mr. Carter:

It was called to my attention recently by Mr. Bob Jones with Amerada Hess Corporation, that a letter dated December 10, 1980 from Mr. Kenneth A. Williams of your office (see attachment) requesting additional information on the two subject wells was not answered. I am therefore submitting to your attention, copies of the approved Infill-Well Findings for the two subject wells.

I appoligize for the delay and for any inconvenience this might have caused. If additional information is required, please contact me.

Sincerely

MICHAEL E. STOGNER Petroleum Engineer

CC: Amerada Hess Corporation P.O. Box 2040 Tulsa, Oklahoma 74102

Attn: Bob Jones

AMERADA HESS CORPORATION

June 25, 1984

P. O. BOX 2040 TULSA, OKLAHOMA 74102 918-599-4200

JUL 5 1984

IL EIVED

Mr. Michael Stogner New Mexico Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 97501

Re: NGPA Section 103 Well Determination Applications: State WE "F" 4 (JD 81-4831) State WE "B" 6 (JD 81-4833)

Dear Mr. Stogner:

In accordance with your request by telephone on June 25, 1984, enclosed is one (1) copy of a letter dated December 10, 1980 from the FERC to your office regarding a request for additional information on the above referenced wells.

You stated during said telephone conversation that you have located a commission order which approves the infill drilling of the State WE "F" #4 and State WE "B" #6 wells. Please send me a copy of said orders.

I would appreciate your early compliance with the FERC request for information dated December 10, 1980.

Thank you for your assistance.

Very truly yours,

AMERADA HESS CORPORATION

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Bob Jones Sr. Gas Sales Representative

RMJ:dd Enclosure

cc: Mr. Keith Butler

Federal Energy Regulatory Commission 825 North Capitol Street N.E. Washington D.C. 20426 Attn: Mr. Brooks Carter

Vi Copy M. Adamson

FEDERAL ENERGY REGULATORY COMMISSION

WASHINGTON 20426

DEC 1 0 1980

IN REPLY REFER TO:

OPPR/NGPA/N860A

Mr. Joe D. Ramey
Director, State of
New Mexico
Energy and Minerals
Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 97501

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Re:

Determination of Maximum Lawful Price Under NGPA Section 103 for: Amerada Hess Corporation State WE "F" 4 FERC No. JD81-4831 API No. 30-025-26549 State WE "B" 6 FERC No. JD81-4833 API No. 30-025-26548

Dear Mr. Ramey:

On November 5, 1980, the Commission received your notices of determination that the above-referenced wells qualified as new onshore production wells pursuant to Section 103 of the NGPA.

In each application supporting the referenced determinations, Amerada Hess Corporation has indicated that the subject well is the second well in a proration unit, and has submitted a request for a finding that the subject well is necessary to effectively and efficiently drain the respective unit. Neither determination contains such a finding by your agency.

Section 271.305(d) of the Commission regulations as promulgated by Order No. 43-A, issued on November 16, 1979, establishes a rebuttable presumption, for the purposes of Section 103(c)(3)(C) of the NGPA, that a well has not produced and is not capable of producing natural gas in commercial quantities on or after January 1, 1970, if it was plugged and abandoned prior to January 1, 1970, and has not produced natural gas on or after that date. In all other cases, when the subject well is the second well in a proration unit, the jurisdictional agency must make a finding (in accordance with Section 271.305(b) of the regulations) that the well was necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which could not be effectively and efficiently drained by any existing well within the proration unit. Such a finding was not included with the determinations in this case, and therefore they are incomplete. Sections 271.305(b)(1) and 274.204(f) of the regulations require that such a finding must be based on appropriate geological and engineering data and that such data must be included in the notice of determination submitted to the Commission.

Pursuant to Section 274.104(a)(6), we request that your agency furnish us with an explanatory statement, including the appropriate factual findings, which would provide sufficient information to ascertain the basis for determining that the subject wells qualify under Section 103. Alternatively, an effective and efficient finding by your agency may be submitted pursuant to Section 271.305 of the regulations.

The 45-day period for Commission review will not commence until either an explanatory statement or an effective and efficient finding is received.

Very truly yours,

where for

Kenneth A. WIlliams Director Office of Pipeline and Producer Regulation

cc: Amerada Hess Corporation P. O. Box 2040 Tulsa, Oklahoma 74102

> El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

NERGY AND MINUHALD DEPARTMENT , SANTA FE, NEW MUXICO 87501	SA. Indicate Type of Louise
PRICE CEILING CATEGORY DETERMINATION	S. State Otl & Gas Leuse Na
•FOR DIVISION USE ONLY: • (E COMPLETE APPLICATION FILED 9/12/80	E -393
DATE DETERMINATION MADE 10/20/80	
NAS APPLICATION CONTESTED? YES NO	7. Unit Agreement hame
HAME(S) OF INTERVENOR(S), IF ANY:	State WE "F" 8. Form of Lease Name
《建設》後後後建築業業業業業業業業業業業 業業業業業業業業業業業業業業業業業業業業業業業	State WE "F"
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Address of Operator	10. Field und Pool, or Wildow
Location of Well	Eumont
UNIT LETTER LOCATED J420 FEET FROM THE NOTED LIN	Lea
no 1980 PEET FROM THE WEST LINE OF SEC. 1 (TWP. 215 PEE. 35E HMP. 1. Name and Address of Purchaser(s)	<u> </u>
El Paso Natural Gas Company, P. O. Box 1492, El Paso, Texas 79978	· · · · · · · · · · · · · · · · · · ·
WELL CATEGORY INFORMATION	···· ·
Check appropriate box for category sought and information submitted.	DALIVED
1. Category(les) Sought (By NGPA Section No.) <u>103</u>	RECEIVED
2. All Applications must contain:	SEP 1 5 1980
X a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK	Oli Danas Calastina
▲ 6. C-105 WELL COMPLETION OR RECOMPLETION REPORT	Of Conservation
C. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111	
X d. AFFIDAVITS OF HAILING OR DELIVERY	
3. In addition to the above, all applications must contain the items requir applicable rule of the Division's "Special Rules for Applications For We Price Celling Category Determinations", as follows:	ed by the llhead
A. NEW NATURAL GAS UNDER SEC. 102(c)(1)(B) (using 2.5 Hile or 1000 Feet	Deeper Test)
All items required by Rule 14(1) and/or Rule 14(2)	
B. NEW NATURAL GAS UNDER SEC. 102(c)(1)(C) (new onshore reservoir)	. ^ ^ ·
All items required by Rule 15	CEIVED CEIVED
C. HEW ONSHORE PRODUCTION WELL	CE, 1980
D. DEEP, HIGH-COST NATURAL GAS and TIGHT FORMATION NATURAL GAS	CT1210
[7] All items required by Rule 17(1) or Rule 17(2)	A CONTENTION
E. STRIPPER WELL NATURAL GAS	N CONTROL
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form 6-132 OIL CONSLIGY ALL IS DIVISION 6 7-15-80 SA. Indicate Type of Lotte SANTA FE. NEW MEXICO 87501 arare X STATE OF NEW MEXICO APPLICATION FOR WELLHEAD 3. Siale Oll & Gas Louse No. PRICE CEILING CATEGORY DETERMINATION GY NO MITTALS DEPARTMENT E-392 9 FUR DIVISION USE ONLY: 7. Unit Agreement tiame DA COMPLETE APPLICATION FILED q0% 8. Farm of Lesse Name 10/1882 / 01 DATE DETERMINATION MADE State WE "B" NO HAS APPLICATION CONTESTED? YES NAME(S) OF INTERVENOR(S). IF ANY: 9. Well No. 10. Field and Pool, or Wildcal Eumont Yates, 7R Queen At hume of Contratory of the state of the state of the Address of Operators 1200 Milam Street, 6th Floor, Houston, Texas 77002 Amerada lless Corporation 12. County North J. Address of Operator Lea 35E 215 Rise and Address of Purchaster(s) 4. Location of Well ... wit LETTER El Paso Natural Gas Company, P. O. Box 1492, El Paso, Texas 79978 Check appropriate box for category sought and information submitted 3. 1. Category(les) Sought (By NGPA Section No.) A. C-101 APPLICATION FOR PERNIT TO ORILL. DEEPEN OR PLUG BACK 2. All Applications must contains ET 6. C-105 WELL COMPLETION OR RECOMPLETION REPORT C. DIRECTIONAL DRILLING SURVEY. IF REQUIRED UNDER RULE 111 In addition to the above, all applications must contain the items required by the IN d. AFFIDAVITS OF HAILING OR DELIVERY NEW NATURAL GAS UNDER SEC. 102(c)(1)(B) (using 2.5 Mile or 1000 Feet Deeper Test) Price Ceiling Category Determinations mas follows: All items required by Rule 14(1) and/or Rule 14(2) RECEIVED NEW NATURAL GAS UNDER SEC. 102(c)(1)(C) (new onshore reservoir) OCT 1 2 1980 All items required by Rule 15 C. NEW ONSHORE PRODUCTION WELL DI Conservation IN All items required by Rule 16A or Rule 16B DEEP. HIGH-COST NATURAL GAS and TIGHT FORMATION NATURAL GAS All items required by Rule 17(1) or Rule 17(2) ECEIVEI STRIPPER WELL NATURAL GAS FOR DIVISION USE ONLY All flems required by Retalla ٤. EP 1 1980 I HEREBY CERTIFY THAT THE INFORMATION CONTAINS RVATION HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY The information contained herein includes all LEANDING SEproved OIL 09 of the information required to be filed by the KNOWLEDGE AND BELIEF. appl-1cant under Subpart B of Part 274 of the HAPE ST APPLIN ONT SType or Print) FERC regulations STGNATURE OF APPETCANT Vice President TILle 4-11-80

	OIL CONSERVATION DIVISION P. O. Box 2088	., .	ISTRATIVE ORDER
STATE OF NEW MEXICO	SANTA FE, NEW MEXICO 87501	NFL	37
			· · · · · · · · · · · · · · · · · · ·
SECTION 271.30 COMMISSION REGUL	DRILLING FINDINGS PURSUANT 5(b) OF THE FEDERAL ENERGY ATIONS, NATURAL GAS POLICY VATION DIVISION ORDER NO. R	REGULATORY Act of 1978	•
1.	e e e e e e e e e e e e e e e e e e e		
Operator Amerada Hess Corpo	ration.	State WE "B" We	11 No. 6
Location: Unit C Sec. 1 Twp	<u>21-5</u> Rng. <u>35-</u> E	Cty. Lea	1
THE DIVISION FINDS:			
(1) That Section 271.305(b) of the 1 pursuant to the Natural Gas Policy A as a new onshore production well und infill well is necessary to effective by the proration unit which cannot be	ct of 1978 provides that, in er Section 103 of said Act, ely and efficiently drain a e so drained by any existing	n order for an infill the Division must fiportion of the resen g well within that un	l well to qualify ind that the rvoir covered nit.
(2) That by Order No. R-6013-A, data procedure whereby the Division Direc Division and find that an infill wel	tor and the Division Examine 1 is necessary.	ers are empowered to	act for the
(3) That the well for which a finding	ng is sought is completed in	n the Eumont Ga	<u>S</u>
Pool, and the standar	d spacing unit in said pool	, is <u>640</u>	acres.
(4) That a <u>118</u> -acre p	roration unit comprising 🔬	Lots 3,	5 and 6
of Sec. 1 , Twp. 21-5 , R Well No. 3 locate	ng. <u>35-t</u> , is currently	y dedicated to the _	State WE "B"
 approved by Order No. <u>NSP-1182</u>. (6) That said proration unit is not well(s) on the unit. (7) That the drilling and completion the production of an additional <u>otherwise</u> be recovered. (8) That all the requirements of Order which a finding is sought is nece reservoir covered by said proration mit. (9) That in order to permit effective application should be approved. 	n of the well for which a f <u>1,670</u> MCF of gas from der No. R-6013-A have been of essary to effectively and es- unit which cannot be so drawn	inding is sought show m the proration unit complied with, and th fficiently drain a po ined by any existing	uld result in which would not hat the well ortion of the well within the
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IT IS THEREFORE ORDERED: (1) That the applicant is hereby au infill well on the existing proration for infill drilling granted by this reservoir covered by said proration any existing well thereon. (2) That jurisdiction of this cause Division may deem necessary.	n unit described in Section order is necessary to permi unit which cannot be effect	II(4) above. The average of a price of a pri	uthorization portion of the y drained by
DONE at Santa Fe, New Mexico, on thi	s <u>12th</u> day of <u>Mar</u>	ch , 19 82	•
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OIL CONSERVATION DIVISION	
P. O. BOX 2088 STATE OF NEW MEXICO 34	
ENERGY AND MINERALS DEPARTMENT	:
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INFILL DRILLING FINDINGS 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-A	
	2.1
OperatorAMERADA HESS CORPORATION well Name and No. State WE "F" Well No. 4	т
Uperator Millingh Meli Name and No. State WL 1 Well No. 4	•
Location: Unit K Sec. 1 Twp. 21-5 Rng. 35-E Cty. Lea	
THE DIVISION FINDS:	
(1) That Section 271.305(b) of the Federal Energy Regulatory Commission 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 that the infill 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.	
(2) That by Order No. R-6013-A, dated February 8, 1980, 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) That the well for which a finding is sought is completed in the <u>Eumont Gas</u>	
Pool, and the standard spacing unit in said pool is640acres.	
(4) That a 160 -acre proration unit comprising the SW/4	
of Sec, Twp, Rng, is currently dedicated to the <u>State WE "F"</u>	
<u>Well No. 1</u> located in Unit <u>N</u> of said section.	•
(5) That this proration unit is () standard (X) nonstandard; if nonstandard, said unit was previous	1.
approved by Order No. NSP-1181	-1
(6) That said proration unit is not being effectively and efficiently drained by the existing	
well(s) on the unit.	
(7) That the drilling and completion of the well for which a finding is sought should result in	:
the production of an additional 3,350 MCF of gas from the proration unit which would not	
otherwise be recovered.	
(8) That all the requirements of Order No. R-6013-A have been complied with, and that 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	÷.
wit.	۰.
(9) That in order to permit effective and efficient drainage of said proration unit, the subject	
application should be approved.	
IT IS THEREFORE ORDERED:	
(1) That the applicant is hereby authorized to drill the well described in Section I above as an	
infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order 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) 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 this 12th day of March , 19 82	
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DIVISION DIRECTOR EXAMINER	

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AMERADA HESS CORPORATION

P. D. BOX 2040 A. OKLAHOMA 74102 918-584-5554

New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Re:

Request for Administrative NGPA infill well finding, State WE "B" Well No. 6, Eumont Gas Pool, Lea County.

Attn: Mr. R. L. Stamets Technical Support Chief

Gentlemen:

The Amerada Hess Corporation respectfully requests that an administrative finding be made under the Oil Conservation Division Order R-6013 that the drilling of the AHC State WE "B" No. 6 infill well was necessary to effectively and efficiently drain a portion of the Eumont Gas Pool (Yates, Seven Rivers and Queen formations) covered by a proration unit which cannot be drained by any existing well within the unit.

The following data is submitted to comply with the filing requirements of the order:

- (Rule 5.) A copy of the approved Form C-101 for the infill well and 1. Form C-102 showing the proration unit dedicated to the infill well is attached.
- 2. (Rule 6.) The standard proration unit size for the Eumont Gas Pool is 640 acres as designated by Order R-521, dated August 12, 1954, succeeded by Order R-1670.

(Rule 7.) The non-standard proration unit dedicated to the subject 3. well was approved by Division Order NSP-1182, dated April 4, 1980.

SEP 1. There are two see, or have been complete First well is as follows: SEP 1. THE ALL SEC. (Rule 8.) There are two wells drilled on this proration unit that te, or have been completed in the Eumont Gas Pool. The data on the

The State WE "B" Well No. 3, located 1980' FNL and 1980' FWL Sec. 1-21S-35E, Lea County.

Spud date: August 1, 1954.

Completion date: August 21, 1954.

The Eumont Gas zone is the annular completion of an oil zone-gas d. zone dually completed well, producing through the 3-1/2" tubing and 7" casing annular area. This completion has been a low volume producer throughout the history of the well.

e.,f. The well produced an average of 26 Mcf/day during June, 1980. The well-head pressure of the State WE "B" No. 3 has declined g : to near the gathering system pressure and the well is incapable of draining all of the reserves covered by this proration unit. The geological and reservoir data discussion that follows the data information on Well No. 6 indicates that Well No. 3 will be capable of effectively and efficiently draining only 1.15 Bcf of the estimated 2.82 Bcf of recoverable gas underlying this proration unit.

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The data on the second (infill) well completed in the Eumont Gas Pool on this proration unit is as follows:

- а. The State WE "B" No. 6, located 780' FNL and 1980' FWL Sec. 1-21S-35E, Lea County.
- Spud date: January 12, 1980. Ъ.
- c. Completion date: February 26, 1980.
- d. This well was completed by the open hole method using gas as the drilling fluid. A comparison of the permeability-thickness (kh) calculations at initial conditions on both wells on the unit indicate a higher value for the infill Well No. 6. This higher value may be due to the open hole completion method resulting in a higher permeability and/or additional productive stringers contributing to the production in the new well.
- e.,f. Well No. 6 has been shut-in since completion waiting on the recent sales line connection. The well has a shut-in tubing pressure of 624 psi and an indicated open flow potential of 441 Mcf/day.
 - g. It is apparent from a projection of the producing history of the first well in this proration unit that only 1.15 Bcf of the total calculated recoverable 2.82 Bcf underlying the unit can be produced by that well before the flowing pressure declines to the sales line pressure. The higher shut-in pressure and better permeability encountered in Well No. 6 indicates that it has the potential of producing the calculated 1.67 Bcf of gas remaining under the unit. In addition, Well No. 6 is approximately 30' higher on structure than Well No. 3 and in a more advantageous location to drain the remaining reserves underlying the unit.

5. (Rule 9.) Geological and reservoir information presented in support of a finding as to the necessity for an infill well includes:

а. A Yates formation structure map with the subject proration unit

SEP 15 100 well on the proration unit. This increase was determined from well on the proration unit. This increase was determined from the difference of the volumetric calculation of the recoverable gas reserves contained in this 118 acre proration unit and the estimated ultimate reserves that can be recoverable 3, described as follows:

1. One accepted method of reserve determination for a volumetric (depletion-type) gas reservoir is the application of the principle of conservation of mass in the standard material balance equation:

-2-

$$G_{1} = Q_{t} \frac{(P_{1}/Z_{1})}{P_{1}/Z_{1} - P_{t}/Z_{t}}$$

The solution of this equation at any time, t, and cumulative gas production, Qt, will result in a single value for original gas in place, G_i. Values for G_i derived from calculations at different times may be averaged to determine an average value of the original gas in place.

A more convenient expression of the equation is:

 $P_t/Z_t = P_i/Z_i - CQ_t$, where $C = \frac{(P_i/Z_i)}{G_i}$

A indicated by the equation, a graph on coordinate paper of BHP/Z vs cumulative gas production will yield a linear plot. Extrapolation of a best fitting straight line to a zero value of P_t/Z_t will determine the gas-in-place in the reservoir. Recoverable gas would be a fraction of this amount as dictated by the abandonment pressure.

The Eumont Gas Pool has performed as a depletion-type reservoir as is demonstrated by the linear plot of P/Z vs cumulative production on Well No. 3 included in the attached. As this decline indicates no departure from its established trend, it can be assumed that the drainage volume of the well has remained constant and it is reasonable to expect it will not change in the short remaining life of the well. An extrapolation of the trend to the abandonment pressure of 75 psi dictated by the sales line pressure in the area indicates the well could have recovered an ultimate 1.15 Bcf of gas before the well was unable to flow into the sales line.

2. A volumetric calculation of the recoverable gas reserves contained in this 118 acre proration unit is included in the attached. The calculations yields an estimation of 2.82 Bcf for the unit which is 1.67 Bcf more than the above estimated ultimate gas recovery from Well No. 3.

c. A cummulative production/pressure decline curve for Well No. 3 is attached.

d! Calculations for initial recoverable gas and permeability-thickness calculations for Well No. 3 and Well No. 6 are also attached.

6. (Rule 11.) All operators of proration units offsetting the unit for which this infill finding to count the last SEP 15 198 which cation SEP 15 198 OIL CONSCRVATION DIVISION which this infill finding is sought has been notified of this application by certified mail.

Thank You, Amerada Hess Corporation

Gilbert E. Miller Conservation Supervisor

GEM: ds

Reserve Calculations State WE "B" Well No. 3 160-Acre Proration Unit

Initial recoverable gas in unit, G₁:

 $G_i = 43560 \text{ A h } \emptyset (1 - SW) Bg_i R$ = 43560 (118)(64)(.156)(1 - .271)(83.66)(.9) = 2.82 Bcf

Where:

Area (a) = 118 acres Net pay thickness (h) = 64' average Porosity (\emptyset) = 15.6% Water Saturation (SW) = 27.1% Initial reservoir pressure = 1100 psi Gas gravity = .65 Formation temperature = 100°F Initial compressibility factor (Z_1) = .83 Recovery efficiency (R) = 90% Reservoir volume factor (Bg_1) = 83.66 scf/ft³

from: $Bg_{i} = 35.35 \frac{P_{i}}{Z_{i} T_{i}}$

 $= 35.35 \frac{1100}{.83(560)} = 83.66$



Permeability Calculations State WE "B" Well No. 3 Eumont Field, Lea County

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$
$$1.080 = .687 \left[\frac{1210}{1158} \right]^n$$

1

AOF = 1.08 MMcfdQ = .687 MMcfd $P_c = 1100 \text{ psi}$ $P_w = 228 \text{ psi}$ data from 1954 test 5

2.
$$Q = C(P_c^2 - P_w^2)^n$$

C = 1.484 X 10⁻³

3. (a)
$$Q = \frac{C\pi \ kh \ (P_c^2 - P_w^2) \ T_h}{\mu \ P_b \ \ln\left(\frac{re}{rw}\right) \ T_f \ Z}$$

$$T_{b} = 60^{\circ}F = 520 R$$

$$\mu = 0.01$$

$$P_{b} = 15.025$$

$$\ln \frac{re}{rw} = \frac{1320}{.292} = 8.416$$

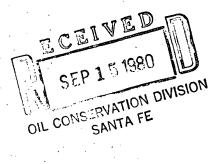
$$T_{f} = 568 R$$

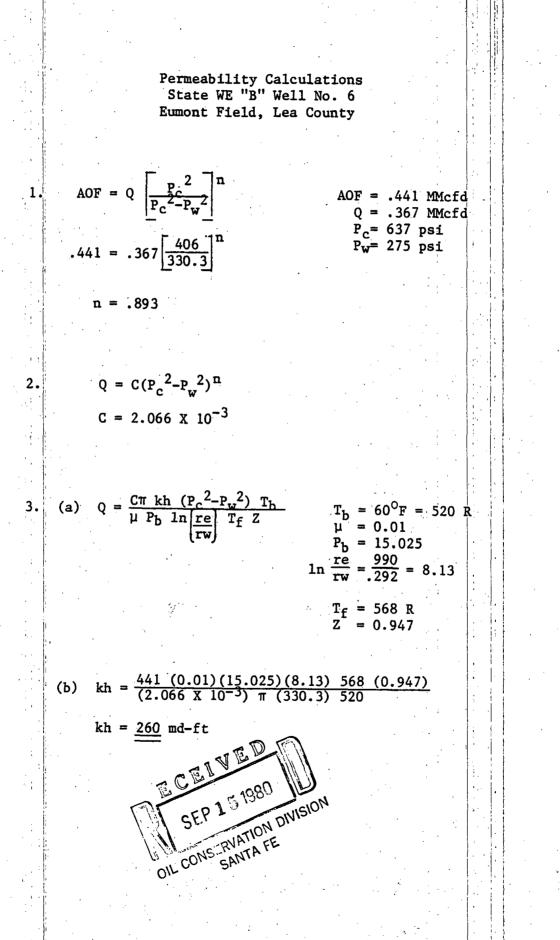
$$Z = 0.947$$

ENO

b) kh =
$$\frac{687 \ (0.01) \ (15.025) \ (8.416) \ 568 \ (0.947)}{1.484 \ X \ 10^{-3} \ (\pi) \ (1158) \ (520)}$$

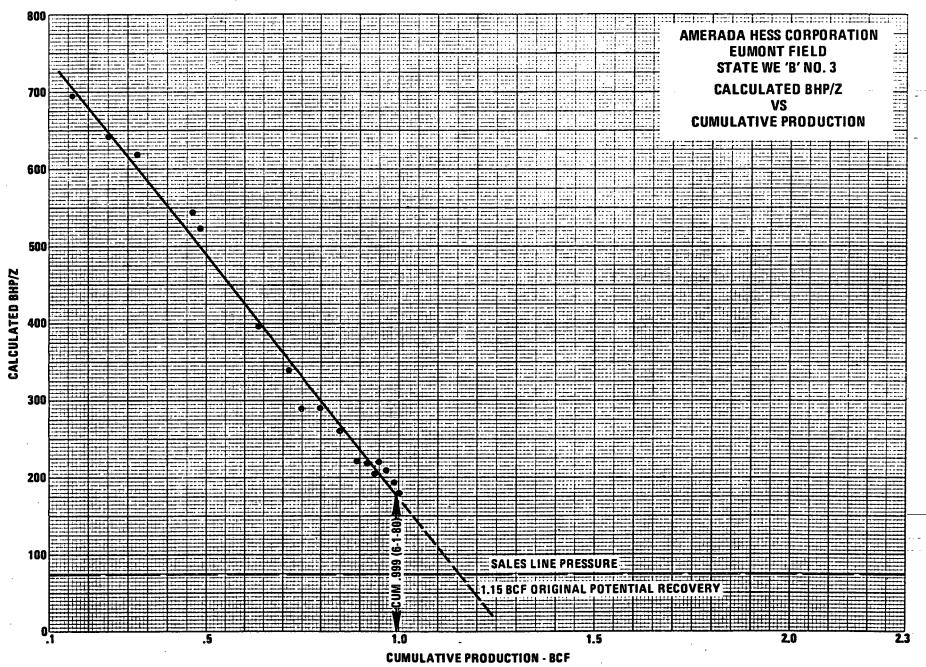
kh = 166 md-ft



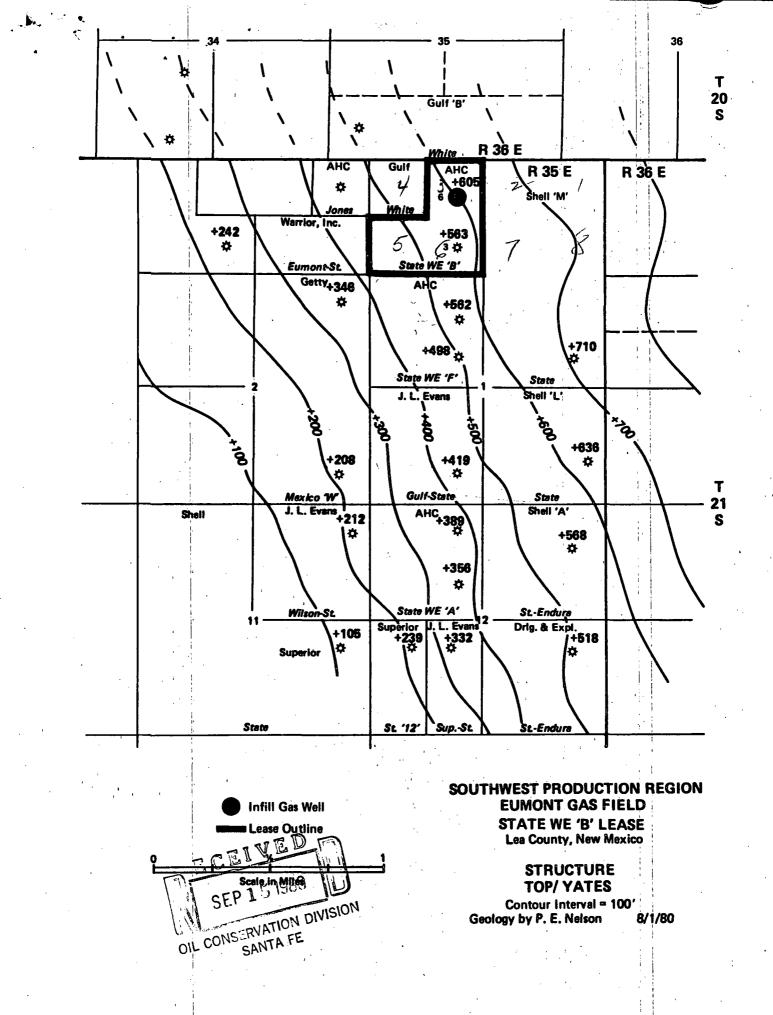


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ADDRESSES OF OFFSET OPERATORS STATE WE"B"

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Gulf Exploration and Production Co. Box 670 Hobbs, New Mexico 88240

Getty Oil Co. Box 730 Hobbs, New Mexico 88240

Shell Oil Co. Box 1509 Midland, Texas 79702

Warrior, Inc. Box 17479 Ft. Worth, Texas 76102

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