CASE NO.

6225

APPlication,
Transcripts,
Small Exhibits,

ETC.

JERRY APODACA

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 15051 827-2434

NICK FRANKLIN SECRETARY

November 3, 1978

Re:	CASE NO	6225 R-5736		
Attorney at Law 1231 Paseo De Peralta Santa Fe, New Mexico	Applicant:		٤	
•	Petroleum	Developmen	t Corporat	ion
ear Sir:				
nclosed herewith are two livision order recently e	copies of the	e above-ref subject ca	se.	
Tours very truly, JOE D. RAMEY Director				
			-	
JDR/fd				
Copy of order also sent	to:			
Hobbs OCC X Artesia OCC X Aztec OCC				
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. 6225 Order No. R-5736

APPLICATION OF PETROLEUM DEVELOPMENT CORPORATION FOR A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 o'clock a.m. on May 17, 1978, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 2nd day of November, 1978, 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, Petroleum Development Corporation, seeks authority to complete its Sun McKay Federal Well No. 2, located in Unit G of Section 10, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Wolfcamp formation through tubing and gas from the Morrow formation through the casing-tubing annulus by means of a cross-over assembly.
- (3) That the Morrow formation producing gas-liquid ratio is very low, being less than 30,000 cubic feet of gas per barrel of condensate.
- (4) That the Division has heretofore determined that the production of condensate from low gas-liquid ratio gas wells through the casing-tubing annulus is inefficient,

-2-Case No. 6225 Order No. R-5736

requires an excessive amount of reservoir energy, and causes waste.

- (5) That the Division has a long-established policy of prohibiting the production of low gas-liquid ratio gas wells through the casing-tubing annulus in the absence of evidence disproving those determinations cited in Finding No. (4)
- (6) That the applicant in this case offered no evidence to disprove said determinations.
 - (7) That the application should be denied.

IT IS THEREFORE ORDERED:

- (1) That the application of Petroleum Development Corporation to complete its Sun McKay Federal Well No. 2, located in Unit G of Section 10, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Molfcamp formation through tubing and gas from the Morrow formation through the casing tubing annulus by means of a cross-over assembly is hereby denied.
- (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 the day and year herein-

STATE OF NEW MEXICO
OLL CONSERVATION DIVISION

JOE D. RAMEY,

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COTTICGION NEARING

IN THE MATTER OF:

Application of Petroleum Development)
Corporation for a dual completion,)
Lea County, New Mexico.

CASE 6225

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

APPEARANCES

For the New Mexico Oil Conservation Commission:

Joe Ramey, Chairman Emery Arnold, Commissioner Phil Lucero, Commissioner Richard L. Stamets, Staff Member

Lynn Teschendorf, Esq., Legal Counsel

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P.O.BOX 449 58 SOUTH FEDERAL PLACE SANTA FE, NEW MEXICO 87501

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FOR PETROLEUM DEVELOPMENT CORPORATION:

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REGEL & McCULLOH, PA 1231 Paseo De Peralta Santa Fe, New Mexico 87501 BY: WALTER R. REGUL, Esq.

LANPHERE REPORTING SERVICE

P.O. BOX 449 58 SOUTH FEDERAL PLACE SANTA FE, NEW MEXICO 87501 MR. STANKTS: Call the next Case, 6225.

MS. THSCHENDORF: Case 6225, Application of Petroleum Development Corporation for a dual completion, Lea County, New Mexico.

MR. STAMETS: Call for appearances.

MR. KEGEL: Walter R. Kegel, Attorney, Santa Fe, New Mexico for the Applicant.

I have one witness, J. C. Johnson, President of the Applicant.

MR. STAMETS: Any other appearances?

Okay, Mr. Johnson, stand and be sworn, please.

J. C. JOHNSON

the witness herein, having been duly sworn upon his oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KEGEL:

- Q State your name, address, and occupation, please.
- A J. C. Johnson, Albuquerque, New Mexico, President of Petroleum Development Corporation.
- Q Have you previously appeared before this Commission?
 - A I have.
 - Q And been qualified to testify as an expert?

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- A Yes, I have.
- O Would you state briefly the purpose of and summarize the application which you have filed?

Ne filed an application to dual complete the Sun McKay Federal No. 2 from the Morrow gas zone and the Wolfcamp oil zone. The application applies to flow the oil zone through 2-3/8 inch tubing and the gas zone utilizing a cross-over between the 5-1/2 inch and2-3/8 inch casing annulus.

- Q Have all other section offset operators been notified of this hearing?
 - A Yes, they have.
- Q Is there any information which you wish to present in addition to that which is contained in the application in the exhibits?

A On the-- We filed all the exhibits as required in the Form C-107. The exhibits will be-- The proposed dual completion will be done as shown on the Exhibit A. The 5-1/2 inch casing will be tested to 4,000 pounds prior to perforating the Wolfcamp zone.

The Morrow gas zone does make condensate at approximately gas-oil ratio of 25,000. The volume of this well we feel is sufficient to unload the annulus at all

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shown as the upper part 25, we have a sliding sleeve and below it a flow nimple which will enable us to set a plug shutting off the Wolfcamp zone, open the sliding sleeve and unload any liquids if they accumulate in the annulus.

Seven days after we actually install the dual completion, we will perform a packer laches (sic) test.

MR. KEGEL: No further questions, Mr. Examiner.

EXAMINATION

BY MR. STAMETS:

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- Mr. Johnson, did you say the gas-oil ratio in the Morrow was 25,000?
 - A Yes, approximately 25,000 to 1.
 - 0 25,000 cubic feet?
 - A Yes.
- O That sounds an awful lot like an oil well, Mr. Johnson.
- A Well, it's--- They'll vary in this particular area. Of course, it's definitely condensate of around 55 to 60 degree gravity.
- Q Do you have a copy of the mole point test on the Morrow zone with you?
 - A No, I don't. It's just currently being run.

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We're going by other Morrow wells we have in that area.

O 'Mr. Johnson, in the associated pool rules, any well with a gas-oil ratio less than 30,000 to 1 is considered an oil well, and if the Morrow is producing at that rate it certainly sounds to me like an associated pool or an oil pool rather than a gas pool. I'm sure you're aware it's been the Commission's policy not to permit annulus flow from oil reservoirs. Were you aware of that---

A Yes, I am. Right.

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O Do you have any evidence to indicate that the liquids can be produced through this annulus efficiently?

A Yes, I do. Number 1, the Morrow in this area, and I'm going by the other wells, we have several other completions in this particular area. The— This well it appears will flow at a rate of in excess of a million a day. To unload these liquids, we calculated it'll take approximately 5— to 600 Mcf a day. The Morrow zones in this area will start off around 25,000 to 1 gas—oil ratio. Now, this well may not be the same. We should have that AOF completed in the next— The bottom hole pressure is still on the holes.

Q So your 25,000 to 1 is not based on this well?

A No, it's based on the other wells that we started

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P.G. BOX 449 S8 SOUTH FEDERAL PLACE SANTA FE, NEW MEXICO 87501 off in this area. We--- However, within a short period of time, and I'm depending on the size of the well, these gas-oil ratios will climb right on up. The wells start off with a gas-oil ratio of say 20--, some wells as 20,000. Within a period of 6 months, they're usually up to 30-- or 40,000 gas-oil.

- Ω What pool is this in?
- A This is in the Los Morrow pool.
- O Do you have any evidence to present that shows this gas-oil ratio increase that you're talking about?

A I do not have it with me. I do have production history on a well that's mentioned in here on Exhibit B, the Sun McKay No. 1 which is approximately 1570 feet, a little farther than that I believe, but due west of this well that has been on production there for approximately 3 months; and it has shown a definite increase in gas-oil ratio.

of your 122 to the Examiner following completion of the test. The Examiner will take note of our records on the well that you've pointed out, however, I also would point out that I find very little presented at this time with which I could render an affirmative decision in this case.

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Page	,	

Anything further you wish to add in this case?

A Well, I'd like to also submit to you the records of the production history in the gas-oil ratio in the Sun McKay No. 1.

Q Okay.

A And also we'll submit the AOF and see what this gas-oil ratio is on this well.

O This information should've been presented at this hearing rather than subsequent to it.

Anything further?

Witness may be excused.

Anybody else have anything else in this case?

Case will be taken under advisement.

(WHEREUPON, hearing on this case concluded.)

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P.O. BOX 449 SOUTH FEDERAL PLACE SANTA FE, NEW MEXICO 87501

REPORTER'S CERTIFICATE

I, BETTY J. LAMPHERE, a court reporter with offices in Santa Fe, New Mexico, do hereby certify that the foregoing transcript is a complete and accurate record of said proceedings as the same were recorded by me stenographically and reduced to typewritten transcript by me or under my supervision.

of Otalia, 1978.

BETTY J. LANDHEREN Court Reporter

I do hereby certify that the foregoing is a coinflete record of the proceedings in the Examiner hearing of Case No. 1978 heard on the on heard of the proceedings in the Examiner hearing of Case No. 1978 heard on the proceedings in the Examiner hearing of Case No. 1978 heard on heard on the proceedings in the proceeding in the proceedings in the proceedings in the proceedi

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1.	Appearances			3	
2.	The Titness - J. C. JOHNSON			-	
	Direct Examination by Mr. Kegel			ð	
	Examination by Mr. Stamets			6	
2	Papartor's Cartificate	1		1.0	

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SANTA FE, NEW MEXICO 87501



PETROLEUM DEVELOPMENT CORPORATION

9720-B CANDELARIA, NE ALBUQUERQUE, NEW MEXICO 87112 TELEPHONE (505) 293-4044

THE WAR THE

May 22, 1978

Mr. Richard L. Stanmets New Mexico Oil Conservation Commission PO Box 2088 State Land Office Building Santa Fe, New Mexico 87501

> RE: Case 6225 Sun McKay Federal #2 G-Sec. 10, T19S, R32E Lea County, New Mexico

Dear Mr. Stanmets:

In regard to our letter dated May 19, 1978 referencing the above well, we have received the C-122 report and we are forwarding it to your attention.

If you have any questions, please call.

Sincerely,

0. C. Johnso President

JCJ/pb Encs.

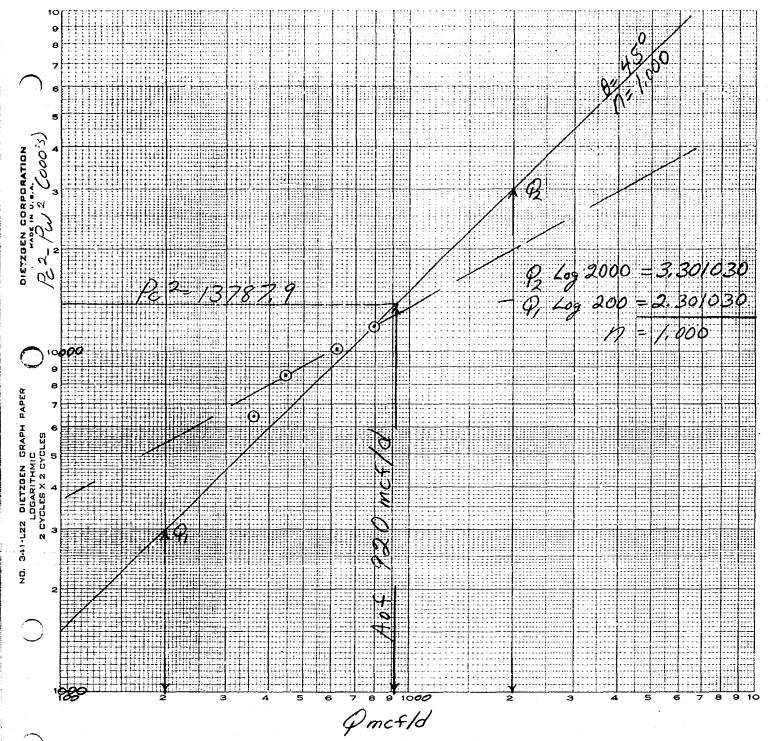
a Charles

NEW MEXICO OIL CONSERVATION COMMSSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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PETROLEUM DEVELOPEMENT CORPORATION

Sun McKay Federal No. 2 G-10-19-32 Lea County, New Mexico May 13, 1978



COMPANY Petro	Cum Development	Corps Sun Mck	ay Fed. WELL NO	2	DATE 5/13/78
			Township		
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COMPANY Patroleum Sevelopment Confé Sun McKay Fed. WELL NO. 2 DATE 5/13/78

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One copy to be filed in District Office (Work copy acceptable)

COMPANY Betisleum Development Corpé Sun McKay Fed. WELL NO. 2 DATE 5/13/78	
LOCATION: Unit G Section 10 Township 19 Range 32	
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Form C-122-E Adopted 9-1-65

COMPANY Patroleum Development Cersé Sun McKay Fed. WELL NO. 2 DATE 5/13/78	
LOCATION: Unit G Section O Township 19 Range 3-2	-
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d/.995 Fr. 01823 bm . 795 M2cfd (L/H) (FrQm)2 .000210 Pcr 667 Tcr 405	
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5	P _r		2.04	2,54	2,53	3.01	3,01					
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One copy to be filled in District Office (Work copy acceptable)

P/TZ

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 Σ^{17}

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LINE	ITEM	SOURCE	1	2	3	4	5	6	7	6	9	10
1	Н		12720	6360	′	0						
2	GH		9412.8			0						
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4	Pc or Pn		3953,0	3358,7	3350,5	2748.8	2704.1	2707.2		Pw= 27	16.8	
5	Pr		5.93	5,04			4.05					
6	T		661	597,5	597.5							
7	Tr		1.63	1,48	1.48		1.32					
8	Z		.888		.811	,	,656) ,				
9	P/ZP/Z	4÷8						4/20,5				

One copy to be filed in District Office (Work copy acceptable)

COMPAN	Setroleum	Develo	print Co	Pie Lu	Mc Ka	y Fed.	WELL NO	2		.DATE	5/13/Z	8
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	<i>720</i> н						-		•			
			.01823 om									
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LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	Н		12720	6360		0						
2	GH.		94128			0						
3	37.5GH		352980	176490		0						
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t	P _c or P _n		3411.3	2875.5	2872.6	2334.1	2299.4	2303,0	Pu	= 23/2	3	
5	Pr				4.31							
6	T			597.5	597.5	534	534	534				
7	Tr	}	1,63	1,48		1.32		1.32			ļ	
8	Z		1850	.784	1784	1633	,632	1632			<u> </u>	
9	P/ZP/Z	4÷8	4013,3	3667.8	3664,0	3687.4	3638,2	3644,0	·			
10	P/TZ	9÷6		6.1385	6,1322	6,9053	6.8131	6.8239				
11	(P/TZ) ² /1000											
12	L/H(F _t Q _m) ²											
13		11+12					,				<u> </u>	
14	I _n	10÷13	164,703	162,906	163.073	144,817	146,775	146,544				·
15	$M=P_n-P_{n-1}$			536	539	538	573	570				
16	$N=I_n+I_{n-1}$			327,609	327.776	307.890	309, 848	309617	·			
17	M×N	15 x 16			176 490			176358			43	
18	\(\sum_{\text{M}} \times N)	Σ^{17}		e or end of the second of	176490							

copy to be filed in District Office (Work copy ac

COMPAN Setrology Development Colis Lun McKay Fed WELL NO. 2 DATE 5/3/78	
LOCATION: Unit Section Township	
L 12720 H 12720 L/H 1.000 Gaz 740 % CO2 % N2 % H2S	
d 1.995 Fr .01893 0m Q 6.2 cfd (L/H) (FrQm)2 Q Pcr 465 Tcr 405	
TABLE IN & R TABLE IN & R	

LINE	ITEM	SOURCE		2	3	4	5	8	7	8	9	10
1	Н		12720	6360		0						
2	GH		9412.8			0						
3	37.5GH		352980			0						
,								-				
4	P _c or P _n		2807.4	2351.4	2354,2	1900.5	1879,0	18819		Pw=	1889	7
5	Pr		4.21	3,53	3,53	2.85	2,82	2,82				
6	T		661	597,5	597.5	534	534	534				
7	$T_{\mathbf{r}}$		1,63		1,48			11				
8	Z				.771							
9	P/Z P/Z	4÷8	3415,3									
10	P/TZ		5,1669									·
11	(P/TZ) ² /1000	(10) 2/1000		,	,							
12	L/H(F _r Q _m) ²											
13		11 + 12				4.						
14	l _n	10÷13	193,539	195,910	195,679	175.892	178.194	177.917				
15	M=Pn-Pn-1			456	453	454	475	472				
16	$N=I_n+I_{n-1}$		3					373.596				
17	MxN	15×16			176385			176464				
18	$\sum (M \times N)$	Σ17			176595			a form				

One copy to be filed in District Office (Work copy acceptable)

WORK SHEET FOR STEPWISE CALCULATION (SURFACE) PRESSURE (P. & P.)

COMPAN Setroleum Development Confi fun McKay Fed WELL NO. 2 DATE 5/3/78 L 12720 H 12720 L/H 1.000 Gaz . 740 % 002 _____ % N2 ____ % H28 _ d 1.995 Fr .01823 Qm Q 1.2cfd (L/H) (FrQm)2 Q Pcr 667 Tcr 405

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	Н		12720	6360		0						
2	ĠН.		94128		2	0						
3	37.5GH		352980			0						
1												
4	P _c or P _n		2004.2	1679,9	1686,1	1366.4	1362.9	1363,6		Pw=	1368,1	
5	Pr		3.00	2.52		2,05	2.04	2.04				
6	T		661	597.5	597.5	534	534	534				
7	Tr		1.63	1.48	1.48	1.32	1.32	1.32			-	-
8	Z		1825	795	1794	,681	,682	,682				
9	P/ZP/Z	4 ÷8	2429.3	2113,1	2123,6			1999.4				
10	P/TZ	9÷6						3.7442				
្ត	(P/TZ) ² /1000	(17) 2/1000						-				
12	L/H(F _r Q _m) ²	·				_						
13		11 + 12				·					·	
14	I _n	10÷13	272.091	282,766	281,365	266,135	267,206	267,082				
15	$M=P_n-P_{n-1}$			324	3/8	320	323	323				
16	$N=I_n+I_{n-1}$							548.447				
17	M×N	15×16			176044			176896				
18	$\sum (M \times N)$	∑ 17			176936							



PETROLEUM DEVELOPMENT CORPORATION

9720-B CANDELARIA, NE ALBUQUERQUE, NEW MEXICO 87112 TELEPHONE (505) 293-4044

May 19, 1978

Mr. Richard L. Stanmets New Mexico OII Conservation Commission PO Box 2088 State Land Office Building Santa Fe, New Mexico 87501

RE: Case 6225

Sun McKay Federal #2 G-Sec. 10, T19S, R32E Lea County, New Mexico

Dear Mr. Stanmets:

In reference to testimony given by Mr. J. C. Johnson concerning Case 6225, the following shows the gas oil ratio of the Sun McKay Federal #1 located on Unit F, Sec. 10, T19S, R32E; production commenced on February 9, 1978:

C-122, dated 1/14/78, GOR 23,383 cf/bb1.

<u>Month</u>	Oil	Gas	GOR
	BBLS.	MCF	cf/BBL.
2/78	1015	32310	31833
3/78	1021	39514	38701

AOF for the Sun McKay Federal #2 was run on 5/13/78 by El Paso Natural Gas Company and we are waiting the results of this test. However, from the field estimates, it appears the gas oil ratio will be approximately 36,500 cf per bbl.

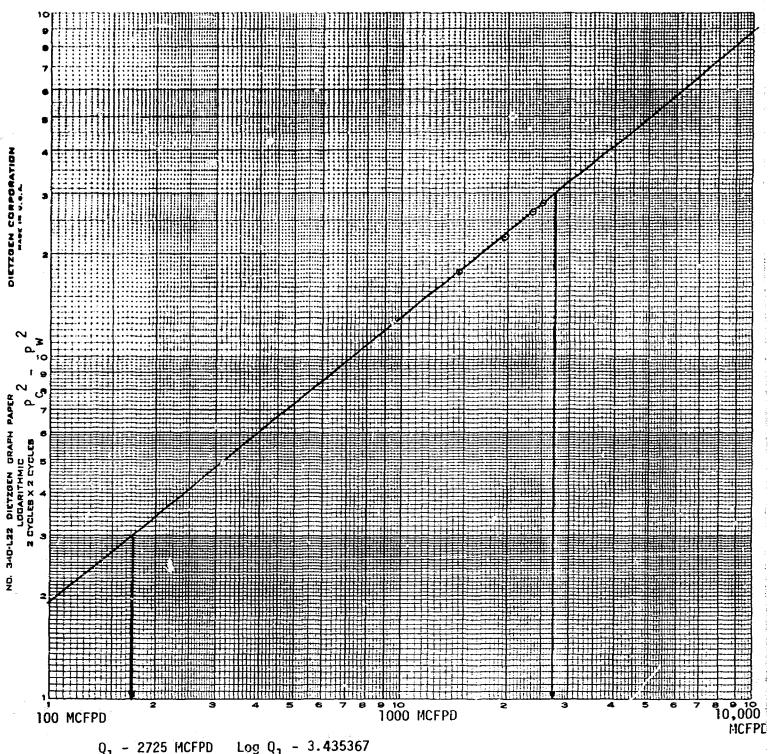
The testimony by Mr. Johnson concerning the possibility of a GOR in the range of 25,000 was made in reference to the GOR on the AOF test for the Sun McKay Federal #1 which was 23,383, and other wells west of these wells.

The C-122 will be forwarded to your attention upon receipt.

Sincerely,

President

JCJ/pb Encs.



 Q_1 - 2725 MCFPD Log Q_1 - 3.435367 Q_2 - 172 MCFPD Log Q_2 - 2.235528 1.199839

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1 75	Single		Minega .	-0.0. 61 0.0	, Mui	tipie	12615					- (LEA				
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5.	<u> </u>										1	i		1			
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Ю.	(24 Ho	our)				Pm			Ft,		Fg		(or, Fpv		Q, M	cíd
1	21.32			96.93		313			9777		1.232			29		2561	
2. 3.	21.32			90.240 75.08		<u>313</u> 313			9795 9813		1.232 1.232)29)29		<u>2389</u> 1991	
4	21.32			55.06		303			9905				1.030			1476	
5.																	
10.	Pt	Temp.	•A	T _r	2	.	Gas Li	quid Hyd	lrocarbon R	atto.		2	3383				_ Mcf/bbl.
1.	0.47	544	-	1.44). 94	$\frac{1}{5}$	A.P.I. (Gravity o	of Liquid H y Separator	lydroc	arbons 0.65	9			T ,, ,,		Deg.
	0.47	542		1.43). 94	4		-	/ Separator / Flowing				××××		* *	<u> </u>	xxxx
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4. 5.	0.45	530		1.40	0.94	ᅼᅱ	Critica:	Temper	ature						R		я
Э. Р _{с.}	5658.2	P _c 2 32	02	<u>x_10⁶ </u>	<u></u>						40					1 34	40
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Dockots Nos. 19-78 and 20-78 are tentatively set for hearing on June 7 and 21, 1978. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 17, 1978

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 6225:

Application of Petroleum Development Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Sun McKay Federal Well No. 2 located in Unit C of Section 10, Township 19 South, Range 32 East, Lea County, New Mexico, in such a manner as to produce oil from the Wolfcamp formation thru tubing and gas from the Morrow formation thru the casing tubing annulus by means of a cross-over assembly.

- CASE 6226: Application of Barber Oil, Inc. for a waterflood project, Eddy County, New Mexico. Applicant, in the above styled cause, seeks authority to institute a waterflood project on its Saladar Unit, by the injection of water into the Yates formation through five wells located in Units K, L, N and O of Section 33, Township 20 South, Range 28 East, Saladar-Yates Pool, Eddy County, New Mexico.
- CASE 6227: Application of Union Texas Petroleum for a non-standard proration unit, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks approval of a 209.5-acre non-standard gas proration unit comprising the W/2 of Section 7, Township 31 North, Range 9 West, Blanco Pictured Cliffs Pool, San Juan County, New Mexico, to be dedicated to a well drilled at a standard location thereon.
- CASE 6228: Application of Depco, Inc., for an unorthodox location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its R&S Federal Com Well No. 1 to be located 1980 feet from the South line and 990 feet from the West line of Section 17, Township 15 South, Range 28 East, Buffalo Valley-Pennsylvanian Gas Pool, Chaves County, New Mexico, the S/2 of said Section 17 to be dedicated to the well.
- CASE 6229: Application of Texas Oil & Gas Corporation for a unit agreement, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for its South Wilson State Unit Area comprising 3,200 acres, more or less, of State land in Township 21 South, Range 34 East, Lea County, New Mexico.
- CASE 6230: Application of Texas Oil & Gas Corporation for an unorthodox gas well location, Eddy County,
 New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location for
 its Duffield Fed. Com Well No. 1, a Wolfcamp-Pennsylvanian test to be located 1980 feet from the
 South line and 660 feet from the West line of Section 28, Township 16 South, Range 27 East, Eddy
 County, New Mexico, the S/2 of said Section 28 to be dedicated to the well.
- CASE 6215: (Continued from May 3, 1978, Examiner Hearing)

Application of Texas Oil & Gas Corporation for a non-standard unit and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 320-acre non-standard proration unit comprising the N/2 of Section 29, Township 20 South, Range 36 East, North Osudo-Morrow Gas Pool, Lea County, New Mexico, to be dedicated to a well to be located at an unorthodox location 660 feet from the North and West lines of said Section 29.

- CASE 6231: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its State "JM" Well No. 1, a Morrow test to be located 660 feet from the North and East lines of Section 25, Township 18 South, Range 24 East, Eddy County, New Mexico, the N/2 of said Section 25 to be dedicated to the well.
- CASE 6232: Application of Yates Petroleum Corporation for an unorthodox location, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Cities

 "JG" Well No. 1 to be located 660 feet from the South and East lines of Section 13, Township 18

 South, Range 24 East, Fordinkus Field, Eddy County, New Mexico, the E/2 of said Section 13 to
 be dedicated to the well.
- CASE 6233: Application of Amoco Production Company for salt water disposal, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Ojo Alamo formation through the perforated interval from 1175 feet to 1230 feet in its Cahn Gas Com Well No. 3 located in Unit F of Section 33, and from 1104 feet to 1122 feet in its Keys Gas Com "F" Well No. 1, located in Unit K of Section 27, all in Township 32 North, Range 10 West, Mt. Nebo-Fruitland Pool, San Juan County, New Mexico.

CASE 6214: (Continued from May 3, 1978, Examiner Hearing)

Application of Morris R. Antweil for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled at a point 660 feet from the North line and 1980 feet from the East line of Section 8, Township 12 South, Range 32 East, Lea County, New Mexico, the E/2 of said Section 8 to be dedicated to the well.

CASE 6213: (Continued & Readvertised)

Application of Morris R. Antweil for an unorthodox location and simultaneous dedication, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of his Rio Well No. 2, a Morrow test to be drilled at a point 660 feet from the North and West lines of Section 29, Township 18 South, Range 25 East, Eddy County, New Mexico, the N/2 of said Section 29 to be simultaneously dedicated to the aforesaid well and to applicant's Rio Well No. 1 located in Unit G of Section 29.

Care 6995



PETROLEUM DEVELOPMENT CORPORATION

9720-B CANDELARIA. NE **ALBUQUERQUE, NEW MEXICO 87112** TELEPHONE (505) 293-4044

April 24, 1978

Mr. Joe D. Ramey, Secretary-Director
New Mexico Oil Conservation Commission PO Box 2088 State Land Office Building Santa Fe, New Mexico 87501

RE: Dual Completion

Petroleum Development Corporation Sun McKay Federal #2 (Wolfcamp & Morrow) Section 10, T19S, R32E

Lea County, New Mexico

Dear Sir:

Petroleum Development Corporation hereby applies for public hearing to authorize dual completion of our Sun McKay Federal #2 in the Wolfcamp (oil) and Morrow (gas) zones. The two zones have not been potentialed as of this date.

The captioned well will be completed through one string of 2-3/8" /D EUE tubing, and casing annulus, using packers to separate the Wolfcamp and Morrow zones as shown in the diagrammatic sketch (Exhibit A). The nearest Morrow completion is approximately 1570' east in Section 10 and the nearest Wolfcamp oil well is approximately 7400' south-southwest. There are no similar dual completions in the

Attached are three copies of an Application for Multiple Completion (Form C-107) and exhibits called for by Form C-107 setting forth all material facts pertinent to this application.

We request that this application be placed on the docket for May 17, 1978.

Yours very truly,

J. C. Johnson President

JCJ/pb Encs.

Care 62.25 Form 0-107

NEW MEXICO OIL CONSERVATION COMMISSION SANTA FO, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

		8703	
Cretatei	DATION	County 77, 1314	Date 0.70
PETROLEUM DEVELOPMENT CORPO	KATIUN	Lease .	April 24, 1978
9720 B Candelaria, NE, Albu		Sun McKay Federal	2
Location Unit Section of Well G 10		19 South	Range 32 East
I. Has the New Mexico Oil Conservation	n Commission heretolore au		a well in these same pools or in the sam
zones within one mile of the subject		NO_X	· · · · · · · · · · · · · · · · · · ·
2. If answer is yes, identify one such in	stance: Order No.	; Operator Lease, an	d Well No.:
			·
. The following facts are submitted:	Upper	Intermediate	Lower
	Zone	Zone	Zone
a. Name of Pool and Formation	Wolfcamp	~ ~ ~ ~ ~	Morrow
b. Top and Bottom of	10514 -		12778 -
Pay Section	10557		13052
(Perforations)	0:1		
c. Type of production (Oil or Gas) d. Method of Production	011		Gas
(Flowing or Artificial Life)	Flow	·	Flow
. The following are attached. (Please of	L		1 100
Ves No	·		
c. Waivers consenting to tors have been furnis X d. Electrical log of the	hed copies of the application well or other acceptable louch log is not available at the control which this well is focated by the control of	from each offset operator, or in lie on.* g with tops and bottoms of produc he time application is filed it shal	ing zones and intervals of perforation in line submitted as provided by Rule 112-A.
	 		
			W
. A		a copy of this application? YES_	X NO . If answer is yes, give
date of such notification April	24, 1978	·	
CERTIFICATE: 1, the undersigned, s	erate that I am the Pros	ident of t	he PETROLEUM DEVELOPMENT COR
			is report; and that this report was prepared
nder my supervision and direction and th			
		_	
		and the second	
		J. C. Johnson	Clanding
en e			orginature
	od of twenty (20) days from	date of receipt by the Commission	ne New Mexico Oil Conservation Commis- n's Santa Fe office. If, after said twenty- then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one cumore of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

EXHIBIT "C"

Notification of Offset Operators, Application for Dual Completion.

The attached letter and a full copy of this application has been mailed to the following offset operators as evidenced by the attached Certified Mail receipts:

Sun Oil Company PO Box 2880 Dallas, TX 75221 Attn.: Ed Stine

Shell Oil Company PO Box 1509 Midland, TX 79701 Attn.: Bill Kouns

April 24, 1978

Care 6225

	SPECIAL DELIVERY (extra fee required) 5 Form 3800 NO HASURANCE COVERAGE PROVIDED
	OSCIACK ID VOORESSEE DALA
	SERVICES 2. Shows to whom, date and where delivered 554
	BECEILL MILL DELINETY TO SEATESSEE ONLY 654
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SERVICES

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dr/

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. 6225
Order No. R- 5736
APPLICATION OF PETROLEUM DEVELOPMENT CORPORATION
FOR A DUAL COMPLETION, LEA
COUNTY, NEW MEXICO.
ORDER OF THE DIVISION
BY THE DIVISION:
This cause came on for hearing at 9 o'clock a.m. on
May 17 , 19 78 , at Santa Fe, New Mexico, before
Examiner Richard L. Stamets
NOW, on this day of May , 19 78 , 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, Petroleum Development Corporation,
seeks authority to complete its Sun McKay Federal
Well No. 2 , located in Unit G of Section 10 , Town-
ship 19 South , Range 32 East , NMPM, Lea
County, New Mexico, as a dual Complified (conventional) to x(conventional) to x(conventional)
oil produce gasx from the Wolfcamp formation thru tubing and gas
from the Morrow formation through the casing-tubing annulus by
means of a cross-over assembly.

(3) That the Mirrow formation producing gas liquid ratio is very low, being less that 30,000 cubic feet of gas por barrel of condensate.

(4) (2) That the Commission has heretofore determined that the Commission has heretofore determined that the production of through the casing-tubing annulus is inefficient, requires an excessive amount of reservoir energy, and causes waste.

(5) (2) That the Commission has a long-established policy of prohibiting annulus is inefficient, in the absence of evidence disproving those determinations cited in Finding No. (4) above.

ratio gas wells through the annulus

(b) That the applicant in this case offered no evidence to disprove said determinations.

7. That the application should be direct

v3; That the mechanics of the proposeddualcompletion
are feasible and in accord with good conservation practices.
(4) That approval of the subject application will prevent
waste and protect correlative rights.
IT IS THEREFORE ORDERED:
(1) That the applicant Petroleum Development Corporation
is hereby action to complete its Sun McKay Federal
Well No. 2 , located in Unit G of Section 10 ,
Township 19 South , Range 32 East , NMPM, Lea
County, New Mexico, as a dual completion (conventional)
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to produce gas from the Wolfcamp formation through tubing and
gas from the Morrow formation through the casing tubing
annulus by means of a cross-over assembly is hereby denied.
PROVIDED HOWEVER, that the applicant shall complete, operate.
and produce said well in accordance with the provisions of Rule
112-A of the Division Rules and Regulations insofar as said rule
is not inconsistent with this order;
PROVIDED FURTHER, that the applicant shall take
tests upon completion and
annually thereafter during the Annual
Test Period for thePool.
(2) That jurisdiction of this cause is retained for the
entry of such further orders as the Division may deem necessary.
CONE at Santa Fe, New Mexico, on the day and year hereinabove
designated.
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