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Application Transcripts.

Small Exhibits

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1	BEFORE THE								
	NEW MEXICO OIL CONSERVATION COMMISSION								
2	CONFERENCE ROOM, STATE LAND OFFICE BUILDING								
	SANTA FE, NEW MEXICO								
3	February 28, 1973								
4	EXAMINER HEARING								
5	IN THE MATTER OF:								
6)								
	Application of Belco Petroleum Corporation) Case No. 4901 for a dual completion, Eddy County, New)								
7	Mexico.								
8)								
9	BEFORE: Elvis A. Utz								
10	Examiner								
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18	TRANSCRIPT OF HEARING								
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MR. UTZ: Call Case 4901. MR. CARR: Case 4901. Application of Beld Petroleum Corporation for a dual completion, Eddy County, New Mexico. MR. UTZ: Case 4901 was readvertised for purposes of correcting the application to change the dual completion from Strawn to Wolfcamp completion which then would be a Wolfcamp and a Morrow rather than a Strawm and a Morrow; is that correct? Are there any appearances in this case? Let the record show there were no appearances and no testimony offered. The case will be taken under advisement. The Hearing is adjourned.

STATE OF NEW MEXICO) ss COUNTY OF BERNALILLO) I, JANET RUSSELL, a Notary Public, in and for the County of Bernalillo, State of New Mexico do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability My Commission Expires: November 24, 1976 0 I do hereby certify that the foregoing is a complete record of the proceedings in the Emeriner honoring of Jaco No. 270 heard by me on 2728 Examiner New Mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. C. BOX 2088 - SANTA FE 87501

March 6, 1973

GOVERNOR
BRUCE KING
CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

Mr. Jason Kellahin Kellahin & Fox	Re: Case Orde		No.		4901 -4474	
Attorneys at Law Post Office Box 1769 Santa Pe, Esw Mexico		licant:		Corporation		
Dear Sir: Enclosed herewith are two copies	es of the		bove	-refa	renca	a

Commission order recently entered in the subject case.

A. L. PORTER, Jr. Secretary-Director

Very truly yours,

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 4901 Order No. R-4474

APPLICATION OF BELCO PETROLEUM CORPORATION FOR TWO DUAL COMPLETIONS, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on January 31, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this day of March, 1973, the Commission, a quorum being press. 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Belco Petroleum Corporation, seeks authority to complete its Union Mead Well No. 1, located in Unit H of Section 8, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from undesignated Strawn and Morrow gas pools through the casing tubing annulus and through tubing, respectively.
- (3) That the applicant further seeks authority to complete its Union Mead Com Well No. 2, located in Unit N of Section 4, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from undesignated Welfcamp and Morrow gas pools tough tubing and through the casing-tubing annulus, respectively, by means of a crossover assembly.
- (4) That the mechanics of the proposed dual completions are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will prevent waste and protect correlative rights.

Case No. 4901 Order No. R-4474

IT IS THEREFORE ORDERED:

- (1) That the applicant, Belco Petroleum Corporation, is hereby authorized to complete its Union Mead Well No. 1, located in Unit H of Section 8, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from undesignated Strawn and Morrow gas pools through the casing-tubing annulus and through tubing, respectively.
- (2) That the applicant is further authorized to complete its Union Mead Com Well No. 2, located in Unit N of Section 4, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from undesignated Wolfcamp and Morrow gas pools through tubing and through the casing-tubing annulus, respectively, by means of a crossover assembly.

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Shut-In Pressure Test Period for the Strawn, Wolfcamp, and Morrow gas pools.

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

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

A. L. PORTER, Jr., Member & Secretary

SEAL

Care 4801 Leud. 2-28.73 Rec. 3-1-73 Levi 3-1-73 Levil Beles permission to Qually Compléteits Canion Meade Com#2 W-14-2275 & per du le Gargion Under W. C + Morrow poolse.



seeks an administrative procedure for jection wells at orthodox and unorth and hearing. Applicant further seek the aforesaid Section 7 from the Are extension of the Loco Hills Pool to

ns without notice in of the NW/4 of the concurrent lands.

CASE 4913:

Cort. Cout Application of Lone Star Industries, Incompulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying the N/2 of Section 12, Township 30 North, Range 5 West, to be dedicated to a well to be drilled at a standard location to the Basin-Dakota Pool.

Also to be considered will be the costs c drilling said well, a charge for the risk involved, a provision or the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4901: (Continued and Readvertised)

Application of Belco Petroleum Corporation for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Union Mead Com Well No. 2 located in Unit N of Section 4, Township 22 South, Range 27 East, Eddy County, New Mexico, to produce gas from undesignated Wolfcamp and Morrow gas pools through the tubing and the casing-tubing annulus, respectively, by means of a crossover assembly.

CASE 4914:

Southeastern New Mexico nomenclature case calling for an order for the creation and extension of certain pools in Lea, Eddy and Roosevelt Counties, New Mexico.

(a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Burton Flat-Morrow Gas Pool. The discovery well is the Monsanto Company Burton Flat Deep Unit No. I located in Unit O of Section 3, Township 21 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 27 LAST, NMPM Section 3: Lots 9 through 16

(b) Create a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production and designated as the Lea-San Andres Pool. The discovery well is the Superior Oil Company Covernment "E" No. 2 located in Unit A of Section 25, Township 19 South, Range 34 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM Section 25: NE/4

O'L CONSERVATION COMMISSION P. O. DOX 2088 SANTA FE, NEW MEXICO 87501

February 1, 1973

Mr. Jason W. Kellahin Kellahin & Fox Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico

Re: Case No. 4901

Dear Mr. Kellahin:

As a result of Case No. 4901, Commission Order No. R-4474 is being entered approving the dual completion of the Belco Petreleum Corporation, Union Mead Well No. 1 in Unit H of Section 8, Township 22 South, Range 27 East, Eddy County, Mew Mexico, in such a manner as to produce gas from undesignated Strawn and undesignated Morrow gas pools through the casing-tubing annulus and through tubing, respectively. However, said order will not be issued until Case No. 4901 is readvertised and called at the February 28th Commission examiner hearing. The readvertisement is required to correct that portion of the original advertisement dealing with applicant's Union Mead Com Well No. 2.

The applicant is hereby authorized to proceed with the dual completion, connection, and sale of gas from its Union Mead Well No. 1 in accordance with Order No. R-4474 to be issued.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/RLS/ir

EXAMINER HEARING - WEDNESDAY - JANUARY 31, 1973

9 A.M. - OIL CONSERVATION COMMISSION 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 4897: Application of Coastal States Gas Producing Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Gonzales Federal 31 Well No. 1 located 660 feet from the South line and 760 feet from the East line of Section 31, Township 9 South, Range 33 East, Flying "M"-San Andres Pool, Lea County, New Mexico, said well being located nearer than 330 feet to another well capable of producing from the same pool.

CASE 4898: Application of Eastern Petroleum Company for salt water disposal, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Dakota formation in the open-hole interval from 1385 feet to 1446 feet in its Navajo Well No. 21 in Unit C of Section 3, Township 27 North, Range 17 West, Table Mesa-Dakota Pool, San Juan County, New Mexico.

CASE 4899: Application of Skelly Oil Company for pool creation and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Morrow gas pool for its well located in Unit P of Section 9, Township 24 South, Range 29 East, Eddy County, New Mexico. Applicant further seeks the promulgation of temporary special rules therefor, including a provision for 640-acre spacing

CASE 4900: Application of Skelly Oil Company for pool creation and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Fusselman gas pool for its well located in Unit H of Section 20, Township 25 South, Range 36 East, Lea County, New Mexico. Applicant further seeks the promulgation of temporary special rules therefor, including a provision for 640-acre spacing units.

> Application of Belco Petroleum Corporation for two dual completions, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Union Mead Well No. 1 located in Unit H of Section 8, and its Union Mead Com Well No. 2 located in Unit N of Section 4, both in Township 22 South, Range 27 East, Eddy County, New Mexico, to produce gas from undesignated Strawn and Morrow gas pools through the casing-tubing annulus and through tubing, respectively.

Application of Belco Petroleum Corporation for a dual completion, Eddy CASE 4902: County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its James Ranch Unit Well No. 3 located in Unit J of Section 1, Township 23 South, Range 30 East, Eddy County,

CASE 4901:

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

Belco Petroleum Cor	porati	on	Edd		Date	10-73	
Altress	E.T.E.F.F.T.		Lerse		Well		
2000 Wilco Building	Midla Secti	and, Texas	Unic	on Mead			
f Well H 8			22-S		Rang 27		
. Has the New Mexico Oil Con			ومهاتم تناها والماسو	d the multiple compl			vools ce in the sam
zones within one mile of the				_	etton or a wen	i in chese same i	OUTS OF THE THE SAIN
If answer is yes, identify one					euse and Wall	No •	
in this wer is yes, identify one	Such in	cuite order troi		, Operator Le	tase, and wen	110.:	
. The following facts are subm	itted:	Upper Zone		Intermed		l .	ower
a. Name of Pool and Fornati				Zone		 	Zone
b. Top and Bottom of	On	Straw	<u>n</u>	د		Mor	row
Pay Section		10,292' - 10	2171	14		11 1/21	11 1044
(Perforations)	1	10,292 - 10	,317	i ·		11,167'	- 11,184'
c. Type of production (Oil or	Gasl	Cac					•
d. Method of Production		Gas	· · · · · · · · · · · · · · · · · · ·			<u>u</u>	as
(Flowing or Artificial L	ift)	Flowing		1		Flow	ina
. The following are attached. (L			I I TOW	THE
	•						
Yes No	a						
		of the Multiple Comples and location there					
		depth, location and t					
b. Plat showing	the loca	tion of all wells on a	applicant's le	ease, all offset well	ls on offset le	ases, and the n	ames and addresse
		ses offsetting applica					
XX c. Waivers cons	enting to	such multiple completed copies of the ap-	letion from e plication.*	ach offset operator,	or in lieu ther	eof, evidence the	t said offset opera
		vell or other accepta	•	tops and vottoms o	f producing zo	ones and interva	ls of perforation in
dicated there	on. (If su	ch log is not availab	le at the time	application is filed	l it shall be si	ubmitted as provi	ided by Rule 112-A.
List all offset operators to t	he lease	on which this well is	log ed toge	ther with their corre	ct mailing add	ress.	
Union Oil Company	300 5	Security Natio	nal Rank	Railding Ros	well New	Mexico 88	201
On the Composity		ZEMILE) HULL	MAL MAIN	burruring, nos	mull, nea	DEATED BO	201
T. J. Sivley, Drav	wer GG	. Artesia. New	Mexico	88210			
Cities Service Oi	l Compa	any, Box 4906,	Midland	Texas 79701			·
Antweil Company,	Box 20:	10, Hobbs, New	Mexico	88240			
Delta Drilling Co	npany,	Box 866, Odes	sa, Texa:	79760			
Maybee Petroleum	Company	, Arp, Texas					
. Were all operators listed in	Item 5 ab	ove notified and furn	nished a copy	of this application	YES XX	NO If a	nswer is yes, give
date of such notification		10-73					
			,				
CERTIFICATE: I, the unde	rsigned, s	state that I am the	Distri	t Engineer	of the	Belco Petro	leum
Corporation	(co	mpany), and that I a	ım authorized	by said company to	make this repo	ort; and that this	report was prepare
nder my supervision and direct	ion and th	at the facts stated t	herein are tru	e, correct and comp	lete to the bes	t of my knowled₂	ge.
		*		List.	an	-	
			_				
			(Slenn Cope	Signo	nture	. 14일 기술한

*Should wrivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

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

	25 ှ	30	Cities Ser. J-Simpson	28	27	26
			J-Simpson	Cities Ser. 1.2 Cowley 21		
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114 A. L. W.	Corinne Grace 2-Gopogo	19	20	21	22	23
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BELCO PETROLEUM CORR

BELCO PETROLEUM CORPORATION UNION MEAD WELL NO. 1

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2 13% Junior Chinos See 10 316 1 Och of 300 Sx . Cur. Cres. -105/ "Intersegance Ser Ar 1815 & Care. 0/ 500 Sx C 74/3" Ser Ar Essait Curo. of 250 sx. Ton Or Car 2550' 700 OF LINES 8507. STERMA PEETE 10,282'-10,317' SUDING SCEEVE @ 11,028 Perunucur Ace @ 11,050' MOREON Presentions 11,167:184' Movem Pecrocarios 11,311:315' C 51/2" LINER @ 11,656" CHTO W/ 275 51 CAT

		1	BEFORE THE						
			NEW MEXICO OIL CONSERVATION COMMISSION						
		2	OIL CONSERVATION COMMISSION CONFERENCE ROOM STATE LAND OFFICE BUILDING						
		3	SANTA FE, NEW MEXICO						
		}	Wednesday, January 31, 1973						
		4	EXAMINER HEARING						
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E		7	IN THE MATTER OF:)						
2		8							
2			Application of Belco Petroleum)						
∞		9	Corporation for two dual) Case No. 4901 completions, Eddy County, New)						
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dearnley, meier & mc cormick		**							
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des	MEXICO 8	13	BEFORE: Richard L. Stamets						
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MR. CARR: Case 4901, Application of Belco Petroleum Corporation Completions, Eddy County, New Mexico. 3 MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa 19, New Mexico appearing for the applicant. We have one 5 witness I'd like to have sworn. EDWARD GLENN COPE 7 was called as a witness and after being duly sworn according Ś to law, testified as follows: 9 (Whereupon, a brief recess was held.) 10 MR. STAMETS: The hearing will come to order, please. 11 Mr. Kellahin, let's see, was the witness sworn? 12 MR. KELLAHIN: Yes, he is. 13 MR. STAMETS: You may proceed. 14 DIRECT EXAMINATION 15 BY MR. KELLAHIK 16 Would you state your name, please? Q 17 My name is Edward Glenn Cope. 18 By whom are you employed and what position, Mr. Cope? 19 I am employed as district engineer by Belco Petroleum 20 Corporation in Midland, Texas. 21 Have you ever testified before the Oil Conservation 22 Commission or one of its Examiners and made your 23 qualifications as a petroleum engineer a matter of 24

MR. STAMETS: Call next case 4301.

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record?

	1	A	Yes, I have.
	2	Q	Are you familiar with the application in Case 4901?
· ·	3	A	Yes, I am.
di A	4	δ	And does that come within your jurisdiction as petroleum
A. C.	,		engineer for Belco?
	6	À.	Yes. That's under my supervision.
	7		MR. KELLAHIN: Are the witness's qualifications
5000	8	accor	etable?
S III	9		MR. STAMETS: They are.
ië. Ser 8	10	Q	What in proposed by Belco Petroleum Corporation in case
E,	11		4901?
dearnley, meier & mc cormick	12	A	In Case 4501, permission to dually complete the Union
lear 	្ទី 13		Mead Well #1 in bhit H of Section 8, Township 22 South,
MEX	00 x 14		Range 27 East, Eddy County, New Mexico, in the Strawn and
ين ع س	변 조 전 15		Morrow formations.
U ERQU	2 3 16	Q	And you are also seeking to recomplete the Union Mead
7 m	17		Com Well No. 2; is that correct?
24 3- 66 9-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	18 - 18	A	That is correct.
ш 2	ա .i 10	Q	Referring to what has been marked applicants Exhibit No. 1
0.000 0.000 0.000	ō		would you discuss the information shown on that Exhibit?
	an .	A	Okay. Our Exhibit No. 1 is a New Mexico Oil Conservation
• •	7 21 × 22		Commission Form C-107 which is our application for
» د ت	- 85 - C		multiple completion for the Union Mead Well No. 1. This
SWM!8 900			give the two producing zones in the well, the depth of
Ä			the two producing zones, and the list of the office

dearnley, meier & mc cormick

209 SIMMS BLOG. • P.C. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE. NEW MIXICO 87103 12(6 first national bank blog. East • Albuquerque, new mexico 87108

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Q Now, referring to what has been marked as Exhibit No. 2, would you identify that Exhibit? 3 Okay. Exhibit No. 2 is a plat on the area surrounding A the Union Mead Well No. 1 and the Union Mead Com Well No. 2 and a two-mile radius showing the wells which may be relative to the subject wells which we are requesting dual completions. Q Does that show the producing formations of those wells? No, it does not. 10 Do you know the producing formations of the wells within 11 a two-mile radius? 12 Yes, I do. 13 What formations are they producing from? 14 The Tracey, the Union Oil Tracey No. 1 in Section 10 is a 15 Delaware completion which is a shallower zone. The Union 16 Oil of California, Forni No. 1 in Section 15 is a 17

operators.

the Corinne Grace Go Pogo No. 2 which is a Morrow completion. I think that, well, I cannot tell you the exact formation that the Randal No. 1 produces from.

Now, ***Exting to what has been marked as Exhibit No. 3, would you identify that Exhibit?

Wolfcamp completion; and I'm sure you are familiar with

Exhibit No. 3 has a well diagram of our Union Mead Well No. 1, illustrating the pertinent information regarding

this well as to the strings of casing set, the volumes

of cement used, the exact perforations, and our diagram

dearnley, meier & mc cormick

of the downhole equipment. Q Now, what kind of packer are you going to use to separate the two zones? The packer between the two zones is a permanent packer, б Α and it will stay in place. When we pull the tubing, we 7 cannot pull that packer. 8 Which zone will be produced from the tubing and which Q 9 from the annulus? 10 The tubing zone will be the Morrow Formation which is the 11 lower of the two producing formations. The annulus zone will be the Strawn formation. 13 Do either one of these zones make any volumes of fluids? 14 The Strawn does produce a certain amount of condensate 15 in our test of this zone. We tested through the 16 annulus to see if we should or should not run crossover 17 equipment to bring that zone through the tubing; and we 18 determined that it would be more feasible just to produce 19 this zone through the annulus. 20 You don't anticipate any trouble on account of fluids in 21 producing that zone through the annulus? 22 No. We do not at this time. 23 Now, referring to what has been marked as Exhibit No. 4, 24 would you identify that Exhibit? 25

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Q

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upper zone.

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dearnley, meier & mc cormick 1216 FIRST NATIONAL BANK 3LDG. EAST OALBUQUERQUE, NEW MEXICO 87103 1216 FIRST NATIONAL BANK 3LDG. EAST OALBUQUERQUE, NEW MEXICO 87108

Exhibit No. 4 is the New Mexico Oil Conservation
Commission Form C-122 which is a multipoint back-pressure
test for the Morrow zone and in our Union Mead Well No. 1
which shows the absolute open-flow potential of that
zone to be mine million twenty-two thousand.
What kind of pressures do you encounter in that zone?
Are you speaking of surface pressures?
Surface pressures, yes, sir. You don't have a bottomhole
pressure on the zones, do you?
Not
Do you have a calculated bottomholed pressure?
Yes. We do. Let me give the surface pressures. The
surface pressures are a matter of record in the form, of
course; but our surface pressures were flowing from
1949 pounds at the surface to 3039 pounds at the surface.
Now, do you have a calculated bottomhole pressure?
Our calculated bottomhole pressure is 4792.2.
And that's on the Morrow?
That's correct.
Now, referring to what has been marked as Exhibit No. 5,
would you identify that Exhibit, please?
Exhibit No. 5 is the New Mexico Oil Conservation
Commission Form C-122, multipoint back-pressure test for

the Strawn zone in the Union Mead Well No. 1 which is the

dearnley, meier & mc cormick

Q

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200 SIMMS BLDG. + P.O. BOX 1092 + PHONE 24%-6691 + ALBUQUERQUE, NEW MEXICO 87103 1216 First national bank isldg. East + Albuquerque, New Mexico 87108

Well, you'll notice that the flowing tubing pressures
range from 3,126 pounds at the surface to 3,366 pounds
at the surface.
Do you have a calculated bottomhole pressure on a
Strawn?
Four thousand seven hundred and forty-four pounds.
So as between the two zones, there is not a great
differential in pressures, is there?
No. There is not a great deal of difference at all.
You'll note that these bottomhole pressures were, of
the Strom, were measured pressures, not calcalted.
They were measured pressures. Well, with the type of
completion and the packer you are utilizing, in your
opinion, wili you get effective separation between the
Strawn and the Morrow in this well bore?
Yes, we will.
And there will be no damage, danger of packer leakage in
your opinion?
No.
Have you made a packer leakage test?
Not our formal packer leakage test. We produced the
Strawn zone extensively to determine that we did not need
to run a second strand tubing or anything like that, you
know, to produce this zone through the annulus, and we

What kind of pressures do you have in that well?

dearnley, meier & mc cormick

) SIMMS BLDG. - P.O. BOX 1092 - PHONE Z43-6691 - ALBUQUERQUE, NEW MEXICO 87103 1216 FIRST NATIONAL BANK BLDG. EAST - ALBUQUERQUE, NEW MEXICO 87108

I see. Now, referring to what has been marked as Exhibit
No. 6, would you identify that Exhibit?

A Exhibit No. 6 has a well diagram for the Belco Petroleum

showed no communication at that time.

Exhibit No. 6 has a well diagram for the Belco Petroleum Corporation Union Mead Com No. 2. This is a slightly different bottomhole assembly due to the fact that the Morrow zone in this well is not a very strong zone, tested at the rate of approximately three hundred thousand cubic feet of gas per day. It's dry gas, and we wish to run a notice of crossover assembly to put the low zone into the annulus, as is illustrated by the arrows from the higher Morrow perforations through our tubing to the crossover tool and then through the minulus. And we wish to bring the production from the Wolfcamp zone which is a very rich gas condensate through the tubing through the use of the crossover tool.

Will you want to use the crossover assembly than because

Will you want to use the crossover assembly then because of the fluids produced from the Wolfcamp; is that correct?

A That's correct.

Q And is that a more efficient way to handle the fluids?

Yes. Our tests of the two zones in this well would indicate that this would be more applicable than bringing the Wolfcamp production to this surface through the annulus due to the large volume of condensate which

dearnley, meier & mc cormick

A

MS BLDG. P.O. BOX 1092. PHC NE 243-6681 • ALBUQUERQUE. NEW MEXICO 87103 5 first national bank bld3. East • Albuquerque, new mexico 87108 this zone makes.

Now, referring to what has been marked as Exhibit No. 7, would you identify that Exhibit?

Exhibit No. 7 is the New Mexico Oil Conservation

Commission Form C-107 which is an application for

multiple completion for the Union Mead Com Well No. 2

and Unit N of Section 4, Township 22 South, Range twentyseven East, Eddy County, New Mexico. This form gives

the producing zones in the Union Mead No. 2 as the

Wolfcamp and the Morrow zones and a history of the

effect operators.

Now, the application before the Commission is for a dual completion in the Morrow and Strawn for the Comwell No. 2. You did not complete in the Strawn; is that correct?

position on the docket, we anticipated completing the well in the Morrow and the Strawn which were productive in the Union Mead No. 1, the effective well. The Strawn zone proved to be non-productive in the Union Mead No. 2. It was dense and not capable of production; and consequently, we tested the Wolfcamp zone. It was productive, so we wish to amend our application to dually complete the well in the Morrow and the Wolfcamp well instead of the Morrow in the Strawn zone.

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MR. KELLAHIN: If the Examiner please, we would request that the case be readvertised to include dual completion as it wasn't proposed.

MR. STAMETS: Okay, this ==

MR. KELLAHIN: That applies only to the Union Mead Com Well No. 2.

MR. STAMETS: Right. I would assume that the entire case would have to be readvertised and the whole order held up until the hearing can be held on the readvertisment.

MR. KELLAHIN: We would like to get the order on the Union Mead Well No. 1, if possible, since there is no bason to readvertise it.

MR. STAMETS: We will see if we can't get the first half of this out.

MR. KELLAHIN: We would appreciate it.

- (Whereupon, a discussion was held off the record.)
- Mr. Cope, ao you have any pressure information on the Union Mead Com Well No. 2?
- Not at this time, Mr. Kellanin.
- Would you anticipate that the pressures in the Morrow zone would be substantially the same as in your No. 1 well?
- Yes. The only pressure information that I have for the Union Mead No. 2 is from a drill stem test which we took in the Morrow zone which I can make that of record

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209 SIMMS BLDG.+ P.O. BOX 1092+PHONE 243-6601+ALBUQUERQUE, NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLDG. FAST•ALBUQUERQUE, NEW MEXICO 37108	

should you so desire.

Q Is that shown on the log?

A Yes. It is. That's part of your exhibit.

Referring to Exhibit No. 8, is that the log on the Union Mead Com Well No. 2?

A Yes, I believe it is.

Q

MR. STAMETS: I don't have a copy of that.

Mr. Cope, on the Com No. 2 well, is the pressure information that is available to you shown on that Exhibit?

No, sir. It is not. At this time, we realize that we can obtain an allowable for this well. Our objective is to obtain approval for our dual completion, and then we must, you know, file our multipoint back-pressure test for the two zones which will present all of our pressure information even before we can get an allowable, and this will be forthcoming as soon as we can obtain this data. You are familiar that in the Wolfcamp zone and also in the Morrow zone that, if we just take a test of short duration, we sometimes obtain unreliable information; and rather than present any unreliable data, I elected to not present any information at this time. And after we have time to run more extensive tests, then we could submit this in a normal manner.

Would you anticipate that there would be a substantial

dearnley, meier & mc cormick 1210 SIMMS BLDG. P.D. BOX 1092. PHONE 243-6601 ALBUQUERQUE, NEW MEXICO 87103 1216 FIRST NATIONAL BANK PLDG. EAST ALBUQUERQUE, NEW MEXICO 87108

_		
1		difference in pressure between the Wolfcamp and the
2		Morrow?
3	A	The Wolfcamp has a much higher pressure quadrant than the
4		Morrow does. However, it's encountered at a shallower
5		depth. Consequently, I think that the pressures will be
6		somewhat close to each other, not
7	Q	Now, with the type of completion you are proposing with
8		the crossover packer assembly, in your opinion will you
9		get effective separation between Wolfcamp and the Morrow?
10	A	Yes, we will.
11	Q	And you did, of course, not run a packer leakage test on
12		this well yet, either?
13	A	No. At this time, we have run tests on each of the zones
14		which we can tell whether we have communication or not,
15		if you have no influence on your opposite zone when you
16		produce either of the zones. So we know that we have
17		no isolation.
18	Q	And you have produced Com Well No. 2, have you?
19	A	For a short period of time, yes, sir.
20	Q	From what zone?
21	A	From the Morrow zone and also from the
22	Q	Strawn?
23	A	from the Wolfcamp.
24	Q	Wolfcamp?
25	A	Yes, sir.

1 Q

		2	supervision?
		3	A Yes, sir. They were.
		4	MR. KELLAHIN: At this time, I'd like to offer into
		5	evidence Exhibits 1 through 9 inclusive.
	~	6	MR. STAMETS: Without objection, Exhibits 1 through
	mic	7	9 will be admitted into evidence.
	100 à	8	MR. PORTER: Mr. Stamets, I have a question.
	Jearnley, meier & mc cormick	9	CROSS EXAMINATION
~		10	BY MR. PORTER
	, me	11	Q Mr. Kellahin was questioning as to the similarity of the
	nle)	12	pressures, I think, in the Morrow zone in the two wells.
	dear	13	Mr. Cope, how far apart are the two wells roughly?
		MEXICO 97108	A Mr. Porter, the two wells are diagonal office.
		_{ม่ เ} งื่ 15	Q They are?
		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A They are approximately a half-mile apart.
٠		วัน ชาชา ชาชา 17	Q I see. So are you sure that they are perforated in the
		18 18 18	same zones, in the same stringers?
	٠,	BLDG. EAS	A In the Morrow zone, I can testify that they are not
		10002 ANA ANA BNA BNA BNA	perforated in the common string the stringer that is
•		x m 0 J m 4 21	productive in the Union Mead No. not productive in
		. ₹. 22	the Union Mead No. 2, and the stringers that were
-	;	BLD TRST	completed in the Morrow and the Union Mead No. 2 are in
		209 SIMMS 1216 F	the middle Morrow.
	. '	. 2.	So you are not dealing with a homogenous reservoir here

Were Exhibits 1 through 9 prepared by you or under your

	1		when you are talking about the Morrow?
	2	A	Yes, sir. That is correct.
	3	Q	So you could expect some differential in pressures in the
	4		two wells from the same zone?
	5	A	It's, in fact, it may be probable that there would be a
بج	6		slight difference in those pressures.
THIC THIC	7	Q	I would think so.
000	8		MR. PORTER: That's all I have.
Ĕ	9		CROSS EXAMINATION
ier 8	10	BY MR.	STAMETS
learnley meier & mc cormick	11	Q	Mr. Cope, have you made any studies to de mine whether
	12		or not these wells are connected with the South Carlsbad
dear	13		pools to the south?
N N N N N N N N N N N N N N N N N N N	14	A	Yes, we have. I would prefer not to become involved in
Z Z ₹ . ¥ Z	15		this area, if possible: but the zone which is productive
9 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	16		in the Union Mead No. 1 is not productive in the South
A A B C C C C C C C C C C C C C C C C C	17		Carlsbad Field that I know of.
243-66914 Asteal	18	Ω	How about the No. 2?
ONE SG. E.	19	A	If you are familiar with the stratigraphic nature of the
- 1092 • PH	20	i I	Morrow formation, I would not be able to testify that
. D	21		they were or were not. I don't believe that the zones
6 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	22		are continuous through the area. As you can see, direct
SIMMS BLDG	23		offsets here are not productive in the same intervals.
209 SIMM	24	Q	Looks like it is about a two-mile interval between the
٠ ٧	25		two reservoirs at the present time.

25

YF. 3. A How about the two city service wells in Section 13 on Q your Exhibit No. 2? Are those deep wells, shallow wells? Mr. Stamets, I am not aware of what depth these wells were drilled to. Okay. MR. PORTER: Mr. Stamets, are the City Service wells 7 in the South Carlsbad part? MR. STAMETS: They will be in the northern margin of 9 the field offsetting this No. 2 Go Pogo. 10 MR. PORTER: You say they were dry holes? 11 THE WITNESS: Yes. They are marked as dry holes. 12 MR. PORTER: I see. 13 (By Mr. Stamets) I made some rough calculations, Mr. 14 Cope, on the liquid production in the Strawn in the No. 1 15 Union Mead; and if I've calculated right, there is about 16 thirty barrels per million cubic feet. This seemed like 17 a pretty good amount of inquids to get up a case of 18 tubing annulus. 19 That is correct, approximately thirty barrels per 20 million, I think, in round figures; and this is the 21 reason we tested this zone through the annulus to 22 determine that, you know, it didn't load up and we would 23 not need a second string of tubing. 24

You had no indication of any loading up in the hole,

dearnley, meier & mc cormick

	ì		
•	3	Q	Would you anticipate that sometime in the future you
	4		would need to get in there and install crossover
	5		equipment?
	6	A	We anticipated that as we produced the well, the gas
	7		liquid ratio would decline and that we would probably
	8		not need to alter our downhole equipment in the future.
•	9	Q	Did you anticipate that the liquids will drop up in
	10		relationship to the volume of gas?
•	11	A	Yes. If you are familiar with the Strawn and the
103	12	•	Wolfcamp zone in that area, you'll see examples of this.
87108	13	Q	Now, referring to the Union Mead Com No. 2, you have
NEW MEXICO 87103 MEXICO 87108	14		tested the Wolfcamp zone?
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	15	A	Yes, sir, we have.
0 K	16	Q	And this does make large volumes of liquids?
• A L BU BUΩUB.	17	A	Yes. It does. Our gas-liquid ratio is between
243-6691	18		seventy-one hundred to seventy-two hundred cubic feet
0 0 N	19		per barrel.
:092 • PN	20	Q	Seventy-one hundred to seventy-two hundred cubic feet
P.O. BOX	21		per barrel?
ξÈ	22	A	That is correct. It's a very rich condensate.
MS BLD. 6 FIRST	23	Q (2)	How soon do you anticipate the multipoint test to be
209 STMMS	24		ready for filing on these two cones?
	25	A	I would anticipate that within the following week we will have these tests completed.
			have enese heats completed.

No. This appears to be a good zone.

whatsoever?

I'm going to ask that you submit one copy of those to

the Examiner for the record in this case.

dearnley, meier & mc cormick

Q

3	A Yes, sir. We'll be glad to do this.
4	Q Having produced the two zones, you do not anticipate any
5	problem whatsoever with the installation that you have
6	in there now?
7	A No, sir. We do not.
8	MR. STAMETS: Argany other questions of this
9	witness?
10	At the present time, these are just undesignated
11	pools? There has been no pool established?
12	THE WITNESS: You are correct. That is right.
13	MR. STAMETS: The witness may be excused. Mr.
14	Kellahin, do you have anything further to offer in this case?
15	MR. KELLAHIN: That's all we have in this case, Mr.
16	Stamets.
17	MR. STAMETS: We'll take the case under advisement,
18	and the second half of the case will be readvertised.
19	
20	
21	
22	
23	
24	
25	

dearnley, meier & mc cormick

STATE OF NEW MEXICO)
) s:
COUNTY OF BERNALILLO)

I, JANET RUSSELL, a Notary Public, in and for the County of Bernalillo, State of New Mexico do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

NOTARY PUBLIC

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a complete record of the proceedings in the Examiner hearing of Case No. 4901 neard by mo on familiary 31. 19.73.

New Mexico Oil Conservation Commission

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1	INDEX	-	
2	WITNESS		
3	EDWARD GLENN COPE		
4	Direct Examination by Mr. Kellahir	1	3
5	Cross Examination by Mr. Porter		14
G	Cross Examination by Mr. Stamets		15
7			
8	EXHIBITS	<u>5</u>	
9		ADMITTED	OFFERED
10	Exhibit No. 1 - NMOCC Form C-107	14	14
11	Exhibit No. 2 - Plat	14	14
12	Exhibit No. 3 - Well diagram	14	14
13	Exhibit No. 4 - Form C-122	14	14
14	Exhibit No. 5 - Form C-122	14	14
15	Exhibit No. 6 - Well diagram	14	14
16	Exhibit No. 7 - Form C-107	14	14
17	Exhibit No. 8 - Log	14	1.4
18	Exhibit No. 9 -	14	14
19			
20			
21			
22			4.
23			•
24			
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dearnley, meier & mc cormick 209 SIMMS BLDG. # P.O. BOX 1092 #PHONE 243-8691 #ALBUQUERQUE, NEW MEXICO 87103 1216 FIRST NATIONAL BANK BLDG. EAST #ALBUQUERQUE, NEW MEXICO 87108

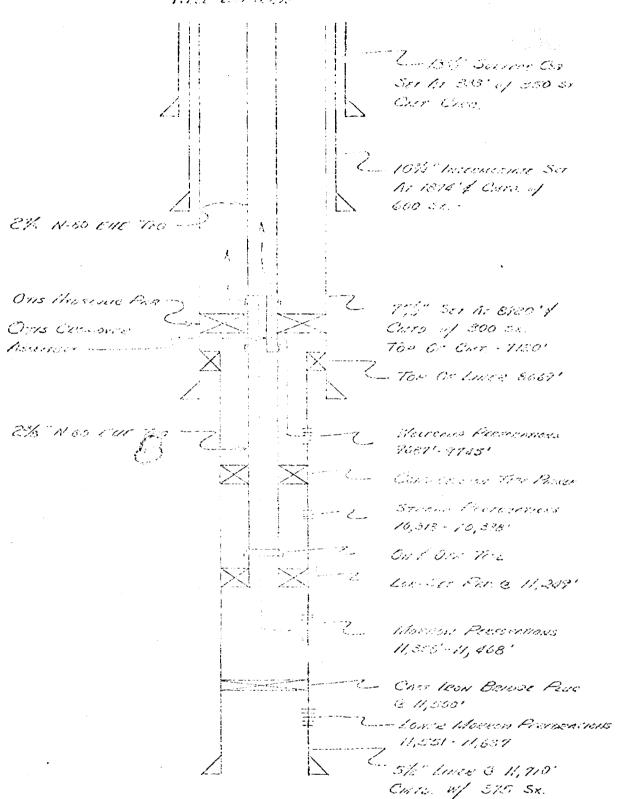
NEW MEXICO OIL CONSERVATION COMMSSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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

Type	Test	Initial			Annual			Speci	al	Test Date	2	<u> </u>		
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NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

ferator			County		Date	
Belco Petroleu	Corporation	1	Eddy			10-73
dirss	11 W: 11	. J. T	Lease	- Maril Com	Well 5:	io,
2000 Wilco Buil	aing, Midiar		Township	n Mead Com	2 Range	
of Well N	4		22-S		27-	
		ommission heretof		ne multiple completic		in these same pools or in the same
zones within one mile				are materpre compresse)	in these same poors of in the same
. If answer is yes, ident				: Operator Lease	and Well ?	No.:
, , , , , , , , , , , , , , , , , , , ,				en desperie		
. The following facts at	submitted:	Para				
. The following facts at	e submitted.	Upper Zone		Intermediate Zone	;	Lower Zone
a. Name of Pool and I	ormation	Wolfcan	n >>			
b. Top and Bottom of		MOTICAL	192	;*		Morrow
Pay Section				• •		
(Perforations)	1	9687' to 974	151			11,352' to 11,468'
c. Type of production	(Oil or Gas)	Gas				gas
d. Method of Production						
(Flowing or Attif	icial Lift)	Flowing	g			Flowing
	ched. (Please che	ck YES or NO)				
Yes No XX a. Diagra izers a diamet XX b. Plat s	ind/or turbolizers ers and setting de howing the location	and location there pth, location and to on of all wells on a	of, quantities u type of packets a applicant's leas	sed and top of cemen and side door chokes,	it, perforated and such oth	meters and setting depths, central lintervals, tubing strings, including mer information as may be pertinent uses, and the names and addresses
a. Diagra izers a diamet XX b. Plat s of oper XX c. Waiver tots ha d. Electric	and/or turbolizers ers and setting de hewing the location ators of all leasers consenting to save been furnished the location of the west thereon. (If such ors to the lease on any, 300 Section, Inc., Drain, and setting turbolizers to the lease on the lease of the l	and location there pth, location and to on of all wells on a soffsetting application and the soffsetting application of the app	of, quantities utype of packers applicant's lease. lettion from each plication. able log with to the at the time all lease all	sed and top of cemen and side door chokes, e, all offset wells of offset operator, or it ps and bottoms of proplication is filed it er with their correct rading, Roswell s. 79701	nt, perforated and such other of set lead in lieu there oducing zor shall be sultailing addr. New Me	l intervals, tubing strings, includer information as may be pertinences, and the names and address of, evidence that said offset openies and intervals of perforation bmitted as provided by Rule 112-ess.
Yes No XX a. Diagra izers a diamet XX b. Plat s of open XX c. Waiver tors ha d. Electri dicate List all offset operate Union Oil Compa Pennzoil Unite David J. Soren:	and/or turbolizers ers and setting de hewing the location ators of all leasers seems consenting to some been furnished thereon. (If such ors to the lease on any, 300 Section 1, Inc., Drawson, J. P. Words on 1-1	and location there pth, location and to of all wells on a soffsetting application and the soffsetting application of the applic	of, quantities utype of packers; applicant's lease. Idetion from each plication.* able log with to ble at the time all Bank Buildland, Texal Roswell, all Roswel	sed and top of cemen and side door chokes, e, all offset wells of offset operator, or it ps and bottoms of proplication is filed it er with their correct relding, Roswell S. 79701 New Mexico & this application?	n lieu thered and such other offset learn lieu thered and sucing zero shall be sufficiently. New Medical Section 1. New Medical Section 1	I intervals, tubing strings, including information as may be pertinent ases, and the names and addressed of, evidence that said offset open the said intervals of perforation is bounded as provided by Rule 112-40 ess. exico 88201
Yes No XX	and/or turbolizers ers and setting de hewing the location ators of all leasers seems consenting to some been furnished thereon. (If such ors to the lease on any, 300 Section 1, Inc., Drawson, J. P. Words on 1-1	and location there pth, location and to of all wells on a soffsetting application and the soffsetting application of the applic	of, quantities utype of packers; applicant's lease. Idetion from each plication.* able log with to ble at the time all Bank Buildland, Texal Roswell, all Roswel	sed and top of cemen and side door chokes, e, all offset wells of offset operator, or it ps and bottoms of proplication is filed it er with their correct relding, Roswell S. 79701 New Mexico & this application?	n lieu thered and such other offset learn lieu thered and sucing zero shall be sufficiently. New Medical Section 1. New Medical Section 1	I intervals, tubing strings, including information as may be pertinent ases, and the names and addresse of, evidence that said offset operations and intervals of perforation is bmitted as provided by Rule 112-Access.
Yes No XX	and/or turbolizers ers and setting de hewing the location ators of all leasers seems consenting to some been furnished thereon. (If such ors to the lease on any, 300 Second, Inc., Drawson, J. P. Words on 1-1 e undersigned, sta (come	and location there pth, location and to of all wells on a soffsetting application and the soffsetting application of the applic	of, quantities utype of packers; applicant's lease. Idetion from each plication.* able log with to olde at the time all Bank Buildland, Texal Roswell, all Bank Buildland, all	sed and top of cemen and side door chokes, e, all offset wells of offset operator, or it ps and bottoms of proplication is filed it er with their correct relding, Roswell S. 79701 New Mexico & this application?	of the	I intervals, tubing strings, including information as may be pertinent ases, and the names and addresses of, evidence that said offset open as and intervals of perforation is bmitted as provided by Rule 112-A ess. exico 88201 NO If answer is yes, given the said offset open and intervals of perforation is bmitted as provided by Rule 112-A ess. exico 88201

Glenn Cope *Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office the application will then be processed.

Signature

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

Boles Peter Corp.

James Rauch Unit Weet #3

Joseph Just comp

Joseph dual comp

Jas from Stranow

Mosson

Parallel tubuic

Union mead #1

H 8-225-27E EDDy

pk 11050 Strawn ag

morrow tog

Union Mead Com #2

N 4 22 27 Eddy

Strain

Morrow