

Presidio Oil Company

3131 Turtle Creek Blvd • Suite 400 • Dallas, Texas 75219-5415 • (214) 528-5898 • Facsimile (214) 528-2160

SUBSIDIARIES

Peake Operating Company
Presidio Energy, Inc.
Presidio Exploration, Inc.
The Desana Corporation
The Petroleum Corporation of Delaware

August 15, 1989

Downhole Commingling
Superior Federal No.6
Unit N, Sec. 6, T20S, R29E
Eddy County, New Mexico

New Mexico Oil Conservation Division
P. O. Box 2088 Room 206
Sante Fe, NM 87504

Attention: Mr. David R. Catanach

The Petroleum Corporation of Delaware requests an exception to New Mexico Oil Conservation Division Rule 303-A to permit downhole commingling of production from the East Burton Flat-Morrow gas pool and the East Burton Flat-Atoka gas pool in the above captioned wellbore. This matter has been set for consideration at the August 23, 1989 examiner hearing.

Superior Federal Well No. 6 is currently classified a dually producing well from the Strawn and Morrow gas pools of the East Burton Flat Field in Eddy County, New Mexico. The Morrow has produced up the tubing since initially being completed in March of 1982 through Morrow perforations from 11,177' to 11,314'. Additional Morrow perforations were made in 3 zones during a workover in May of 1987. The casing was perforated with a through tubing gun while the downhole production equipment remained in place. At that time the geologist had interpreted all three sets of perforations to be Morrow pay. Recently we have been informed that the upper most set of perforations (10,951'-56') added during that May 1987 workover are actually in the Atoka Horizon as recognized by the State of New Mexico. Since the new zones were all perforated at the same time. Separate production tests and isolated reservoir pressures are not available. Also, separate testing of the zones now would be expensive and could potentially result in the loss of production by damaging the Morrow reservoir or partial loss of the wellbore. Therefore, we ask that no such requirement be imposed.

The completed NMOCDD forms C-107 and C-115 for the Atoka are attached, as is the data described in Rule 303 (c) (2). All offset operators have been notified by copy of this letter and its attachments.

Sincerely,



Ronald P. Henderson

RPH/jlw

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ATTACHMENT NO. 1 SUPERIOR FEDERAL WELL NO. 6 DOWNHOLE COMMINGLING - DATA REQUIRED

To obtain approval for donwhole commingling, we have enclosed the following data pursuant to Rule 303 (c) (2) (a through j):

1. Company's Name and Address:

The Petroleum Corporation of Delaware
3131 Turtle Creek Blvd. Ste. #400
Dallas, Texas 75219-5415

2. Lease Name, Well Number, Well Location and Name of Pools to be commingled:

Superior Federal Well No. 6, Unit N, Section 6, T20S, R29E, Eddy County, New Mexico. Pools to be commingled: East Burton Flat Atoka Gas Pool and East Burton Flat Morrow Gas Pool.

3. A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases:

Attached.

4. A 24-hour productivity test of Division Form C-116 showing the amount of oil, gas and water produced from each zone:

Test is on total stream from combined Atoka and Morrow production. Division of production based on allocation formula from production before and after perforations were added in May of 1987.

5. The new perforations were added in May of 1987 and produced commingled with Morrow production until the present. Separate production curves therefore do not exist. A production curve for the Superior Federal No. 6 Morrow from initial completion to present is attached. The allocation formula for Atoka production is attached and shows the Atoka interval to be producing 25 MCFGPD and all other Morrow perforations producing 510 MCFGPD. A complete description of the production tests before and after the May, 1987 workover and the description and results of the June, 1987 acid treatment are also attached.

6. Current bottomhole pressures are not available due to the history of the zones being produced together. We are requesting relief from the requirement to provide separate production and pressure data on each

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individual zone. Testing each zone is economically prohibitive due to the small volume of Atoka production (approximately 25 MCFGPD). Testing could also result in the loss of production from the Morrow zones.

A history of the stabilized shut in tubing pressures is attached. This graph indicates a 170 psi increase in shut in pressure after the workover. If the Lower pressure zone had been left to decline alone until August of 1989 the SITP would be 680 psi. The combined SITP of the zones together extrapolates to 750 psi in August of 1989. There is not a 50% difference in pressures.

This is significant in that the well produces through a compressor and this will prevent crossflow from occurring because the flowing tubing pressure is pulled down to about 230 psi.

7. Descriptions of the gas analysis before and after the workover are attached. The gas samples are almost identical comparing gas just before the work and gas now.

The streams have also been commingled downhole and at the surface and have produced no compatibility problems.

8. The 62 MCFGPD increase in production that resulted from the additional perforations is the only link to estimating Atoka gas production. Using the method described in the allocation formula showed an estimated production of 25 MCFGPD from the Atoka interval.

The sum of the value of the individual streams is the commingled production that has been producing since the May, 1987 workover.

9. A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such a formula:

The following allocation percentages are suggested based upon the ratio of production from each zone:

	Expected Production	
	Gas	
Atoka	25 MCF/D	(4.7%)
<u>Morrow</u>	<u>510 MCF/D</u>	<u>(95.3%)</u>
Commingled	535 MCF/D	(100.0%)

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10. A statement that all offset operators and in the case of a well on Federal Land, the United States Geological Survey, has been notified in writing of the proposed commingling:

By copy of this letter, we are notifying the offset operators of this proposed commingling.

11. in addition, working interest and royalty interest ownership in all zones are the same.
12. Also attached is a stratigraphic cross section of the Atoka Formation through the immediate area. The section illustrates the stratigraphic nature of the locally-developed Atoka sand. The neutron-density "cross-over" gas/effect is only evident in the subject well. Additionally, the offsetting wells exhibit less than 4% effective porosity for the correlative sand.
13. The structure map , on the top of this Atoka sand depicts a nosing or flattening of the regional dip at the Superior Federal No. 6 well, indicative of a stratigraphic trap.

HINKLE, COX, EATON, COFFIELD & HENSLEY

ATTORNEYS AT LAW

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ROY C. SNODGRASS, JR. (1914-1987)

*NOT LICENSED IN NEW MEXICO

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2800 CLAYDESTA NATIONAL BANK BUILDING
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MIDLAND, TEXAS 79702
(915) 683-4691
1700 TEXAS AMERICAN BANK BUILDING
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AMARILLO, TEXAS 79105
(806) 372-5569
218 MONTEZUMA
POST OFFICE BOX 2068
SANTA FE, NEW MEXICO 87504
(505) 982-4554

January 25, 1988

Case 9663

Mr. Michael E. Stogner
New Mexico Oil Conservation
Division
P. O. Box 2088
Santa Fe, New Mexico 87504

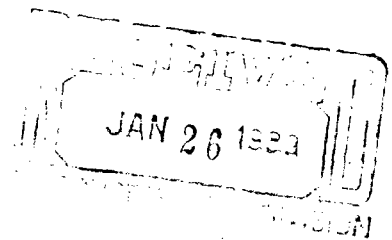
Re: Case No. 9342, The Application of Petroleum Corporation
of Delaware for Simultaneous Dedication

Dear Mike:

Enclosed is a copy of the latest letter I sent to my client,
and a copy of the Second Amended Application which I have
prepared. Please review the Application and see if it
includes all items necessary to satisfy your concerns. If
so, I will be filing it shortly. Thank you for your
attention to this matter.

Very truly yours,

James Bruce
JAMES BRUCE
JB:le
Enclosures



HINKLE, COX, EATON, COFFIELD & HENSLEY

ATTORNEYS AT LAW

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(505) 982-4554

January 19, 1989

Mr. Larry Shannon
Presidio Oil Company
3131 Turtle Creek Boulevard
Suite 400
Dallas, Texas 75219

Re: OCD Case No. 9342, Simultaneous Dedication of Superior
Fed. No. 6 and Superior Fed. No. 7 Wells

Dear Larry:

I wrote you on November 30, 1988 regarding bringing the above case to a conclusion. The OCD has again asked me the status of this matter. If we do not respond promptly, the case could be dismissed. In addition, the Superior Fed. Well No. 6 is currently producing from the Atoka formation although there is no OCD order authorizing Atoka production. If we do not get this matter cleared up promptly, the OCD might shut the well in until the proper authority is obtained.

Please contact me about this matter.

Very truly yours,


JAMES BRUCE
JB:le

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

APPLICATION OF THE PETROLEUM)
CORPORATION OF DELAWARE FOR)
SIMULTANEOUS DEDICATION, THE)
AMENDMENT OF ADMINISTRATIVE)
ORDER NO. NSP-1290, AND THE)
AMENDMENT OF ORDER NO. R-7269,)
EDDY COUNTY, NEW MEXICO.)

Case No. ⁹⁶⁶³ 9342

SECOND AMENDED APPLICATION

The Petroleum Corporation of Delaware files this Second Amended Application requesting simultaneous dedication, the amendment of Administrative Order NSP-1290, and the amendment of Division Order No. R-7269, and in support thereof states:

Amendment of Division Order No. R-7269:

1. Applicant is the operator of the Superior Federal Well No. 6 located in the SW $\frac{1}{4}$ of Section 6, which is completed in and is producing from the East Burton Flat-Morrow Gas Pool, East Burton Flat-Atoka Gas Pool, and the East Burton Flat-Strawn Gas Pool.

2. The S $\frac{1}{2}$ of Section 6, Township 20 South, Range 29 East, N.M.P.M. (Eddy County, New Mexico), containing 299.84 acres, is dedicated to the Superior Federal Well No. 6.

3. By Order No. R-7269, entered April 25, 1983, The Division approved the dual completion of the Superior Federal Well No. 6 to produce from the Strawn and Morrow formations.

4. In May 1987 the Superior Federal Well No. 6 was recompleted, and one of the producing zones is in the Atoka formation.

WHEREFORE, Applicant requests the Division to enter its order amending Order No. R-7269 to permit production from the Atoka formation, retroactive to May 1987.

Amendment of Administrative Order NSP-1290:

5. The Superior Federal Well No. 6 is the subject of Administrative Order No. NSP-1290 as to the Morrow pool.

6. Applicant seeks the amendment of NSP-1290 to include the Strawn pool and the Atoka pool.

WHEREFORE, Applicant requests the Division to enter its order amending Administrative Order NSP-1290 to include the Strawn and Atoka pools.

Simultaneous Dedication:

7. Applicant proposes to drill its Superior Federal Well No. 7 in the SE $\frac{1}{4}$ of Section 6, at a standard location, to test the Strawn, Atoka, and Morrow formations.

8. The primary target of the Superior Federal Well No. 7 is the Strawn formation, but the well may be completed in the Morrow and Atoka formations.

9. The drilling of the Superior Federal Well No. 7 is necessary to adequately produce the reserves underlying the S $\frac{1}{2}$ of Section 6.

10. Applicant seeks authority to simultaneously dedicate production from the subject Morrow, Atoka and Strawn

pools in the S½ of said Section 6 to the Superior Federal Well Nos. 6 and 7.

WHEREFORE, Applicant requests the Division to enter its order permitting the simultaneous dedication of production from the Superior Federal Well Nos. 6 and 7 in the S½ of said Section 6.

11. The granting of this Application is in the interests of conservation, the prevention of waste, and the protection of correlative rights.

Dated this ___ day of January, 1989.

HINKLE, COX, EATON, COFFIELD &
HENSLEY

By _____
James Bruce
500 Marquette, N.W.
Suite 740
Albuquerque, New Mexico 87102
(505) 768-1500

Attorneys for The Petroleum
Corporation of Delaware



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

April 28, 1982

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

The Petroleum Corporation
of Delaware
One Marienfeld Place
Suite 555
Midland, Texas 79701

Attention: Don Cox

Administrative Order NSP-1290

Gentlemen:

Reference is made to your application for a 300-acre non-standard proration unit consisting of the following acreage in the East Burton Flat Morrow Pool:

EDDY COUNTY, NEW MEXICO
TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM
Section 6: S/2

It is my understanding that this unit is to be dedicated to your Superior Federal Well No. 6 located 660 feet from the South line and 1980 feet from the West line of said Section 6.

By authority granted me under the provisions of Rule 104 D II, the above non-standard proration unit is hereby approved.

Sincerely,

JOE D. RAMEY,
Director

JDR/RLS/dr

cc: Oil Conservation Division - Artesia
Oil & Gas Engineering Committee - Hobbs
Minerals Management Service - Artesia

Lot 6 29.91 acres			
Lot 7 29.93 acres			

MID-BELL LAKE-MORROW GAS POOL
Lea County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool.
T-23-S, R-34-E W/2 Sec. 19.

HORSESHOE BEND-MORROW GAS POOL
Eddy County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool.
T-23-S, R-25-E W/2 Sec. 34.

 EAST BURTON FLAT-MORROW GAS POOL
Eddy County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool, as Amended by Order No. R-5456, July 1, 1977; Order No. R-5667, April 1, 1978; Order No. R-5838, November 1, 1978; Order No. R-7009, July 1, 1982; Order No. R-7875, May 1, 1985; Order No. R-8065, November 1, 1985.

T-20-S, R-28-E E/2 Sec. 12.
T-20-S, R-29-E S/2 Sec. 2; S/2 Sec. 3; Sec. 4; E/2 Sec. 5;
S/2 Sec. 6; Secs. 7, 8, 9; S/2 Sec. 10; Secs. 16, 17, 18; N/2 Sec. 20.

INDIAN FLATS-DELAWARE POOL
Eddy County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool, as Amended by Order No. R-5334, December 1, 1976; Order No. R-5456, July 1, 1977; Order No. R-5754, July 1, 1978; Order No. R-5838, November 1, 1978; Order No. R-6368, July 1, 1980; Order No. R-6499, November 1, 1980; Order No. R-6657, May 1, 1981.

T-21-S, R-28-E SE/4 SE/4 Sec. 27; NE/4 NE/4 Sec. 34; W/2, SW/4 SE/4 Sec. 35.
T-22-S, R-28-E N/2 N/2, S/2 NE/4 Sec. 2.

 EAST BURTON FLAT-STRAWN GAS POOL
Eddy County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool, as Amended by Order No. R-5511, September 1, 1977; Order No. R-7158, January 1, 1983; Order No. R-7307, July 1, 1983.

T-20-S, R-29-E W/2 Sec. 4; Secs. 5, 6, 8 through 11.

LAGUNA GRANDE-MORROW GAS POOL
Eddy County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool.
T-23-S, R-29-E E/2 Sec. 28.

EAST BURTON FLAT-WOLFCAMP GAS POOL
Eddy County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool.
T-20-S, R-29-E W/2 Sec. 21.

LEAMEX-PADDOCK POOL
Lea County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool, as Amended by Order No. R-6169, November 1, 1979.
T-17-S, R-33-E S/2 Sec. 22.

BYRNES TANK-DELAWARE POOL
Eddy County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool, as Amended by Order No. R-7502, May 1, 1984.

T-23-S, R-26-E S/2 Sec. 5; SE/4 Sec. 7; W/2 Sec. 8.

NASH DRAW-ATOKA GAS POOL
Eddy County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool, as Amended by Order No. R-5361, March 1, 1977.

T-23-S, R-29-E S/2 Sec. 12; E/2 Sec. 13.
T-23-S, R-30-E N/2 Sec. 18.

CATCLAW DRAW-WOLFCAMP GAS POOL
Eddy County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool.
T-22-S, R-25-E N/2 Sec. 2.

ROCK LAKE-BONE SPRINGS POOL
Lea County, New Mexico

Order No. R-5252, September 1, 1976, Establishing Pool.
T-22-S, R-35-E SW/4 Sec. 28.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐
b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐
2. NAME OF OPERATOR **1-214-928-5461 O. C. D.**
The Petroleum Corporation of Delaware ARTESIA, OFFICE
3. ADDRESS OF OPERATOR
3811 Turtle Creek Blvd., Suite 350, Dallas, Texas 75219
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface Unit Letter O, 660' ESL 8-1980 FEL
At proposed prod. zone SAME
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
13 Miles Northeast of Carlsbad, NM
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'
16. NO. OF ACRES IN LEASE 1743.54
17. NO. OF ACRES ASSIGNED TO THIS WELL 320
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1320
19. PROPOSED DEPTH 11,800
20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR-3279.8'
22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11 3/4"	42#	350'	cir to surface
11 1/2"	8 5/8"	24# & 32#	3100'	cir to surface
7 7/8"	4 1/2"	11.6# & 13.5#	11,800'	Approx. 500 sx. to be determined by Caliper

Adequate BOP's to be installed @ 350' to TD. See sketch.

Mud Program: See Exhibit F (Page 3)

Note: This well being drilled as a replacement well for our Superior Federal #6 Strawn gas completion. **WILL PLUG BEFORE PROD..**

#6 DUAL. DOES NOT DRAIN THE ACREAGE.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED JE Thomas TITLE Engineer DATE August 25, 1985
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Original: Charles TITLE _____ DATE 9-12-85
CONDITIONS OF APPROVAL, IF ANY: _____

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Form C-102
Supersedes C-128
Effective 1-4-83

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

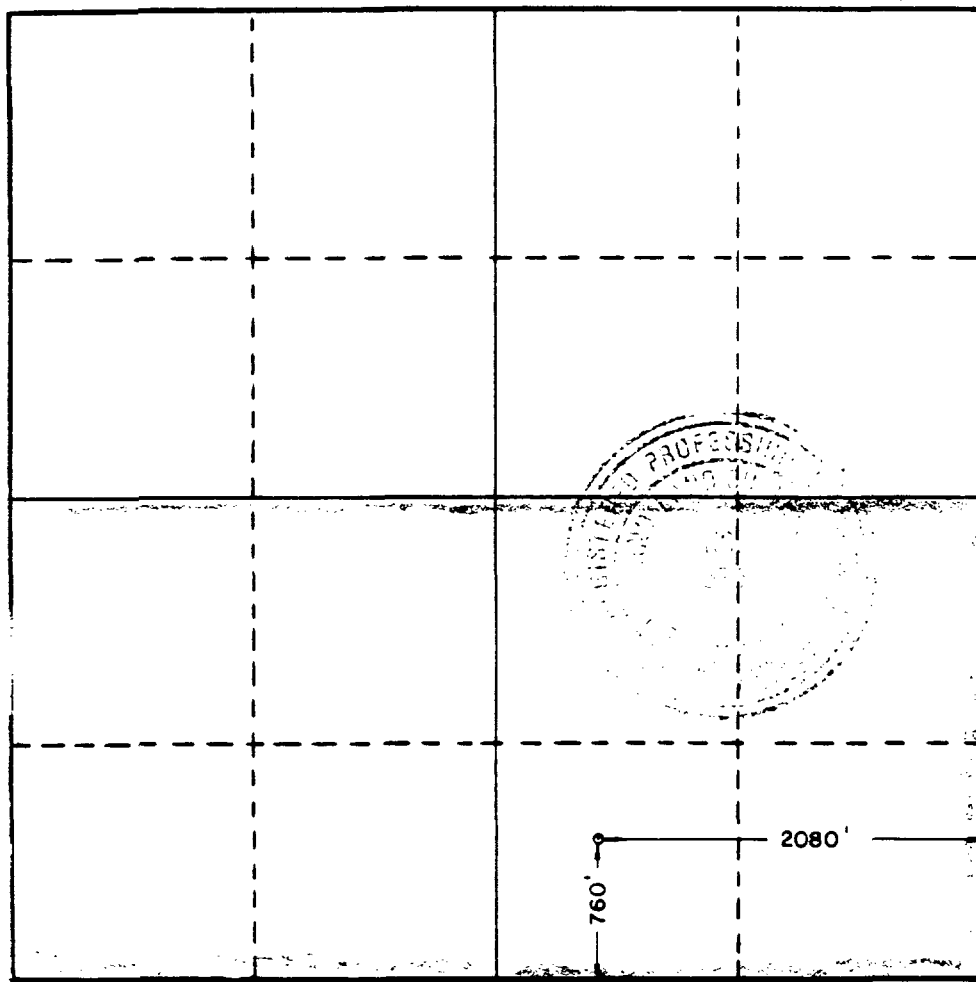
Operator THE PETROLEUM CORP. OF DELAWARE			Lease SUPERIOR FEDERAL		Well No. 7
Unit Letter 0	Section 6	Township 20S	Range 29E	County EDDY	
Actual Footage Location of Well: 760 feet from the SOUTH line and 2080 feet from the EAST line					
Ground Level Elev. 3279.8	Producing Formation STRAWN		Pool <i>E. Barton Flat Strawn</i>		Dedicated Acreage: 320 Acres

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

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

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

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



CERTIFICATION

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

Name _____

Position _____

Company _____

Date _____

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

SEPT. 4, 1985

Registered Professional Engineer
and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST,**

876

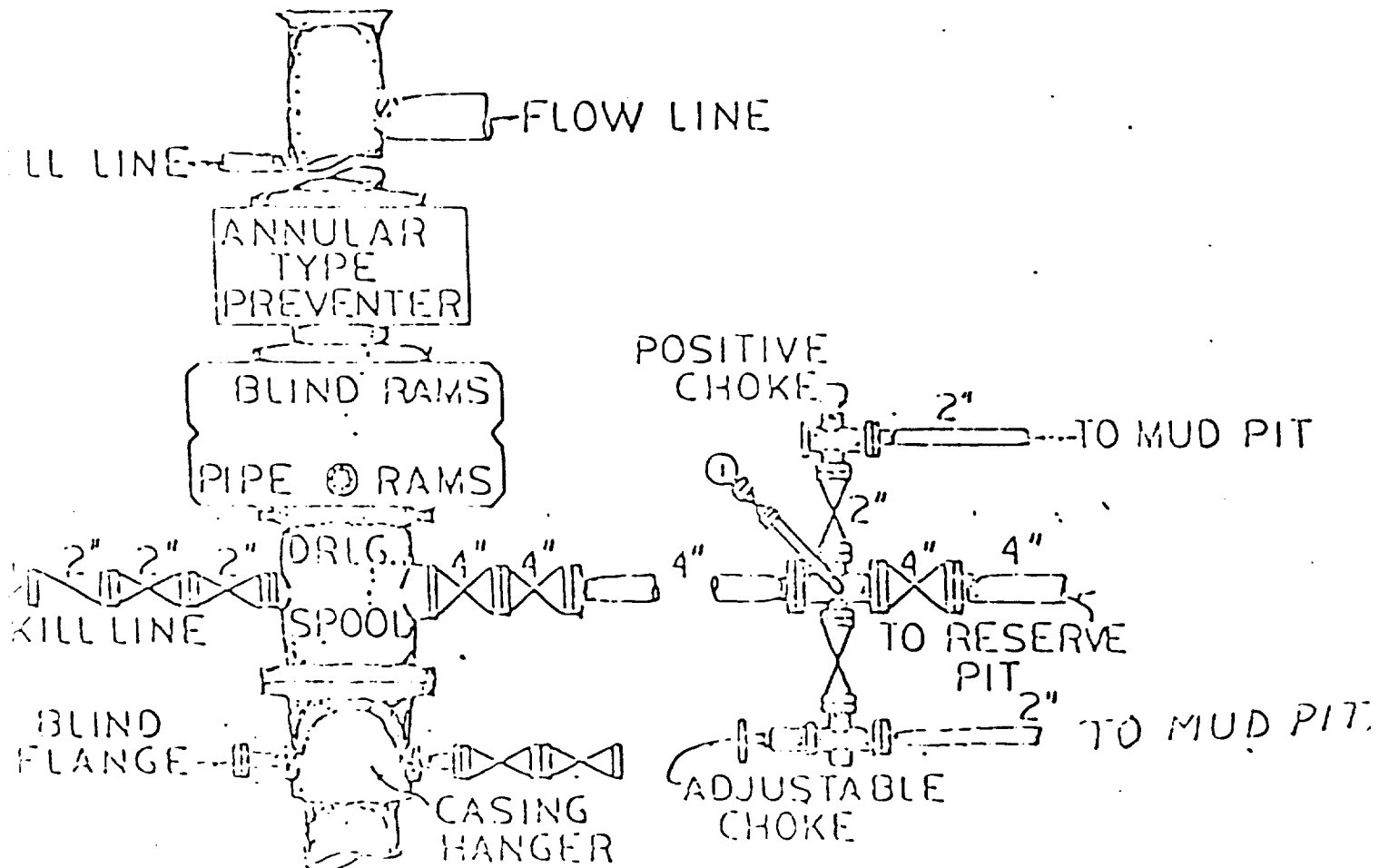
RONALD J. EIDSON,

3239

EXHIBIT E

The Petroleum Corporation of Delaware
Superior Federal Well No. 7
660' FSL and 1980 FEL
Section 6-T20S-R29E
Eddy County, New Mexico

B.O.P. ARRANGEMENT RIG NO. 3
3000 LB. W.P. B.O.P.
10" CAMERON TYPE-SS HYDRAULIC B.O.P. 3000 P.S.I.
12" G.K. HYDRILL 3000 W.P.
80 GALLON- STATION KOOMEY ACCUMULATOR
3000 LB. W.P. CHOKE MANIFOLD



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED SF.

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-23-82	
Company THE PETROLEUM CORP. OF DELAWARE		Connection EL PASO NATURAL GAS COMPANY	
Well East Burton Flat		Formation MORROW	
Completion Date 4-1-82		Total Length 11,600	
Casing Size 4"		Set At 10,600	
Flow Size 2 3/8"		Set At 10,753	
Plug Back TD 11,559		Elevation 3274.4 GR	
From 11,177 To 11,314		Well No. 6	
From To		Unit N 6 20S 29E	
Type well - Single - Intakehead - G.C. or G.C. Multiple		Packer Set At 10,710	
Dual		County Eddy	
Producing Time Tbg.		State New Mexico	
11,246		11,246	
Cg .626		% CO ₂ .8	
% N ₂ .38		% H ₂ S .08	
Prove		Water Run 4"	
Taps		Fig.	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Flow Rate	X	Pressure	Temp.	Pressure	Temp.	Pressure	Temp.	
1.	4 X 1.250	371	2.89	90	2180				1 hr.
2.	4 X 1.250	378	6.25	97	1978				1 hr.
3.	4 X 1.250	383	12.25	87	1875				1 hr.
4.	4 X 1.250	393	20.25	83	1763				1 hr.
5.									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_p P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compress. Factor, f _{sc}	Rate of Flow Q, Mscf
1.	7.469	33.32	384.2	.9723	1.264	1.030	315
2.	7.469	49.45	391.2	.9662	1.264	1.029	464
3.	7.469	69.67	396.2	.9750	1.264	1.031	661
4.	7.469	90.69	406.2	.9786	1.264	1.035	867
5.							

NO.	R	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mo/boil.	A.P.I. Gravity of Liquid Hydrocarbons	Deq.
1.	.57	550	1.51	.943	Dry			
2.	.58	557	1.53	.945				
3.	.59	547	1.50	.940				
4.	.61	543	1.49	.933				
5.								

NO.	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇	P ₈	P ₉	P ₁₀
1.	4182.8	2045.9	4185.9	624.2						
2.	3964.9	1992.9	3971.5	838.6						
3.	3565.3	1891.8	3578.8	1231.3						
4.	3154.9	1782.8	3178.2	1631.9						
5.										

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.948}{2.948 - 1.692} = 1.692$

AOR = O $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.948}{2.948 - 1.692} = 1.692$

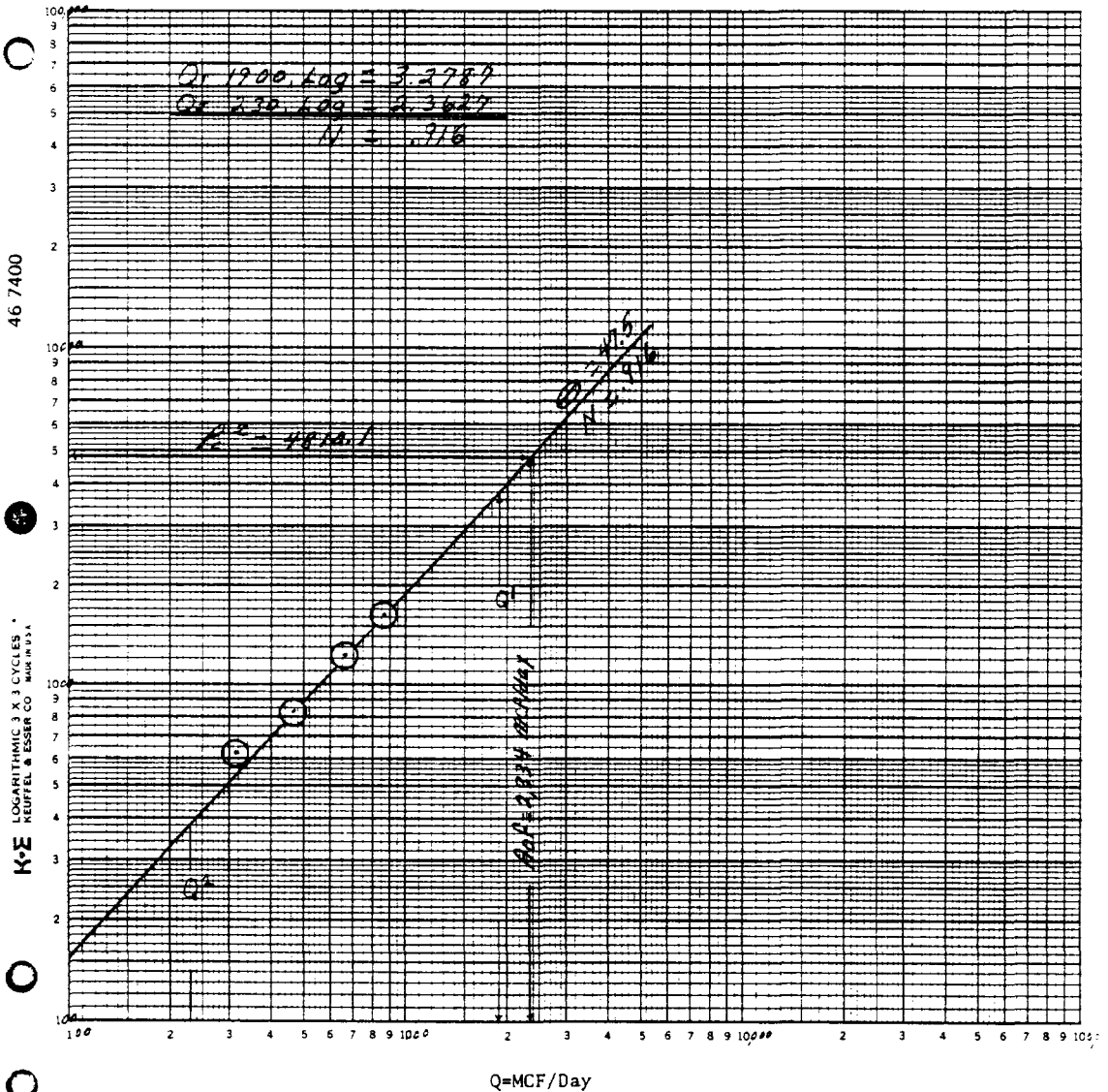
AUG 08 1982

CIL 0000

Absolute Open Flow	2,334	Mscf @ 15.025	Angle of Slope	47.5°	Slope, n	.916
Remarks: Made no fluid during test.						
Approved by Division						
EL PASO EXPLORATION CO.		EL PASO EXPLORATION CO.		Checked by:		
Reston & McGowen		Roy McGowen				

THE PETROLEUM CORPORATION OF DELAWARE
 Superior No. 6
 N-6-20-29, Eddy County, New Mexico
 June 23, 1982

$h^2 - h_w^2$ in Thousands



K-E LOGARITHMIC 3 X 3 CYCLES
 NEUFEL & ESSER CO. MADE IN U.S.A.

OIL CONSERVATION DIVISION

P. O. DRAWER DD
ARTESIA, NM 88210

NOTICE OF GAS CONNECTION

DATE June 11, 1982

This is to notify the Oil Conservation Division that connection for the purchase
of gas from the The Petroleum Corporation
OPERATOR

Superior Federal #6 - Morrow

Eddy

N 6-208-29E

LEASE & WELL

COUNTY

UNIT S-T-R

East Burton Flat Morrow

El Paso Natural Gas Co.

POOL

NAME OF PURCHASER

was made on June 10, 1982

DATE

SITE CODE

SITE WELL

El Paso Natural Gas Co.

PURCHASER

REPRESENTATIVE

Assistant Chief-Division Dispatcher

TITLE

TRE: bl

cc: Operator

Oil Conservation Division - Santa Fe, NM

H. E. McEuen

Proration

Measurement - Jal

E. L. Tabb

Earl Smith

FILE

JUN 23 1982

RECEIVED

OIL CONSERVATION DIVISION

P. O. DRAWER DD

ARTESIA, NM 88210

JUN 22 1982

O. C. D.

ARTESIA, OFFICE

NOTICE OF GAS CONNECTION

June 11, 1982

DATE

This is to notify the Oil Conservation Division that connection for the purchase of gas from the The Petroleum Corporation OPERATOR

Superior Federal #6 - Strawn

Eddy

N6-20S-29E

LEASE & WELL

COUNTY

UNIT S-T-R

East Burton Flat Strawn

El Paso Natural Gas Co.

POOL

NAME OF PURCHASER

was made on

June 10, 1982

DATE

36013
SITE CODE

01
SITE WELL NO.

El Paso Natural Gas Co.

PURCHASER

REPRESENTATIVE

Assistant Chief Division Dispatcher

TITLE

TRE:bl

cc: Operator

Oil Conservation Division - Santa Fe, NM

H. L. McEuen

Proration

Measurement - Jal

R. L. Tabb

Earl Smith

File

OIL CONSERVATION DIVISION
P. O. BOX 2080
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type: ☒ Initial ☐ Annual ☐ Special		Test Date: 7-2-83	
Company: PETROLEUM CORP. OF DELAWARE		Connection: El Paso Natural Gas Company	
Pool: East Burton Flat		Formation: Strawn	
Completion Date: 4-1-82		Total Depth: 11,600	
Plug Back TD: 11,559		Elevation: 3274.468	
Casing Size: 4 1/2		Well No.: 6	
WT: 12.70		Set At: 10,600	
Perforations: From 10,282 To 10,294		Unit: O. C. D. ARTESIA, OFFICE	
Th. L: 2 3/8		WT: 4.70	
Set At: 10,753		Perforations: From To	
Unit: N		Sec: 6	
Twp: 20		Rge: 29	
Type: S - Single - (Hydrhead - G.C. or G.O. Multiple Dual)		Packer Set At: 10,710	
County: Eddy		State: New Mexico	
Producing thru Casing		Reservoir Temp. °F: 176 @ 10,282	
Mean Annual Temp. °F: 60.0		Baro. Press. - P _a : 13.2	
L: 10,282		H: 10,282	
C _g : .626		% CO ₂ : .80	
% N ₂ : .38		% H ₂ S:	
Prover:		Meter Run: 4.027	
Taps: Flg.			
FLOW DATA			
NO.	Flow Line Size	X	Orifice Size
1	4	x	.750
2	4	x	.750
3	4	x	.750
4	4	x	.750
5	4	x	.750
TUBING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
1	1690		
2	1658		1 hr
3	1640		1/2 hr.
4	1600		1 hr.
5	1527		1 hr.
5	1415		1 hr.
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	Pressure P _a	Flow Temp. Factor Ft.
1	2.661	511.2	.9768
2	2.661	506.2	.9759
3	2.661	507.2	.9759
4	2.661	510.2	.9723
5	2.661	511.2	.9777
Super Compress. Factor, F _{sp}			
1	1.041		
2	1.040		
3	1.040		
4	1.039		
5	1.041		
Rate of Flow Q, Mcfd			
1	123		
2	199		
3	323		
4	456		
5	735		
Gas Liquid Hydrocarbon Ratio dry Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons Deg.			
Specific Gravity Separator Gas .626			
Specific Gravity Flowing Fluid .671			
Critical Pressure 365 P.S.I.A.			
Critical Temperature 365 R			
P ₁ 1703.2 P ₂ 2900.9			
NO.	P ₁	P ₂	P ₁ ² - P ₂ ²
1	1671.2	2792.9	108
2	1653.3	2733.3	167.6
3	1613.4	2603.0	297.9
4	1540.6	2372.4	527.5
5	1429.3	2043.0	857.9
(1) $\frac{P_1^2}{P_2^2 - P_1^2} = 3.381$			
(2) $\frac{P_1^2}{P_2^2 - P_1^2} = 2.612$			
AOR = Q $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 10920$			
SANTA FE			
Absolute Open Flow 1,920 Mcfd @ 15.025			
Angle of Slope 51.75			
Slope, n .788			
Remarks:			
Approval of Division			
Conducted by: Reston & McGowen			
Calculated by: Roy McGowen			
Checked by: Reggie Reston			

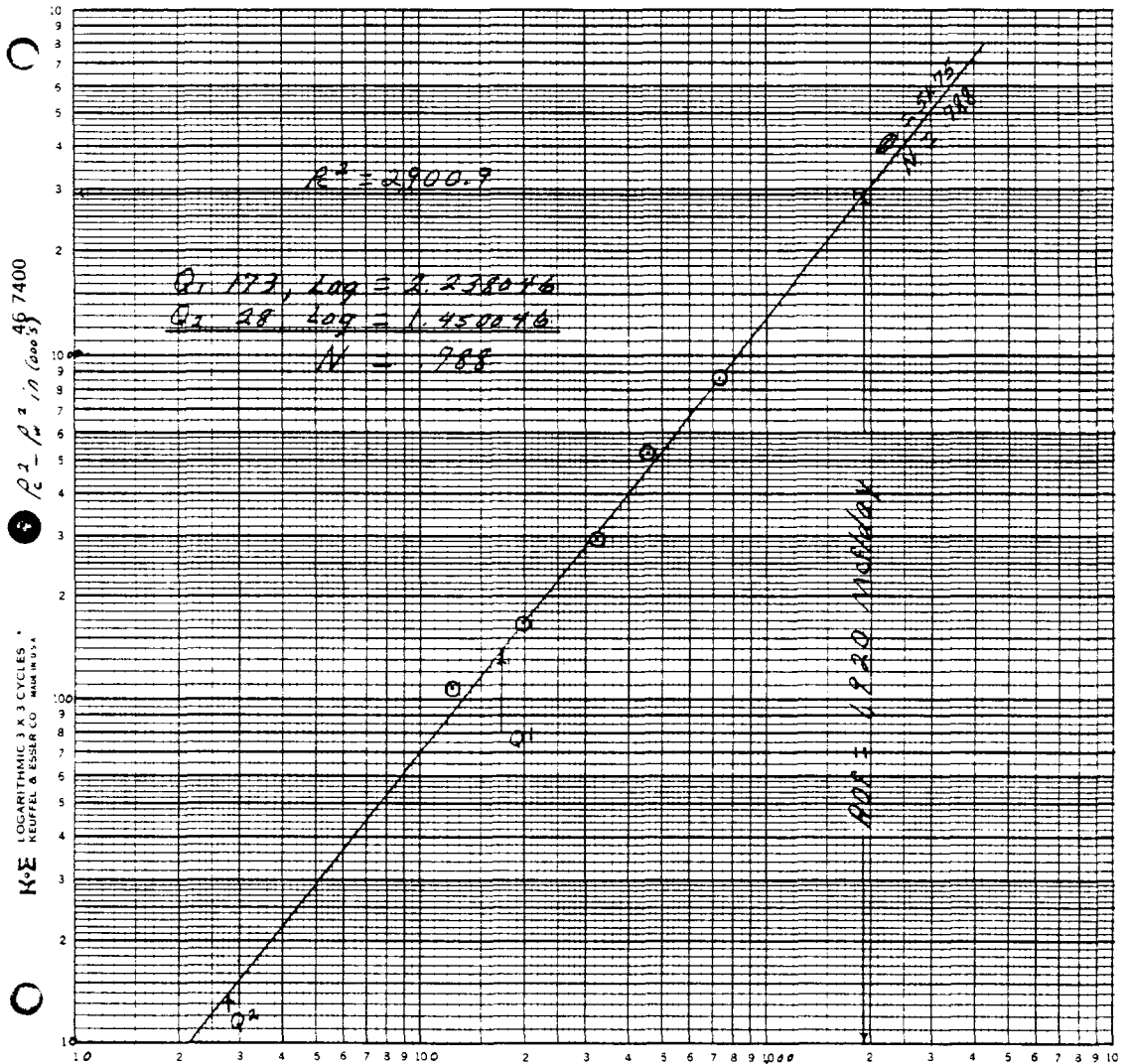
PETROLEUM CORP. OF DELAWARE

Superior No. 6

N 6-20-29

July 2, 1982

Eddy Co., NM



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TRANSPORTER	OIL GAS
OPERATOR	
PRODUCTION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form O-104
Supersedes Old O-104 and O-105
Effective 1-1-65

APR 8 1982

O. C. D.

ARTESIA, OFFICE

1. OPERATOR
THE PETROLEUM CORPORATION /

Address
One Marienfeld Place, Suite 555 Midland, Texas 79701

Reason(s) for filing (Check proper box)
 New Well ☒ Change in Transporter of:
 Recompletion ☐ Oil ☐ Dry Gas ☐
 Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Superior Federal	Well No. 6	Pool Name, including Formation East Burton Flat (Morrow) ^{Strawn}	Kind of Lease State, Federal or Fee Federal	Lease No. NM-0144698
Location Unit Letter <u>N</u> ; <u>660</u> Feet From The <u>South</u> Line and <u>1980</u> Feet From The <u>West</u>				
Line of Section <u>6</u> Township <u>20S</u> Range <u>29E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒ Koch Oil Company	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1558 Breckenridge, Tx. 76024
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ El Paso Natural Gas Company	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1492 El Paso, Tx. 79999
If well produces oil or liquids, give location of tanks. Unit <u>N</u> Sec. <u>6</u> Twp. <u>20S</u> Rge. <u>29E</u>	Is gas actually connected? <u>No</u> When <u>6-10-82</u>

If this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well ☐	Gas Well ☒	New Well ☒	Workover ☐	Deepen ☐	Plug Back ☐	Same (as prev) ☐	Drill, Re-drill ☐
Date Spudded 12-19-81	Date Compl. Ready to Prod. 4-1-82		Total Depth 11,600'		P.B.T.D. 11,559'			
Elevations (DF, RKB, RT, GR, etc.) 3274.4 GR	Name of Producing Formation Strawn		Top Oil/Gas Pay 10219 10,222		Tubing Depth 10,710'			
Perforations 10282'-10294' (25 holes)				Depth Casing Shoe 11,600"				

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
15"	11 3/4	350	350 sacks
11"	8 5/8	3105	2550 sacks
7 7/8"	4 1/2	11600	1775 sacks
	2 3/8	10710	--

IV. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed cap allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 2175	Length of Test 6 hours	Bbls. Condensate/MMCF 88	Gravity of Condensate 52
Testing Method (prior, back pr.) choke coefficient	Tubing Pressure (shut-in) 3090	Casing Pressure (shut-in) packer set	Choke Size 3/4"

V. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Mike Langford
(Signature)

District Superintendent

4-2-82

(Date)

90 day test period under 9-10-82
APPROVED 6-22-82, 19
BY W.A. Gussert
TITLE SUPERVISOR, DISTRICT II

This form is to be filed in compliance with Rule 6.1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a description of the well's route taken on the well in accordance with Rule 6.111.
All sections of this form must be filled out completely for action on new and recompleted wells.
Fill out only Sections I, II, III, and VI for the case of an existing well name or number, or then postscript other such change of condition.

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LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PROBATION OFFICE	
Operator	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND RECEIVED
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form O-104
Supersedes OIL C-104 and OIL C-105
Effective 1-1-85

APR 8 1982

O. C. D.
ARTESIA OFFICE

THE PETROLEUM CORPORATION	
Address	
One Marienfeld Place, Suite 555 Midland, Texas 79701	
Reason(s) for filing (Check proper box)	
New Well ☒	Change in Transporter of: ☐
Recompletion ☐	Oil ☐ Dry Gas ☐
Change in Ownership ☐	Casinghead Gas ☐ Condensate ☐
Other (Please explain)	

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
Superior Federal	6	East Burton Flat (Morrow)	State, Federal or Fee	Federal NM-014469
Location				
Unit Letter	N	660 Feet From The	South Line and	1980 Feet From The
Line of Section	6	Township	20S	Range
			29E	NMPLM, Eddy County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent)
Koch Oil Company	P.O. Box 1558 Breckenridge, Tx. 76024
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	P.O. Box 1492 El Paso, Tx. 79999
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
N 6 20S 29E	yes 6-10-82

If this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same as Prev. Dist. Recv.
		X	X				
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.				
12-19-81	4-1-82	11,600'	11,559'				
Elevations (DF, RKB, RT, CR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth				
3274.4 GR	Morrow	10,732 1/2'	10,710'				
Perforations			Depth Casing Shoe				
11177'-11314' (19 holes)			11,600'				

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
15"	11 3/4"	350	350 sacks
11"	8 5/8"	3105	2550 sacks
7 7/8"	4 1/2"	11600	1775 sacks
	2 3/8"	10710	--

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Text must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
2540	6 hours	TSTM	--
Testing Method (spool, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size
choke coefficient	3150	packer set	16/64"

IV. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Mike Langford
(Signature)

District Superintendent
(Title)

4-2-82
(Date)

OIL CONSERVATION COMMISSION
90 Day Test Period, ends 9-10-82
APPROVED 6-22-82
BY W. A. Lussart
TITLE SUPERVISOR, DISTRICT II

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of tests and tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for either oil or gas and accurate test results.
Fill out only Sections I, II, III, and VI for the oil or gas well name or number, or transporters and other such change of ownership.

N. MEXICO OIL CONSERVATION COMMISS
WELL LOCATION AND ACREAGE DEDICATION PLAT

RECEIVED

9 F
From [unclear]
Supervisor [unclear]
Effective [unclear]

APR 8 1982

All distances must be from the outer boundaries of the Section

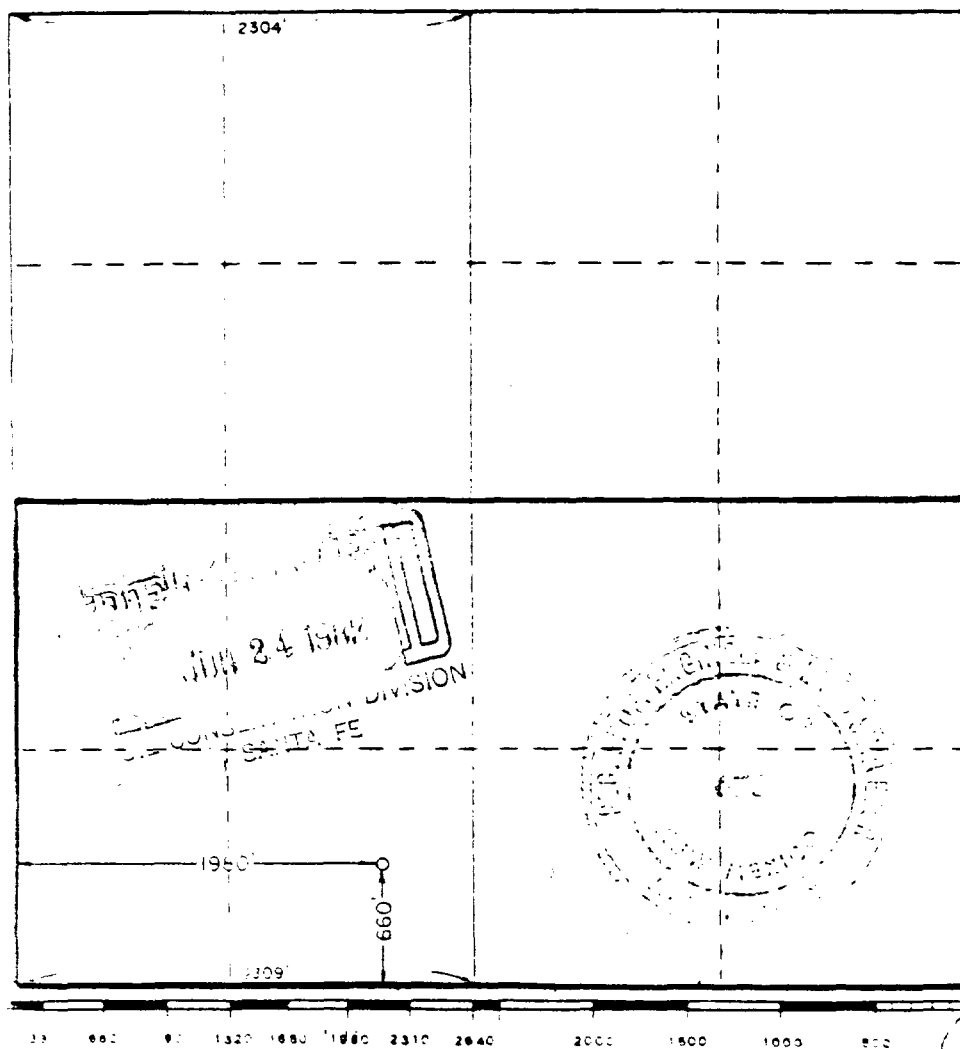
The Petroleum Corp.			Superior Federal O. C. D. ARTESIA, OFFICE		
Section N	6	Township 20 South	Range 29 East	Eddy	
Section 660					
East from the		South	line and	1980	feet from the West
Producing Form	Producing Formation Monk <i>Shaw</i>		Pool East Burton Flat <i>Shaw</i>	Designated Acreage 3283.9	

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

☐ Yes ☐ No If answer is "yes" type of consolidation _____

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

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



CERTIFICATION

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

L. E. Thomas

L. E. Thomas

Manager of Operations

The Petroleum Corp.

October 15, 1981

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
10-10-81

Registered Professional Engineer
and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST 878
PATRICK A. ROMERO 8463
Ronald J. Eidson 3239

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.8.

5. LEASE DESIGNATION AND SERIAL NO.

NM-0144698

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Superior Federal

8. FARM OR LEASE NAME

Superior Federal

9. WELL NO.

6

10. FIELD AND POOL, OR WILDCAT

East Burton Flat
(Morrow)11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 6 - T20S - R29E

12. COUNTY OR
PARISH

Eddy

13. STATE

New Mexico

1a. TYPE OF WELL:

OIL
WELL ☐GAS
WELL ☒DRY ☐

Other

b. TYPE OF COMPLETION:

NEW
WELL ☒WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
CEVBE. ☐

Other

2. NAME OF OPERATOR

THE PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

One Marienfeld Place, Suite 555 Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 660' FSL and 1980' FWL

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

81-NM-306

DATE ISSUED

11-19-81

15. DATE SPUDDED

12-19-81

16. DATE T.D. REACHED

1-26-82

17. DATE COMPL. (Ready to prod.)

4-1-82

18. ELEVATIONS (DF, RER, RT, GR, ETC.)*

3274.4 GR

19. ELEV. CASINGHEAD

3274.4 GR

20. TOTAL DEPTH, MD & TVD

11,600'

21. PLUG, BACK T.D., MD & TVD

11,559'

22. IF MULTIPLE COMPL.,
HOW MANY*

2

23. INTERVALS
DRILLED BY

ROTARY TOOLS

11,600'

CABLE TOOLS

--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

11,177'-11,314' Morrow

25. WAS DIRECTIONAL
SURVEY MADE

yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL, DNL, GR with caliper, CBL

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4	42	350	15"	350 sx.	None
8 5/8	24 & 32	3105	11"	2550 sx.	None
4 1/2	11.6 & 13.5	11,600	7 7/8"	1775 sx.	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	10753	10710

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

11,177'-11,314'

(19-0.25" holes)

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

33.*

DATE FIRST PRODUCTION

3-20-82

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Flowing

WELL STATUS (Producing or
shut-in)

shut in

DATE OF TEST

3-20-82

HOURS TESTED

6

CHOKE SIZE

16/64"

PROD'N. FOR
TEST PERIOD

OIL—BBL.

GAS—MCF.

WATER—BBL.

GAS-OIL RATIO

--

635

--

--

FLOW. TUBING PRESS.

1725

CASING PRESSURE

pkr set

CALCULATED
24-HOUR RATE

OIL—BBL.

GAS—MCF.

WATER—BBL.

OIL GRAVITY-API (CORR.)

--

2540

--

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34. DISPOSITION OF CEMENT, GROUT, ETC. (If cemented, etc.)

Vented

TEST WITNESSED BY

Mike Langford

35. LIST OF ATTACHMENTS

Electric logs, 6-1039-C-107, Deviation Survey, 6-104, Wellbore Sketch

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Mike Langford

TITLE

District Superintendent

DATE

4-2-82

(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

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Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

37. SUMMARY OF POROUS ZONES, SHOW ALL IMPORTANT ZONES OF PERMEABILITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

DESCRIPTION, CONTENTS, ETC.

FORMATION

TOP

BOTTOM

38. GEOLOGIC MARKERS

NAME

MEAS. DEPTH

TOP

TRUE VERT. DEPTH

Anhydrite

Salt

Salt

Yates

7 Rivers

San Andres

Wolfcamp

Penn.

Cisco

Canyon

Strawn

Atoka

Delaware Sand

Bone Springs

Morrow

Morrow Clastics

Barnett

FIELD _____ COUNTY Eddy OCC NUMBER _____
OPERATOR The Petroleum Corp. of Delaware ADDRESS 3303 Lee Parkway, Ste. 505
Dallas, Texas 75219
LEASE Superior Federal / WELL NO. RECEIVED
SURVEY 660' FSL & 1980' FWL of Sec. 6, T-20-S, R-29-E

APR 8 1982

RECORD OF INCLINATION

<u>DEPTH (FEET)</u>	<u>ANGLE OF INCLINATION (DEGREES)</u>
350	1/2
868	1 1/2
1,380	1 1/2
1,712	1
2,142	1
2,476	1
3,093	2
3,607	1
4,100	3/4
4,556	1
5,090	1 3/4
5,588	1 3/4
6,146	3
6,553	2
6,863	1
7,110	1
7,602	1/4
8,062	1/4
8,531	1/4
9,087	1/4
9,613	1/4
10,231	1 1/2
10,657	1 1/4
10,799	1 1/2
11,470	1
11,600	1

O. C. D.
ARTESIA, OFFICE

Certification of personal knowledge inclination data:

I hereby certify that I have personally assembled the data and facts placed on this form, and such information given above is true and complete to the best of my knowledge.

HONDO DRILLING COMPANY

BY: Walter Frederickson
Vice President

Sworn and subscribed to before me the undersigned authority, on this the

19 day of February, 1982.

Margaret B. Anderson Notary Public in and for Midland County, Texas

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

Form approved. RECEIVED
Budget Bureau No. 42-R335.6

LEASE DESIGNATION AND SERIAL NO.

NM-0144698 APR 19 1982

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

O. C. D.

7. UNIT AGREEMENT NAME TESIA, OFFICE

Superior Federal

8. FARM OR LEASE NAME

Superior Federal

9. WELL NO.

6

10. FIELD AND POOL, OR WILDCAT

Blossington Flat
(Strawn)11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 6 - T20S - R29E

12. COUNTY OR
PARISH

Eddy

13. STATE

New Mexico

1a. TYPE OF WELL:

OIL
WELL ☒GAS
WELL ☒DRY ☐

Other

b. TYPE OF COMPLETION:

NEW
WELL ☒WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
CEVR. ☐

Other

2. NAME OF OPERATOR

THE PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

One Marienfeld Place, Suite 555 Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 660' FSL and 1980' FWL

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

81-NM-306

DATE ISSUED

11-19-81

12. COUNTY OR
PARISH

Eddy

13. STATE

New Mexico

15. DATE SPUDDED

12-19-81

16. DATE T.D. REACHED

1-26-82

17. DATE COMPL. (Ready to prod.)

4-1-82

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

3274.4 GR

19. ELEV. CASINGHEAD

3274.4 GR

20. TOTAL DEPTH, MD & TVD

11600'

21. PLUG, BACK T.D., MD & TVD

11559'

22. IF MULTIPLE COMPL.,
HOW MANY*

2

23. INTERVALS
DRILLED BY

ROTARY TOOLS

11,600'

CABLE TOOLS

--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

10282'-10294' Strawn

25. WAS DIRECTIONAL
SURVEY MADE

yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL, DNL, GR with caliper, CBL

27. WAS WELL CORRED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4	42	350	15"	350 sacks	None
8 5/8	24 & 32	3105	11"	2550 sacks	None
4 1/2	11.6&13.5	11600	7 7/8"	1775 sacks	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	10753	10710

31. PERFORATION RECORD (Interval, size and number)

10282'-10294'

(25 - 0.25" holes)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10282'-10294'	2500 gal. 15% HCl acid

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
3-26-82		Flowing				Shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-1-82	6	3/4"	→	48	544	TSTM	11333
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
150	pkf set record →	192	192	2175	TSTM	52	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

Mike Langford

35. LIST OF ATTACHMENTS

6-104, 6-105, 6-107, 6-108 Electric logs, Deviation survey, Wellbore Sketch

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Mike Langford

TITLE District Superintendent

DATE 4-2-82

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

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RECEIVED
APR 24 1982
CONSERVATION
SANTA FE

37. SUMMARY OF POROUS ZONES, SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Red Bed	0	470	
Anhydrite	470	500	
Salt	500	785	
Anhy. & Dolo.	785	995	
Anhy. & Sand	995	1260	
Dolomite	1260	3520	
Sand & Sahle	3520	5594	
Lime	5594	6835	
Lime & Sand	6835	7900	
Lime	7900	8710	
Sand & Lime	8710	9120	
Lime & Sahle	9120	9695	
Shale	9695	10219	
Lime & Shale	10219	11120	
Sand	11120	11454	
Shale	11454	11600	

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Anhydrite	470		
Salt	500		
Salt	785		
Yates	995		
7 Rivers	1330		
San Andres	2362		
Wolfcamp	9092		
Penn.	9667		
Cisco	9884		
Canyon	10030		
Strawn	10219		
Atoka	10488		
Delaware Sand	3520		
Bone Springs	5594		
Morrow	10732		
Morrow Clastics	11150		
Barnett	11454		

FIELD _____ COUNTY Eddy OCC NUMBER _____
OPERATOR The Petroleum Corp. of Delaware ADDRESS 3303 Lee Parkway, Ste. 505
Dallas, Texas 75219
LEASE Superior Federal WELL NO. 6
SURVEY 660' FSL & 1980' FWL of Sec. 6, T-20-S, R-29-E

RECORD OF INCLINATION

<u>DEPTH (FEET)</u>	<u>ANGLE OF INCLINATION (DEGREES)</u>
350	1/2
868	1 1/2
1,380	1 1/2
1,712	1
2,142	1
2,476	1
3,093	2
3,607	1
4,100	3/4
4,556	1
5,090	1 3/4
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6,146	3
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9,087	1/4
9,613	1/4
10,231	1 1/2
10,657	1 1/4
10,799	1 1/2
11,470	1
11,600	1

RECEIVED

APR 19 1982

O. C. D.
ARTESIA, OFFICE

Certification of personal knowledge inclination data:

I hereby certify that I have personally assembled the data and facts placed on this form, and such information given above is true and complete to the best of my knowledge.

HONDO DRILLING COMPANY

BY: _____

Walter Frederickson
Vice President

Sworn and subscribed to before me the undersigned authority, on this the

17 day of February, 1982.

Margaret B. Anderson Notary Public in and for Midland County, Texas
Margaret B. Anderson

THE PETROLEUM CORPORATION

ONE MARIENFELD

SUITE 555

MIDLAND, TEXAS 79701

SUBJECT: Superior Federal Well No. 6	PREPARED BY Mike Langford
660 FSL and 1980 FWL	DATE 4-2-82
Sec. 6, T-19S, R-29E Eddy Co.	SHEET 1 OF 1

East Burton Flat Field

11³/₄ casing set at 350'

8⁵/₈ casing set at 3105'

Producing through casing/tubing
annulus: Brown
10,282 - 10,294 (25 Holes)

Baker Model DB Production packer
set @ 10,710'

2³/₈ tubing set @ 10,753'

Producing through tubing: Morrow
11,177 - 11,314 (19 Holes)

4¹/₂ casing set at 11,600'

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SF

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR
THE PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR Midland,
One Marienfeld Place, Suite 555 Tx. 79701

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL and 1980' FWL
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☒
☐
☐
☒
☐
☐
☐

APR 23 1982
(NOTES: Report results of multiple completion or zone
completion on Form 9-330.)
OIL CONSERVATION DIVISION
SANTA FE

5. LEASE

NM-1044698

6. IF INDIAN, ALLOTTEE OR TRIBE NAME RECEIVED

7. UNIT AGREEMENT NAME

Superior Federal APR 19 1982

8. FARM OR LEASE NAME

Superior Federal O. C. D.

9. WELL NO.

ARTESIA, OFFICE

6

10. FIELD OR WILDCAT NAME

East Burton Flat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 6 - T20S - R29E

12. COUNTY OR PARISH 13. STATE

Eddy New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

-3274.4 GR

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Ran 4 1/2" 13.5# and 11.6#, set at 11,600'. Cemented in 2 stages with 700 sacks and 1075 sacks. DV Tool at 8900'. (1-30-82)
2. 3-17-82 Ran 4 1/2" production packer and set at 10710'.
3. 3-18-82 Perf. Morrow 11267'-11314' (8 holes)
4. 3-20-82 Perf. Morrow 11177'-11236' (11 holes)
5. 3-26-82 Perf. Strawn 10282'-10294' (25 holes)
6. 3-28-82 Acidize Strawn 10282'-10294' with 2500 gallons 15% HCl acid.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Mike Langford TITLE District Supt. DATE 4-2-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL IF ANY:

U.S. GEOLOGICAL SURVEY
POST OFFICE BOX 1000
SANTA FE, NEW MEXICO

*See Instructions on Reverse Side

APPLICATION FOR DRILLING
The Petroleum Corporation
Superior Federal Well No. 6
660' FSL and 1979' FWL
Section 6-T20S-R29E
Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill, subject well in Section 6, Township 20 South, Range 29 East, Eddy County, New Mexico, The Petroleum Corporation submits the following ten items of pertinent information in accordance with U.S.G.S. requirements:

1. The geologic surface formation is Alluvium and Bolson deposits.
2. The estimated tops of geologic markers are as follows:

Yates	1,200'
Seven Rivers	1,425'
Delaware	3,225'
Bone Springs	5,025'
Wolfcamp	9,100'
Strawn	10,200'
Atoka	10,500'
Morrow	10,800'
Barnett Shale	11,450'

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered are:

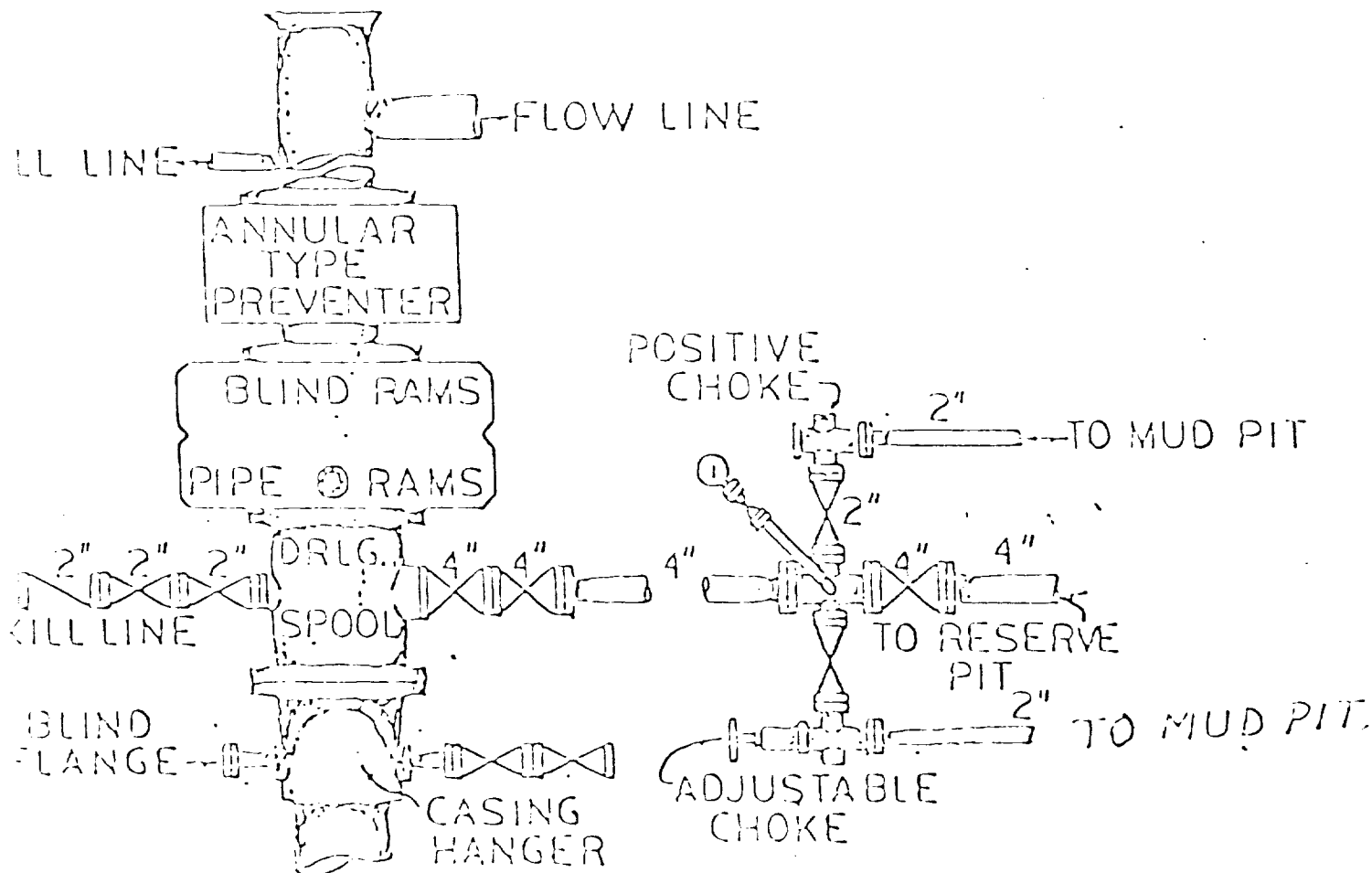
Water:	At approximately 240 feet
Oil or Gas:	Wolfcamp at approximately 9,100'
	Strawn at approximately 10,200'
	Atoka at approximately 10,500'
	Morrow at approximately 10,800'

4. Proposed casing program: See Form 9-331C and Exhibit F (Page 2)
5. Pressure control equipment: See Form 9-331C and Exhibit E
6. Mud Program: See Exhibit F (Page 3)
7. Testing, logging and coring programs: See Exhibit F (Page 2)
8. No abnormal pressures or temperatures are anticipated.
9. Anticipated starting date: As soon as possible.

EXHIBIT E

The Petroleum Corporation
Superior Federal Well No. 6
660' FSL and 1979' FWL
Section 6-T20S-R29E
Eddy County, New Mexico

B.O.P. ARRANGEMENT RIG NO. 3
3000 LB. W.P. B.O.P.
10" CAMERON TYPE-SS HYDRAULIC B.O.P. 3000 P.S.I.
12" G.K. HYDRILL 3000 W.P.
80 GALLON- STATION KOOMEY ACCUMULATOR
3000 LB. W.P. CHOKE MANIFOLD



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR

The Petroleum Corporation

3. ADDRESS OF OPERATOR

One Marienfeld Place, Suite 555, Midland, Tx.

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 350'

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Surface Casing ☐

5. LEASE NM 0144678
~~Superior Federal~~

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
No

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Superior Federal

9. WELL NO.
6

10. FIELD OR WILDCAT NAME
East Burton Flat (Morrow)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 6, T20S, R29E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

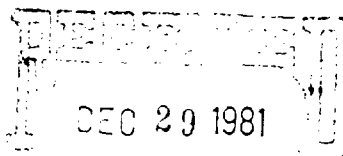
14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3274.4 GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Set 20" conductor at 35', cemented with Redimix.
2. Drilled 15" hole to 350'
3. Ran 10 jts. 350', 11 3/4" O.D. 42#/ft. K-55 ST&C
4. Cemented with 350 sacks Class C + 2% CaCl₂. Cement circulated.



Subsurface Safety Valve: Manu. and Type 10" 3000# BOP's Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED ROGER A. CHAPMAN TITLE Manager

DATE 12-28-81

(This space for Federal or State office use)

APPROVED BY

DEC 31 1981

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-015-23979
NM-0144698

SF

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

The Petroleum Corporation

3. ADDRESS OF OPERATOR

3303 Lee Parkway Dallas, Texas 75219

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At Surface

660' FSL and 1980' FWL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

16 miles NE from Carlsbad, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

660'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

5350'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 3274.4

23.

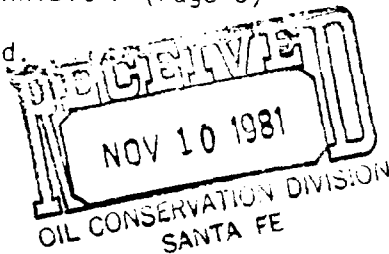
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11 3/4"	42#	350'	Circ. to surface
11"	8 5/8"	24# & 32#	3100'	Circ. to surface
7 7/8"	4 1/2"	11.6# & 13.5#	11,800'	500 sx, Vol to be determined by caliper.

Adequate BOP's to be installed from 350' to total depth. See attached sketch.

Mud Program: See Exhibit F (Page 3)

Gas is not dedicated.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24.

SIGNED

TITLE Manager of Operations

DATE October 13, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NOV 6 1981

JAMES A. GULLYMAN

See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

The Petroleum Corp. of <i>Delaware</i>		Superior Federal		6
660	South	1980	East	Eddy
3203.2	Morrow	East Burton Flat (Morrow)		299.84 300-

Outline the acreage dedicated to the subject well by colored pencil or machine marks on the plat below.

If more than one lease is dedicated to the well, outline each and identify the ownership thereon as to its interest and priority.

If more than one lease of different ownership is dedicated to the well, have the interests of all owners thereon established by communitization, unitization, force-pooling, etc.?

If answer is "No", type of consolidation _____

If answer is "No", list the owners and tract descriptions which have actually been consolidated, in as many words as possible, in as full a form as necessary.

If the well will be used to the well until all interests have been consolidated, by communitization, unitization, force-pooling, etc., or until a non-standard unit, eliminating such interests and then sold by the owner, etc.

2304

RECEIVED
NOV 10 1981
OIL CONSERVATION DIVISION
SANTA FE

22.93

CERTIFICATION

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

L. E. Thomas

L. E. Thomas

Manager of Operations

The Petroleum Corp.

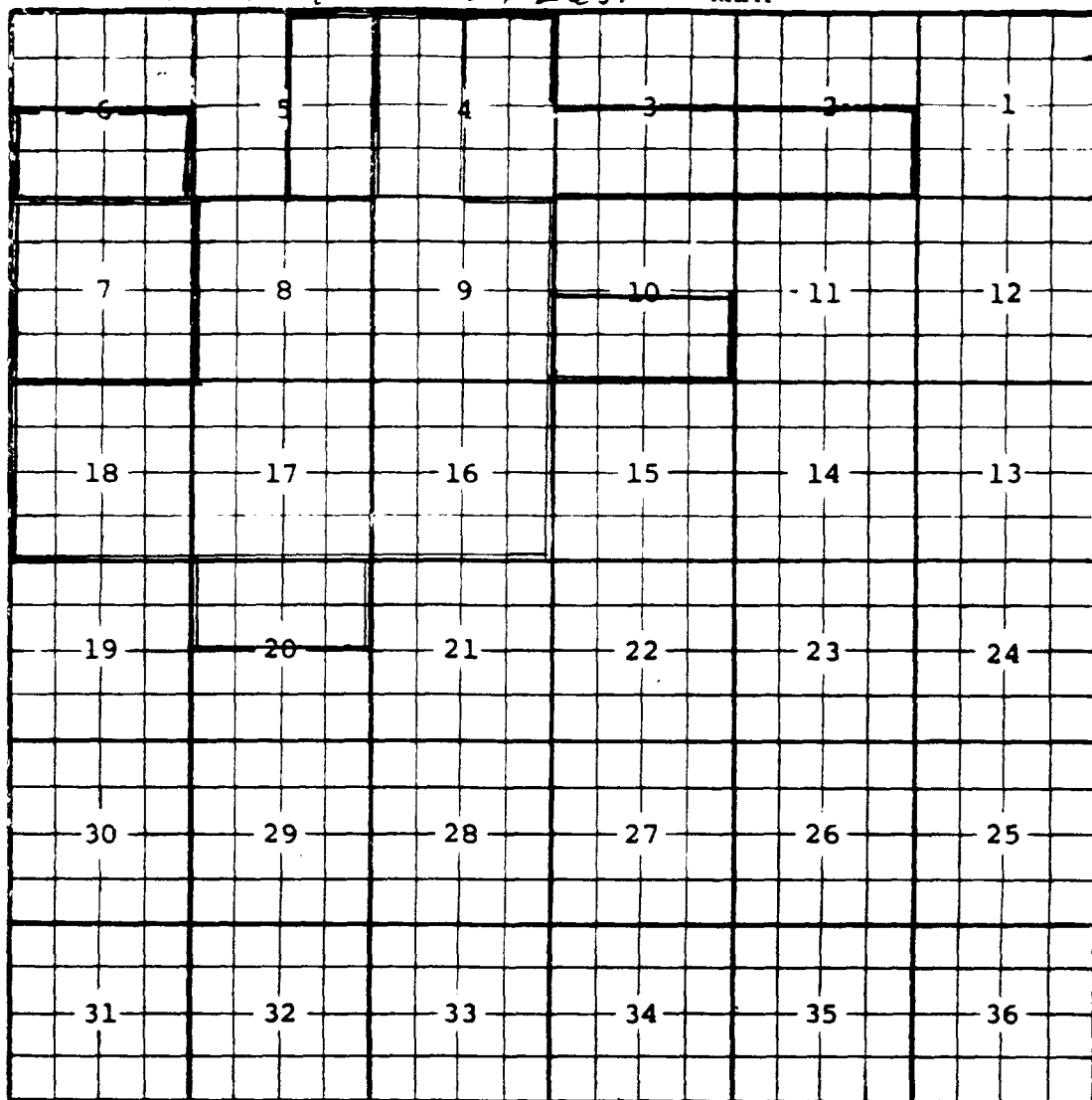
October 15, 1981

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

10-15-81

[Signature]

10-15-81
PATRICIA J. MERO, ASST.
SANTA FE, N.M.

COUNTY Eddy POOL East Burton Flat - Morrow GasTOWNSHIP 20 South RANGE 29 East NMPM

Description: $\frac{1}{2}$ Sec 4, All Sec 8, 9, 16, 17 & 18 (R-5282, 9-1-76)

Ext: $\frac{1}{2}$ Sec 20 (R-5456, 7-1-77) Ext: All Sec 7 (R-5667, 4-1-78)

Ext: $\frac{1}{2}$ Sec 5 (R-5838, 11-1-78) EXT: $\frac{1}{2}$ Sec 6 (R-7009, 6-19-82)

Ext: $\frac{1}{2}$ Sec 2, $\frac{1}{2}$ Sec 3, $\frac{1}{2}$ Sec 4 (R-7875, 4-16-85)

Ext: $\frac{1}{2}$ Sec 10 (R-8065, 10-31-85)

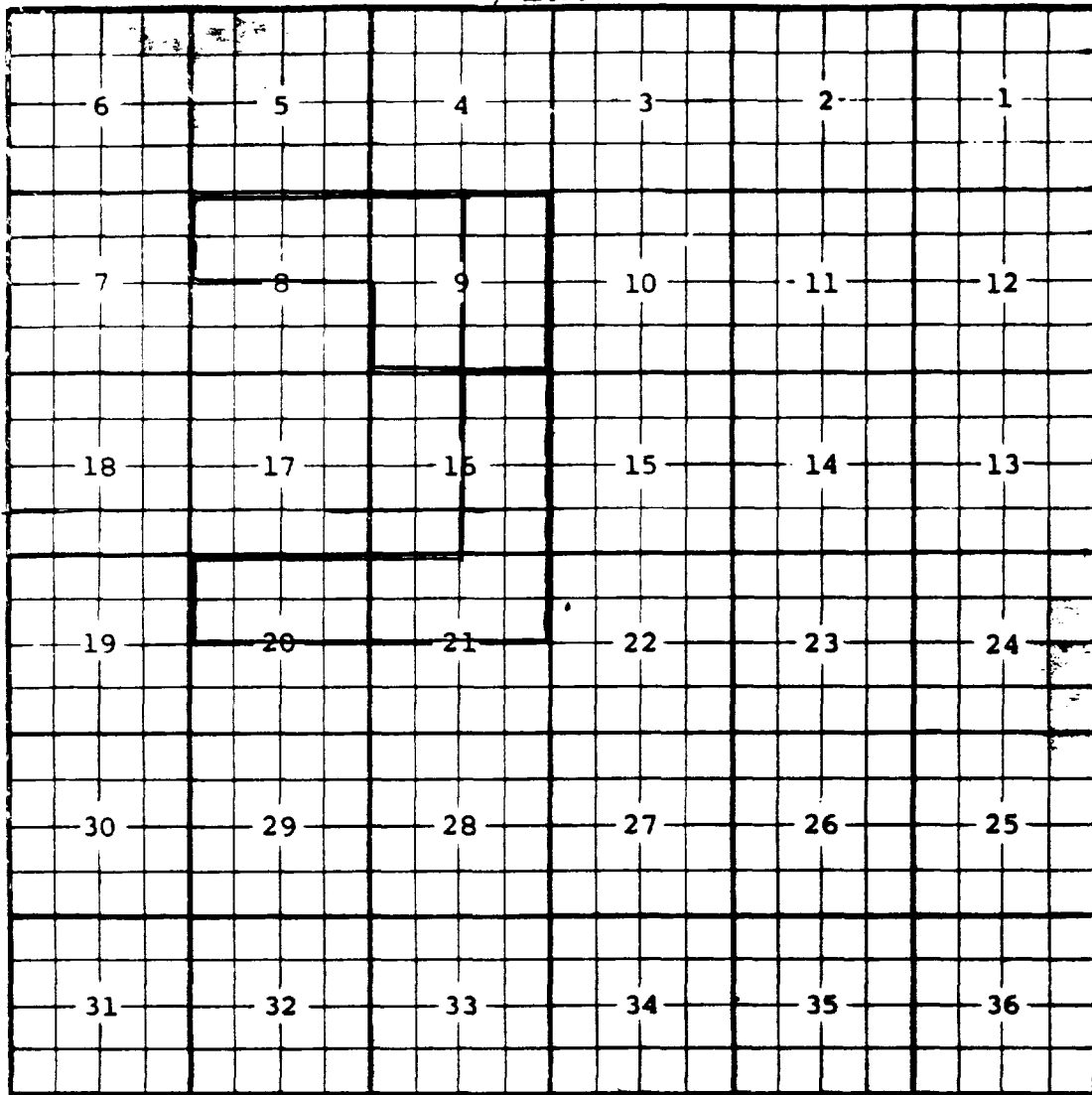
COUNTY Eddy

POOL East Burton Flat - Atoka Gas

TOWNSHIP 20 South

RANGE 29 East

NMPM



Description of Sec 9 (R-5417, 4-1-77)

Ex 20 & 21 (R-5781, 9-1-78)

Ex 26, 27 & 28 (R-576, 2-10-81)

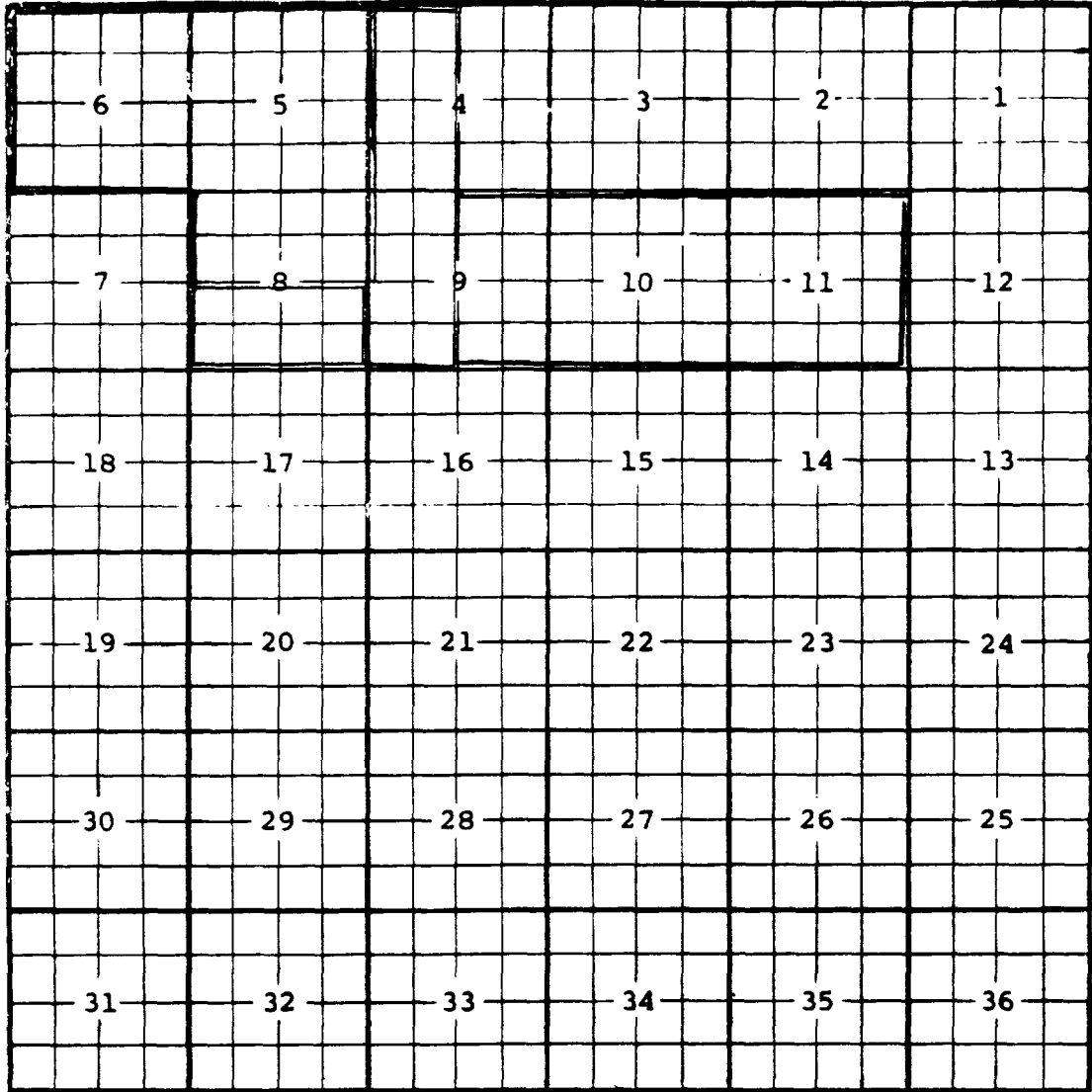
COUNTY Eddy

POOL East Burton Flat-Strawn Gas

TOWNSHIP 20 South

RANGE 29 East

NMPM



Description: 5/2 Sec 8 (R-5252, 9-1-76)

Ext: W/2 Sec 4, W/2 Sec 9 (R-5511, 9-1-77)

Ext: W/2 Sec 9, All Sec 10, All Sec 11 (R-7158, 12-8-82)

Ext: All Sec 6, All Sec 7, W/2 Sec 8 (A-7307, 6-14-83)