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

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

admin	ISTRATIVE	ORDER
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NFL	42	

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

Operator _	C & E 0	perato	rs, Inc.	· W	ell Nam	e and No.	Az	tec Well No.	8
Location:	Unit M	Sec	8 Twp.	30-N	Rng	11-W	Cty	San Juan	
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THE DIVISI	ON FINDS:								· •
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procedure	whereby the	he Divis	13-A, date ion Direct nfill well	or and t	he Divi	980, the sion Exam	Division iners ar	established an e empowered to a	administrative act for the
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(5) That approved b	this pror	ation un	it is (X)	standard	i () no	nstandard	; if non	standard, said u	nnit was previously
(6) That well(s) on	said prore the unit	ation un •	it is not	being ef	fective	ly and ef	ficientl	y drained by the	existing
(7) That	the drill:	ing and	completion	of the	well fo	r which a	finding	is sought shoul	d result in
	tion of an		onal <u>11</u>	3,000	MCF	of gas f	rom the	proration unit w	hich would not
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				Ď	IVISION	DIRECTOR		EXAMINER	-



A. R. "Al" Kendrick

P. O. Box 516 • AZTEC, NEW MEXICO 87410 • (505) 334-2555

February 22, 1982

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

RE: Application for Approval of Infill Well for Gas Pricing

Dear Mr. Ramey:

We respectfully request that the C & E Operators, Inc. Aztec #8 well located 1000' FSL 890' FWL of Section 8, T30N, R11W be approved as a necessary infill well in the Aztec-Pictured Cliffs Pool to effectively and efficiently drain the spacing unit shared with the Oliver #1 well.

The standard spacing unit in the Aztec-Pictured Cliffs Pool is 160 acres.

Enclosed for your consideration are copies of the Permit to Drill, Acreage Dedication Plat, Data Sheet, Structure Map, and Map showing the cumulative gas production to 1/1/81.

A copy of this application is being sent by certified mail to the operator of each developed offset spacing unit at the time of this mailing.

If further information is desired, please contact us.

Yours very truly,

A. R. Kendrick

Enclosures

xc: Offset operators

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK SANTA FE APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK SANTA FE ACTOR C & E Operators C & E Operators C & E Operators C & E Operators Nest	DISTRICT OF STATE OF		CONSERVATI P. O. 110× 2 INTA FE, NEW M	EXICO B	EB 24 198	Port Calcillation of the C	
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DATA SHEET

ORIGINAL WELL:

Operator: C & E Operators, Inc.

Lease: Oliver #1

Location: 1544' FSL 900' FWL Section 8, T30N, R11W

Spud: 10/24/53 @ Completed: 11/26/53

Stimulation: Shot w/ 237 quarts of solidified nitroglycerin

Mechanical problems: none

Current production rate: 7505 MCF during 1980

REASON that the existing well cannot effectively and efficiently drain the drill tract is because of the narrow radius of effective stimulation by the shot treatment. A high-volume fracture treatment is not feasible at this time because of the possibility of casing rupture. Four wells shown on the structure map have been plugged due to casing failure.

INFILL WELL:

Operator: C & E Operators, Inc.

Lease: Aztec #8

Location: 1000' FSL 890' FWL Section 8, T30N, R11W

Spud: 1/13/81 Completed: 5/12/81

Stimulation: Sand/foam fractured w/ 70 quality foam and 36,000 pounds

of sand

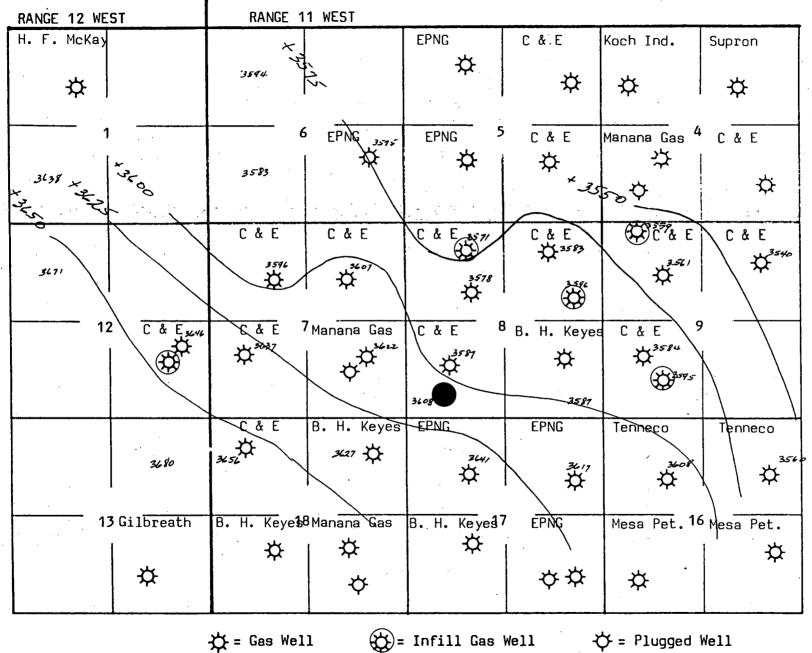
VOLUME of expected additional recovery: 113 MMCF

BASED on Boyle's Law, if the initial shut-in pressure of 665 psi represented 100% of the recoverable reserves, and if the shut-in pressure of 224 psi measured 10/19/81 represented the remaining recoverable reserves, and considering the production of 892 MMCF having been produced through 10/31/81; then, the remaining recoverable reserves were 352 MMCF at an abandonment pressure of 50 psi. The shut-in pressure of 280 psi measured 9/30/81 on the infill well indicates recoverable reserves of 465 MMCF at an abandonment pressure of 50 psi. Therefore, the additional recoverable reserves will be 113 MMCF.

PICTURED CLIFFS STRUCTURE MAP

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9-6 REGULATION OF THE DRILLING AND PRODUCTION OF OIL AND/OR GAS WELLS

9-6-1 SCOPE:

The scope of this article shall be for the regulation of the drilling and production of oil and/or gas or for liquid hydrocarbons within the City of Aztec, New Mexico, and shall include any well to be used as an injection well for secondary recovery.

9-6-2 PERMITS

Every person, firm, partnership or corporation hereafter desiring to drill a well within the City of Aztec, New Mexico, or rework an existing well shall obtain a permit for the drilling or reworking of such well and the production thereof, such permit to be obtained as follows:

- a. Written application shall be filed therefore with the City Clerk and shall contain the following:
 - 1. The name of the operator desiring to drill and produce such well.
 - 2. The exact location of the proposed well together with a description of the area to be occupied by the drilling machinery pits and equipment in the drilling of such well and the area to be occupied by the machinery to be used in the production of such well, and
 - 3. Names and address of all property owners within 200 feet of well location.
 - 4. A certificate of insurance which certifies that the operator and all persons who may be engaged in the drilling or operation of such well are insured to the public for any operation in the sum of One Hundred Thousand (\$100,000.00) dollars for damages to any one (1) person, and Three Hundred Thousand Dollars (\$300,000.00) for damages to more than one person, from any one (1) accident; also, for the sum of One Hundred Thousand Dollars (\$100,000.00) for damages to property.
 - 5. Such application shall be accompanied by a \$350.00 filing fee.
- b. Upon the receipt of all of the above the City Clerk shall establish a hearing date when the application is to be considered by the City Commission. Public notice of the hearing at which the application is to be considered must be given by at least one publication in a newspaper of general circulation in the municipality at least 15 days before the date of the hearing. All property owners within 200 feet of the proposed well location shall be notified of the hearing date by written notice by certified mail, return receipt requested, not less than five days before the date of the hearing.

- c. The City Clerk shall issue a written recommendation for approval or denial to the City Commission at the hearing.
- d. In all matters pertaining to this chapter the City Manager shall advise the City Commission and shall make recommendations concerning all matters pertaining to this chapter.

9-6-3 OBSTRUCTING STREETS BY DRILLING, ETC.:

No well shall be drilled and no permit shall be issued for any well to be drilled at any one location which is within any of the streets or alleys of the City. No such street or alley shall be blocked or encumbered or closed in any drilling, production or pipeline operation except by written permission of the oil and gas inspector and the City Manager and then only temporarily.

9-6-4 PROXIMITY OF WELL, TANKS OR PIPELINES TO BUILDINGS:

No well shall be drilled and no permit shall be issued for any well to be drilled at any location or storage tank to be located which is nearer than two hundred (200) feet to any residence or commercial building without the applicant having first secured the written permission of the City Commission.

No high pressure gas injection well or a compressor used in conjunction with the gas injection well shall be located nearer than two hundred (200) feet to any residential, commercial or industrial structure, except by permission of the City Commission. In exceptional cases for reasons of safety, the City Commission may require that any such facility shall be located at a greater distance than 200 feet to any such structure.

No residential, commercial or industrial structure other than structures necessary to operate the pipeline shall be erected or moved to a location nearer than thirty (30) feet to any pipeline transporting gas when the pipeline operating pressure is greater than 250 PSI unless a greater or lesser distance is recommended by the then applicable ASA Code.

9-6-5 REQUIREMENT FOR OPERATION OF PRODUCING WELL:

Any person, firm partnership or corporation who completes an oil or gas well within the limits of the City of Aztec, New Mexico, shall operate the same in accord with the following provisions:

a. The area to be occupied by the producing equipment in the event any well located within the City of Aztec is completed as a commercial producer shall be confined to an area not to exceed one hundred (100) feet by one hundred and fifty (150) feet and the 100 feet by 150 feet area to be occupied by the producing equipment shall be enclosed in a chain link fence six (6) feet in height and three (3) strands of barbed wire at the top, which barbed wire strands shall slope outward.

- c. Any tank containing oil or distillate shall be located within a dike or fire wall capable of holding one and one-half (1½) times the volume of the tank; and all operations shall be maintained so as not to be a fire hazard and so as not to jeopardize the health and safety of the Citizens of the City of Aztec.
- d. All fluids produced shall be produced into a tank and hauled off the location.
- e. All operations shall be conducted in such a manner so that they will make the least noise possible.

9-6-6 REQUIREMENTS FOR OPERATION OF DRILLING WELL:

Any person, firm, partnership or corporation drilling a well for oil and gas within the limits of the City of Aztec, New Mexico, shall contain all drilling fluids in pits which will be completely covered at the completion of drilling.

9-6-7 PENALTY

Any firm, person, partnership or corporation convicted of drilling or operating a well in violation of the provisions of this article shall be punished by a fine of not less than one hundred dollars (\$100.00) or more than three hundred dollars (\$300.00) and each day that any person, firm, partnership or corporation shall be in violation of this ordinance shall be taken as a separate offense.

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9-6 REGULATION OF THE DRILLING AND PRODUCTION OF OIL AND/OR GAS WELLS

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 - 4. A certificate of insurance which certifies that the operator and all persons who may be engaged in the drilling or operation of such well are insured to the public for any operation in the sum of One Hundred Thousand (\$100,000.00) dollars for damages to any one (1) person, and Three Hundred Thousand Dollars (\$300,000.00) for damages to more than one person, from any one (1) accident; also, for the sum of One Hundred Thousand Dollars (\$100,000.00) for damages to property.
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- b. The fence and area referred to in sub-paragraph above shall be landscaped and maintained if such well location is within five hundred (500) feet of a residential lot as described in the City Zoning Ordinance.
- c. Any tank containing oil or distillate shall be located within a dike or fire wall capable of holding one and one-half (1½) times the volume of the tank; and all operations shall be maintained so as not to be a fire hazard and so as not to jeopardize the health and safety of the Citizens of the City of Aztec.
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9-6-7 **PENALTY**

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A. R. "Al" Kendrick

P. O. BOX 516 • AZTEC, NEW MEXICO 87410 • (505) 334-2555

February 22, 1982

Dear Offset Operator:

If you have no objection to the attached Application for Approval of Infill Well for Gas Pricing, please sign the waiver below and send it to the New Mexico Oil Conservation Division office in Santa Fe, New Mexico.

Yours very truly,

A. R. Kendrick

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

Dear Mr. Ramey:

We, as offset operator, hereby waive objection to the Application for Approval of Infill Well for Gas Pricing filed for C & E Operators, Inc.

WELL: Aztec #8

LOCATION: M-8-T30N-R11W

	R:Manana Gas, Inc.
BY:	Ed Hartman
DATE: _	2/25/82

42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-389 200 SHEETS 5 SQUARE

Intill Wall Application

A.R. "Al" Kondrick for C+E Operators, In

Given: I.S.I.P. = 665 psi

Commolative Had to date = 59% MMCF.
Abandenment Pressure = 50ps.

655ps - 224ps = 441 pressure decline pe

892 mmc F

USpic 441 psi

2 = 1345 mmcf Origan Res. @ 665ps.

(65psi) (1345 mmcF)

1345 MMCF Origanal Res

-892 mmcF

453 MMCF Remaining reserves to Make

-101 MACK

352 mmc F Remaining repoverable res

- 101 MMCF HES Rec. Res. @ Ins. II, MMCF -352 NMCF

113 ANT'1 Res.

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A. R. "Al" Kendrick

P. O. BOX 516 • AZTEC, NEW MEXICO 87410 • (505) 334-2555

February 22, 1982

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

RE: Application for Approval of Infill Well for Gas Pricing

Dear Mr. Ramey:

We respectfully request that the C & E Operators, Inc. Aztec #8 well located 1000' FSL 890' FWL of Section 8, T30N, R11W be approved as a necessary infill well in the Aztec-Pictured Cliffs Pool to effectively and efficiently drain the spacing unit shared with the Oliver #1 well.

The standard spacing unit in the Aztec-Pictured Cliffs Pool is 160 acres.

Enclosed for your consideration are copies of the Permit to Drill, Acreage Dedication Plat, Data Sheet, Structure Map, and Map showing the cumulative gas production to 1/1/81.

A copy of this application is being sent by certified mail to the operator of each developed offset spacing unit at the time of this mailing.

If further information is desired, please contact us.

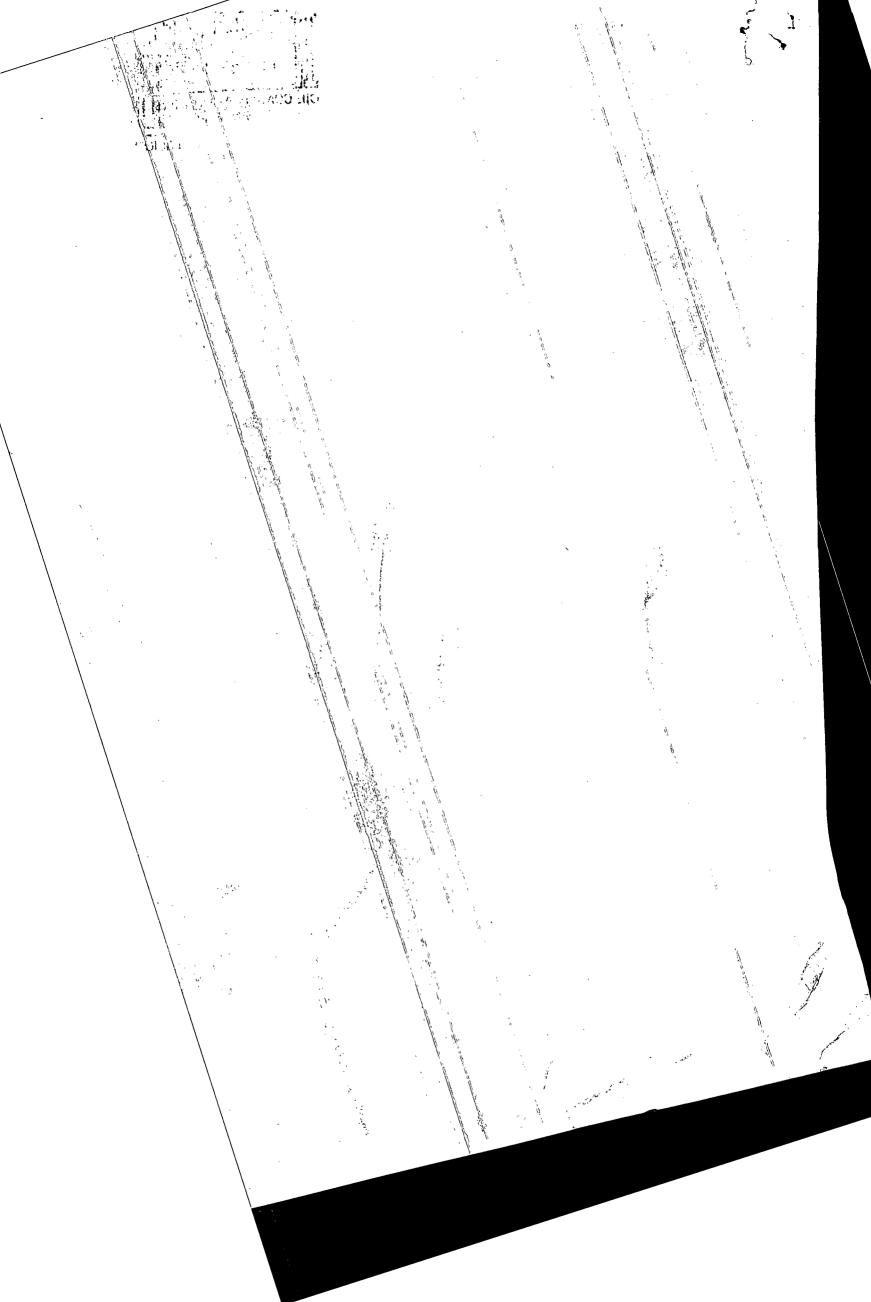
Yours very truly,

A. R. Kendrick

Enclosures

xc: Offset operators

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2:	<u> </u>	PROPOSED CASING AND	SETTING DEPTH SACKS	On Approval
	Propose to set 8-5/8" BOP's and bleed off may with light gel-chemical stage cement. Perf. 8 zone: Clean out PC zo "D" prod. packer. Run tubing on Pictured Clean	2" 15.5 e collar at approx. 2050 casing w/spud mud. Cem anifold. Press. test to al mud to TD. Run IES & stimulate Mesaverde; s one, mill out plug and c 1-1/2" EUE tubing and	4700 300/ 0' & cement w/375 nent to surface. WOC - 0 600 psi - 30 min. Dr GRD/N Logs. Run/5-1/	Surface - 8 hrs. Install rill 7-7/8" hole /2" casing and
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DATA SHEET

ORIGINAL WELL:

Operator: C & E Operators, Inc.

Lease: Oliver #1

Location: 1544' FSL 900' FWL Section 8, T30N, R11W

Spud: 10/24/53 Completed: 11/26/53

Stimulation: Shot w/ 237 quarts of solidified nitroglycerin

Mechanical problems: none

Current production rate: 7505 MCF during 1980

REASON that the existing well cannot effectively and efficiently drain the drill tract is because of the narrow radius of effective stimulation by the shot treatment. A high-volume fracture treatment is not feasible at this time because of the possibility of casing rupture. Four wells shown on the structure map have been plugged due to casing failure.

INFILL WELL:

Operator: C & E Operators, Inc.

Lease: Aztec #8

Location: 1000' FSL 890' FWL Section 8, T30N, R11W

Spud: 1/13/81 Completed: 5/12/81

Stimulation: Sand/foam fractured w/ 70 quality foam and 36,000 pounds

of sand

VOLUME of expected additional recovery: 113 MMCF

BASED on Boyle's Law, if the initial shut-in pressure of 665 psi represented 100% of the recoverable reserves, and if the shut-in pressure of 224 psi measured 10/19/81 represented the remaining recoverable reserves, and considering the production of 892 MMCF having been produced through 10/31/81; then, the remaining recoverable reserves were 352 MMCF at an abandonment pressure of 50 psi. The shut-in pressure of 280 psi measured 9/30/81 on the infill well indicates recoverable reserves of 465 MMCF at an abandonment pressure of 50 psi. Therefore, the additional recoverable reserves will be 113 MMCF.

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☆= Gas Well

= Infill Gas Well

→ = Plugged Well

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9-6 REGULATION OF THE DRILLING AND PRODUCTION OF OIL AND/OR GAS WELLS

9-6-1 SCOPE:

The scope of this article shall be for the regulation of the drilling and production of oil and/or gas or for liquid hydrocarbons within the City of Aztec, New Mexico, and shall include any well to be used as an injection well for secondary recovery.

9-6-2 PERMITS

Every person, firm, partnership or corporation hereafter desiring to drill a well within the City of Aztec, New Mexico, or rework an existing well shall obtain a permit for the drilling or reworking of such well and the production thereof, such permit to be obtained as follows:

- a. Written application shall be filed therefore with the City Clerk and shall contain the following:
 - 1. The name of the operator desiring to drill and produce such well.
 - 2. The exact location of the proposed well together with a description of the area to be occupied by the drilling machinery pits and equipment in the drilling of such well and the area to be occupied by the machinery to be used in the production of such well, and
 - 3. Names and address of all property owners within 200 feet of well location.
 - 4. A certificate of insurance which certifies that the operator and all persons who may be engaged in the drilling or operation of such well are insured to the public for any operation in the sum of One Hundred Thousand (\$100,000.00) dollars for damages to any one (1) person, and Three Hundred Thousand Dollars (\$300,000.00) for damages to more than one person, from any one (1) accident; also, for the sum of One Hundred Thousand Dollars (\$100,000.00) for damages to property.
 - 5. Such application shall be accompanied by a \$350.00 filing fee.
- b. Upon the receipt of all of the above the City Clerk shall establish a hearing date when the application is to be considered by the City Commission. Public notice of the hearing at which the application is to be considered must be given by at least one publication in a newspaper of general circulation in the municipality at least 15 days before the date of the hearing. All property owners within 200 feet of the proposed well location shall be notified of the hearing date by written notice by certified mail, return receipt requested, not less than five days before the date of the hearing.

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- c. The City Clerk shall issue a written recommendation for approval or denial to the City Commission at the hearing.
- d. In all matters pertaining to this chapter the City Manager shall advise the City Commission and shall make recommendations concerning all matters pertaining to this chapter.

9-6-3 OBSTRUCTING STREETS BY DRILLING, ETC.:

No well shall be drilled and no permit shall be issued for any well to be drilled at any one location which is within any of the streets or alleys of the City. No such street or alley shall be blocked or encumbered or closed in any drilling, production or pipeline operation except by written permission of the oil and gas inspector and the City Manager and then only temporarily.

9-6-4 PROXIMITY OF WELL, TANKS OR PIPELINES TO BUILDINGS:

No well shall be drilled and no permit shall be issued for any well to be drilled at any location or storage tank to be located which is nearer than two hundred (200) feet to any residence or commercial building without the applicant having first secured the written permission of the City Commission.

No high pressure gas injection well or a compressor used in conjunction with the gas injection well shall be located nearer than two hundred (200) feet to any residential, commercial or industrial structure, except by permission of the City Commission. In exceptional cases for reasons of safety, the City Commission may require that any such facility shall be located at a greater distance than 200 feet to any such structure.

No residential, commercial or industrial structure other than structures necessary to operate the pipeline shall be erected or moved to a location nearer than thirty (30) feet to any pipeline transporting gas when the pipeline operating pressure is greater than 250 PSI unless a greater or lesser distance is recommended by the then applicable ASA Code.

9-6-5 REQUIREMENT FOR OPERATION OF PRODUCING WELL:

Any person, firm partnership or corporation who completes an oil or gas well within the limits of the City of Aztec, New Mexico, shall operate the same in accord with the following provisions:

a. The area to be occupied by the producing equipment in the event any well located within the City of Aztec is completed as a commercial producer shall be confined to an area not to exceed one hundred (100) feet by one hundred and fifty (150) feet and the 100 feet by 150 feet area to be occupied by the producing equipment shall be enclosed in a chain link fence six (6) feet in height and three (3) strands of barbed wire at the top, which barbed wire strands shall slope outward.

- b. The fence and area referred to in sub-paragraph above shall be landscaped and maintained if such well location is within five hundred (500) feet of a residential lot as described in the City Zoning Ordinance.
- Any tank containing oil or distillate shall be located within a dike or fire wall capable of holding one and one-half (1½) times the volume of the tank; and all operations shall be maintained so as not to be a fire hazard and so as not to jeopardize the health and safety of the Citizens of the City of Aztec.
- d. All fluids produced shall be produced into a tank and hauled off the location.
- e. All operations shall be conducted in such a manner so that they will make the least noise possible.

9-6-6 REQUIREMENTS FOR OPERATION OF DRILLING WELL:

Any person, firm, partnership or corporation drilling a well for oil and gas within the limits of the City of Aztec, New Mexico, shall contain all drilling fluids in pits which will be completely covered at the completion of drilling.

9-6-7 PENALTY

Any firm, person, partnership or corporation convicted of drilling or operating a well in violation of the provisions of this article shall be punished by a fine of not less than one hundred dollars (\$100.00) or more than three hundred dollars (\$300.00) and each day that any person, firm, partnership or corporation shall be in violation of this ordinance shall be taken as a separate offense.

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A. R. "Al" Kendrick

P. O. BOX 516 • AZTEC, NEW MEXICO 87410 • (505) 334-2555

February 22, 1982

Dear Offset Operator:

If you have no objection to the attached Application for Approval of Infill Well for Gas Pricing, please sign the waiver below and send it to the New Mexico Oil Conservation Division office in Santa Fe. New Mexico.

Yours very truly,

a. R. Kendrick

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

Dear Mr. Ramey:

We, as offset operator, hereby waive objection to the Application for Approval of Infill Well for Gas Pricing filed for C & E Operators, Inc.

WELL: Aztec #8

LOCATION: M-8-T30N-R11W

OPERATOR: Manana Gas, Inc.

BY: Ed Harman

DATE: 2/25/82

113 HAH'I Bis -352 AMCF -101 MMCF -101 MMCF -101 MMCF -366, Acc. Acs. (D. Ju.S. II), MMCF -366, Acc. Acs. (D. Ju.S. II), MMCF

280 psi os insillwell (1345 mack) = 566 mack, insill well
166 psi

1345 MACE Origonal Accounted to date 101 MACE Account describes to date 1985.

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A.R. "At" Kenderick sor C+E Operators, Inc.

Intill Well Application