STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

ADMINISTRATIVE ORDER
NFL 23

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

I.

Operator El Paso Natural Gas Co. Well Name and No. Texas Pacific Com Well No. 1R

Location: Unit O Sec. 16 Twp. 29N Rng. 10W Cty. San Juan

II.

THE DIVISION FINDS:

(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.

(2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) That the well for which a finding is sought is completed in the Aztec-Pictured Cliffs Gas Pool, and the standard spacing unit in said pool is 160 acres.

(4) That a 156.44 -acre proration unit comprising the SE/4 of Sec. 16, Twp. 29N, Rng. 10W, is currently dedicated to the Texas Pacific Com Well No. 1 located in Unit I of said section.

(5) That this proration unit is (X) standard ( ) 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 170-200 M MCF of gas from the proration unit which would not otherwise be recovered.

(8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this 6th day of February, 19 81.

DIVISION DIRECTOR _____ EXAMINER _____

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

ADMINISTRATIVE ORDER
NFL 23

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

I.

Operator El Paso Natural Gas Co Well Name and No. Texas Pacific Com Well No 1R

Location: Unit O Sec. 16 Twp. 29N Rng. 10W Cty. San Juan

II.

THE DIVISION FINDS:

(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.

(2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) That the well for which a finding is sought is to be completed in the Fruitland-Pictured Cliffs Gas Pool, and the standard spacing unit in said pool is 160 acres.

(4) That a 156.44-acre proration unit comprising the SE/4 of Sec. 16, Twp. 29 N, Rng. 10 W, is currently dedicated to the Texas Pacific Com well No 1 located in Unit I of said section.

(5) That this proration unit is (X) standard ( ) 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 170-200 M MCF of gas from the proration unit which would not otherwise be recovered.

(8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this 6th day of Feb, 1981.

DIVISION DIRECTOR ___ EXAMINER ___

El Paso NATURAL GAS COMPANY

P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

October 14, 1980

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

RECEIVED
OCT 21 1980
Oil Conservation

Attention: Mr. Joe D. Ramey

Dear Mr. Ramey:

Re: El Paso Natural Gas Company
Texas Pacific Com. No. 1R,
SE/4, Section 16, T-29-N, R-10-W,
Aztec Pictured Cliffs Pool,
San Juan County, New Mexico

Enclosed you will find both an application for determination under the NGPA and a request for an administrative finding that the drilling and completing of our Texas Pacific Com. No. 1R is necessary to effectively and efficiently drain the proration unit. This well is completed in the Aztec Pictured Cliffs Pool and is the second well on the proration unit.

We send these instruments together and request that upon an affirmative finding that the well is necessary, that you will incorporate said finding with the application for determination and then consider the application for determination.

We think that this will comply with NMOCD Order Nos. R-5878-B and R-6013-A.

Should you feel that we should file these instruments in a different manner, please advise.

Very truly yours,

D. R. Balmer
Reservoir Engineering Dept.

DRB:cc

Enclosures

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

January 19, 1981

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

Mr. Don Balmer
El Paso Natural Gas Co.
P. O. Box 1492
El Paso, Texas 79978

letter to Joe re latest to NGPA application Dec 15

Re: Request for Infill Findings,
Texas Pacific Com Well No. 1R,
Unit O, Sec. 16, T-29-N, R-10-W,
San Juan County, New Mexico

Dear Mr. Balmer:

The subject application was received on October 21, 1980. It was also the subject of a later meeting between us wherein we attempted to arrive at a set of guidelines for such applications.

This latter process being unsuccessfully completed, we are requesting the following data in order to process the application originally received:

(1) Any current shut-in pressures on Well No. 1.

(2) An explanation of the data used to establish the remaining recoverable reserves on the surrounding proration units.

1972 last test Joe

(3) A volumetric reserves calculation for Well No. 1R showing the data upon which such calculations was based.

525 million. 225 remaining recoverable

Sincerely,

R. L. STAMETS
Technical Support Chief

RLS/dr

El Paso NATURAL GAS COMPANY

P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

January 26, 1981

NGPA

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

Attention: Mr. R. L. Stamets

Dear Sir:

Re: Texas Pacific Com. No. 1R
O-16-29N-10W
Aztec Pictured Cliffs Field
San Juan County, New Mexico

In answer to your recent letter, responses to your three requests are as follows:

Request No. 1: Any current shut-in pressure on Well No. 1.

Response No. 1: This well is classified as exempt marginal, therefore, we have no recent shut-in pressures. The latest shut-in pressure taken was on May 11, 1972 and was 310 psia.

Request No. 2: An explanation of the data used to establish the remaining recoverable reserves on the surrounding proration units.

Response No. 2: Mr. Joe Ramey asked for the same information in an earlier request. We answered him in a letter dated December 15, 1980. A copy of our letter, with attachments, is enclosed.

} Section 103 NGPA file this well

RECEIVED
JAN 29 1981
OIL CONSERVATION DIVISION
SANTA FE

Request No. 3: A volumetric reserve calculation for Well No. 1R showing the data upon which such calculations was based.

Response No. 3: Attached is a volumetric calculation worksheet showing the various factors used in arriving at an estimated gas in place of 200 MMcf.

Yours very truly,

Don A Balmer

D. R. Balmer
Reservoir Engineering Dept.

DRB:cc

Enclosures

El Paso NATURAL GAS COMPANY

P. O. BOX 1492
EL PASO, TEXAS 79978

PHONE: 915-543-2600

December 15, 1980

NGPA

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

Attention: Mr. Joe D. Ramey

Dear Sir:

Re: Texas Pacific Com. No. 1R
O-16-29N-10W
Aztec Pictured Cliffs Field
San Juan County, New Mexico

Per your request, attached are copies of pressure-decline curves on wells located on proration units adjacent to the subject well's proration unit. Also attached is a work sheet that shows how we estimated the additional reserves to be recovered as a result of drilling and completing the Texas Pacific Com. No. 1R.

You also inquired as to whether a volumetric determination could be made utilizing information from the new well. We feel that if the volumetric approach is to be used, logs from surrounding wells should be reviewed and an isopach of the pay be constructed so as to determine thickening and thinning within the proration unit. After planimetering the proration unit, a volumetric gas in place estimate could be made. This would be the most desirable approach to the volumetric method. However, a volumetric approach would still require an estimate of a recovery factor which is extremely difficult to determine in the San Juan Basin. But if on the other hand, these same surrounding wells have some pressure-production performance history, then this performance is a more reliable tool to use to estimate additional reserves to be recovered.

Inasmuch as we do have pressure-production performance on the surrounding proration units, we chose to use this method.

Yours very truly,

D. R. Balmer
Reservoir Engineering Dept.

DRB:cc

Attachments

CALCULATION WORKSHEET FOR ESTIMATING ADDITIONAL GAS
TO BE RECOVERED FROM PRORATION UNIT AS A
RESULT OF DRILLING THE EPNG TEXAS PACIFIC COM. NO. 1R,
SE/4, SECTION 16, T-29-N, R-10-W,
AZTEC PICTURED CLIFFS FIELD, SAN JUAN COUNTY, NEW MEXICO

(Volumes MMcf At 15.025 Psia)

Well Name And Number	Location U-S-T-R	Original[1] Recoverable Reserves	7-1-80 Cumulative Production	7-1-80 Remaining Recoverable Reserves
Schultz Com. A #5	D-16-29-10	690	515	175
Schultz Com. D #8	A-16-29-10	820	637	183
Schultz Com. B #6	M-16-29-10	1,320	977	343
Hare #6	F-15-29-10	1,400	931	469
Albright #1	M-15-29-10	790	571	219
San Jacinto #5	E-21-29-10	1,900	1,388	512
San Jacinto #4	B-21-29-10	1,400	998	402
Albright #2[2]	D-22-29-10	174	134	40
J. Albright #2 PC[2]	E-22-29-10	300	8	292
Total		8,794	6,159	2,635
Average For Eight Proration Units		1,099	770	329
Texas Pacific Com. #1	I-16-29-10	400	242	158
Texas Pacific Com. #1-R	O-16-29-10	171	-0-	171[3]

1/ Pressure decline curves enclosed.
2/ Share common proration unit.
3/ 329 MMcf - 158 MM = 171 MM $\cong$ 170 MM = Estimate of additional gas to be recovered from the proration unit.

PLOT SYMBOLS: WHP - •
BHP/Z - X

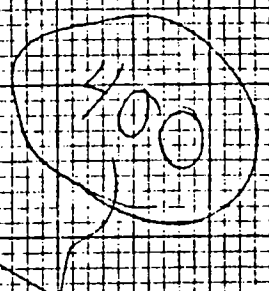
FIELD	AZTEC	RUN DATE YR. MO. DA.
RESERVOIR	PICTURED CLIFFS	74 03 01
WELL NAME & NO.	WELL LOCATION U SEC. 16 TWP. 29 RNG. 10	SITE 72015
TEXAS PACIFIC COM #1 01		METER 72015 01

TEST DATE YR. MO. DA.	SIP	BHP	BHP/Z	Q	WELLHEAD FLOW PRESS	FLOW PRESS	STATIC PRESSURE	MSCF CUM
58 01 10	669.0	0	0	0	0.0	0.0	0.0	0
63 07 22	382.0	0	0	49	0.0	0.0	231.0	93
64 02 07	375.0	0	0	50	249.0	249.0	249.0	101
65 02 01	310.0	0	0	30	237.0	237.0	237.0	114
66 02 04	357.0	0	0	22	251.0	251.0	251.0	129
67 02 15	352.0	0	0	30	245.0	245.0	245.0	138
68 02 02	354.0	0	0	30	227.0	227.0	227.0	148
69 02 04	344.0	0	0	29	221.0	221.0	221.0	158
70 08 10	322.0	0	0	26	176.0	176.0	176.0	174
71 08 13	318.0	0	0	26	168.0	168.0	168.0	183
72 05 11	310.0	0	0	23	167.0	167.0	167.0	189

PRESSURE - PSIA

1000
900
800
700
600
500
400
300
200
100
0

0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60



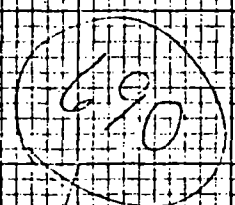
PLOT SYMBOLS: WHSIP = •
BHP/Z = X

FIELD	AZTEC								RUN DATE YR. MO. DA.
RESERVOIR	PICTURED CLIFFS								77 08 23
WELL NAME & NO.				WELL LOCATION U SEC. TWP RNG			SITE	74446	
SCHULTZ COM A #5				D 16 29N 10W			METER	7444601	
TEST DATE YR. MO. DA.	SIP	BHP	BHP/Z	Q	WELLHEAD FLOW PRESS	STATIC FLOW PRESS	METER PRESSURE	MCF/D CUM
56 07 19	649	0	0	0	0	0	0	0
66 02 04	284	0	0	43	250	251	249	288
67 02 15	272	0	0	53	242	242	242	310
68 02 02	263	0	0	58	218	218	217	328
69 02 04	267	0	0	46	230	231	230	346
70 08 18	239	0	0	54	190	192	185	373
71 08 13	184	0	0	56	166	166	166	393
72 05 11	221	0	0	40	156	157	155	406
*73 06 05	211	0	0	46	151	153	150	424
75 05 12	206	0	0	38	144	145	142	456
77 05 09	212	0	0	31	120	121	120	480

PRESSURE, PSIA

1000
900
800
700
600
500
400
300
200
100
0

0.00 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20



PLOT SYMBOLS WHSIP - •
BHP/Z x

FIELD / RESERVOIR	AZTEC PICTURED CLIFFS					RUN DATE YR. MO. DA
WELL NAME AND NO.		WELL LOCATION U SEC. TWP RNG			SITE METER	79 08 09
SCHULTZ COM D #8 01		A 16 29N 10W			72035 - 6 7203501	

TEST DATE YR.	MO.	DA.	SIP	BHP	BHP/Z	Q	WELLHEAD FLOWPRESS.	STATIC FLOWPRESS.	METER PRESSURE	METER CUM.
58	02	20	692	0	0	0	0	0	0	0
67	02	15	409	0	0	107	247	247	247	258
68	02	02	393	0	0	104	216	216	216	284
69	02	04	350	0	0	118	234	241	233	319
70	03	11	339	0	0	152	186	200	184	352
71	08	13	308	0	0	115	172	181	171	396
72	05	11	279	0	0	111	166	175	163	423
73	06	05	256	0	0	103	157	165	157	457
75	05	12	247	0	0	84	143	149	143	517
77	05	09	226	0	0	71	123	128	123	564
79	07	10	169	0	0	64	138	142	138	615

OPERATOR - EL PASO NATURAL GAS CO

PRESSURE - PSIA

1000
900
800
700
600
500
400
300
200
100
0

0.00 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20

820

PLOT SYMBOLS WBHP •
BHP/Z - X

FIELD / RESERVOIR	AZTEC PICTURED CLIFFS						RUN DATE YR. MO. DA
WELL NAME AND NO.		WELL LOCATION U SEC. TWP RNG.			SITE		79 08 09
SCHULTZ COM B #6 01		M 16 29N 10W			METER	7444701	

TEST DATE YR. MO. DA.	SIP	BHP	BHP/Z	Q	WELLHEAD FLOW PRESS	STATIC FLOW PRESS	METER PRESSURE	DRIFT CUM
56 09 27	648	0	0	0	0	0	0	0
67 02 15	292	0	0	153	237	237	237	640
68 02 02	264	0	0	137	217	217	216	687
69 02 04	262	0	0	86	226	230	224	722
70 03 11	238	0	0	109	190	198	187	757
71 08 13	205	0	0	91	165	171	165	803
72 05 11	203	0	0	73	174	178	173	820
73 06 15	190	0	0	67	159	162	159	840
75 05 12	181	0	0	64	147	150	146	887
77 05 09	169	0	0	51	124	127	124	923
79 07 10	164	0	0	40	137	138	137	961

OPERATOR - EL PASO NATURAL GAS CO

PRESSURE - PSIA

1000
900
800
700
600
500
400
300
200
100
0

0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40

1320

PLOT SYMBOLS: WHSIP = •
BHP/Z = X

FIELD	AZTEC								RUN DATE YR. MO. DA.
RESEVOIR	PICTURED CLIFFS								79 10 29
WELL NAME & NO.		WELL LOCATION U SEC.	TWP	RNG			METER		12238 - 6
HARE #6									
01		F 15	29N	10W					

TEST DATE YR. MO. DA.	SIP	BHP	BHP/Z	Q	WELLHEAD FLOW PRESS.	STATIC FLOW PRESS.	METER PRESSURE	MMCF CUM
56 04 25	686	0	0	0	0	0	0	0
67 02 19	331	0	0	142	222	222	218	601
68 04 17	296	0	0	170	212	212	207	663
69 04 17	293	0	0	104	239	239	236	701
70 05 17	284	0	0	107	233	233	230	731
71 05 18	250	0	0	117	198	198	196	769
X 72 05 16	251	0	0	48	192	192	188	801
73 05 18	270	0	0	32	176	176	174	815
75 05 03	232	0	0	51	141	141	149	866
77 07 03	223	0	0	32	158	158	158	897
79 05 02	232	0	0	30	156	156	155	921

OPERATOR — AZTEC OIL & GAS CO

PRESSURE PSIA

1000
900
800
700
600
500
400
300
200
100
0

0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40

400

PLOT SYMBOLS BHP/Z = •
BHP/Z = X

FIELD	AZTEC							RUN DATE YR. MO. DA.
RESERVOIR	PICTURED CLIFFS							79 10 17
WELL NAME & NO.		WELL LOCATION U	SEC.	TWP	RNG	SITE	16001 - 6	
ALBRIGHT #1 01		M	15	29N	10W	METER		

TEST DATE YR.	MO.	DA.	SIP	BHP	BHP/Z	Q	WELLHEAD FLOW PRESS	STATIC FLOW PRESS	METER PRESSURE	MMCF CUM
59	10	06	689	0	0	0	0	0	0	0
67	06	17	277	0	0	79	194	194	193	372
68	06	17	262	0	0	63	218	218	217	397
69	01	17	291	0	0	28	242	242	242	405
70	09	01	279	0	0	36	233	233	233	431
71	06	17	244	0	0	52	184	184	184	447
X 72	07	16	243	0	0	55	182	182	181	465
73	06	01	237	0	0	45	166	166	165	480
75	06	16	220	0	0	53	140	140	140	513
77	06	17	209	0	0	34	139	139	139	540
79	04	15	217	0	0	33	127	128	126	558

OPERATOR - SUPRON ENERGY CORP

PRESSURE, PSIA

1000
900
800
700
600
500
400
300
200
100
0

0.00 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20

790

PLOT SYMBOLS: WHSIP - •
BHP/Z - x

FIELD (RESERVOIR)	AZTEC PICTURED CLIFFS						RUN DATE YR. MO. DA.
WELL NAME AND NO.		WELL LOCATION U SEC. TWP RNG			SITE METER		79. 08. 09.
SAN JACINTO #5 01		E 21 29N 10W			72386 - 0 7238601		
TEST DATE YR. MO. DA.	SIP	BHP	BHP/Z	Q	WELLHEAD FLOW PRESS	STATIC FLOW PRESS	METER PRESSURE	CUM CUM
58 11 20	612	0	0	0	0	0	0	0
67 02 15	281	0	0	119	242	244	241	863
68 02 02	270	0	0	186	220	224	219	918
69 02 04	263	0	0	106	228	229	226	968
70 08 18	223	0	0	211	187	193	185	1052
71 08 13	207	0	0	172	163	168	162	1115
72 05 11	207	0	0	154	160	164	159	1150
73 06 05	194	0	0	89	155	156	155	1194
75 05 12	188	0	0	76	144	145	143	1262
77 05 09	174	0	0	88	123	125	122	1316
79 07 10	169	0	0	59	133	134	133	1369

OPERATOR - EL PASO NATURAL GAS CO

PRESSURE PSIA

1000
900
800
700
600
500
400
300
200
100
0

0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40

100

PLOT SYMBOLS. WHSIP = •
BHP/Z = X

FIELD	AZTEC	RUN DATE YR. MO. DA.
RESEVOIR	PICTURED CLIFFS	77 06 14
WELL NAME & NO.	WELL LOCATION U SEC. TWP RNG	SITE 72015
SAN JACINTO #4 C1	B 21 29N 10W	METER 72015G1

TEST DATE YR. MO. DA.	SIP	BHP	BHP/Z	Q	WELLHEAD FLOW PRESS	STATIC FLOW PRESS	METER PRESSURE	MCFD CUM
57 12 31	662	0	0	0	0	0	0	0
66 02 04	304	0	0	121	249	251	246	617
67 02 15	295	0	0	105	240	241	245	664
68 02 02	277	0	0	106	221	222	221	705
69 02 04	277	0	0	92	229	230	226	738
70 03 11	266	0	0	79	190	191	188	774
71 08 13	219	0	0	98	173	174	172	831
72 05 11	226	0	0	88	166	167	166	855
73 06 05	215	0	0	66	156	157	155	884
75 05 12	213	0	0	51	147	147	145	934
77 05 09	186	0	0	65	124	125	124	976

PRESSURE - PSIA

1000
900
800
700
600
500
400
300
200
100
0

0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40

1100

PLOT SYMBOLS: BHSIP = *
BHP/Z = X

FIELD	AZTEC								RUN DATE YR. MO. DA.
RESERVOIR	PICTURED CLIFFS								79 10 17
WELL NAME & NO.		WELL LOCATION U SEC. TWP RNG				SITE METER	16002 - 4		
ALBRIGHT #2 01		D 22 29N 10W							
TEST DATE YR. MO. DA.	SIP	BHP	BHP/Z	Q	WELLHEAD FLOW PRESS	STATIC FLOW PRESS	METER PRESSURE	MMCF CUM	
56 09 12	679	0	0	0	0	0	0	0	
62 09 26	288	0	0	26	234	234	234	91	
63 05 01	266	0	0	31	191	191	190	95	
64 06 24	312	0	0	27	248	248	248	102	
65 04 08	250	0	0	14	231	280	230	109	
71 02 01	454	0	0	36	0	350	349	114	
X72 05 24	214	0	0	11	176	176	176	121	
73 06 01	185	0	0	6	161	161	161	124	
75 06 16	154	0	0	6	136	136	136	128	
77 06 17	152	0	0	3	140	140	140	131	
79 04 15	150	0	0	6	145	145	125	133	

OPERATOR - SUPRON ENERGY CORP

Disc. 1966, Reconnect 1-21-71

1974

PRESSURE - PSIA

1000
900
800
700
600
500
400
300
200
100
0

0.00 0.02 0.04 0.06 0.08 0.10 0.12 0.14 0.16 0.18 0.20 0.22 0.24

FM 12 145 Rev 4-80)

PLOT SYMBOLS: WHSIP = * BHP/Z = X BHP (BOMB) = @

FIELD	AZTEC		STATE	NEW MEXICO	METER	RUN DATE YR MO DA
RESERVOIR	PICTURED CLIFFS		COUNTY	SAN JUAN		80 08 19
WELL NAME & NO.	WELL LOCATION		WELL STATUS	PRODUCING	BRID NO.	
J ALBRIGHT #2 PC	SURV U SEC TWP RNG NEWM E 22 29N 13W		OPER SOS	SUPRON ENERGY CORP PICTURED CLIFFS SYSTEM	SITE	16002-4-02

TEST TYPE	TEST DATE YR MO DA	SIP	HRS SI	BHP	BHP/Z	Q	WELLHEAD FLOW PRESS	STATIC FLOW PRESS	METER PRESSURE	H2O Bbls/D	H2OBbls/ MMCF	COND Bbls/D	COND Bbls/ MMCF	MMCF CUM
A	80 01 31	291	0	0	0	72	129	129	120	3	0.0	0.0	0.0	4
A	80 04 23	297 ✓	0	0	0	31 ✓	128 ✓	128 ✓	125 ✓	0	0.0	0.0	0.0	8

PRESSURE - PSIA

1000 900 800 700 600 500 400 300 200 100 0

0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60

C

300

operator: EPNG well Name: Texas Pacific #1-R

CALCULATION SHEET
ASSOCIATED OR NON-ASSOCIATED GAS RESERVES
PORE VOLUME METHOD

Location: O 16-29-10
Sec 16, 29N, 10W

FLD Aztec RESERVOIR Picture Cliff Perfs: 1957-2017

COUNTY San Juan STATE NM

ITEM	RESERVOIR DATA	SOURCE OF DATA
1.	Fractional porosity, f = o. 163	
2.	Interstitial Water Saturation, S_w = 0. 552	
3.	Net pay thickness, h = 1 ft.	Log 18 Map
4.	Area of gas zone, A = 1 acres	
5.	Reservoir volume, Ah = 1 ac.ft.	
6.	Gas Gravity = .642; Reservoir Temp. 92 °F + 460 = 552 °R	
	Orig. reservoir press. = 339.52 psia; Terminal res. press. = 60 psia	
	Pseudo-critical pressure, P_c = _____ psia	
	Pseudo-critical temp., T_c = _____ °R; T_r = _____	
7.	Original conditions: P_r = _____ : Z_o = .948	
8.	Terminal conditions: P_r = _____ : Z_a = .996	

9. Vol. of gas zone, $V_1 = 43,560\ f\ (1 - S_w)\ Ah = 43,560\ (0.163)(0.448)(\ 1\ )$

$= 3181$ cu. ft.

Orig. gas-in-place $= V_1 \times \frac{P_o}{14.73} \times \frac{520}{TZ_o}$

WHP 324 PSIA
IP AOF 217 Mcf/D
Rw .2

$= (\text{Item 9}) \times \frac{P_o \text{ (from Item 6)}}{14.73} \times \frac{520}{TZ_o}$

$\frac{P_o}{14.73} = \frac{15.025}{}$

$= (3181) \cdot \frac{(339.52)}{15.025} \cdot \frac{520}{(552)(.948)}$

71.4 M cf/Ac-Ft

11. Gas-in-place @ abd. $= V_1 \times \frac{P_a}{14.73} \times \frac{520}{TZ_a}$

$= (\ \ ) \cdot \frac{(\ \ \ \ )}{14.73} \cdot \frac{520}{(\ \ )(\ \ )}$

$=$ _____ M cf/Ac.FT

12. Orig. gas reserves = Item 10 - Item 11 = _____ - _____

$=$ _____ M cf/Ac.FT

$\frac{71.4}{1000} \times 156$ acres $\times 18' = 200$ M²CFGIP

El Paso NATURAL GAS COMPANY

P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

October 14, 1980

RECEIVED
OCT 21 1980
Oil Conservation

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

Dear Sir:

Re: Request For An Administrative Finding That The Drilling Of The El Paso Natural Gas Company Texas Pacific Com. No. 1R, Located In Unit O, Section 16, T-29-N, R-10-W, Aztec Pictured Cliffs Field, San Juan County, New Mexico, Was Necessary To Effectively And Efficiently Drain A Portion Of The Reservoir Covered By The Proration Unit Which Could Not Be Effectively And Efficiently Drained By Any Existing Well Within The Proration Unit.

Pursuant to New Mexico Oil Conservation Division Order No. R-6013-A dated February 8, 1980 and §271.305(b) of the final regulations of the Natural Gas Policy Act of 1978 (NGPA), we respectfully request a finding from your office that the drilling of the El Paso Natural Gas Company Texas Pacific Com. No. 1R was necessary to effectively and efficiently drain a portion of the Aztec Pictured Cliffs Field covered by the proration unit which could not be effectively and efficiently drained by any existing well within the proration unit. The proration unit is described as SE/4, Section 16, T-21-N, R-10-W, San Juan County, New Mexico.

The standard proration (spacing) unit for the Aztec Pictured Cliffs Field is 160 acres. We have included a copy of the field rules applicable to the subject proration unit.

The support for this finding is attached and described below.

1. NMOCC Forms C-101 and C-102 - Copies of approved application to drill and proration unit dedicated.

2. NMOCC Form C-103 - Copy of sundry notice advising that all reports filed on subject well should reflect Aztec Pictured Cliffs Field.

3. NMOCC Form C-105 - Copy of well completion report filed on the EPNG Texas Pacific Com. No. 1R.

4. Well Status Report - Current status of the two wells drilled and completed in the Aztec Pictured Cliffs Field within the subject proration unit.

5. Formation Structure Map - Structure map showing the subject proration unit and the eight adjacent proration units of that portion of the Aztec Pictured Cliffs Field. Contours are on the top of the Pictured Cliffs formation. Also depicted on the map are all Pictured Cliffs wells within the proration units showing their completion dates and estimated remaining reserves as of July 1, 1980. The reserves were estimated by pressure-cumulative production decline curves.

Based on offset wells, it is estimated that approximately 170 MMcf of additional gas can be recovered by the drilling of the Texas Pacific Com. No. 1R and that absent the drilling of the subject well, this volume of gas could not be effectively and efficiently recovered.

Operators,other than El Paso Natural Gas Company, of proration units offsetting the unit for which this finding is sought are listed below:

Supron Energy Corporation
Building V, Fifth Floor
10300 North Central Expressway
Dallas, Texas 75231

Southland Royalty Company
Cadillac - Fairview Building
Suite 1000
410 - 17th Street
Denver, Colorado 80202

The above parties have been notified by registered mail of this request for a finding.

Upon the issuance of an affirmative finding regarding this well, we request that you consider our application for well classification under Section 103 of the NGPA of 1978. Said application for determination is being filed in conjunction with this request for a finding.

Should you have any questions concerning this request for a finding, please contact the undersigned.

Very truly yours,

R. D. Habbit

R. D. Habbit, Manager
Reservoir Engineering Dept.

DRBalmer:cc

Attachments

AZTEC-PICTURED CLIFFS GAS POOL
Rio Arriba and San Juan Counties, New Mexico

Order No. R-1670, Adopting Special Rules and Regulations, in Addition to the General Rules and Regulations for Northwestern New Mexico, for the Aztec-Pictured Cliffs Gas Pool, Rio Arriba and San Juan Counties, New Mexico, May 20, 1960, as Amended by Order No. R-2307, August 28, 1962.

(Order No. R-1670 Supersedes Order No. R-46, Adopting Rules for the Aztec-Pictured Cliffs and other Gas Pools, Rio Arriba and San Juan Counties, New Mexico, December 29, 1950, as Amended by Order No. R-397, December 17, 1953; Order No. R-565, December 23, 1954; Order No. R-565-A, January 7, 1955; Order No. R-614, April 20, 1955; Order No. R-620, April 20, 1955; Order No. R-565-C, October 13, 1955; Order No. R-565-D, March 29, 1956; and Order No. R-967, April 23, 1957.)

(The Aztec-Pictured Cliffs Gas Pool was created March 15, 1950 and gas prorationing was instituted March 1, 1955)

See separate Order No. R-1670-R, discontinuing gas prorationing as of 7:00 a.m. April 1, 1974.

A. WELL LOCATION AND ACREAGE REQUIREMENTS

RULE 5 (A). A standard gas proration unit in the Aztec-Pictured Cliffs Gas Pool shall be 160 acres.

C. ALLOCATION AND GRANTING OF ALLOWABLES

RULE 11. (As Added by Order No. R-2307, August 28, 1962.) A minimum allowable of 1000 MCF per month per proration unit will be assigned in order to prevent the premature abandonment of wells.

G. GENERAL

RULE 22. No gas, either dry gas or casinghead gas, produced from the Aztec-Pictured Cliffs Gas Pool, except that gas used for "drilling-in" purposes, shall be flared or vented unless specifically authorized by order of the Commission after notice and hearing.

H. MISCELLANEOUS SPECIAL POOL RULES

RULE 25. The vertical limits of the Aztec-Pictured Cliffs Gas Pool shall be the Pictured Cliffs formation.

(General Pool Rules also apply unless in conflict with these Special Pool Rules)

30-045-24408

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease: STATE [X] FEE [ ]

5. State Oil & Gas Lease No.: E-2940

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well: DRILL [X] DEEPEN [ ] PLUG BACK [ ]
OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. Unit Agreement Name:

8. Farm or Lease Name: Texas Pacific Com.

2. Name of Operator: El Paso Natural Gas Company

9. Well No.: 1R

3. Address of Operator: Box 990, Farmington, New Mexico 87401

10. Field and Pool, or Wildcat: Blanco PC

4. Location of Well: UNIT LETTER 0 LOCATED 875' FEET FROM THE South LINE AND 1800 FEET FROM THE East LINE OF SEC. 16 TWP. 29N RGE. 10W NMPM

12. County: San Juan

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
2070	Pictured Cliffs	Rotary

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
5604' GL	Statewide	?	

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8"	24#	120'	106 cu.ft.	Surface
6 3/4"	2 7/8"	6.9	2070	410 cu.ft.	~~Cover OJO Alamo~~ Sufficient to circulate

Selectively perforate and sand water fracture the Pictured Cliffs formation.

A 3000 psi WP & 6000 psi test double gate preventor equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

The SE/4 of Section 16 is dedicated to this well.

APPROVAL VALID
DRILLING COMMENCED,
EXPIRES 9-16-80

RECEIVED
JUN 18 1980
OIL CON. COM.
DIST. 3

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed W. G. Isaacs Title Drilling Clerk Date June 16, 1980

(This space for State Use)

APPROVED BY Frank T. Chavez TITLE SUPERVISOR DISTRICT # 3 DATE JUL 17 1980

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

1980

Form C-102
Supersedes C-128
Effective 1-1-65

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

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	TEXAS PACIFIC COM (E-2940)	1R

Unit Letter	Section	Township	Range	County
O	16	29N	10W	SAN JUAN

Actual Footage Location of Well:
875 feet from the SOUTH line and 1800 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5604	PICTURED CLIFFS	BLANCO PICTURED CLIFFS	156.44 Acres

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

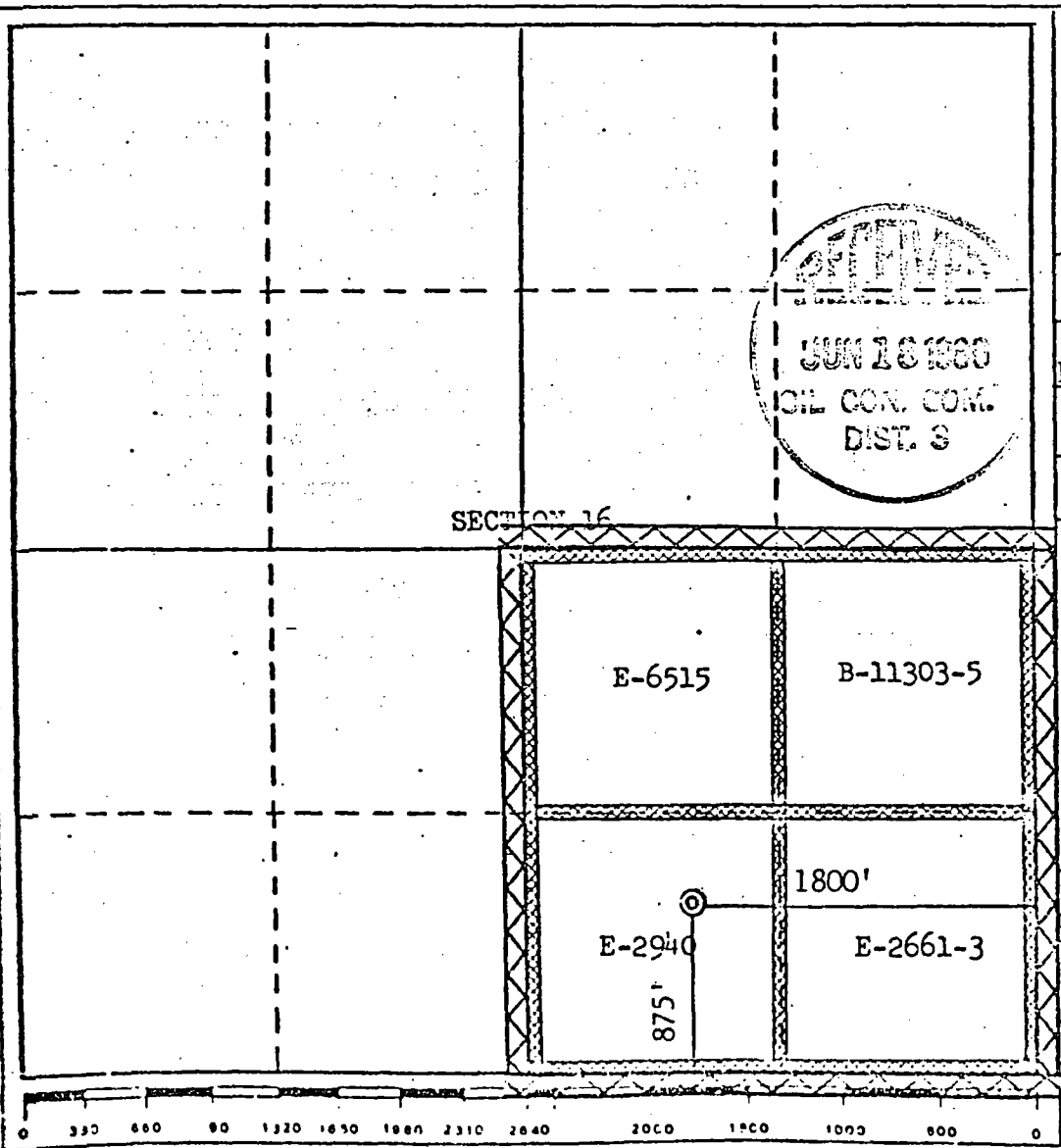
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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?

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

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.



RECEIVED
JUN 18 1980
OIL CON. COM.
DIST. 3

CERTIFICATION

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

A. P. Grass

Name: Drilling Clerk

Position: El Paso Natural Gas

Company: June 16, 1980

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: 10/8/7[illegible]

Registered Professional Engineer and/or Land Surveyor: Mark A. Eichstadt

Certificate No.

NEW MEXICO REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No. E-2940

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 "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL [ ] GAS WELL [X] OTHER-

7. Unit Agreement Name

2. Name of Operator: El Paso Natural Gas Company

8. Farm or Lease Name: Texas Pacific Co

3. Address of Operator: PO Box 289, Farmington, NM 87401

9. Well No. 1R

4. Location of Well: UNIT LETTER O, 875' FEET FROM THE South LINE AND 1800' FEET FROM THE East LINE, SECTION 16, TOWNSHIP 29N, RANGE 10W, NMPM.

10. Field and Pool, or Wildcat: Aztec Pictured C

15. Elevation (*Show whether DF, RT, GR, etc.*): 5604' GL

12. County: San Juan

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]		COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]	CHANGE PLANS [ ]	CASING TEST AND CEMENT JOB [ ]	
OTHER Correct Pool Name [ ]		OTHER [ ]	

17. Describe Proposed or Completed Operations (*Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work*) SEE RULE 1103.

The pool name for this pool should be corrected to be Aztec Pictured Cliffs. This should apply to all reports filed on this well.

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

SIGNED Peggy Bradfield TITLE Drilling Clerk DATE 9-25-80

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: E-2940

1a. TYPE OF WELL

b. TYPE OF COMPLETION: OIL WELL [ ] GAS WELL [X] DRY [ ] OTHER ____ NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

7. Unit Agreement Name:

8. Farm or Lease Name: Texas Pacific Com

2. Name of Operator: El Paso Natural Gas Company

9. Well No.: 1R

3. Address of Operator: P.O. Box 289, Farmington, NM 87401

10. Field and Pool, or Wildcat: Blanco PC

4. Location of Well

UNIT LETTER O LOCATED 875 FEET FROM THE South LINE AND 1800 FEET FROM THE E LINE OF SEC. 16 TWP. 29-N RGE. 10-W NMPM

12. County: San Juan

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
7-18-80	7-21-80	8-26-80	5604' GL	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
2072'	2061'		→	0-2072'	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 1957-2017' (PC)

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: IES, DBC/ GRS, Temp. Survey

27. Was Well Cored: No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	138'	12 1.4"	100 cu. ft.	
2 3/8"	6.4#	2072'	6 3/4"	864 cu. ft.	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
Tubingless Completion		

31. Perforation Record (Interval, size and number)

1957,1966,1972,1978,1988,1993,1999,2011,2017'
W/1 SPZ.

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
1957-2017'	49,000# sd, 54,000 gal. wtr.

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
	After Frac Gauge 217 MCF/D	Shut-In

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
8-26-80							

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
	310					

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By: H. E. McAnally

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Peggy Bradfield TITLE Drilling Clerk DATE 9-22-80

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy	T. Canyon	T. Ojo Alamo 738'	T. Penn. "B"		
T. Salt	T. Strawn	T. Kirtland-Fruitland 874'	T. Penn. "C"		
B. Salt	T. Atoka	T. Fruitland 1634'	T. Penn. "D"		
T. Yates	T. Miss	T. P.C. 1950'	T. Leadville		
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison		
T. Queen	T. Silurian	T. Point Lookout	T. Elbert		
T. Grayburg	T. Montoya	T. Mancos	T. McCracken		
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Qtzte		
T. Glorieta	T. McKee	Base Greenhorn	T. Granite		
T. Paddock	T. Ellenburger	T. Dakota	T.		
T. Blinebry	T. Gr. Wash	T. Morrison	T.		
T. Tubb	T. Granite	T. Todilto	T.		
T. Drinkard	T. Delaware Sand	T. Entrada	T.		
T. Abo	T. Bone Springs	T. Wingate	T.		
T. Wolfcamp	T.	T. Chinle	T.		
T. Penn.	T.	T. Permian	T.		
T Cisco (Bough C)	T.	T. Penn. "A"	T.		

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
738	874	136	Ojo Alamo				
874	1634'	760'	Kirtland				
1634'	1950'	316	Fruitland				
1950'	2072'	122	Pictured Cliffs				

WELL STATUS REPORT

I. Well Name & Number: Texas Pacific Com. No. 1

Location: 1,650' FSL & 790' FEL, Section 16, T-29-N, R-10-W, San Juan County, New Mexico

Pool Name & Formation: Aztec Pictured Cliffs

Spud Date: 12-7-57

Completion Date: 1-10-58

Current Rate of Production: 14 Mcf/D (August, 1980)

II. Status:

As stated above, the well was completed in early 1958 and had an initial open flow of 814 Mcf/D. Production continually declined and is currently producing 14 Mcf/D. Initial treatment consisted of 40,000 pounds of sand and 38,800 gallons of water.

This well's 5 1/2" casing was perforated from 2,170' - 2,180', 2,186 - 2,200' and 2,204' - 2,214' with two shots per foot. It was felt that a successful retreatment could not be accomplished due to the large perforated interval which would not allow selective stimulation of the pay zone. Considering this, it was felt that a new well with a limited entry type completion would produce the most desirable results.

Estimated remaining recoverable reserves as of 7-1-80 are 158 MMcf. A review of proration units surrounding this well indicates an average proration unit 7-1-80 remaining recoverable reserves of 329 MMcf. Based on this review, it is estimated that approximately 170 MMcf of additional reserves can be recovered by the completion of the additional well.

WELL STATUS REPORT

I. Well Name & Number: Texas Pacific Com. No. 1R

Location: 875' FSL & 1,800 FEL, Section 16, T-29-N, R-10-W, San Juan County, New Mexico

Pool Name & Formation: Aztec Pictured Cliffs

Spud Date: 7-18-80

Completion Date: 8-26-80

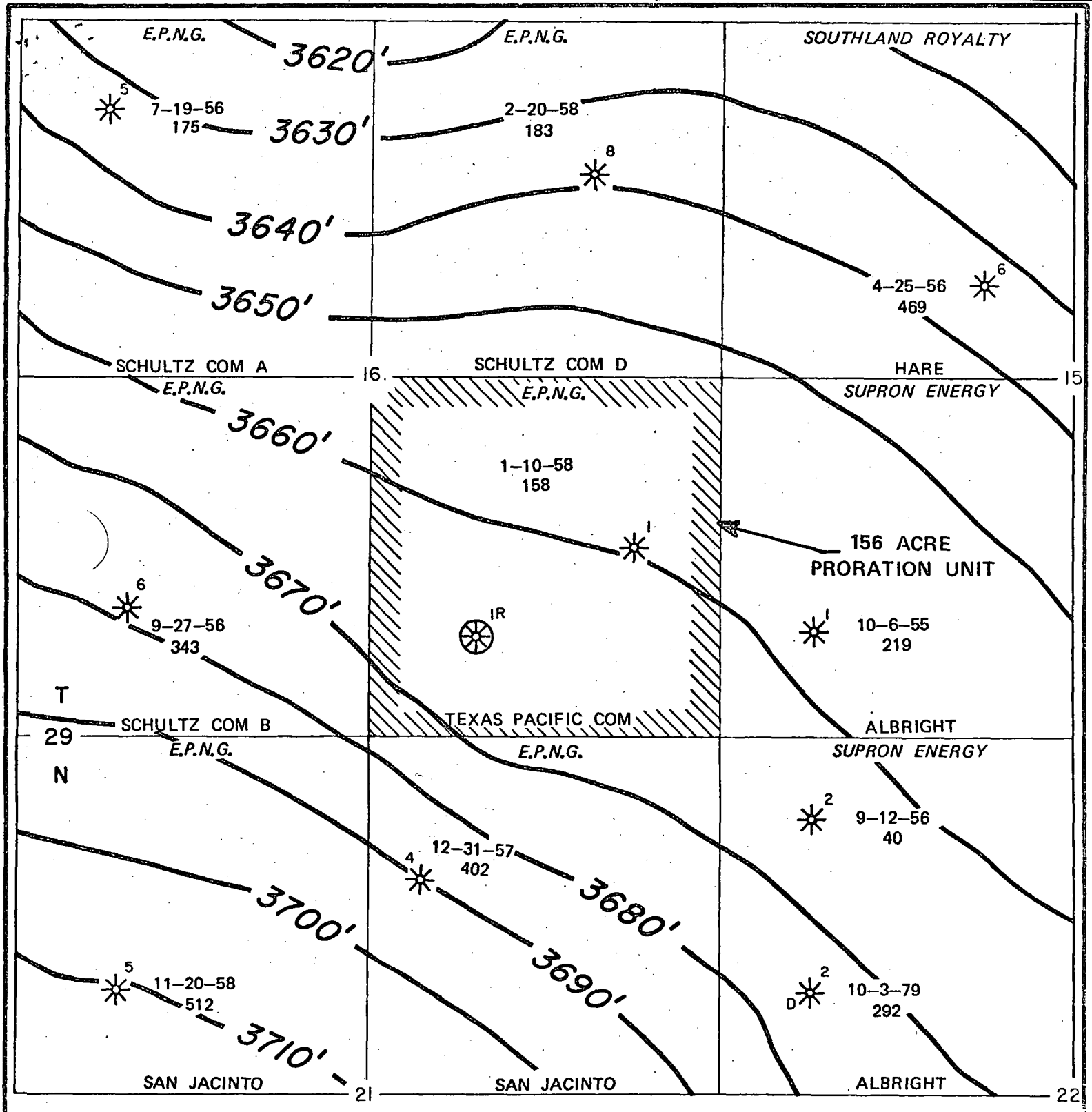
Current Rate of Production: Has not commenced production.

II. Status:

This well was drilled and completed in an effort to recover additional reserves that would not otherwise be recovered. The initial well on this proration unit was reflecting a 7-1-80 remaining recoverable reserve of 158 MMcf. Adjacent proration units indicate an average 7-1-80 remaining reserve of 329 MMcf. For this reason, an additional well was drilled and we feel that an additional reserve of approximately 170 MMcf can be recovered.

This well is a tubingless completion using 2 3/8", 6.4 #/ft. pipe as casing. The limited entry completion method was utilized with the casing being perforated with nine holes. The well was then treated with 49,000 pounds of sand and 54,000 gallons of water.

This completion resulted in an after frac gauge of 217 Mcf/D and a shut-in pressure of 310 psi.



R 10 W

STRUCTURE MAP
SUBSEA TOP OF PICTURED CLIFFS FORMATION
CONTOUR INTERVAL = 10'

El Paso Natural Gas Company

AZTEC FIELD

PICTURED CLIFFS RESERVOIR

SAN JUAN COUNTY, NEW MEXICO

- GAS WELL
- DUAL GAS WELL
- P & A GAS WELL
- DRY HOLE
- REPLACEMENT WELL
- XX-XX-XX COMPLETION DATE
- XXX REMAINING RESERVES AS OF JULY 1, 1980, MMCF

1000' 500' 0 1000'

SCALE IN FEET

El Paso NATURAL GAS COMPANY

P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

October 14, 1980

RECEIVED
OCT 21 1980
Oil Conservation

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

Dear Sir:

Re: Request For An Administrative Finding That The Drilling Of The El Paso Natural Gas Company Texas Pacific Com. No. 1R, Located In Unit O, Section 16, T-29-N, R-10-W, Aztec Pictured Cliffs Field, San Juan County, New Mexico, Was Necessary To Effectively And Efficiently Drain A Portion Of The Reservoir Covered By The Proration Unit Which Could Not Be Effectively And Efficiently Drained By Any Existing Well Within The Proration Unit.

Pursuant to New Mexico Oil Conservation Division Order No. R-6013-A dated February 8, 1980 and §271.305(b) of the final regulations of the Natural Gas Policy Act of 1978 (NGPA), we respectfully request a finding from your office that the drilling of the El Paso Natural Gas Company Texas Pacific Com. No. 1R was necessary to effectively and efficiently drain a portion of the Aztec Pictured Cliffs Field covered by the proration unit which could not be effectively and efficiently drained by any existing well within the proration unit. The proration unit is described as SE/4, Section 16, T-21-N, R-10-W, San Juan County, New Mexico.

The standard proration (spacing) unit for the Aztec Pictured Cliffs Field is 160 acres. We have included a copy of the field rules applicable to the subject proration unit.

The support for this finding is attached and described below.

1. NMOCC Forms C-101 and C-102 - Copies of approved application to drill and proration unit dedicated.

2. NMOCC Form C-103 - Copy of sundry notice advising that all reports filed on subject well should reflect Aztec Pictured Cliffs Field.

3. NMOCC Form C-105 - Copy of well completion report filed on the EPNG Texas Pacific Com. No. 1R.

4. Well Status Report - Current status of the two wells drilled and completed in the Aztec Pictured Cliffs Field within the subject proration unit.

5. Formation Structure Map - Structure map showing the subject proration unit and the eight adjacent proration units of that portion of the Aztec Pictured Cliffs Field. Contours are on the top of the Pictured Cliffs formation. Also depicted on the map are all Pictured Cliffs wells within the proration units showing their completion dates and estimated remaining reserves as of July 1, 1980. The reserves were estimated by pressure-cumulative production decline curves.

Based on offset wells, it is estimated that approximately 170 MMcf of additional gas can be recovered by the drilling of the Texas Pacific Com. No. 1R and that absent the drilling of the subject well, this volume of gas could not be effectively and efficiently recovered.

Operators,other than El Paso Natural Gas Company, of proration units offsetting the unit for which this finding is sought are listed below:

Supron Energy Corporation
Building V, Fifth Floor
10300 North Central Expressway
Dallas, Texas 75231

Southland Royalty Company
Cadillac - Fairview Building
Suite 1000
410 - 17th Street
Denver, Colorado 80202

The above parties have been notified by registered mail of this request for a finding.

Upon the issuance of an affirmative finding regarding this well, we request that you consider our application for well classification under Section 103 of the NGPA of 1978. Said application for determination is being filed in conjunction with this request for a finding.

Should you have any questions concerning this request for a finding, please contact the undersigned.

Very truly yours,

R. D. Habbit

R. D. Habbit, Manager
Reservoir Engineering Dept.

DRBalmer:cc

Attachments

AZTEC-PICTURED CLIFFS GAS POOL
Rio Arriba and San Juan Counties, New Mexico

Order No. R-1670, Adopting Special Rules and Regulations, in Addition to the General Rules and Regulations for Northwestern New Mexico, for the Aztec-Pictured Cliffs Gas Pool, Rio Arriba and San Juan Counties, New Mexico, May 20, 1960, as Amended by Order No. R-2307, August 28, 1962.

(Order No. R-1670 Supersedes Order No. R-46, Adopting Rules for the Aztec-Pictured Cliffs and other Gas Pools, Rio Arriba and San Juan Counties, New Mexico, December 29, 1950, as Amended by Order No. R-397, December 17, 1953; Order No. R-565, December 23, 1954; Order No. R-565-A, January 7, 1955; Order No. R-614, April 20, 1955; Order No. R-620, April 20, 1955; Order No. R-565-C, October 13, 1955; Order No. R-565-D, March 29, 1956; and Order No. R-967, April 23, 1957.)

(The Aztec-Pictured Cliffs Gas Pool was created March 15, 1950 and gas prorationing was instituted March 1, 1955)

See separate Order No. R-1670-R, discontinuing gas prorationing as of 7:00 a.m. April 1, 1974.

A. WELL LOCATION AND ACREAGE REQUIREMENTS

RULE 5 (A). A standard gas proration unit in the Aztec-Pictured Cliffs Gas Pool shall be 160 acres.

C. ALLOCATION AND GRANTING OF ALLOWABLES

RULE 11. (As Added by Order No. R-2307, August 28, 1962.) A minimum allowable of 1000 MCF per month per proration unit will be assigned in order to prevent the premature abandonment of wells.

G. GENERAL

RULE 22. No gas, either dry gas or casinghead gas, produced from the Aztec-Pictured Cliffs Gas Pool, except that gas used for "drilling-in" purposes, shall be flared or vented unless specifically authorized by order of the Commission after notice and hearing.

H. MISCELLANEOUS SPECIAL POOL RULES

RULE 25. The vertical limits of the Aztec-Pictured Cliffs Gas Pool shall be the Pictured Cliffs formation.

(General Pool Rules also apply unless in conflict with these Special Pool Rules)

30-045-24408

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease: STATE [X] FEE [ ]

5. State Oil & Gas Lease No.: E-2940

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. Unit Agreement Name:

8. Farm or Lease Name: Texas Pacific Com.

2. Name of Operator: El Paso Natural Gas Company

9. Well No.: 1R

3. Address of Operator: Box 990, Farmington, New Mexico 87401

10. Field and Pool, or Wildcat: Blanco PC

4. Location of Well: UNIT LETTER O LOCATED 875' FEET FROM THE South LINE AND 1800 FEET FROM THE East LINE OF SEC. 16 TWP. 29N RGE. 10W NMPM

12. County: San Juan

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
2070	Pictured Cliffs	Rotary

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
5604' GL	Statewide		

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8"	24#	120'	106 cu.ft.	Surface
6 3/4"	2 7/8"	6.9	2070	410 cu.ft.	~~Cover OJO Alamo~~ Sufficient to circulate

Selectively perforate and sand water fracture the Pictured Cliffs formation.

A 3000 psi WP & 6000 psi test double gate preventor equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

APPROVAL VALID

The SE/4 of Section 16 is dedicated to this well.

DRILLING COMMENCED,

EXPIRES 9-16-80

RECEIVED
JUN 18 1980
OIL CON. COM.
DIST. 3

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed A. D. Drake Title Drilling Clerk Date June 16, 1980

(This space for State Use)

APPROVED BY Frank T. Chavez TITLE SUPERVISOR DISTRICT # 3 DATE JUN 19 1980

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

1980

Form C-102
Supersedes C-128
Effective 1-1-65

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

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	TEXAS PACIFIC COM (E-2940)	1R

Unit Letter	Section	Township	Range	County
O	16	29N	10W	SAN JUAN

Actual Footage Location of Well: 875 feet from the SOUTH line and 1800 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5604	PICTURED CLIFFS	BLANCO PICTURED CLIFFS	156.44 Acres

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

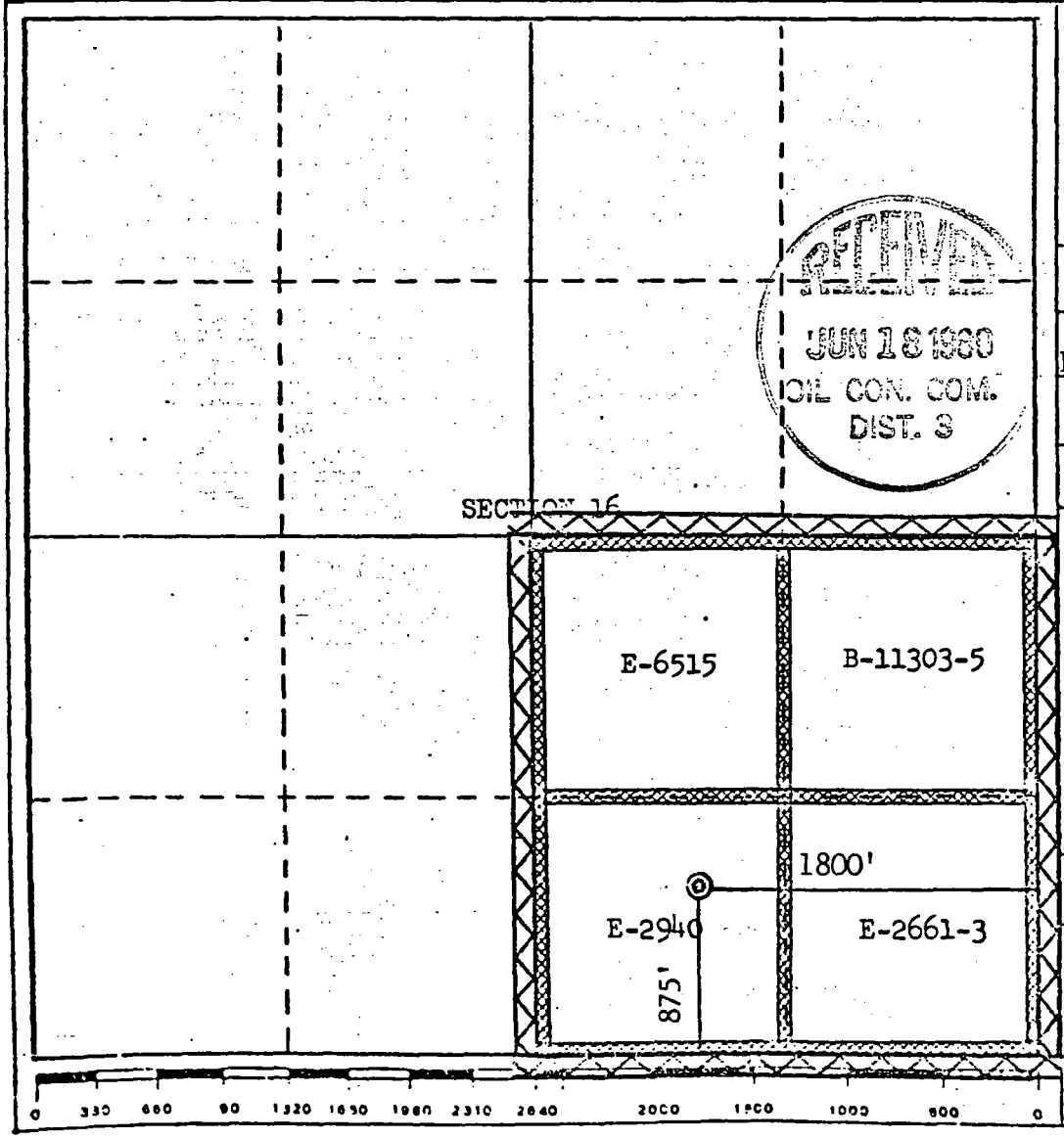
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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?

☒ Yes ☐ No If answer is "yes," type of consolidation ~~communitization~~

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.

A. G. Lucas

Name: Drilling Clerk

Position: El Paso Natural Gas

Company: June 16, 1980

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: 10/8/7[illegible]

Registered Professional Engineer and/or Land Surveyor: Mark A. Eichstadt

Certificate [illegible]

NEW MEXICO REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State [X] Fee [ ]

5. State Oil & Gas Lease No.
E-2940

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 "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL [ ] GAS WELL [X] OTHER-

7. Unit Agreement Name

2. Name of Operator
El Paso Natural Gas Company

8. Farm or Lease Name
Texas Pacific Com

3. Address of Operator
PO Box 289, Farmington, NM 87401

9. Well No.
1R

4. Location of Well
UNIT LETTER O, 875' FEET FROM THE South LINE AND 1800' FEET FROM THE East LINE, SECTION 16 TOWNSHIP 29N RANGE 10W NMPM.

10. Field and Pool, or Wildcat
Aztec Pictured Cli

15. Elevation *(Show whether DF, RT, GR, etc.)*
5604'GL

12. County
San Juan

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]		COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]	CHANGE PLANS [ ]	CASING TEST AND CEMENT JOB [ ]	
OTHER Correct Pool Name [ ]		OTHER [ ]	

17. Describe Proposed or Completed Operations *(Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work)* SEE RULE 1103.

The pool name for this pool should be corrected to be Aztec Pictured Cliffs. This should apply to all reports filed on this well.

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

SIGNED Peggy Bradfield TITLE Drilling Clerk DATE 9-25-80

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: E-2940

1a. TYPE OF WELL

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

OIL WELL [ ] GAS WELL [X] DRY [ ] OTHER

7. Unit Agreement Name:

8. Farm or Lease Name: Texas Pacific Com

2. Name of Operator: El Paso Natural Gas Company

9. Well No.: 1R

3. Address of Operator: P.O. Box 289, Farmington, NM 87401

10. Field and Pool, or Wildcat: Blanco PC

4. Location of Well

UNIT LETTER O LOCATED 875 FEET FROM THE South LINE AND 1800 FEET FROM THE E LINE OF SEC. 16 TWP. 29-N RGE. 10-W NMPM

12. County: San Juan

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
7-18-80	7-21-80	8-26-80	5604' GL	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
2072'	2061'		→	0-2072'	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 1957-2017' (PC)

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: IES, DBC/ GRS, Temp. Survey

27. Was Well Cored: No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	138'	12 1.4"	100 cu. ft.	
2 3/8"	6.4#	2072'	6 3/4"	864 cu. ft.	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
Tubingless Completion		

31. Perforation Record (Interval, size and number)

1957,1966,1972,1978,1988,1993,1999,2011,2017'
W/1 SPZ.

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
1957-2017'	49,000# sd, 54,000 gal. wtr.

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
	After Frac Gauge 217 MCF/D	Shut-In

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
8-26-80							

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
	310					

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By: H. E. McAnally

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Peggy Bradfield TITLE Drilling Clerk DATE 9-22-80

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy	T. Canyon		T. Ojo Alamo 738'	T. Penn. "B"	
T. Salt	T. Strawn		T. Kirtland-Fruitland 874'	T. Penn. "C"	
B. Salt	T. Atoka		T. Fruitland 1634'	T. Penn. "D"	
T. Yates	T. Miss		T. P.C. 1950'	T. Leadville	
T. 7 Rivers	T. Devonian		T. Menefee	T. Madison	
T. Queen	T. Silurian		T. Point Lookout	T. Elbert	
T. Grayburg	T. Montoya		T. Mancos	T. McCracken	
T. San Andres	T. Simpson		T. Gallup	T. Ignacio Qtzte	
T. Glorieta	T. McKee		Base Greenhorn	T. Granite	
T. Paddock	T. Ellenburger		T. Dakota	T.	
T. Blinebry	T. Gr. Wash		T. Morrison	T.	
T. Tubb	T. Granite		T. Todilto	T.	
T. Drinkard	T. Delaware Sand		T. Entrada	T.	
T. Abo	T. Bone Springs		T. Wingate	T.	
T. Wolfcamp	T.		T. Chinle	T.	
T. Penn.	T.		T. Permian	T.	
T Cisco (Bough C)	T.		T. Penn. "A"	T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
738	874	136	Ojo Alamo				
874	1634'	760'	Kirtland				
1634'	1950'	316	Fruitland				
1950'	2072'	122	Pictured Cliffs				

WELL STATUS REPORT

I. Well Name & Number: Texas Pacific Com. No. 1

Location: 1,650' FSL & 790' FEL, Section 16, T-29-N, R-10-W, San Juan County, New Mexico

Pool Name & Formation: Aztec Pictured Cliffs

Spud Date: 12-7-57

Completion Date: 1-10-58

Current Rate of Production: 14 Mcf/D (August, 1980)

II. Status:

As stated above, the well was completed in early 1958 and had an initial open flow of 814 Mcf/D. Production continually declined and is currently producing 14 Mcf/D. Initial treatment consisted of 40,000 pounds of sand and 38,800 gallons of water.

This well's 5 1/2" casing was perforated from 2,170' - 2,180', 2,186 - 2,200' and 2,204' - 2,214' with two shots per foot. It was felt that a successful retreatment could not be accomplished due to the large perforated interval which would not allow selective stimulation of the pay zone. Considering this, it was felt that a new well with a limited entry type completion would produce the most desirable results.

Estimated remaining recoverable reserves as of 7-1-80 are 158 MMcf. A review of proration units surrounding this well indicates an average proration unit 7-1-80 remaining recoverable reserves of 329 MMcf. Based on this review, it is estimated that approximately 170 MMcf of additional reserves can be recovered by the completion of the additional well.

WELL STATUS REPORT

I. Well Name & Number: Texas Pacific Com. No. 1R

Location: 875' FSL & 1,800 FEL, Section 16, T-29-N, R-10-W, San Juan County, New Mexico

Pool Name & Formation: Aztec Pictured Cliffs

Spud Date: 7-18-80

Completion Date: 8-26-80

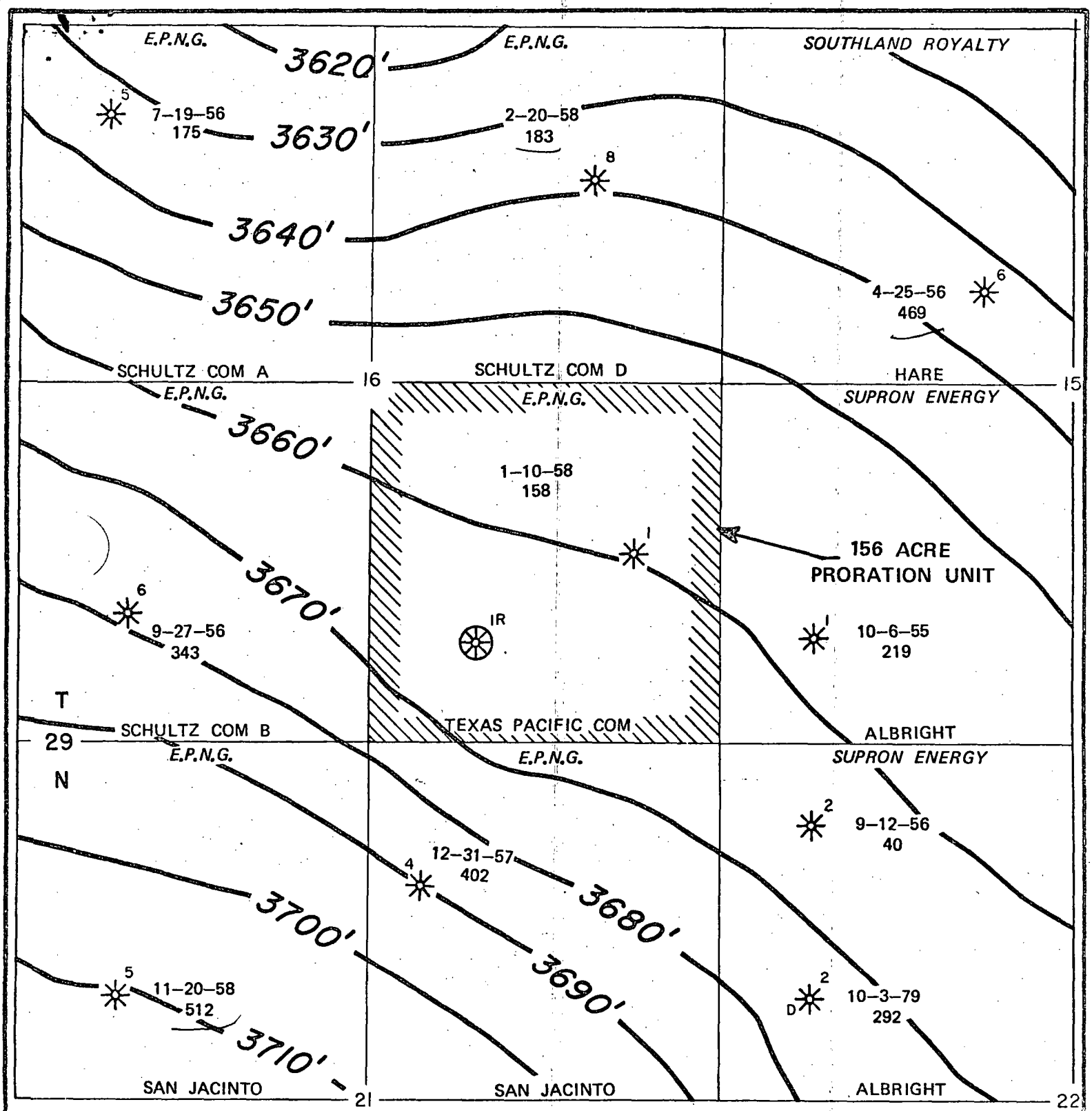
Current Rate of Production: Has not commenced production.

II. Status:

This well was drilled and completed in an effort to recover additional reserves that would not otherwise be recovered. The initial well on this proration unit was reflecting a 7-1-80 remaining recoverable reserve of 158 MMcf. Adjacent proration units indicate an average 7-1-80 remaining reserve of 329 MMcf. For this reason, an additional well was drilled and we feel that an additional reserve of approximately 170 MMcf can be recovered.

This well is a tubingless completion using 2 3/8", 6.4 #/ft. pipe as casing. The limited entry completion method was utilized with the casing being perforated with nine holes. The well was then treated with 49,000 pounds of sand and 54,000 gallons of water.

This completion resulted in an after frac gauge of 217 Mcf/D and a shut-in pressure of 310 psi.



R 10 W

STRUCTURE MAP
SUBSEA TOP OF PICTURED CLIFFS FORMATION
CONTOUR INTERVAL = 10'

El Paso Natural Gas Company

AZTEC FIELD

PICTURED CLIFFS RESERVOIR

SAN JUAN COUNTY, NEW MEXICO

- GAS WELL
- DUAL GAS WELL
- P & A GAS WELL
- DRY HOLE
- REPLACEMENT WELL
- XX-XX-XX COMPLETION DATE
- XXX REMAINING RESERVES AS OF JULY 1, 1980, MMCF

1000' 500' 0 1000'

SCALE IN FEET