STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

Bradley H. Keyes and Margaret N.

OIL CONSERVATION DIVISION P. O. Box 2088 SANTA FE, NEW MEXICO 87501

ADMINISTRATIVE	ORDER
NFL 110	

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DIVISION DIPECTOR EXAMINER

INFILL DRILLING FINDINGS 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

_ ·	·							
Operator	eyes, Tru	stees		Well Name a	nd No	Ransom W	ell No. 1-	-M
Location:	Unit_O	Sec. <u>13</u>	_Twp.29North	ang. 11 West	Cty	San Jua	a	······································
II. THE DIVISI	ON FINDS:							
promulgate well to qu find, prio efficientl	ed pursuant alify as a creat to the control of the	to the Natu new onshore ommencement portion of t	the Federal Er iral Gas Policy production we of drilling, t the reservoir of thin that unit,	Act of 1978 ell under Sectionat the well covered by the	provide tion 103 is nece prorat	s that, ir of said A ssary to e ion unit w	order for act, the Di effectively which canno	an infill vision must and t be so
procedure	whereby th	e Division D	dated June 7, 1 Director and th l well is neces	ne Division E				
(3) That			inding is soug			_		
(4) That			the standard s proration uni				. 60	acres
of Sec		o. <u>29N</u> ,	Rng. 11W	, is current.	ly dedic	at ed to th	e applican	t's Ransom
(5) That previously	this prorat	ion unit is by Order No.	X) standard	l () nonstar	ndard; i	f nonstand	ard, said	ınit was
(6) That well(s) on	said prorat	ion unit is	not being eff	ectively and	efficie	ntly drain	ed by the	existing
the produc	the drilling tion of an be recovere	additional	etion of the w	ell for which MCF of gas i	n a find from the	ing is sou proration	ght should unit which	result in would not
for which	a finding i	s sought is	f Order No. R- necessary to ion unit which	effectively a	and effic	ciently dr	ain a porti	ion of the
(9) That application pool.	in order to on should be	permit eff approved a	fective and eff as an exception	icient draina to the stand	age of s	aid prorat 1 spacing	ion unit, requiremen	the subject ts for the
	EFORE ORDE				•			
infill wel for infill and is neo	l on the extension of the control of	kisting pror granted by t permit the d	oy authorized to the cation unit described in a cate of a part of	cribed in Sec in exception (portion of the	ction II to applic e reserv	(4) above. cable well oir covere	The authors spacing red d by said	orization equirements
Division a	ису доеш пе с	гевату.	cause is retair					
DONE at Sa	inta Ee, No	v Mexico, or	this 15th	day_of	Januar	у	, in <u>86</u>	_·

OIL CONSERVATION DIVISION P. O. Box 2088 SANTA FE NEW MEXICO 87501

Received 11/25/85 h

ADMINISTRATIVE ORDER 110

INFILL DRILLING FINDINGS 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

I. Nevs Trusters
Operator Bradley H. Keys and Margaret N. Keys, Trusters Well Name and No. Ranson Well No. 1-M
Location: Unit O Sec. 13 Twp. 29 Nortang. 11 West Cty. San Juan
II.
THE DIVISION FINDS:
(1) That 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) That by 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) That the well for which a finding is sought is to be completed in the <u>Mater Fruitland</u> Pool, and the standard spacing unit in said pool isacres
(4) That a 160 —acre proration unit comprising the SE/4 of Sec. 13, Twp. 29N, Rng. 11W, is currently dedicated to the applicant's Ranso Well No. 1 located in Unit I of said section.
(5) That this proration unit is (1) standard (1) nonstandard; if nonstandard, said unit was previously approved by Order No.
(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 50,000 MCF of gas from the proration unit which would not otherwise be recovered.
(8) That all the requirements of Order No. R-6013 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 unit.
(9) That 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:
(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 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) 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 thisday of, 19
DIVICION DIRECTOR EVANINED

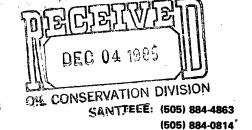
Note: See Downhole

STATE OF NEW MEXICO

I.

ENERGY AND MINERALS DEPARTMENT

P. O. BOX 36990 **ALBUQUERQUE, NEW MEXICO 87176**



REALTOR **CERTIFIED PUBLIC ACCOUNTANT** MANANA GAS, INC. PRESIDENT

November 25, 1985

Elliott A. Riggs P.O. Box 711 Farmington, New Mexico 87401

CERTIFIED MAIL

Re: Application for Approval for In-Fill Well

Ransom #1-M 0-13-29N-11W

Dear Gentlemen and Lady:

Enclosed is application for approval of the Ransom #1-M, in-fill insofar as it pertains to the Fruitland formation only. This has been completed as a commingled Farmington-Fruitland gas well. There is no other Farmington well in this quarter section so no in-fill approval is needed for that formation.

Please execute one copy of the waiver below and forward it to the New Mexico Oil Conservation Division if you have no objection to this application.

Your assistance in this matter is very much appreciated.

Yours very truly,

Ed Hart Ed Hartman

Agent for the B.H. and M.N. Keyes Trust

Cys to: Horace F. McKay, Jr., Petroleum Corporation of Texas, Elliott A. Riggs,

Getty Oil Company and Helen Loraine Harvey

EMH/nh

Oil Conservation Division

P.O. Box 2088

Santa Fe, N.M.

87501

We, as offset operator, do hereby y

Ву

Title

Owner

Date

<u> 19</u>8 November 17

Ed Hartman P. O. BOX 36990 ALBUQUERQUE, NEW MEXICO 87176

REALTOR
CERTIFIED PUBLIC ACCOUNTANT
MANANA GAS, INC.
PRESIDENT

November 25, 1985

TELE: (505) 884-4863

NOV 27 1935

CONSERVATION DIVISION

EDNIA FE

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

Attn: Mr. Michael E. Stogner:

Re: Application for Approval of In-Fill Well Ransom # 1-M (Fruitland Formation only) 0-13-29N-11W

0-13-23N-11

Gentlemen:

This is to confirm our conversation of today.

We estimate that the additional gas to be recovered from the Fruitland formation in the new in-fill Ransom # 1-M gas well is 50,000 MCF.

We are mailing copies of the in-fill well application to all offset operators today. They are being sent out by certified mail.

Your assistance in this matter is very much appreciated.

Very truly yours

Ed Hartman, Agent for

B.H. and M.N. Keyes Trust

EMH/nh

CC; Bradley Keyes

The Keyes



BRADLEY and MARGARET

AZTEC NEW MEXICO 87410

Taxation should never be used either to reward or punish.

Au by OCP N/25/85

November 22, 1985

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

Application for Approval of an In-Fill well

Ransom #1-M 0-13-29N-11W

San Juan County, New Mexico

Gentlemen:

With regard to your request for additional information on our previous application for a Section 103 well head price on our Ransom #1-M, dated September 30, 1985, the following additional information is herein submitted.

As requested, enclosed is our application for your approval of our in-fill well called the Ranson #1-M, which has been completed in the Fruitland and Farmington formations. The original well which is being operated in the SE_{k}^{1} of Section 13-29N-11W is our Ransom #1 and is producing from the Fruitland and Pictured Cliffs formations.

This application is being made for your approval of the in-fill well as it pertains to the Fruitland formation only.

Your favorable consideration to our request would be very much appreciated.

Very truly yours,

Bradley H. Keyes, Trustee

Bradley N Keyer In

B.H. and M.N. Keyes Trust

Encls.



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 627-5800

BRADLEY H. KEYES & MARGARET KEYES Trustees 103 North Main St. Aztec, New Mexico 87410

INFORMATION.

RE: Well head price ceiling determination, NGPA of 1978

Gentlemen:

The New Mexico Oil Conservation Division has received your application for a wellhead price ceiling category determination under the sections(s) of the Natural Gas Policy Act of 1978 indicated below if your application is incomplete, forms are attached hereto, indicating the documents and further information which must be filed before your application can be considered. If your application is complete, it will be acted upon administratively unless written objection is received within 15 days of its filing.

WELL NAME AND LOCATION	13-29N-11W	Ransom	#1-M-O	(Aztec Fruithand)	
SECTION(S) APPLIED FOR	1(03			
DATE APPLICATION RECEIVED	00	tober 3, 19	85		
for the Agre Prutand formate the Bloomfull Farmington for production appears to be from	two sub one for two shee been an existing	or the Alsom approved; h provahin s	fift Farmi www.r, th met didicit	igton formation I lighte Frankland and to your Well St	
in Unit I; therfore, these file for Onfill Well Finding Surmand & DATE: <u>November 4, 1985</u> NOTE:	to R-6013 A,	attached.	Mukar	Hogner	

THIS FORM LETTER MUST ACCOMPANY TWO COPTES OF THE SUPPLEMENTARY

- RULE 1. For purposes of this administrative procedure only, the following definitions are adopted:
 - Infill well: An additional well which has been drilled for production on an established proration unit.

B. APPLICABILITY

RULE 2. These special rules and regulations shall apply to effective and efficient drainage findings for completed infill wells pursuant to Section 271.305 of the final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978. (These special rules and regulations do not apply to infill wells drilled in the Blanco Messaverde or Basin-Dakota Pools. Infill wells in these two pools are covered by Rule 15 B of the "Special Rules for Applications for Wellhead Price Ceiling Category Determinations" promulgated by Division Order Mo. R-5878 as amended by Order No. R-5878-A.)

C. JUSTIPICATION FOR PINDINGS

- RULE 3. The Division Director or a Division Examiner may find that an infill well is necessary:
 - a. upon a showing by the operator that an additional well is needed 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
 - b. upon receipt of waivers from all offset operators, or if no offset operator has entered an objection to the infill finding within 20 days after receipt of the application by the Director.
- RULE 4. The Director may set any application for hearing at his discretion or at the request of an applicant.

Exhibit A Order R-6013-A

D. . PILING REQUIRMENTS

104

101- FIL

- RULB 5. Each applicant shall submit a copy of the approved Form C-101 for the infill well and Form C-102 showing the promation unit dedicated.
- RULE 6. Applicant shall give the name of the pool in which the infill well has been drilled and the standard spacing unit size therefor.
- RULE 7. If applicable, the applicant shall give the number of the Division order approving the non-standard proration unit dedicated to the well.
- RULE 8. The applicant shall submit a description of all wells drilled on the proration unit (including the completed infill well) which are or have been completed in the same pool or reservoir as the proposed infill well showing:
 - a. lease name and well locations
 - b. spud date;
 - o. completion date
 - a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
 - e. the current rate of production/ and
 - . f. date of plug and abandonment, if any:
 - g. a clear and concise statement indicating why the existing well(s) on the proration cannot effectively and efficiently drain the portion of the reservoir covered by the proration unit.
- RULE 9. The applicant shall submit geological and engineering information sufficient to support a finding as to the necessity for an infill well including:
 - a. formation structure map
 - b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined
 - any other supporting data which the applicant deems to be relevant which may include:
 - porosity and permeability factors
 - (2) production/pressure decline curves
 - (3) effects of secondary recovery or pressure maintenance operations -
- RULE 10. Applications for infill findings shall be filed in duplicate with the Santa Fe office of the Division.
- RULE 11. All operators of proration or spacing units offsetting the unit for which an infill finding is sought shall be notified of the application by certified or registered mail, and the application shall state that such notification has been given

Ransom # 1-M (Fruitland Formation)

Detailed Information Supporting Application For In-Fill Well

The following information is submitted in support of our application for the approval of our Ransom # 1-M (Fruitland) gas well:

- Rule 5: Forms C-101 and C-102 are attached.
- Rule 6: The well is located in the Aztec Fruitland pool which has a standard 160 acre spacing.
- Rule 7: Not applicable
- Rule 8: The original Ransom # 1 was completed and is producing from the Fruitland and from the Pictured Cliffs formations.
 - a. It is called the Ransom # 1 and is located 1850 feet from the South line and 790 feet from the East line of Section 13-29N-11W.
 - b. It was spudded on December 15, 1954.
 - c. It was completed on January 2, 1955.
 - d. It has been commingled and production is reported as 1/4th from the Fruitland formation and 3/4ths from the Pictured Cliffs formation.
 - e. This well has produced from the Fruitland formation as follows: (MCF) Per

•	<u>Total</u>	Day
Year 1984	754	2
Cumulative to 12/31/84	86,019	8
10 months ended 10/31/85	733	2

- f. This well is still producing.
- g. This well was completed by shooting it with 245 quarts of nitroglycerin. The new well has been fraced and should drain the areas which the old well treatment did not reach.
- Rule 9: The new well was drilled to the Pictured Cliffs formation and was perforated and treated in the Pictured Cliffs and Fruitland formations. It would not produce due to excessive amount of formation water. It was plugged back to the Fruitland formation and additional perforations were made in the Farmington sand. It is ready to produce with a down-hole comingling of the two formations. It was tested on 9/20/85 with a 288 Mcfpd AOF. A detailed data sheet is attached.
- Rule 11: Offset operators are being notified of this application.

		NEW	MEXICO OIL CON	SERVATION COM	MISSION		Form C-101	
TAFE			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Revised 1-1-6	5
LE	4-4					ļ		Type of Lease
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OPERATOR .	+						.s. sidia OII	G Gus Lease No.
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b. Type of Well				aa. = ===			8. Farm or L	
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•							9. Well No.	
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AND 2435 PEET FROM	тне Еа	st Line	or sec. 13	TWP. 29N R	ge. 11	W NMPM		
					IIII		12, County	
					77777		San Ju	an /////
	HHH	11111	444444	19. Proposed Dep		A. Formation		20. Rotary or C.T.
				2000'	- 4			s Rotary
21. Elevations (Show whether DF,	RT. etc.)	21A. Kind	S Status Plug. Bond	V		recure		. Date Work will st
2435		Blank		Lee Wilso				vember 7,
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	ו אינו						1	Curtaga
/ 3 //								Surface Surface
4 3/4	2.7/	8	6.5	1970		200		Surface Surface
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CONDITIONS OF APPROVAL, IF ANY

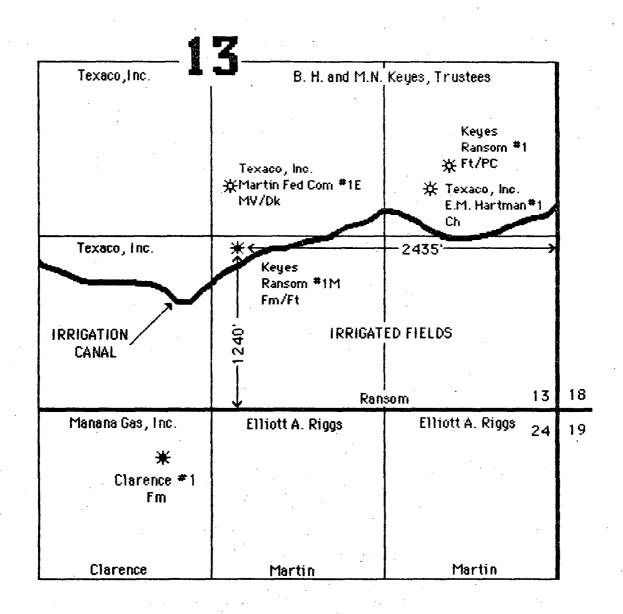
STATE OF NEW MEXICO P. O. UOX 2048 Form C-107 IGY MO MINERALS DEPARTMENT SANTA FE. NEW MEXICO 87501 perata Well No. ANANA GAS. INCORPORATED RANSOM 114 nit Letter Section Range Township County 29N 11W San Juan stud Footage Location of Wells 2435 240 South East feet from the line and feet from the Producing FormationFruitland round Level Elevi Dedicated Acreages Aztec 581 160 / 160 Pictured Cliffs Aztec 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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). 3, If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolideted by communitization, unitization, force-pooling. etc?] Yes If answer is "yes," type of consolidation _ 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name Position Vice President Inc. Manana Gas, Date 10/22/80 Sec. 13 I hereby certify that the well location shown on this plat was platted from field notes of octual surveys mode by me or under my supervision, and that the same 0#1 true and correct to the best of my knowledge and belief. 24351 Octo

Scale: 1"-1000

FORM 24-

OWNERSHIP & TOPOGRAPHIC PLAT

SURROUNDING SW/4SE/4 13-T29N-R11W



LEGEND:

Fm = Farmington Completion
Ft = Fruitland Completion
PC = Pictured Cliffs Completion
Ch = Chacra Completion
MV = Mesaverde Completion
Dk = Dakota Completion

DATA SHEET

Operator:

Bradley H. and Margaret N. Keyes, Trustees

Well:

Ransom #1M

Location:

1240' FSL 2435' FEL 13-T29N-R11W

Pools:

(Shallow)

Bloomfield Farmington Oil Pool

(Deep)

Aztec Fruitland Gas Pool

County:

San Juan

Perfs:

Farmington

-896 to 906 (20 holes) & 1128 to 1141 (26 holes)

Fruitland

1615 to 1627 (24 holes)

TOTAL

70 holes

Tops:

Kirtland

508

Fruitland

1510".

Pictured Cliffs 1890'

I.P. Test

Date = 9/20/85

SICP = 368 psig / 8 daysSITP = 368 psig / 8 days

Choke = 0.75"

Q = 263 Mcfpd

AOF = 288 Mcfpd

Proposed production split:

Farmington:

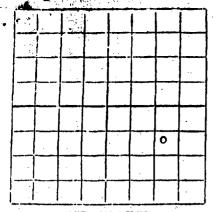
46 ÷ 70 = .6571 use 65%

Fruitland:

24 ÷ 70 = .3429 use 35%

9/23/85

STATE OF NEW MEXICO JERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION -0. 0/ 60-165 06661760 Sa. Indicate Type of Lease DISTRIBUTION P. O. BOX 2088 State Fee 🔯 SANTA FE SANTA FE, NEW MEXICO 87501 5. Sigle Oil 6 Gas Lease No FILE U.S.G.S. WELL COMPLETION OR RECOMPLETION REPORT AND LOG LAND OFFICE OPERATOR TYPE OF WELL 7. Unit Agreement Name 8, Form or Lease Name . TYPE OF COMPLETION Ransom 01175 J. Well No. Name of Operator Bradley H. Keyes and Margaret N. Keyes, Trustees 1-M 10. Field and Pool, or Wildcat 103 North Main Street, Aztec, New Mexico 87410 2435 1240 PEET FROM THE South <u>1</u>1W 29N LINE OF SEC. RGE. San Date Spudded 15. Date T.D. Reached 17. Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) 19. Elev. Cashinghead 12/3/80 12/8/80 9/11/85 5581 GL 22. If Multiple Compl., How 21. Plug Back T.D. Total Depth 23. Intervals Drilled By Rotary Tools Cable Tools 1940' 1670' 0-1940' none Producing Interval(s), of this completion - Top, Bottom, Name 25. Was Directional Surve Farmington - 1128-1141 and 896-906 Fruitland - 1615-1627 Type Electric and Other Logs Run 27. Was Well Cored Induction-Electric and Density Neutron No CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT LB./FT. DEPTH SET CEMENTING RECORD HOLE SIZE AMOUNT PULLED 65 sax 122 .625 1937 875 250 sax 6.5 LINER RECORD TUBING RECORD 30. BOTTOM DEPTH SET SIZE SACKS CEMENT SIZE TOP SCREEN PACKER SET 25 1615 none Perforation Record (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 1615-27 1128-41 896-906 615-1627 Sand-Foam fractured with All 2 shots per foot 22.000# 19-20 Sand and foam on 6/14/83 No treatment on upper zone PRODUCTION Well Status (Prod. or Shur-in) e First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Not Connected Hows Tested Choke Size OII - Bbl. Gas - MCF Water - Bbl. Gas - Oil Ratto Test Period 9/20/85 Casing Pressure Calculated 24-Hour Rate OU - Bbl. Gas - MCF Oil Gravity - API (Corr.) Tubing Press. 109 10 288 AOF Disposition of Gas (Sold, used for fuel, vented, etc., Test Witnessed By T. Evans List of Attochments #1 M RANSOM I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge (NEW WELL)



NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission, Submit in QUINTUPLICATE,

If State Land submit 6 Copies

AREA 640 ACRES
LOCATE WELL CORRECTLY

Marshall Drilling Com (Company or Operator)	pany	***************************************	Rancon
	•		•
Well No. 1 , in IEE % of SE			
Aztec	Pool,San	Juan	
Well : 1350 feet from South			
of Section	Oil and Gas Lease No. is	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Drilling Commenced 12/15			
Name of Drilling Contractor	rilling Company		·
Address			***************************************
Elevation above sea level at Top of Tubing Head5			
, 19,		* .	
	oil sands on zones	•	
No. 1, from 1890 £t to 1942.		······································	121413
No. 2, fromto			"Aller mys
No. 3, fromto			" AUG 1 2 1933
No. 2, from	mportant water sands	•	OIL CON CONT. 3
Include data on rate of water inflow and elevation to	which water rose in hole.	•	
No. 1, from		feet	

The Keyes

BRADLEY and MARGARET

AZTEC, NEW MEXICO 87410

Taxation should never be used either to reward or punish.

November 22, 1985

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

Re: Application for Approval of an In-Fill well Ransom #1-M 0-13-29N-11W San Juan County, New Mexico

Gentlemen:

With regard to your request for additional information on our previous application for a Section 103 well head price on our Ransom #1-M, dated September 30, 1985, the following additional information is herein submitted.

As requested, enclosed is our application for your approval of our in-fill well called the Ranson #1-M, which has been completed in the Fruitland and Farmington formations. The original well which is being operated in the SE½ of Section 13-29N-11W is our Ransom #1 and is producing from the Fruitland and Pictured Cliffs formations.

This application is being made for your approval of the in-fill well as it pertains to the Fruitland formation only.

Your favorable consideration to our request would be very much appreciated.

Very truly yours,

Bradley H. Keyes, Trustee B.H. and M.N. Keyes Trust

Bradley N Keyer Fr

Encls.

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA

BRADLEY H. KEYES & MARGARET KEYES Trustees 103 North Main St. Aztec, New Mexico 87410 POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87501 (505) 627-5800

RE: Well head price ceiling determination, NGPA of

1978

Gentlemen:

INFORMATION.

The New Mexico Oil Conservation Division has received your application for a wellhead price ceiling category determination under the sections(s) of the Natural Gas Policy Act of 1978 indicated below if your application is incomplete, forms are attached hereto, indicating the documents and further information which must be filed before your application can be considered. If your application is complete, it will be acted upon administratively unless written objection is received within 15 days of its filing.

WELL NA	ME AND	LOCATION	13-29N-11W	Ransom	#1-M-O	(Aztec Fruithand)
SECTION	(S) AP	PLIED FOR	10)3		
DATE AF	PLICAT	ION RECEIVED	. 00	tober 3, 198	85	
for the the Blo product in shill Onfelt	Agtic Pro omfalil fuor appear I; therefore Vell Find	ultand formati Farmington for	for mid one of two here been an existing	or the Palcom, appured; he provahion u	high Farm owever, the sur studied	ylerate addhesturis, one infor formation, a lighe Fruitband and to your Well St.
NOTE:		•		•		

THIS FORM LETTER MUST ACCOMPANY TWO COPIES OF THE SUPPLEMENTARY

NATURAL CAS POLICY ACT INFILL FINDINGS
ADMINISTRATIVE PROCEDURE
(Amended February 8, 1980)

A. DEFINITIONS

- RULE 1. For purposes of this administrative procedure only, the following definitions are adopted:
- . Infill well: An additional well which has been drilled for production on an established pro-

B. APPLICABILITY

RULE 2.

These special rules and regulations shall apply to effective and efficient drainage findings for completed infill walls pursuant to Section 271.305 of the final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978. (These special rules and regulations do not apply to infill wells are listed at lilled in the Blanco Mesaverde or Basin-Dakota Pools. Infill wells in these two pools are covered by Rule 15 B of the "Special Rules for Applications for Wallhead Price Calling Category Determinations" Promulgated by Division Order No. R-5878 as amended by Order No. R-5878 A.

. JUSTIFICATION FOR FINDINGS

- RULE 3. The Division Director or a Division Examiner may find that an infill well is necessary:
- tions a showing by the operator that an additional well is needed 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
- b. upon receipt of walvers from all offset operators, or if no offset operator has entered an objection to the infill finding within 20 days after receipt of the application by the Director.
- RULE 4. The Director may set any application for hearing at his discretion or at the request of an applicant.

Exhibit A Order R-6013-A

D. PILING REQUIRMENTS

- NULE 5. Each applicant shall submit a copy of the approved form C-101 for the infill well and form C-101 showing the protection unit dedicated.
- RULE 6. Applicant shall give the name of the pool in which the the infill well has been drilled and the standard specing unit size therefor.
- AULS 7. If applicable, the applicant shall give the number of the Division order approving the non-standard proration unit dedicated to the well.
- MULE 8. The applicant shall submit a description of all wells drilled on the proration unit (including the completed infill well) which are or have been completed in the same pool or reservoir as the proposed infill well showing:
- . a. lease name and well locations
- Tb. spud date;
- " G. completion dates
- f. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
-). the current rate of productions and
- f. date of plug and abandonment, if any;
- g. a clear and concise statement indicating why the existing well(s) on the proration cannot effectively and efficiently drain the portion of the reservoir covered by the proration unit.
- MULE 9. The applicant shall submit geological and engineering information sufficient to support a finding as to the processity for an infill well including:
- i. formation structure map
- b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined
- . any other supporting data which the applicant deems to be relevant which may include:
- 1) porosity and permeability factors
- 2) production/pressure decline curves
- (3) effects of secondary recovery or pressure maintenance operations.

Applications for infill findings shall be filled in duplicate with the Santa Fe office of the Division.

RULE 11. All operators of proration or spacing units offsetting the unit for which an infill finding is sought shall be notified of the application by certified or registered mail, and the application shall state that such notification has been given.

101- F

Ransom # 1-M (Fruitland Formation)

Detailed Information Supporting Application For In-Fill Well

The following information is submitted in support of our application for the approval of our Ransom # 1-M (Fruitland) gas well:

- Rule 5: Forms C-101 and C-102 are attached.
- Rule 6: The well is located in the Aztec Fruitland pool which has a standard 160 acre spacing.
- Rule 7: Not applicable
- Rule 8: The original Ransom # 1 was completed and is producing from the Fruitland and from the Pictured Cliffs formations.
 - a. It is called the Ransom # 1 and is located 1850 feet from the South line and 790 feet from the East line of Section 13-29N-11W.
 - b. It was spudded on December 15, 1954.
 - c. It was completed on January 2, 1955.
 - d. It has been commingled and production is reported as 1/4th from the Fruitland formation and 3/4ths from the Pictured Cliffs formation.
 - e. This well has produced from the Fruitland formation as follows: (MCF)

 Per

	<u>Total</u>	Day
Year 1984	754	2
Cumulative to 12/31/84	86,019	8
10 months ended 10/31/85	733	2

- f. This well is still producing.
- g. This well was completed by shooting it with 245 quarts of nitroglycerin. The new well has been fraced and should drain the areas which the old well treatment did not reach.
- Rule 9: The new well was drilled to the Pictured Cliffs formation and was perforated and treated in the Pictured Cliffs and Fruitland formations. It would not produce due to excessive amount of formation water. It was plugged back to the Fruitland formation and additional perforations were made in the Farmington sand. It is ready to produce with a down-hole comingling of the two formations. It was tested on 9/20/85 with a 288 Mcfpd AOF. A detailed data sheet is attached.
- Rule 11: Offset operators are being notified of this application.

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OPIES RECEIVED		-				•		
STRIBUTION		NEW	MEXICO OIL CONS	ERVATION CO	MMISSION	1	Form C-101	
A FE		•					Revised 1-1-6	
J.S.G.S.							SA. Indicate	Type of Lease
LAND OFFICE	- 							& Gas Lease No.
OPERATOR					•			2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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b. Type of Well	1			SINGLE [. Mills		8. Farm or L	
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21. Elevations (Show whether DI	RT. etc.)	21A. Kind	& Status Plug. Bond	21B. Drilling Co		TCCUIC		. Date Work will start
2435	·	Blank	tet	Lee Wils				vember 7,]
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SIZE OF HOLE	SIZE OF		WEIGHT PER FOO	·		SACKS OF	CEMENT	EST. TOP
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4 3/4	2 7/	R	6.5	1970		200		Surface
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igned	N. P. C.C.	VE	_ TuleVICE	Presiden			Date	, - , 50
(This space for	State Use)							,
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				•				

CONDITIONS OF APPROVAL, IF ANY:

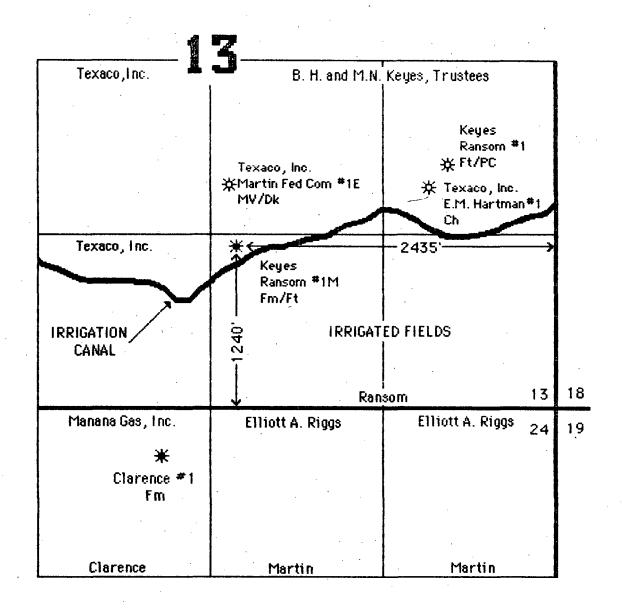
O. UOX 2044

FORM 24

GY MO MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 ness must be from the cuter houndaries of the perator Well No. Legae ANANA GAS, INCORPORATED RANSOM 1M nit Letter Section Township Range County 29N 13 11W San Juan stud Footage Location of Wells 2435 2Ц0 South East feet from the line and feet from the Producing FormationFruitland round Level Elev: Pool Aztec Dedicated Acreages 581 160 / 160 Pictured Cliffs 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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). 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? No If answer is "yes," type of consolidation, If snewer 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. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name Position Vice President Company Manana Gas, Inc. Date 10/22/80 Sec. 13 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 0#1 is true and correct to the best of my knowledge and belief. 2L351 Date Surveyed Scale: 1"=1000'

OWNERSHIP & TOPOGRAPHIC PLAT

SURROUNDING SW/4SE/4 13-T29N-R11W



LEGEND:

Fm = Farmington Completion
Ft = Fruitland Completion
PC = Pictured Cliffs Completion
Ch = Chacra Completion
MY = Mesaverde Completion
Dk = Dakota Completion

DATA SHEET

Operator:

Bradley H. and Margaret N. Keyes, Trustees .

Well:

Ransom #1M.

Location:

1240' FSL 2435' FEL 13-T29N-R11W

Pools:

(Shallow)

Bloomfield Farmington Dil Pool

(Deep)

Aztec Fruitland Gas Pool

County:

San Juan

Perfs:

Farmington

896 to 906 (20 holes) & 1128 to 1141 (26 holes)

Fruitland

1615 to 1627 (24 holes)

TOTAL

70 holes

Tops:

Kirtland

508

Fruitland

1510

Pictured Cliffs 1890'

I.P. Test

Date = 9/20/85

SICP = 368 psig /8 days SITP = 368 psig /8 days

Choke = 0.75"

Q = 263 Mcfpd

AOF = 288 Mcfpd

Proposed production split:

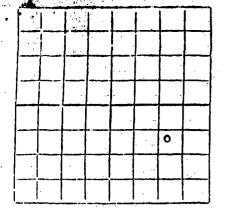
Farmington:

46 ÷ 70 = .6571 use 65%

Fruitland:

24 ÷ 70 = .3429 use 35%

	OIL WELL OCEPEN Seyes and in Street 13 TW	SAI ELL COMPLE SAI ELUC ACCE MELL ACCE MATGATE et, Aztec	TION OR R DIFF. ACCOUNT	ECOMP	088 EXICO 8	7501	ND LOG	State Off 6	ease Name
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103 North Management of Well LETTER O East Line of Sec. Oute Spudded 16.	in Stree	et, Aztec		yes,				3. Well No.	
103 North Management of Well LETTER O East Line of Sec. Oute Spudded 16.	in Stree	et, Aztec			Truste	es			1-M
East LINE OF DEC.	13 TW		, New M		~~~~~~~~			10. Fleid and	Pool, or Wildcat
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East Line of sec.	13 tw	240	•						
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2/3/80 .	12/8/80	9,	/11/85		}	5581 0	3L	Í	
Total Depth	l , ,	Back T.D.	22. II M	ultipie Co	ompl., How	23. Intervo	is Rotar	y Tools	, Cable Tools
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Type Electric and Other	Logs Run		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 			 		27, Wa	s Well Cared .
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Tubing Press. Co	109								
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Tubing Press. Co	944	, vented, etc.)	·				τ	Evans	
Tubing Press. Co	i, used for fuel						RANS	Evans #1	'-M
Tubing Press. Co	i, used for fuel		s of this form	is true an	d complete	to the best of	RANS	Evans #1	'-M



NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

If State Land submit 6 Copies

AREA 640 ACRES LOCATE WELL CORRECTLY

Narshal	1 Drilling Com	oany		Rancon
((Company or Operator)	ha kar kar dii na k a a gaaran oo ka ka saada ah ka	(Losse)	**************************************
Well No. 1	, in IIE 4 of SE		т29, і	R. 11.,
Aztec		Pool,San	Juan	
Well i 1350	feet from South	line and790	feet from.,	Eastline
of Section	If State Land the	Oil and Gas Lease No. is	500 FT - 044 644 644 644 644 644 644 644 644 644	***************************************
Drilling Commenced. 12	/15	, 1954. Drilling was Comp	oleted	
Name of Drilling Contracto	Marshall Dr	illing Company	······································	*
	,	-		
Elevation above sca level at	Top of Tubing Head5.3	BQ Th	e information given is	to be kept confidential until
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		OIL SANDS OR ZONES	: ™	The state of the s
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			// _*	2111
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		IL ORIANI WAXIM SANDS	*	OL DIST. 3
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No. 2, from	to.			
No. 3, from	to.		feet	

TEXAC

To_ From

Please

□ Attend to

to files

Note and return

☐ See (phone) me

re attached

Note and forward

ų.	. Date	
_		
	Prepare reply for my signature	As requested For your comments
	Send me information required to answer	and suggestions Does attached meet
ш	For your information	with your approval?

☐ For signature

Mail 6 MM. O.1 Conservation Div.

As per conversation

☐ Telephone message

P.O. BOX 2088 Santa Fe NM 8 7501 Hartman WFL-110

Ld Hartman P.O. BOX 36990

REALTOR
CERTIFIED PUBLIC ACCOUNTANT
MANANA GAS, INC.
PRESIDENT

P.O. BOX 36990
ALBUQUERQUE, NEW MEXICO 87176

DEC 26 1985 505 884-0814

OIL CONSERVATION DIVISION

SANTA FE

November 25, 1985

Getty Oil Company P.O. Box 3360 Casper, Wyoming 82602 CERTIFIED MAIL

Re: Application for Approval for In-Fill Well

Ransom #1-M 0-13-29N-11W

Dear Gentlemen and Lady:

Enclosed is application for approval of the Ransom #1-M, in-fill insofar as it pertains to the Fruitland formation only. This has been completed as a commingled Farmington-Fruitland gas well. There is no other Farmington well in this quarter section so no in-fill approval is needed for that formation.

Please execute one copy of the waiver below and forward it to the New Mexico Oil Conservation Division if you have no objection to this application.

Your assistance in this matter is very much appreciated.

Yours very truly,

Ed Hartin

Ed Hartman

Agent for the B.H. and M.N. Keyes Trust

Cys to: Horace F. McKay, Jr., Petroleum Corporation of Texas, Elliott A. Riggs, Getty Oil Company and Helen Loraine Harvey

EMH/nh

Oil Conservation Division P.O. Box 2088 Santa Fe, N.M. 87501

We, as offset operator, do hereby waive objection to the above application.

Operator Testaco Producing Fine

By

Title

Manager—Aper.

Date

12-16-85