CASE 6664: DOYLE HARTMAN FOR AN UNOR-THEDOX LOCATION, TWO NON-STANDARD PRORA-TION UNITS, AND APPROVAL OF INFILL DRILLING, LEA COUNTY NEW MEETER

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CASE NO.

6664

APPlication, Transcripts, Small Exhibits,

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WILLIAM P. AYCOCK

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Direct	Examination	by Mr.	Carr

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Cross Examination by Mr. Nutter

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EXHIBITS

Applicant	Exhibit	One, Plat
Applicant	Exhibit	Two, Structure Map
Applicant	Exhibit	Three, Letter
Applicant	Exhibit	Four, Cross Section
Applicant	Exhibit	Five, Cross Section
Applicant	Exhibit	Six, Graph
Applicant	Exhibit	Seven, Graphs
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MR. NUTTER: We'll call next Case Number

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MR. PADILLA: Application of Doyle Hartman for an unorthodox well location, two non-standard proration units, and approval of infill drilling, Lea County, New Mexico.

MR. CARR: May it please the Examiner, I'm William F. Carr, Campbell and Black, P. A., Santa Fe, appearing on behalf of the applicant.

I have one witness, Mr. Aycock, who has just previously testified and I request that you find that he's presently under oath and qualified to testify.

MR. NUTTER: Mr. Aycock is qualified and under oath.

MR. CARR: Initially, Mr. Nutter, I'd request that the portion of the case be dismissed as it relates to the unorthodox location. We'd request that it -- Mr. Hartman is proposing now to drill a well at a location 660 out of that corner, which makes it standard location.

MR. NUTTER: So you want to proceed with the balance of the case.

MR. CARR: Yes, sir.

MR. NUTTER: And dismiss the unorthodox

well location portion.

MR. CARR: That's correct.

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	2	portion of Case Number 6664 will be dismissed and please
	3	proceed with the remainder.
	4	MR. KELLAHIN: Excuse me, Mr. Nutter.
СС	5	Would you note my appearance for the following clients:
 	6	Reserve Oil, Inc., Lewis E. Burleson, Inc., and Conoco, Inc.,
	7	in this case.
	8	MR. NUTTER: Appearances noted.
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OYD OMTER DATER	10	
MUD NEY MUD NEY MUD NEY MUD NEY	11	WILLIAM P. AYCOCK
MAL WAL	12	being called as a witness and having been duly sworn upon
	13	his oath, testified as follows, to-wit:
	14	
	15 ·	DIRECT EXAMINATION
- -	16	BY MR. CARR:
	17	Q. Will you state your full name and place of
	18	residence?
	19	A. William P. Aycock, Midland, Texas.
	20	Q. Mr. Aycock, you are the same witness who
	21	testified in the previous case?
	22	A. Yes, sir.
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	24	is seeking with this application?
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standard proration units be established in the southwest quarter of Section 27, Township 25 South, Range 37 East, and 2 3 that approval of infill drilling be given to the -- to his 8 No. 1 Santa Fe, which will, under our revised application, 6 be 660 feet from the south and 660 feet from the west lines of Section 27, and that 40 acres, being the northwest quarter 7 of the southwest quarter of Section 27, be assigned to the 8 El Paso -- existing El Paso Natural Gas Harrison well and that the remainder of the 160-acres, comprising 120 acres, be assigned to his proposed well.

He also seeks a waiver of the spacing requirements and a finding that the said well is necessary to effectively and efficiently drain that portion of the existing proration unit which cannot be drained by the existing well.

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Applicant's Exhibit One is a well owner-A. ship map of the -- of Section 27, Township 25 South, Range 37 East, and the surrounding, immediately surrounding, sections in which the active Jalmat wells are indicated, the proration unit is indicated and the trace of the cross sections that will be subsequently presented in evidence are indicated .

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	4	the Yates formation which simply shows the same area and
	5	shows, once again, that this area is in is in not an
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	7	or a flat place, between two structural anomalies as far as
	8	the Yates is concerned.
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	16	concerning the charge just a minute, I've got the wrong
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Basically, we estimated that the increased recovery could range from a minimum of 74 MMCF to about 4500 Mcf with an expected mean of about 1500 MMCF, and that the estimated drainage area for wells in the immediate vicinity ranged from 14 acres to 300 acres with a mean value of 115 acres, and that a comparison of the 1978 shut-in wellhead pressures indicated a substantial difference in those pressures, indicating either that there was not adequate pressure communication or that water production had affected the pressure performance of some of the wells to the point that it was not apparent that there was pressure communication. 0. Mr. Aycock, will you now refer to what has

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It basically shows that the wells in this immediate vicinity are producing above the top of the Seven Rivers formation.

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Once again it shows that the wells by and large have been produced and are producing from the Yates portion of what's classified as the Jalmat-Tansill-Yates-Seven Rivers Pool.

Q. Will you now refer to what has been marked as Exhibit Six and review this for Mr. Nutter?

A. Exhibit Six is a relationship between wellhead shut-in pressure as reported in the New Mexico Engineering Committee Annual Reports and the cumulative gas production at a consistent date for the El Paso No. 1 Harrison and the El Paso No. 2 Harrison, both of which are located in Section 27, and I would call the Examiner's attention to the fact that both of them are showing extremely steep slopes at this point in their life, and in particular the Well No. 2 is -could be showing the effect of water encroachment because it the last point, the 577 point was very low. It's come back up since then but if that is the effect of water, it should become more apparent with time. The pressures are down in both cases and indicate to be very low on both of these wells As you'll notice on one of our subsequent exhibits, they're down in the range of 120 pounds, and they are so plotted on this -- on this graph.

MR. NUTTER: The one pressure that looks

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MR. NUTTER: That's obviously out of line with the other pressures.

A. Yes, sir. Yes, sir. In making projections of original gas in place from an extrapolation of these, are the wellhead pressures converted to a ratio between calculated subsurface pressure and consistent gas compressibility factor, we will never use those low anomalous points.

Q. Mr. Aycock, will you now review Exhibit Number Seven for Mr. Nutter?

Exhibit Number Seven are rate-time-production A. graphs for wells in the vicnity of the proposed location, all of which generally serve to establish the fact that the pressure, the rate performance appears to stabilize at very low rates of decline until such time as water apparently interferes with the production and you go on, in many cases, you go on an anomalous, very steep rate of decline.

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Q. Will you now review Exhibit Number Eight for the Examiner?

A. Exhibit Number Eight is a well history of the El Paso Natural Gas Harrison 1, which is the one, which is the well that's located in the 40-acre tract that will be -- it will remain with this well if the application is granted, and the remaining 120 acres be assigned to the proposed well, and it's intended to show that the additional fracture treatment that was performed on this well on November the 28th, 1977, was not sufficient to returning the well to its former state of production, so it is not apparent that there are practically available remedial measures that could be taken to restore the well; therefore, to drain whatever gas remains on the proration unit will require another additional well.

Q. Mr. Aycock, in your opinion is the proposed well necessary to effectively and efficiently drain the proposed proration unit?

A. Yes, sir, I think it is based on the fact that the only well on it is not producing at anything like what its capability would have been expected to be.

Q In your opinion will drilling this well result in a recovery of hydrocarbons that otherwise would not be recovered?

Yes, sir, I would expect it to.

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1	Q. Will granting this application be in the
2	interest of conservation, the prevention of waste, and the
3	protection of correlative rights?
4	A. Yes, sir, I would expect it to.
5	Q. How soon does Mr. Hartman plan to spud
6	this well?
7	A. As soon as the order is approved, assuming
8	the Commission sees fit to grant it.
9	Q. And therefore you are requesting that the
10	order be expedited?
11	A. Yes, sir, if that's possible, we are.
12	Q. Were Exhibits One through Eight either
13	prepared by you or can you testify from your own knowledge
14	as to their accuracy?
15	A. Yes, sir.
16	MR. CARR: At this time, Mr. Examiner, we
17	would offer Applicant's Exhibits One through Eight into
18	evidence.
19	MR. NUTTER: Hartman Exhibits One through
20	Eight will be admitted in evidence.
21	MR. CARR: I have nothing further for Mr.
22	Aycock at this time.
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24	CROSS EXAMINATION
25	BY MR. NUTTER:
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2 Q. What's the current producing ability of the
3 El Paso Harrison No. 1, Mr. Aycock?
4 A Let me find it for you. The last productio
5 that we have is in the month of July of 1979, and indicates
⁶ to be producing approximately 1200 Mcf per month, Mr. Nutter.
7 Q Is its decline curve in this package?
8 A. Yes, sir.
9 Q. Whereabouts is it?
A. It's about half way through. It's labeled
1 27L2537.
2 12 12 12 10 10 10 10 10 10 10 10 10 10
with the allowable for the 40-acre tract, do you know, Mr.
Aycock?
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A. No. sir, I don't right off.
MR. NUTTER: ORAY, WE'II TAKE Administrativ
notice of allowables and productivity of the wells in the
vicinity, Mr. Carr, if it's all right with you.
MR. CARR: 'Inat's all right, Mr. Nutter.
MR. NUTTER: Are there any questions of
Mr. Aycock? He may be excused.
Do you have anything further?
MR. CARR: Nothing further.
MR, NUTTER: Does anyone have anything they
wish to offer in Case Number 6664? We'll take the case under
advisement. (Hearing concluded.)
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REPORTER'S CERTIFICATE

SALLY WALTON BOY

MTHAND REPO

I, SALLY W. BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of the Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, from my notes taken at the time of the hearing.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. heard by me on_ =, Examiner Oll Conservation Division





WILLIAM P. AYCOCK

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Direct Examination by Mr. Carr

Cross Examination by Mr. Nutter

EXHIBITS

Applicant Exhibit One, Plat Applicant Exhibit Two, Structure Map Applicant Exhibit Three, Letter Applicant Exhibit Four, Cross Section Applicant Exhibit Five, Cross Section Applicant Exhibit Six, Graph Applicant Exhibit Six, Graph Applicant Exhibit Seven, Graphs Applicant Exhibit Eight, Well History

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A. Applicant's Exhibit One is a well ownership map of the -- of Section 27, Township 25 South, Range 37 East, and the surrounding, immediately surrounding, sections in which the active Jalmat wells are indicated, the proration unit is indicated and the trace of the cross sections that will be subsequently presented in evidence are indicated.

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(There followed a discussion off the record.)

A. The letter contains the charge. I don't remember what's -- not having a copy in front of me, I don't remember the exact charge, but it's a similar approach. Mr. Nutter, could I -- could I use yours to read from and get it right back to you, and get it in the record, please?

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Q Will you now review Exhibit Number Eight for the Examiner?

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	2	interest of conservation, the prevention of waste, and the
	3	protection of correlative rights?
•	4	A Yes, sir, I would expect it to.
a. Altaria	5	0. How soon does Mr. Hartman plan to spud
	6	this well?
	7	A. As soon as the order is approved, assumin
	8	the Commission sees fit to grant it.
	9	And therefore you are requesting that the
VYD MTER 111	10	order be expedited?
	11	A Yes, sir, if that's possible, we are.
	12	Q. Were Exhibits One through Eight either
LLY W Place Bit	13	prepared by you or can you testify from your own knowledge
SAL Bear	14	as to their accuracy?
	15	A. Yes, sir.
	16	MR. CARR: At this time, Mr. Examiner, we
	17	would offer Applicant's Exhibits One through Eight into
	18	evidence.
ini ini ini ini ini ini ini ini ini ini	19	MR. NUTTER: Hartman Exhibits One through
	20	Eight will be admitted in evidence.
	21	MR. CARR: I have nothing further for Mr.
	22	Aycock at this time.
	23	
	24	CROSS EXAMINATION
	25	BY MR. NUTTER:
		DI LIK. MOLIEK:

	\sim		1			
		·	2		Q.	What's the current producing ability of the
			3	El Paso Ha	rrison	No. 1, Mr. Aydock?
· · · · · ·			4		A.	Let me find it for you. The last production
			5	that we ha	ve is i	n the month of July of 1979, and indicates
	- 4		6	to be prod	ucing a	pproximately 1200 Mcf per month, Mr. Nutter.
			7		Q.	Is its decline curve in this package?
			8		r	Yes, sir.
			9		Q.	Whereabouts is it?
			10	j	А.	It's about half way through. It's labeled
		NO NE	11	2712537.		
n sana kalana ang kalang Kalang Kalang		VAL'IA North A	12		Q.	How does this rate of production compare
			13	with the a	llowabl	e for the 40-acre tract, do you know, Mr.
		SA CER	14	Aycock?		
	-		15	1	A.	No, sir, I don't right off.
, and a second se			16			MR. NUTTER: Okay, we'll take administrative
			17	notice of a	allowab	les and productivity of the wells in the
			18	vicinity, 1	Mr. Car:	r, if it's all right with you.
			79			MR. CARR: That's all right, Mr. Nutter.
			20			MR. NUTTER: Are there any questions of
			21	Mr. Aycocki	? He m	ay be excused.
			22			Do you have anything further?
			23			MR. CARR: Nothing further.
			24			MR. NUTTER: Doe anyone have anything they
			25	wish to of	fer in (
	ter and the second	and the second	25	wish to off advisement.		MR. NUTTER: Doe anyone have anything they Case Number 6664? We'll take the case under ring concluded.)

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REPORTER'S CERTIFICATE

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SALI, Y WAI, TON BOYD CENTFRID SHON HAND REPORTER 2020 PTILE BLACK (616) 411-4413 Beats Po, New Northon 417-9413 I, SALLY W. BOYD, a Court keporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of the Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Sase No. 66 10/1 heard by me on

, Examiner Oil Conservation Division



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

BRUCE KING

November 6, 1979

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 67501 1505) 827-2434

Mr. William F. Carr Campbell and Black Attorneys at Law Post Office Box 2208 Santa Fe, New Mexico Re: CASE NO. 6664 ORDER NO. R-6174

Applicant:

Doyle Hartman

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

hours very truly JOE D. RAMEY Director

JDR/fd

Copy of order also sent to:

Hobbs OCD	x
Artesia OCD	x
Aztec OCD	

Thomas Kellahin Other

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 6664 Order No. R-6174

APPLICATION OF DOYLE HARTMAN FOR AN UNORTHODOX WELL LOCATION, TWO NON-STANDARD PRORATION UNITS, AND APPROVAL OF INFILL DRILLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on October 17, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>2nd</u> day of November, 1979, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Doyle Hartman, seeks approval of a 40-acre non-standard gas proration unit comprising the NW/4 SW/4 of Section 27, Township 25 South, Range 37 East, NMPM, to be dedicated to the El Paso Natural Gas Company's Harrison Well No. 1 and also a 120-acre unit comprising the E/2 SW/4 and SW/4 SW/4 of said Section 27 to be dedicated to a well to be drilled by the applicant at a standard location 660 feet from the South line and 660 feet from the West line of said Section 27.

(3) Applicant further seeks a waiver of existing well spacing requirements and a finding that the drilling of said well is necessary to effectively and efficiently drain that portion of an existing proration unit which cannot be so drained by the existing well. -2-Case No. 6664 Order No. R-6174

(4) That the evidence presented indicates that the aforesaid El Paso Harrison Well No. 1 has not and will not effectively and efficiently drain the SW/4 of said Section 27, and that an additional well on the proration unit, as proposed by the applicant in this case, is necessary to so drain the SW/4 of Section 27.

(5) That the evidence indicates that whereas the average Jalmat gas well in the vicinity of applicant's proposed well will produce approximately 1.464 million MCF, the aforesaid El Paso Harrison Well No. 1 can be expected to produce 1.013 million MCF.

(6) That the difference between the average well's expected ultimate recovery and the El Paso Harrison Well No. 1's expected ultimate recovery, some .451 million MCF, may represent additional gas which will be gained by the drilling of applicant's proposed infill well, but which would otherwise not be recovered.

(7) That the applicant now proposes to drill the subject well at a standard location, and that portion of the application which relates to an unorthodox location should be dismissed.

IT IS THEREFORE ORDERED:

(1) That a 40-acre non-standard gas proration unit in the Jalmat Gas Pool comprising the NW/4 SW/4 of Section 27, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, to be dedicated to El Paso Natural Gas Company's Harrison Well No. 1 and also a 120-acre unit comprising the E/2 SW/4 and SW/4 SW/4 of said Section 27 to be dedicated to a well to be drilled at a standard location 660 feet from the South line and 660 feet from the West line of said Section 27 are hereby approved. The authorization for infill drilling granted by this order is an exception to existing well spacing requirements for the Jalmat Gas Pool inasmuch as the drilling of said well is necessary to effectively and efficiently drain that portion of an existing proration unit which cannot be so drained by the existing well.

(2) That that portion of the application relating to an unorthodox location is hereby <u>dismissed</u>.

-3-Case No. 6664 Order No. R-6174

(3) 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 the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION JOE D. RAME Director

SFAL

fd/

CAMPBELL AND BLACK, P.A.

LAWYERS

JACK M. CAMPBELL BRUCE D. BLACK MICHAEL B. CAMPBELL WILLIAM F. CARR PAUL R. CALDWELL

POST OFFICE BOX 2208 JEFFERSON PLACE SANTA FE, NEW MEXICO 87501 TELEPHONE (505) 988-4421

October 24, 1979

Mr. Daniel S. Nutter Chief Petroleum Engineer New Mexico Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Re: Oil Conservation Division Case 6664

Dear Mr. Nutter:

Enclosed in triplicate are copies of Doyle Hartman's Exhibit No. 3 in the above-referenced case.

truly yours Ver OIL CONSERVATION DIVISION 0CT 2 5 1979 Ajilliam F. Carr Enclosure

WFC:1r

RADTKE, AYCOCK, & ASSOCIATES, INC. Petroleum Engineering Consultants 310 WALL TOWERS WEBT MIDLAND, TEXAB 79701 TELEPHONE 915/684-8044

September 15, 1979

Mr. Doyle Hartman 508 C&K Petroleum Building Midland, Texas 79701

Subject:

Proposed Jalmat Pool Gas Development Well 330' FS&WL, 27-25S-37E Lea County, New Mexico

Dear Mr. Hartman:

As you requested, an engineering study involving 15 wells in the vicinity of the proposed well location has been made; one purpose of this study was to determine, if possible, the extent to which drainage from existing wells may have depleted the gas reserves originally underlying the proposed proration unit assigned to the well (W/2 & NE/4, SW/4, 27-25S-37E). The other purpose of this study was to provide an estimate of the increased gas recovery attributable to the proposed well. The results of this study are a prescribed part of Natural Gas Policy Act infill development applications, as established by Conservation Division, State of New Mexico Energy and Minerals Department in Case No. 6520, Order No. R-6013.

Because of the age of many of the wells located on the acreage surrounding the proposed location, engineering analyses must rely heavily upon analogy as a methodology. Calculations of effective drainage areas and comparison of wellhead shut-in pressures as reported to the State of New Mexico provide supplemental, confirmatory evidence for drainage and recovery estimates. The analogy estimates of estimated ultimate recovery for seven of the eight wells for which performance and log data were analyzed in detail can be summarized as follows:

Analogy Basis:	Estimated Increased			
Seven Well Sample	Gas Recovery, MMCF			
Mean	1464			
Minimum	74			
Maximum	4476			
As can be seen from an examination of the attached table, calculated effective drainage areas range from much less than the spacing on which the wells are drilled to more than the well development spacing:

	Estimated Effective
Basis	Drainage Area, Acres
Mean	115
Minimum	14
Maximum	300

A comparison of initially measured tubing pressures is not considered as useful because of the differing ages of the nearby wells; however, the shut-in wellhead pressures for the sample wells still active in 1978 resulted in the following, as extracted from the attached table for the five wells for which the data was available:

Basis for Comparison	Pressure, psia
Mean	175.0
Minimum	742
Maximum	333.2

Noting that the difference between the maximum and minimum values of shut-in wellhead pressures is 259.0 psia, this maximum difference is 148 percent of the mean pressure. It is unlikely, in our opinion, that these pressures indicate an efficient degree of pressure communication, unless the unknown amount of fluid that was contained within these wellbores and/or variations in relative pressure buildup characteristics coincidentally resulted in these differences. Additionally, it is noteworthy that in general, the reported pressures for the newer wells were higher than the pressures reported for the older wells in 1978.

The unexpected existence of water within the Yatos-Soven Rivers formations in the area near the proposed well has resulted in the abandonment without production of at least two wells. Water production has also resulted in the apparently premature abandonment of one or more wells within this area. Whether the water was indigenous or migrated into the Yates-Seven Rivers formations from other zones cannot be precisely defined; however, such water production, when associated with commercially exploitable reservoir quality is anomalous. You should be aware that drilling within this area of the Jalmat Pool appears to have more inherent risk than you have previously experienced.

If the apparent risk associated with drilling the proposed well is acceptable to you, we expect that the well, if successfully completed, will develop substantial gas reserves that would otherwise likely prove to be unrecoverable.

Very truly yours, MM, B. Wyllth Wm. P. Aycock, P.E.

WPA/bw

Attachment

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WPA/bw

Attachment





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L-22-25-37



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D-27-25-37



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	Examiner (OPY UNITED STATES DEPARTMENT OF THE INTERI GEOLOGICAL SUFVEY	SUBMIT IN TRIPLICATES (Unice Instructions on re- Stering approved. Budget Burrau No. 42-B1424. 5. LEASE to Story CUSCS For Salar No.
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	 toration of office. (Refort location clearly and in accordance with any S See also space 17 below.) At surface. 	State requirements.* 10. FIELD AND FOOL, OF WILDCAT
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	SHOOT OR ACIDIZE ABANDON*	(Other) (Note: Report results of multiple completion on Well
	(Other) Open additional Yates interval X 17. DESCRIPE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent proposed work. If well is directionally drilled, give subsurface locati nent to this work.).	Completion or Recompletion Report and Log form.)
	 Spot 250 gal HCL (3,050-2,900'). Pull RI w/RTTS on 2 7/8" tbg. Set pkr @ 2, using ball sealers. Swb test, if: add down tbg w/31,000 gal Foam w/N₂. Blow back immediately until clnd up. Release pkr, retrieve BP. Reset @ 2,8% acid (2,825-2,675'). POH, perf 2,805-& set pkr @ 2,650'. Break perfs w/2000 thru tbg. If additional gas, frac w/11,000 gal Blow back immediately until clnd up. Swb if necessary. Release pkr & retrieve PU production string, RI & land tbg @ Remove BOP, replace wellhead. Return with the top to the top top to the top top to the top top to the top top top top top top top top top top	work string, set retrievable BP @ 3,050'. tbg. Perf from 2,968-90'. 950'. Brk dwn perfs w/1500 gal 15% KCL itional gas is indicated, frac in 1 stage 25'. Pressure test BP. Spot 250 Double HCL 18', 2,774-82', 2,731-46'. RI w/RTTS on tbg 0 gal 15% HCL using ball sealers. Swb tst Foam w/N ₂ . eve BP. Strip out of hole w/tbg, pkr & BP. 3,050'.
	*See Instructions	BEFORE EXAMINER NUTTER OIL CONSERVATION DIVISION Harman EXHIBIT NO. 8 CASE NO. 6664
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Actual Prod. Test-MCF/D	Length of Test	Bbis. Consensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure	Cosing Pressure	Choke Size
CERTIFICATE OF COMPLIA	NCE	OIL CONSERVA	TION COMMISSION
I hereby certify that the rules an	d regulations of the Oil Convervation	APPROVED	
Commission have been complied	with and that the information given the best of my knowledge and belief.	вх	
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/ Petroleum Enginee	gnalwe)	If this is a request for allows well, this form must be accompan tests taken on the well in accord	able for a newly drilled or deepened led by a tabulation of the deviation lance with RULE 111.
			t be filled out completely for allow-
February 21, 1967	(lana)	Fill out Sections I, II, III,	and VI only for changes of owner, in or other such change of condition.
	(hate)		be filed for each pool in multiply

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NEW MEXICO OIL CONSER	Device 3 7/1 /rr
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CERTIFICATE OF COMPLIAN TO TRANSPORT OIL AN	
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Vell No. 1 Unit Letter L S 27 T	25 SR 37 E Pool Jalmat Chates
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uthorized Transporter of Oil or Condensate_	
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(Give address to which approved of	copy of this form is to be sent)
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All they a	NEW L'EXICO	OIL CON	SERV	ATION COMMISSION
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Re: Gas Wells

S-T-R

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A New Gas Well () An Gil Well Converted to Gas (X) An Oil-Gas Dual A Gas-Gas Dual

Gentlemen:

been received:

Box 1384

El Paso Natural Gas Co.

Jal, New Mexico

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Tot

Form C-104 has been received on your <u>Harrison #1-L</u> 27-25-Lease and Kell No. Unit

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But no allowable	can	be	assigned	this

well until the following forms have

Form C-110 _____

Plat_____

NSP Order_____

Notice of Connection_____

And a <u>160</u> acre allowable will

be assigned in the Jalmat Pool

under NSP Order No. _____306 .

Filed____7/9/56

Filed 10/17/57 (Showing Communitization)

Application Filed 7/17/56

Date of Connection_ 7/5/56

CIL CONSERVATION COMMISSION

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Engineer, District 1

Original-Operator cc-File

Original-CCC, Santa Fe cc-File, Cperator & Transporter-EP

Revised 5/1/57 NEW MEXICO OIL CONSERVATION COMMISSION Well Location and Acreage Dedication Plat Date_October 16, 1957 Section A. Lease Harrison Federal Operator El Faso Natural Gas Company Township Well No. 1 Unit Letter L Section 27 25 S Range 37 E NMPM Located____ Feet From South Line, 660 1980 ____Feet From____ West Line Dedicated Acreage_ G. L. Elevition 3019 County____ 160 Loa Acres Name of Producing Formation Yates Pool Jalmat 1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below? Yes__ No<u>x</u> 2. If the answer to question one is "no," have the interests of all the cwners been "yes," Type of Consolidation Communitization Agreement dated May 25, 1956 3. If the answer to question two is "no," list all the owners and their respective interests below: Cwner Land Description Section.B This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. El Paso Natural Gas Company (Operator) E lale (Representative) Dale 馬 Lockett 5th Floor Wilco Building Address Midland, Texas This is to certify that the well location shown on the El Paso Natural Gas Company x plat in Section B was plotted Harrison Federal No. 1 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 Registered Professional Engineer and/or Land Surveyor. 1980 2310 2640 1450 1320 2000 1000 Certificate No. (See instructions for completing this form on the reverse side)

Form C-128

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				ERVATION		SION	
		W	ell Location	and/or Gas	Prorati		Form C-128
Operator	El Faso J	latural Gas C	omeny	Lease_	Harri	ison	
Well No.	1	Section	27]	Township 2	25 S	Range	37 E NMP
Located	1980	Feet Fro	m South	Line,	660		
	Lea	· · · · · · · · · · · · · · · · · · ·	_County, N	ew Mexico.	G. L.	Elevation	3019
Name of P	roducing	Formation	-			-	cated Acreage 16
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2. If the an any other dedicated Name R. T. Position	vell a Dua nswer to C dually co acroage? Wright wright atroleun E El Faso	Luestion 1 is mpleted well yesN hatural Gas 24; Jal, New 1	yes, are th s within the No Conreny	prepa ere made that that the best c	by me o by me o he same of my kno Surveyed	n field note r under m are true a owledge an	he above plat was es of actual survey y supervision and nd correct to the d belief.

NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

..... REQUEST FOR (@EL) - (GAS) ALLOWABLE

: :

New Well-Resociation

Ul crin C-1041 Revised 7/1/521

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

				Jal, New Mex: (Place)		(Date)
	EREBY RI	EQUESTING	AN ALLOWABLE I	• •	WN AS:	
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(Unit)		• * * * *	r25S, R3			2 * · · ·
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OIL CONSERVATION COMMISSION BOX 2045 HOBBS, NEW MEXICO NOTICE OF GAS CONNECTION DATE July 12, 1956 This is to notify the Oil Conservation Commission that connection for the purchase of gas from the El Paso Natural Cas Company Barrison Operator Lease <u>#1-L</u> Well Unit Paso Natural Gas G Name of Purchaser Jalmat E٦ S. T. R. Pool July 5, 1956 Date was made on PASO NATURAL CAS COMPA ET. Purchaser Representative A. F. Fuller Ass't. Chief Field Dispatcher Title To operator Oil Conservation Commission - Santa Fe 100

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

August 22, 1956

El Paso Natural Gas Company P. C. Box 1492 El Paso, Texás

Attention: Mr. R. L. Harrhlin

Administrative Order NSP-306

Gentlen en:

Reference is r rie to your application for approval of a 100-pere non-standard gas prevation uplt in the Jt in at Cas Feel consisting of the following screage:

> Township 25 South, Ranne 37 East, NAPM SV/4 of Section 27

It is understood that this unit is to be ascribed to your Burrison Federal Well No. 1, located 1980 feet from the South Bine and 660 feet from the West Bine and in the NW/4 SW/4 of Section 27, Township 25 South, Range 37 East, NMTM, Lea County, New Mexico.

By authority granted me under provisions of Role 5, Section (b)-6 of the Special Rules and Regulations for the Jalmat Gas Puol, as set forth in Order B-520, you are hereby authorized to operate the above described acreage as a non-standard gas provation unit, with allowable to be assigned thereto in accordance with pool rules, based upon the unit size of 160 acres. The allowable shall not be effective until proof of communitization of the working interest is submitted by applicant to both the Hobbs and Santa Fe Offices of the Oil Commission.

Very truly yours,

A. L. Porter, Jr. Secretary-Director

ALP:jh cc: fil Conservation Commission, Holds N. M. Cill& Cas Engr. Comm., Holds El Paso Natural Gas Company, Jal

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(Feb. 1951) (SUBMIT	IN TRIPLICATE)	and office. Las Cruc
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NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING	CASING.
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Form 9-331a	1	And Office.
	I.	Marrison
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	CAL SURVEY	_
RO-762SUNDRY NOTICES AN	D REPORTS ON	WELLS
	SUBSEQUENT REPORT OF WATER SI	IUT-OFF
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NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF RE-DRILL	ING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDON SUPPLEMENTARY WELL HISTORY	MEN I
NOTICE OF INTENTION TO PULL OR ALTER CASING.		
(INDICATE ABOVE BY CHECK MARK NA	TURE OF PLPORT, NOTICE, OS OTHER D	DATA)
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Well No is located	37E IN	IPM
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Jalmat Pool Lea	New Mexico	(State or Territory)
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We propose to set plug at 3165' a Sandfrac with 10,000 gallons and depth is 3294'.	nd perforate from 10,000# sand, and	2838' to 2930'. test. Total
We propose to set plug at 3165' a Sandfrac with 10,000 gallons and depth is 3294'.	nd perforate from 10,000# sand, and	2838' to 2930'. test. Total
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árt er:

NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well Berryndryry

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowalle will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

	•		(Place) New Mexico May 24	1.955
WE ARE	HEREBY	REQUESTI	ING AN ALLOWABLE FOR A WELL KNOWN AS:	
			HarrisonWell No. 1, in NW 4. S	W V
(Ci	(Company or Operator)		(Lease)	
ມນ (Unit		:c.,,	, T. 25 S., R. 37 E., NMPM., Langlic-Mattix	Pool
			County. Date Spudded. 3/27/55	
	se indicate		Date Completed. 41.741.7.0.9.	•••••
			3010 G.E. Elevation 3019 (D.F.) Total Depth 3370 P.B.None	
			Top oil/gas pay	<u>}</u>
			Casing Perforations:	or
			Depth to Casing shoe of Prod. String	
			Natural Prod. Test. No. test	BOPD-
			based on	Mins.
	••••••••••••••••••••••••••••••••••••••	·····	Test after acid or shirt. Sand frac	BOPD
Casing Size	and Cemez Feet	ting Bocord Sax	Based on 55 bbls. Oil in 24 on pumples.	Mins.
9-5/8	325	300	Gas Well Potential	
7"	3250	200 at	shoeSize choke in inches	
		set at	2-stage	
			Transporter taking Oil or Gas:	
L	I]	
Remarks:				
				••••••
	• •		rmation given above is true and complete to the best of my knowledge.	
Approved		· · · · · · · · · · · · · · · · · · ·	, 19. R. Olsen	· · · · · · ·
			(Company or Operator)	

OIL CONSERVATION COMMISSION inter Bv Title

RO-762

By: C.C.F ou (Signature)

Title. Geologist Send Communications regarding well to:

Name. R. Olsen

Address. Drawer Z, Jal, N.K.

(Form C-101) 'Revised 7/1/52+

		Form 9-331a	, ,	Budger bag and Back St. Approval report. By 31-55.
-		(Feb. 185) 102~762 (SUBMIT	IN TRIPLICATE)	Los Graces
And the second s			ED STATES	Usersi pon
5 A.		DEPARTMEN	t of the Interior	Unit
**		GEOLO	GICAL SURVEY	
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		NOTICE OF INTENTION TO SHOOT OR ACIDIZE		I I
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	2	(INDICATE ABOVE BY CHECK MARK	NATURE OF REPORT, NOTICE, OR OTHER	DATA)
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		ideo		h 23, 1955
		Well No. 1 is located ft. from	Is line and 660 ft. fre	m Ex line of sec. 27
	<i>.~</i>			
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		Lenglic Tattix Lea	Subdivision)	(State or Territory)
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	1		LS OF WORK	· · ·
		(State names of and er; ected depths to objective sands; show size ing points, and all ot		inge; indicate mudding jobs, cement-
		ing points, and all of	ner important proposed work)	
		'e propose to drill to the app	roximate total dep	oth of 32001,
		casing program plan to be 300' sacks of cenent, cerent to set	for 24 hours; app	roximately 3000
		of 7" 23" and 20" casing to be two-staged, cement to set for	set using 300 sac	iks of covent
		Expected Tops:		
		Top of Yates at approximately	25001.	
	-	Top of usen at approximately	3025'.	
		I understand that this plan of work must receive approval in v	riting by the Geological Survey before	operations may be commenced.
	- · ·	Company 2. 01son		
		Address		
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RADTKE, AYCOCK, & ASSOCIATES, INC. Petroleum Engineeting Consultants 310 WALL TOWERS WEBT MIDLAND, TEXAB 79701 TELEPHONE 915/684-8044

September 15, 1979

Mr. Doyle Hartman 508 C&K Petroleum Building Midland, Texas 79701

Subject:

Proposed Jalmat Pool Gas Development Well 330' FS&WL, 27-25S-37E Lea County, New Mexico

Dear Mr. Hartman:

As you requested, an engineering study involving 15 wells in the vicinity of the proposed well location has been made; one purpose of this study was to determine, if possible, the extent to which drainage from existing wells may have depleted the gas reserves originally underlying the proposed proration unit assigned to the well $(W/2 - \xi NE/4, SW/4, 27-25S-37E)$. The other purpose of this study was to provide an estimate of the increased gas recovery attributable to the proposed well. The results of this study are a prescribed part of Natural Gas Policy Act infill development applications, as established by Conservation Division, State of New Mexico Energy and Minerals Department in Case No. 6520, Order No. R-6013.

Because of the age of many of the wells located on the acreage surrounding the proposed location, engineering analyses must rely heavily upon analogy as a methodology. Calculations of effective drainage areas and comparison of wellhead shut-in pressures as reported to the State of New Mexico provide supplemental, confirmatory evidence for drainage and recovery estimates. The analogy estimates of estimated ultimate recovery for seven of the eight wells for which performance and log data were analyzed in detail can be summarized as follows:

Analogy Basis:	Estimated Increased	
Seven Well Sample	Gas Recovery, MMCF	
Mean	1464	
Minimum	74	
Maximum	4476	

Mr. Doyle Hartman September 15, 1979 Page 2

As can be seen from an examination of the attached table, calculated effective drainage areas range from much less than the spacing on which the wells are drilled to more than the well development spacing:

	Estimated Effective
Basis	Drainage Area, Acres
Mean	115
Minimum	14
Maximum	300
	-

A comparison of initially measured tubing pressures is not considered as useful because of the differing ages of the nearby wells; however, the shut-in wellhead pressures for the sample wells still active in 1978 resulted in the following, as extracted from the attached table for the five wells for which the data was available:

Basis for Comparison	Pressure, psia
Mean	175.0
Minimum	74.2
Maximum	333.2

Noting that the difference between the maximum and minimum values of shut-in wellhead pressures is 259.0 psia, this maximum difference is 148 percent of the mean pressure. It is unlikely, in our opinion, that these pressures indicate an efficient degree of pressure communication, unless the unknown amount of fluid that was contained within these wellbores and/or variations in relative pressure buildup characteristics coincidentally resulted in these differences. Additionally, it is noteworthy that in general, the reported pressures for the newer wells were higher than the pressures reported for the older wells in 1978.

The unexpected existence of water within the Yates-Seven Rivers formations in the area near the proposed well has resulted in the abandonment without production of at least two wells. Water production has also resulted in the apparently premature abandonment of one or more wells within this area. Whether the water was indigenous or migrated into the Yates-Seven Rivers formations from other zones cannot be precisely defined; however, such water production, when associated with commercially exploitable reservoir quality is anomalous. You should be aware that drilling within this area of the Jalmat Pool appears to have more inherent risk than you have previously experienced. Mr. Doyle Hartman September 15, 1979 Page 3

If the apparent risk associated with drilling the proposed well is acceptable to you, we expect that the well, if successfully completed, will develop substantial gas reserves that would otherwise likely prove to be unrecoverable.

> Very truly yours, ORIGINAL SIGNED BY WM. P. AYCOCK

Wm. P. Aycock, P.E.

WPA/bw

Attachment



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	Page 2
1	MR. NUTTER: We'll call now Case Number
2	6664.
3	MR. PADILLA: Application of Doyle Hartman
4	for an unorthodox well location, two non-standard proration
5	units, and approval of infill drilling, Lea County, New
8	Mexico.
7	MR. CARR: Mr. Examiner, we would request
8	that this case be continued to the Examiner Hearing
9	scheduled to be held on October 17th.
	MR. NUTTER: Case Number 6664 will be con-
	tinued to the Examiner Hearing scheduled to be held at this
	same place at 9:00 o'clock a.m. October 17th, 1979.
	It will have to be re-advertised in the
3 5 2 14	Santa Fe newspaper as they made an error in the description
15	of the lands, also.
16	
17	(Hearing concluded.)
18	
19	
20	
21	
22	
23	
24	
25 ·	
	n na se

REPORTER'S CERTIFICATE

I, SALLY W. BOYD, a court reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, from my notes taken at the time of the hearing.

Sally W. Boyd, 'C.S.R.

I do hereby certify that the foregoing is a conclude record of the proceedings in the Example hearing of Case No. 4644 heard by me on _______ 1979 Oil Con ervation Division



6664.

MR. PADILLA: Application of Doyle Hartman for an unorthodox well location, two non-standard proration units, and approval of infill drilling, Lea County, New Mexico.

MR. NUTTER: We'll call now Case Number

MR. CARR: Mr. Examiner, we would request that this case be continued to the Examiner Hearing scheduled to be held on October 17th.

MR. NUTTER: Case Number 6664 will be continued to the Examiner Mearing scheduled to be held at this same place at 9:00 o'clock a. m. October 17th, 1979. It will have to be re-advertised in the

Santa Fe newspaper as they made an error in the description of the lands, also.

(Hearing concluded.)

REPORTER'S CERTIFICATE

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I, SALLY W. BOYD, a court reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. **6664** heard by me on 919 1979. Oll Conservation Division Examiner

Page 2 of 6 Examiner Hearing - Wednesday - October 17, 1979

CASE 6680: (Continued from October 2, 1979, Examiner Hearing)

Application of Robert C. Anderson for surface commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the surface commingling of all production from his Ute Mountain Ute Lease, Wells Nos. 1, 3 and 4, located in Section 14, Township 31 North, Range 16 West.

CASE 6631: (Continued from August 22, 1979, Examiner Hearing)

Application of Reserve Oil, Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat gas and Langlie Mattix oil production in the wellbore of its Cooper Jal Unit Well No. 149-306 located in Unit J of Section 18, Township 24 South, Range 37 East.

- CASE 6700: Application of Doyle Hartman for an unorthodox well location, a non-standard proration unit, and approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 120-acre non-standard proration unit comprising the NW/4 NW/4 and S/2 NW/4 of Section 29, Township 25 South, Range 37 East, Jalmat Gas Pool, to be dedicated to a well to be drilled at an unorthodox location 2310 feet from the North line and 330 feet from the West line of said Section 29; applicant further seeks a waiver of existing well spacing requirements and a finding that the drilling of said well is necessary to effectively and efficiently drain that portion of the existing proration unit which cannot be so drained by the existing well.
- CASE 6701: Application of Doyle Hartman for compulsory pooling, non-standard gas proration unit, unorthodox well location, and approval of infill drilling, Lea County, New Mexico. Applicant, in the abovcstyled cause, seeks an order pooling all mineral interests in the Seven Rivers-Queen formations underlying the SE/4 of Section 30, Township 21 South, Range 36 East, Eumont Gas Pool, to form a 160-acre non-standard gas proration unit to be dedicated to his J. K. Rector Well No. 1 at an unorthodox location 2310 feet from the South line and 330 feet from the East line of said Section 30. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well. Applicant further seeks a waiver of existing well spacing requirements and a finding that the drilling of said well is necessary to effectively and efficiently drain that portion of the existing proration unit which cannot be so drained by the existing well.

CASE 6676:. (Continued from October 2, 1979, Examiner Hearing)

Application of Doyle Hartman for an unorthodox well location and a non-standard proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an 80-acre nonstandard gas proration unit comprising the SW/4 NE/4 and SE/4 NW/4 of Section 36, Township 24 South, Range 36 East, Jalmat Gas Pool, to be dedicated to a well to be drilled at an unorthodox location 2310 feet from the North line and 1650 feet from the East line of said Section 36.



ALC: NO

CASE 6664: (Continued from September 19, 1979, Examiner Hearing)

Application of Doyle Hartman for an unorthodox well location, two non-standard proration units and approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 40-acre non-standard proration unit comprising the NW/4 SW/4 of Section 27, Township 25 South, Range 37 East, Jalmat Pool, to be dedicated to El Paso Natural Gas Company's Harrison Well No. 1, and also a 120-acre unit comprising the E/2 SW/4 and SW/4 SW/4 of said Section 27 to be dedicated to a well to be drilled at an unorthodox location 330 feet from the South and West lines of the section; applicant further seeks a waiver of existing well spacing requirements and a finding that the drilling of said well is necessary to effectively and efficiently drain that portion of an existing proration unit which cannot be so drained by the existing well.

CASE 6662: (Continued from September 19, 1979, Examiner Hearing)

Application of Supron Energy Corporation for a dual completion and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Jicarilla "A" Well No. 22Y located in Unit K of Section 24, Township 26 North, Range 4 West, to produce gas from the Blanco Mesaverde Pool through tubing and to commingle and produce the Wildhorse Gallup and Basin-Dakota zones through a parallel tubing string.

CASE 6702: Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of South Blanco-Pictured Cliffs and Blanco Mesaverde production in the wellbore of its San Juan 27-5 Unit Well No. 67 located in Unit B of Section 31, Township 27 North, Range 5 West.

	Page 2		
		earing - Wednesday - September 19, 1979	Docket No. 36-79
	<u>CASE 6658</u> :	Application of Texas Pacific Oil Company, Inc. for an unorthodox well location and a m proration unit. Lea County. New Mexico. Applicant, in the above-styled cause, seeks a 160-acre non-standard gas proration unit comprising the S/2 NE/4 and N/2 SE/4 of Secti ship 24 South, Range 36 East, Jalmat Gas Pool, to be dedicated to its J. W. Cooper Wel an unorthodox location 2010 feet from the North line and 2310 feet from the East line Section 14.	pproval of a on 14, Town- 1 No. 8 at
	<u>CASE 6659</u> :	Application of Amoco Production Company for an exception to Order No. R-3221, Eddy Cou Applicant, in the above-styled cause, seeks an exception to Order No. R-3221 to permit produced brine in several unlined surface pits located in Sections 27, 34 and 35, Town Range 31 East.	disposal of
-	<u>CASE 6660</u> :	Application of B. & W. Oil Reclaiming for an oil treating plant permit, Eddy County, N Applicant, in the above-styled cause, seeks authority for the construction and operati treating plant for the purpose of treating and reclaiming sediment oil at a site in th of Section 34, Township 18 South, Range 26 East.	on of an oil
	<u>CASE 6661</u> :	Application of LaRue and Muncy for an exception to R-111-A, Eddy County, New Mexico. the above-styled cause, seeks an exception to the casing-cementing rules of Order R-11 well to be drilled in Unit C of Section 22, Township 18 South, Range 30 East, Leo Quee to be cased by setting surface casing at the top of the salt, circulating cement on th and omitting the intermediate casing required by R-111-A; applicant further requests s apply to all of Sections 15 and 22 of said township to permit additional wells to be c same manner.	1-A to permit a n-Grayburg Pool, e oil string, pecial rules to
	<u>CASE 6662</u> :	Application of Supron Energy Corporation for a dual completion and downhole comminglin County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual of its Jicarilla "A" Well No. 22Y located in Unit K of Section 24, Township 26 North, i to produce gas from the Blanco Mesaverde Pool through tubing and to commingle and prod Wildhorse Gallup and Basin-Dakota zones through a parallel tubing string.	completion Range 4 Vest,
	<u>CASE 6663</u> :	Application of Doyle Hartman for an unorthodox well location and approval of infill dr County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing y requirements and a finding that the drilling of a well at an unorthodox location 330 fo South line and 2310 feet from the West line of Section 36, Township 23 South. Range 36 Gas Pool, is necessary to effectively and efficiently drain that portion of the existing unit which cannot be so drained by the existing well.	well spacing eet from the East, Jalmat
	CASE 6664:	Application of Doyle Hartman for an unorthodox well location, two non-standard proration approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled car approval of a 40-acre non-standard proration unit comprising the NW/4 SW/4 of Section ship 25 South, Range 37 East, Jalmat Pool, to be dedicated to El Paso Natural Gas Compo Well No. 1, and also a 120-acre unit comprising the E/2 SW/4 and SW/4 SW/4 of said Section be dedicated to a well to be drilled at an unorthodox location 330 feet from the South of the section; applicant further seeks a waiver of existing well spacing requirements that the drilling of said well is necessary to effectively and efficiently drain that p existing proration unit which cannot be so drained by the existing well.	ause, seeks 27, Town- any's Harrison tion 27 to and West lines and a finding
	CASE 6647:	(Continued from September 5, 1979, Examiner Hearing)	-
		Application of 0. H. Berry for an unorthodox gas well location, Lea County, New Mexico in the above-styled cause, seeks approval for the unorthodox location of a Seven Rivers located 1650 feet from the North line and 330 feet from the East line of Section 15, To South, Range 36 East, Jalmat Gas Pool, the NE/4 of said Section 15 to be dedicated to t	s well to be waship 24
	<u>CASE 6665</u> :	Application of Amax Chemical Corporation for the amendment of Order No. R-111-A, Eddy (Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-111-4 the boundaries of the Potash-Oil Area by the inclusion of certain lands in Sections 22 ship 19 South, Range 29 East, and Section 19, Township 19 South, Range 30 East.	to extend

CASE 6666: Application of Exxon Corporation for a non-standard proration unit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 377.57-acrc non-standard gas proration unit comprising lots 1, 2, 3, and 4 and the N/2 N/2 of Section 36, Township 26 South, Range 25 East, and Lots 3 and 4 and the N/2 NW/4 of Section 31, Township 26 South, Range 26 East, to be dedicated to a Morrow test well to be located in Unit A of said Section 36.

<u>CASE 6667</u>: Application of Exxon Corporation for a non-standard proration unit, an unorthodox well location, and simultaneous dedication; Lea County, New Mexico. Applicant, in the above-styled cause, seeks the approval of a 320-acre non-standard gas provation unit comprising the W/2 of Section 10, Township 21 South, Range 36 East, Eumont Pool, to be simultaneously dedicated to its A. J. Adkins Com Well No. 1 located in Unit L, and to its Well No. 2, at an unorthodox location 1650 feet from the North and West lines of said Section 10.

applicant, in the above - sligled Cause, sake approval of a 40 acre non shandard provation with comprising the NW 74 SW 74 of Section 27, Tansalip 25 South, Range 37 East, Jalmat Poul, to be dedicated to 21 Paro Natural Gas Company's Narrison Will Do. 1, and also a 120-acre unit comprising the E/2 Sult and suffrant of said section 27 to be delicated to a wree to be drifted al an unorthoday location 330 feet from the South a wast lines of the section; applicant further sales a waiver of existing well spacing requirements and a finding that the drilling of said well is necessary to effectively and officiently drain that portion of an existing provation which which cannot be drained by the existing well.

CAMPBELL AND BLACK, P.A.

LAWYERS

JACK M. CAMPBELL BRUCE D. BLACK MICHAEL B. CAMPBELL WILLIAM F. CARR PAUL R. CALDWELL

POST OFFICE BOX 2208 JEFFERSON PLACE SANTA FE, NEW MEXICO 87501 TELEPHONE (505) 988-4421

August 23, 1979

Mr. Joe D. Ramey, Director Oil Conservation Division Department of Energy and Minerals Post Office Box 2088 Santa Fe, New Mexico 87501



OIL CONSERVATION DIVISION SANTA FE

Dear Mr. Ramey:

Enclosed herewith, in triplicate, is the application of Doyle Hartman for two non-standard proration units and infill findings, Lea County, New Mexico.

Mr. Hartman requests that this case be set for the examiner hearing to be held on September 19, 1979.

Very truly yours, William F. Carr

WFC:tn

Enclosure

cc: Mr.Doyle Hartman Suite 508 C & K Petroleum Bldg. Midland, Texas 79701

BEFORE THE

AUG 2 7 1979 OIL CONSERVATION DIVISION SANTA FE

OIL CONSERVATION DIVISION

JIVIDION SANIAT

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

APPLICATION OF DOYLE HARTMAN FOR APPROVAL OF INFILL DRILLING AND TWO NON-STANDARD PRORATION UNITS, LEA COUNTY, NEW MEXICO.

6664 CASE

APPLICATION

Comes now DOYLE HARTMAN, by his undersigned attorneys, and applies to the New Mexico Oil Conservation Division for approval of two non-standard gas proration units, Jalmat Gas Pool, Lea County, New Mexico, and for infill findings and in support of his application states:

1. El Paso Natural Gas Company is the operator of the SW/4 of Section 27, Township 25 South, Range 37 East, N.M.P.M., Lea County, New Mexico, which is dedicated to its Harrison No. 1 Well located in the NW/4 SW/4 of said Section 27.

2. Applicant has received a farmout from El Paso Natural Gas Company of the E/2 SW/4 and the SW/4 SW/4 of said Section 27.

3. Applicant seeks the establishment of two non-standard gas proration units in the Jalmat Gas Pool; one comprising the NW/4 SW/4 of said Section 27 as a new forty acre proration unit to be dedicated to El Paso Natural Gas Company's Harrison No. 1 Well and the other comprising the E/2 SW/4 and the SW/4 SW/4 of said Section 27 as a new one hundred twenty acre proration unit to be dedicated to applicants proposed Hartman Santa Fe-Federal No. 1 Well to be drilled at a point 330 feet from the south and west lines of said Section 27. 4. The proposed well will be drilled into the same proration and spacing unit dedicated to the Harrison No. 1 Well.

5. Applicant seeks a determination pursuant to the F.E.R.C. Rules, Part 271.305 that the proposed Hartman Santa Fe-Federal No. 1 Well is necessary to effectively and efficiently drain a portion of the Jalmat Gas Pool covered by the proposed proration units which cannot be effectively and efficiently drained by any existing well within the proration unit and will offer evidence in support of that determination.

WHEREFORE, applicant respectfully requests that this matter be set for hearing before the Commission or one of the Division's duly appointed examiners and that after notice and hearing as required by law, the Division enter its order approving the application.

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Respectfully submitted, CAMPBELL AND BLACK, P.A.

William F. Carr Post Office Box 2208 Santa Fe, New Mexico 87501 Attorneys for Applicant

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

APPLICATION OF DOYLE HARTMAN FOR APPROVAL OF INFILL DRILLING AND TWO NON-STANDARD PRORATION UNITS, LEA COUNTY, NEW MEXICO.

6664 CASE

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Respectfully submitted, CAMPBELL AND BLACK, P.A.

Villiam F. Carr

Post Office Box 2208 Santa Fe, New Mexico 87501 Attorneys for Applicant

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

APPLICATION OF DOYLE HARTMAN FOR APPROVAL OF INFILL DRILLING AND TWO NON-STANDARD PRORATION UNITS, LEA COUNTY, NEW MEXICO.

CASE 6664

APPLICATION

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3. Applicant seeks the establishment of two non-standard gas proration units in the Jalmat Gas Pool; one comprising the NW/4 SW/4 of said Section 27 as a new forty acre proration unit to be dedicated to El Paso Natural Gas Company's Harrison No. 1 Well and the other comprising the E/2 SW/4 and the SW/4 SW/4 of said Section 27 as a new one hundred twenty acre proration unit to be dedicated to applicants proposed Hartman Santa Fe-Federal No. 1 Well to be drilled at a point 330 feet from the south and west lines of said Section 27. 4. The proposed well will be drilled into the same proration and spacing unit dedicated to the Harrison No. 1 Well.

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> Respectfully submitted, CAMPBELL AND BLACK, P.A.

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Post Office Box 2208 Santa Fe, New Mexico 87501 Attorneys for Applicant

DRAFT STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION dr/ IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING: 6564 CASE NO. Order No. R- 6/74 APPLICATION OF DOYLE HARTMAN FOR AN UNORTHODOX WELL LOCATION, TWO FOR A NON-STANDARD PRORATION UNITS AND APPROVAL OF INFILL DRILLING, LEA COUNTY, NEW MEXICO. ORDER OF THE DIVISION BY THE DIVISION: This cause came on for hearing at 9 a.m. on Sept 19 79, at Santa Fe, New Mexico, before Examiner Deniel S. Nut NOW, on this day of , 19 79 , the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises, FINDS: That due public notice having been given as required by (1) law, the Division has jurisdiction of this cause and the subject matter thereof. (2) That the applicant, Doyle Hartman seeks approval of a 40 _____-acre non-standard gas proration unit of Section 27 comprising the NW/4 SW/4 __, Town-, Range 37 East , NMPM, to be dedicated to the ship 25 South Well No. 1 and also a 120-acre unit comprising El Paso Natural Gas Company's Harrison/ -r-located -inthe E/2 SW/4 and SW/4 SW/4 of said Section 27 to be dedicated to well to be drilled a section of the section of well to be drilled to the west line of said Section 27. Hocation 660 feet from the South

(3) Applicant further seeks a waiver of existing well spacing requirements and a finding that the drilling of said well is necessary to effectively and efficiently drain that portion of an existing proration unit which cannot be so drained by the existing well.