CARR 2135: Application of KL PASO for an oll-oil dual of its LUSK BEEP UNIT WELL NO. 1.

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### DOCKET: EXAMINER HEARING, WEDNESDAY, NOVEMBER 30, 1960

### Oil Conservation Commission - 9 a.m., STATE LAND OFFICE BUILDING, Santa Fe, N.M.

The following cases will be heard before Daniel S. Nutter, Examiner, or Oliver E. Payne, attorney, as alternate examiner:

CASE 2125:

Application of El Paso Natural Gas Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Lusk Deep Unit Well No. 1, located in Unit A, Section 19, Township 19 South, Range 32 East, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Bone Springs pool and the production of oil from an undesignated Pennsylvanian pool through parallel strings of tubing.

CASE 2126:

Application of Tidal Oil Company for an unorthodox gas well location. Applicant in the above-styled cause, seeks approval of an unorthodox gas well location in an undesignated Pictured Cliffs pool at a point 1150 feet from the South line and 2040 feet from the West line of Section 21, Township 24 North, Range 1 West, Rio Arriba County, New Mexico.

CASE 2127:

Application of Sinclair Oil & Gas Company for permission to commingle the production from two separate pools and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to commingle the production from the Dean Devonian and Dean Permo-Pennsylvanian Pools from all wells presently completed or hereafter drilled on its State Lea 396 Lease consisting of the NE/4, S/2 NW/4, and N/2 SW/4 of Section 35, Township 15 South, Range 36 East, Lea County, New Mexico, after separately metering only the production from the Dean Permo-Pennsylvanian Pool. Applicant further seeks permission to install an automatic custody transfer system to handle said commingled production.

CASE 2128:

Application of Sinclair Oil & Gas Company for permission to commingle the production from two separate pools and for an automatic custody transfer system. Applicant, in the abovestyled cause, seeks permission to commingle the production from the Denton-Devonian and Denton-Wolfcamp Pools from all wells presently completed or hereafter drilled on its T. D. Pope Lease, consisting of the W/2 of Section 36, Township 14 South, Range 37 East, Lea County, New Mexico after separately metering only the Denton-Wolfcamp production. Applicant further seeks permission to install an automatic custody transfer system to handle said commingled production.

-2-Docket No. 35-60

### CASE 2129:

Application of Sinclair Oil & Gas Company for permission to commingle the production from two separate pools from two separate leases and for an automatic custody transfer system Applicant, in the above-styled cause, seeks permission to commingle, after separate measurement, the production from the Denton-Devonian and Denton-Wolfcamp Pools from all wells presently completed or hereafter drilled on the following-described leases:

Whitman "A" Lease, NE/4 of Section 26 Whitman "B" Lease, E/2 of Section 23,

both in Township 14 South, Range 37 East, Lea County, New Mexico, and for permission to install an automatic custody transfer system to handle said commingled production.

### CASE 2130:

Application of Redfern and Herd, Inc., for an order force-pooling a standard 320-acre gas proration unit in the Basin-Dakota Pool. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Dakota Producing Interval in the W/2 of Section 29, Township 29 North, Range 11 West, Basin-Dakota Pool, San Juan County, New Mexico. The following are among the interested parties:

Aztec Oil & Gas Company, Summit Oil Company, Ruth Schrecht, Edwin A. Schrecht, Ella Blaise, and Sam Carson.

### CASE 2131:

Application of Robinson Brothers Oil Producers for the creation of a new gas pool and for the promulgation of special rules and regulations therefor. Applicant, in the above-styled cause, seeks the creation of a new gas pool for Pennsylvanian production consisting of the N/2 of Section 22, Township 11 South, Range 31 East, Chaves County, New Mexico. Applicant further seeks the promulgation of special rules and regulations governing said pool including a provision for 320-acre gas provation units.

### CASE 2132:

Application of Humble Oil & Refining Company for permission to commingle the production from several pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the following pools underlying the State "V" Lease consisting of the SW/4, W/2 SE/4, and NE/4 SE/4 of Section 10, Township 21 South, Range 37 East, Lea County, New Mexico: Blinebry Oil Pool, Brunson Pool, Drinkard Pool, Hare Pool, Tubb Oil Pool, Wantz Abo Pool, Blinebry Gas Pool and Tubb Gas Pool, with allocation to the various pools being based on monthly well tests except that separate metering and separation facilities would be used for oil well and gas well completions.

-3-Docket No. 35-60

CASE 2133:

Application of Humble Oil & Refining Company for an automatic custody transfer system and for an exception to Rule 309 (a). Applicant, in the above-styled cause, seeks permission to install an automatic custody transfer system to handle the Gallup production from an undesignated Gallup pool from all wells presently completed or hereafter drilled on its Navajo "L" Lease consisting of all or portions of Sections 25, 26, 35 and 36; Township 29 North, Range 14 West, San Juan County, New Mexico.

CASE 2134:

Application of Nearburg & Ingram for a dual completion, for permission to commingle the production from two separate pools, and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Midhurst Well No. 1, located in the NW/4 NW/4 of Section 35, Township 12 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Pennsylvanian Pool and the production of oil from the Southwest Gladiola-Devonian Pool through parallel strings of tubing. Applicant further seeks permission to commingle the production from said two common sources of supply from all wells on its Midhurst Lease consisting of the NW/4 of said Section 35 and for permission to install an automatic custody transfer system to handle said commingled production.

CASE 2135:

Application of Nearburg & Ingram for an order creating a new oil pool and for the promulgation of temporary special rules and regulations therefor. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Pennsylvanian production consisting of the NW/4 of Section 35, Township 12 South, Range 37 East, Lea County, New Mexico. Applicant further seeks the promulgation of temporary special rules and regulations governing said pool including a provision for 80-acre proration units.

### SETH, MONTGOMERY, FEDERICI & ANDREWS

J. O. SETH
A. K. MONTGOMERY
OLIVER SETH
WM. FEDERICI
FRANK ANDREWS
FRED C. HANNAHS
GEORGE A. GRAHAM, JR.

ATTORNEYS AND COUNSELORS AT LAW
301 DON GASPAR AVENUE
SANTA FE, NEW MEXICO

POST OFFICE BOX 828 TELEPHONE YU 3-7315

November 29, 1960

New Mexico Oil Conservation Commission Post Office Box 871 Santa Fe, Mexico

Re: Case No. 2125

Application of El Paso Natural Gas Co.

Gentlemen:

This letter will constitute our entry of appearance as local counsel of applicant, El Paso Natural Gas Company, in the above case no. 2125.

We will be associated in this proceeding with Mr. Ben Howell, Mr. Garrett C. Whitworth and other company attorneys of the applicant.

Very truly yours,

Mein Seth

OS:dd

October 18, 1960

New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Re: Lusk Deep Unit #1 A-19-19-32

### Gentlemen:

Attached is an application for a dual completion on the above captioned well. All offset acreage is dedicated to the Lusk Deep Unit, of which El Paso Natural Gas Company is the operator. It is requested that this application be set for a hearing as soon as possible.

If any additional information is needed, please advise.

Very truly yours,

G. A. HICKSON
Proration Department

GAH:mm attachment

Docket Mailed

### HEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

### APPLICATION FOR DUAL COMPLETION

Field Na	wildcat	<u> </u>		County	Lea	October 18, 1960
Operator	El Paso Natural Gas	Company	l.ease Lu	sk Deep Un	t	Well No.
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	l operators listed in Item 5 al notification	oove notified	and furnished	a copy of this	application	n? YES NO X . If answer is yes, give date
	(com	pany), and the	at I am author.	ized by said com	npany to m et and com	of the El Paso Natural Gas Co.  make this report; and that this report was prepared mplete to the best of my knowledge.
CI.						a Hickson Signature
Co	mmission will hold the applic	ation for a pe	riod of twenty	(20) days from	date of re-	ntive approval, the New Mexico Oil Conservation eccept by the Commission's Santa Fe office. If,
OTE: If t	he proposed dual completion	will result in	an unorthodo	x well location	and/or a m	anta the office, the application will then be processed activistandard protation unit in either or both of the simultaneously with this application.

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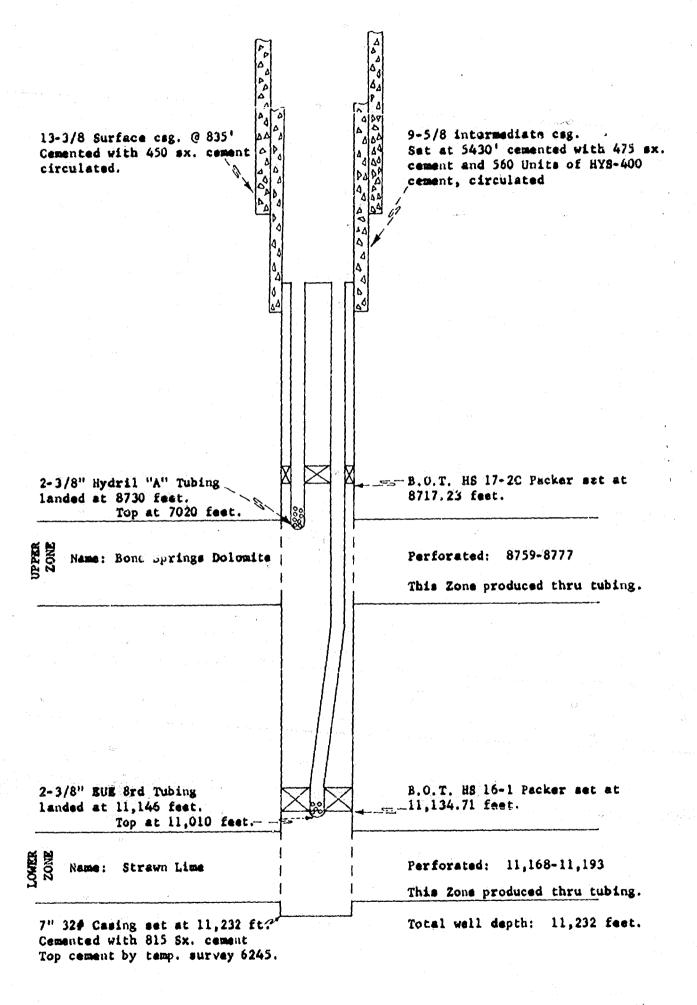
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### DIAGRAMMATIC SKETCH SHOWING DUAL COMPLETION

### INSTALLATION OF THE LUSK DEEP UNIT NO. 1



Date: October 10, 1960

OPERATOR: El Paso Natural Gas Company

Prepared by: Dale Lockett

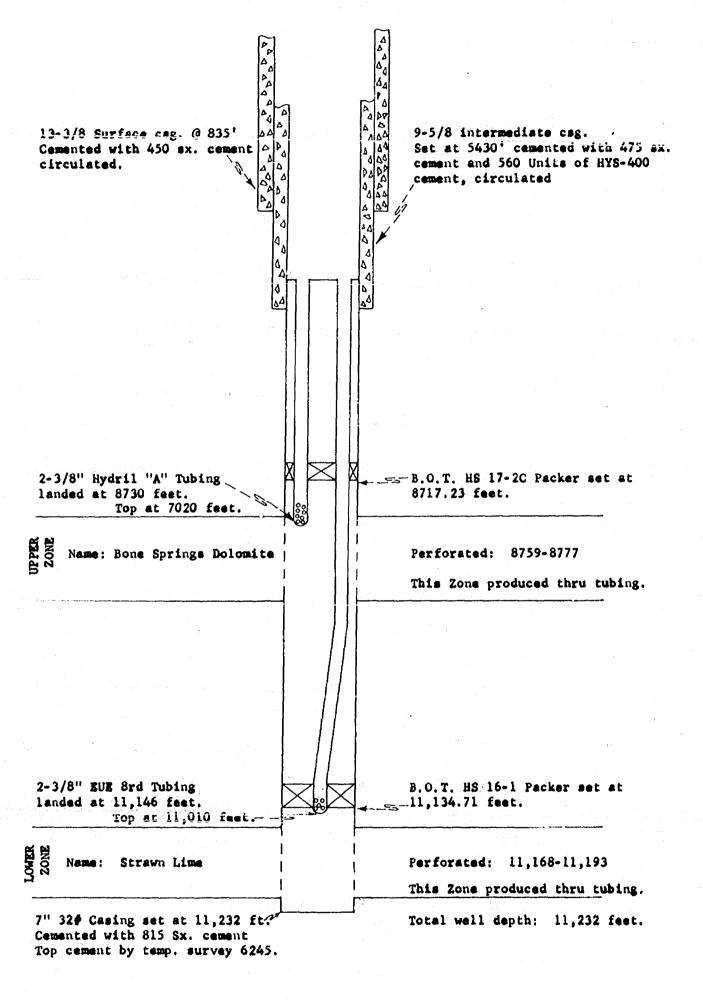
COUNTY: Les

Drafted by: W. L. Burrows

Case 2/25

### DIAGRAMMATIC SKETCH SHOWING DUAL COMPLETION

### INSTALLATION OF THE LUSK DEEP UNIT NO. 1



Date: October 10, 1960

OPERATOR: El Paso Natural Gas Company

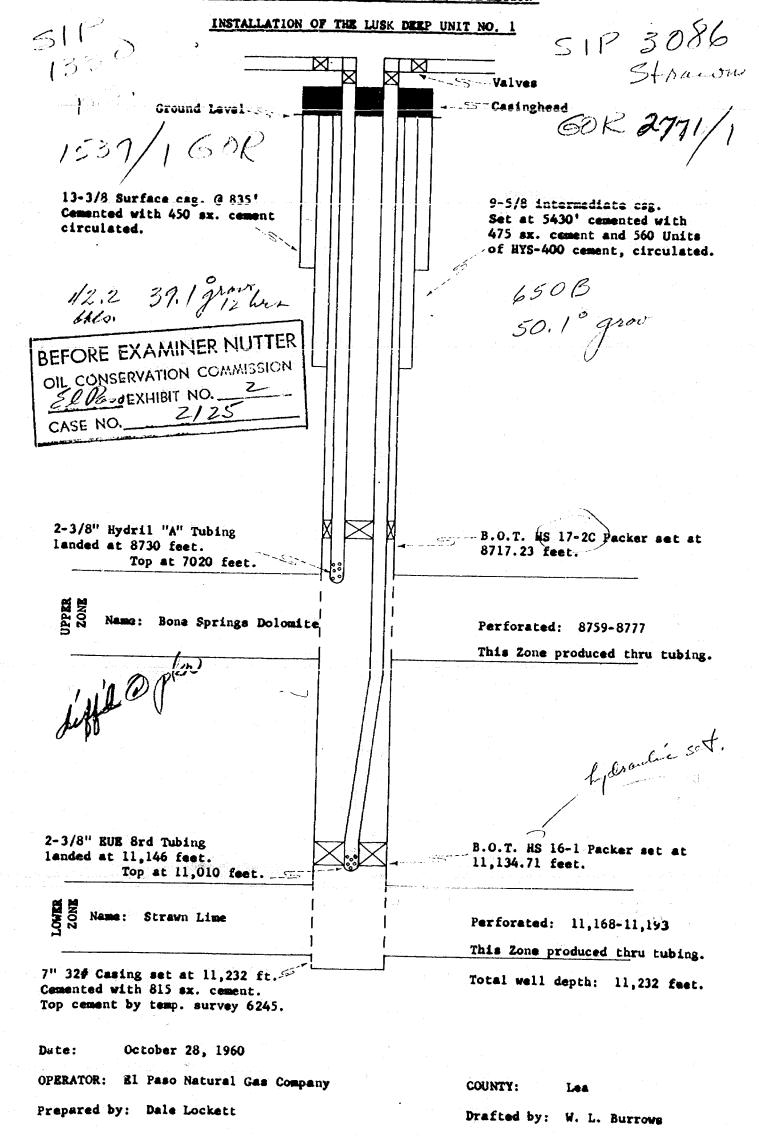
Prepared by: Dale Lockett

COUNTY: Lea

Drafted by: W. L. Burrows

Case 2125

### DIAGRAMMATIC SKETCH SHOWING DUAL COMPLETION



### HEXICO OIL CONSERVATION CO' SSION

SANTA FE, NEW MEXICO

7-3-58

eld Name			County	Į.	October 18, 1960
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El Paso Natural Gas	Section		wek Deep Unit Township		Range
Well Unit	Section	19	19		32
zones within one mile of the sub If answer is yes, identify one suc	ject well? YE	S NO	o_ <b>z</b>		in these same pools or in the sam
The following facts are submitted	d:	Up	oper Zone		Lower Zone
a. Name of reservoir	Bone	Springe	3	St	rawn
b. Top and Bottom of		ه مسلوف اسله			
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(Perforations)		9-8777)		(11, 168-	11, 193)
e. Type of production (Oil or Ga	s) <b>011</b>			Off	
d. Method of Production	Wie.	ving		Flowing	
(Flowing or Artificial Lift) The following are attached. (Ple					
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# GOVERNOR JOHN BURROUGHS CHAIRMAN

# State of New Wexico Oil Conservation Commission

LAND COMMISSIONER MURRAY E, MORGAN MEMBER



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

P. O. BOX 87

December 8, 1960

Mr. Oliver Seth Attorney at Law Box 828 Santa Fe, New Mexico

Re: Case No. 2125 Order No. 1828

Applicant:

El Paso Natural Gas Company

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

Carbon copy of order also sent to:

Hobbs OCC 
Artesia OCC 
Aztec OCC 
Other

### 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. 2125 Order No. R-1828

APPLICATION OF EL PASO NATURAL GAS COMPANY FOR AN OIL-OIL DUAL COMPLETION IN AN UNDESIGNATED BONE SPRINGS POOL AND IN AN UNDESIGNATED PENNEYLVANIAN POOL, LEA COUNTY, NEW MEXICO.

### ORDER OF THE COMMISSION

### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 30, 1960, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 8th day of December, 1960, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Mutter, 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, El Paso Natural Gas Company, is the owner and operator of the Lask Deep Unit Well No. 1, located in Unit A, Section 19, Township 19 South, Range 32 East, NNPM, Lea County, New Mexico.
- (3) That the applicant proposes to dually complete the above-described Lusk Deep Unit Well No. 1 in such a manner as to permit the production of oil from an undesignated Bone Springs pool and the production of oil from an undesignated Pennsylvanian pool through parallel strings of 2 3/8-inch tubing installed within a string of 7-inch casing set at 11,232 feet.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will neither cause waste nor impair correlative rights.

CASE No. 2125 Order No. R-1828

### IT IS THEREFORE ORDERED:

That the applicant, El Paso Natural Gas Company, be and the same is hereby authorized to dually complete its Lusk Deep Unit Well No. 1, located in Unit A, Section 19, Township 19 South, Range 32 East, EMPM, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Bone Springs pool and the production of oil from an undesignated Pennsylvanian pool through parallel strings of 2 3/8-inch tubing installed within a string of 7-inch casing set at 11,232 feet.

PROVIDED HOWEVER, That the applicant shall complete, operats, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That the applicant shall take packer-leakage tests upon completion and annually thereafter, or as required by the Secretary-Director of the Commission.

### IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or the protection of correlative rights; upon failure of the applicant to comply with any requirement of this order, the Commission may terminate the authority herein granted and require the applicant or its successors and assigns to limit its activities to regular single-zone production in the interest of conservation.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

JOHN BURROUGHS, Chairman

MURRAY E. MORGAN, Member

W. G. Valer, h

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

esr/

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### NEW MEXICO OIL CONSERVATION COMMISSION

Examiner Hearing - Daniel S. Nutter

Santa Fe , NEW MEXICO

### REGISTER

HEARING DATE

November 30, 1960

TIME: 9 a.m.

NAME :	REPRESENTING:	LOCATION:
R.T. WRIGHT	El Paso Natural Gas Co	Jal, N. Mex
ARREST WHITWORTH		ELPASO TEXAS
Simmie L. Olson		Midland, Texas
Jerry Hickson		EL PINSO, TEX
Jerry Hickson Lee N Perry by	Numbre 0 & 12 Co	Hobbs, N.M.
M. Anderson	- Luiceani	milland T-
Jack M Campbel		Rosald NM
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i. L. Tolinson	Robinson Bros Drilling Co	Midland, Texa
M. Krdum		Hobbs
P. For Wiedgen	Robinson Bros Dulg Co	Wolfe, 71.m
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## NEW MEXICO OIL CONSERVATION COMMISSION

Examiner hearing - Daniel S. Nutter

Santa Fe, , NEW MEXICO

### REGISTER

HEARING DATE N	lovember 30, 1960 TIME	9 a.m.
NAME:	REPRESENTING:	LOCATION:
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PHONE CH 3-6691

### BEFORE THE OIL CONSERVATION COMMISSION STATE LAND OFFICE BLDG. Santa Fe, New Mexico November 30, 1960

### IN THE MATTER OF:

APPLICATION OF EL PASO NATURAL GAS COMPANY for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Lusk Deep Unit Well No. 1, located in Unit A, Section 19, Township 19 South, Range 32 East, Lea County, New Mexico, in such a ) manner as to permit the production of oil from an undesignated Bone Springs pool and the production of oil from an undesignated Pennsylvanian pool through parallel strings of tubing.

CASE

NO. 2125

BE FORE:

Daniel S. Nutter, Examiner

### TRANSCRIPT OF PROCEEDINGS

MR. NUTTER: The hearing will come to order please. The first case on the docket will be 2125.

MR. MORRIS: Application of El Paso Natural Gas Company for an oil-oil dual completion.

MR. WHITWORTH: Garrett Whitworth, representing El Paso Natural Gas Company. The local counsel firm of Seth, Montgomery & Federici of Santa Fe, New Mexico, which firm has filed a written appearance in this case. We have one witness, Mr. Gerald A. Hickson to be sworn.

(Witness sworn.)



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# GERALD A. HICKSON

a witness, called by and on behalf of the Applicant, having been duly sworn, testified as follows:

# DIRECT EXAMINATION

## BY MR. WHITWORTH:

Will you please state your full name, by whom you are employed and in what capacity you are employed?

Gerald A. Hickson, El Paso Natural Gas Company, Proration Engineer.

Mr. Hickson, have you qualified as an expert witness before Q this commission and is it a matter of record?

Yes, sir.

MR. WHITWORTH: Are the witness's qualifications acceptable?

MR. NUTTER: Yes, sir, please proceed.

(By Mr. Whitworth) Are you familiar with El Paso's application Q in this case, Mr. Hickson?

Α Yes, sir, I am.

Q What is El Paso Natural Gas seeking with this application?

We are seeking an order authorizing the dual completion of our Lusk Deep Unit Well No. 1 in Unit A of Section 19, Township 19 South, Range 32 East, Lea County, New Mexico.

Is this an oil-oil dual?

A Yes, sir, it is.

Q To what zones was the well completed?



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	A	The lower zone is in the Strawn Lime and the upper zone was
co	ompleted in the	Bone Springs Dolomite.
	Q	The well is productive from both zones?
	Å	Yes, sir.
	Q	Where is the well located?
	A	In Unit A, Section 19-19-32.
	Q	Do you have a plat showing the exact location of the well
ar	nd the offset op	perators?
	A	Yes, sir, I do.
	Q	That would be marked as El Paso's Exhibit No. 1?
	A	Yes.
		MR. NUTTER: This will be Exhibit No. 1, Mr. Whitworth?
		MR. WHITWORTH: Right.
-	Q	(By Mr. Whitworth) This well is located in the Federal Unit,
is	that right?	
	<b>A</b>	Yes, sir.
	Q	What is the name of the unit?
	<b>A</b> ,.	Lusk Deep Unit.
	Q	Who are the offset operators?
	A	All offset operators to this well are asking for dual completions
an	nd are in the un	it.
	Q	Now, do you have an exhibit showing the phsylcal equipment
th	at has been ins	stalled in this well?
	Α	Yes, sir. I have a diagrammatic sketch showing the dual



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completion.

That is El Paso's Exhibit No. 2? Q

Yes, sir.

Would you explain, Mr. Hickson, the physical equipment in this well?

Well, this diagrammatic sketch illustrates or points out casing Α strings and the cement tops and the depth of the tubing and formation involved in this dual completion and the point which both packers were set.

Q Where were the packers set?

We have two packers in this hole, hydraulic retrievable packers. 172-C which is set at 8702', which is 42' above the perforations in the Bone Springs. The lower packer which is a HS 16-1 is set at 11,134' which is 34' above the perforations in the Strawn Lime.

Q You stated the production packer is a retrievable type, exactly what is the make and model?

The make and model of the lower packer, which is a separation packer, is HS 16-1, hydraulically set retrievable packer, made by Brown Oil Tools Incorporated.

> Has El Paso used this type of packer before? Q

Yes, sir, we have.

What has been the experience of El Paso as to the effectiveness of this production packer?

A We have the same packer installation set in quintuplet completions in Louisiana which has been in operation for nearly a year and have had



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PHONE CH 3-66

no failure as of yet.

Q In your opinion, Mr. Hickson, is this packer sufficient to separate production from the two zones in this well?

- A Yes, sir, I believe it is.
- Q When was the well completed?
- A October 5, 1960.
- Q Do you have any pressure data in this well?

A We have shut-in information taken from a packer leakage test which is filed in the District Office in Hobbs; shows the shut-in pressure of the Strawn Lime, 3086 psig and -

MR. NUTTER: 3086 pounds surface pressure.

- A Yes, sir and the Bone Springs pressure of 1330 psig.
- Q (By Mr. Whitworth) You stated this well is an oil well, what is the gas oil ratio?

A The gas oil ratio which was taken 6 days after completion was 2771 to 1 for the Strawn Lime and 1539 to 1 on the Bone Springs Dolomite.

- Q Do you have a well log on this well?
- A Yes, sir.
- Q And that is El Paso's Exhibit No. 3?
- A Yes, sir, it is.
- Q Would you explain what that log shows?

A A composite which we determine the tops of the formation and pick the pays of the two zones that we completed in porosity and permeability.

Q You stated that the well is productive of oil, did you tell us exactly what amounts from each zone?



NEW MEXICO

On a six hour and twenty minutes test in the Strawn, 151 barrels of 50.1 degree gravity oil and the Bone Springs produced 42.1 - 42.2 in twelve hours, gravity 39.1.

In your opinion, Mr. Hickson, would the granting of this Q application prevent waste and protect correlative rights?

- I believe it would.
- Do you have anything you would like to add to your testimony? Q
- No, sir, except we have good means of finding any leaks that may occur if they do down the line because we have a very good pressure differential and we also have good difference in gravities of the two oils in the two different zones.
  - Have packer leakage tests been completed on this well? Q
  - A Yes, sir, it was.
  - When was that done? Q
  - October 6. Correction, that would be the 10th of October. Α
  - What did this test show?
  - It showed no leaks at the present time.
- Were El Paso's Exhibits 1, 2 and 3 prepared by you or under Q your supervision?
  - A Yes, sir, they were.

MR. WHITWORTH: We ask that the exhibits be admitted into evidence.

MR. NUTTER: Exhibit 1 through 3 will be admitted.

MR. WHITWORTH: That is all.



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PHONE CH 3-6091

MR. NUTTER: Anyone have any questions?

### CROSS EXAMINATION

### BY MR. PAYNE:

Mr. Hickson, what will be the pressure differential at the packer?

I would approximate, I would say probably about, oh, maybe close to 2000 pounds.

Do you have any literature or brochure on this type of Brown Q Oil Tool packer?

We have one brochure here from Brown Oil Tool, if you would A like to enter it as an exhibit.

MR. NUTTER: We would prefer you would, Mr. Hickson.

All right, fine. Α

MR. WHITWORTH: We will enter that brochure as El Paso's Exhibit No. 4.

(By Mr. Payne) Mr. Hickson, the well you completed in Q Louisiana where you used this same type packer, is that well as deep as this one?

Well, sir, I am not real cortain of the depth of that well. I am sure they have greater pressures in that as it is an offshore well. They have extreme pressure differentials and temperatures.

What you have lists producing from the Strawn, is that actually part of the Pennsylvanian?

> Yes, sir. Α



PHONE CH 3-6691

MR. PAYNE: Thank you.

### CROSS EXAMINATION

### BY MR, NUTTER:

Q Mr. Hickson, would you describe in your own words, I am sure the brochure probably does, would you describe in your own words the manner in which the number of slips, whether the slips are pointed upward or downward and how many rubber seals are in the packer.

A The manner in which the packer is set, it is a hydraulically set packer and lowered on the longest string, the lower string of tubing; then the upper string of tubing is ran in the hole and set in the upper packer which is 17-2-C. A bakelite ball is ran into the upper tubing, at which time the pressure which sets the upper packer, which has two slips, the upper slips of both packers, the upper and lower of the two sets of slips and rubber sealed on the outside of the slips with lead seals on the outside of the rubber seals.

Q It has two sets of slips, one set pointing upward and one pointing downward?

- A Yes, sir.
- Q Each set rubber?
- A On the outside, yes.
- Q Lead seal on the outside of the rubber seal?
- A Yes, sir.
- Q How is the packer released?
- A The packer is released by rotating the tubing.
- Q Can the packer be set again after released without removing



it from the hole?

Yes, sir, it could be. We can run another bakelite ball in Α the hole in this lower packer and pressure up on it and if we are not satisfied with the pressure that it was set at, we can pressure up on it again and then reverse out this ball; it will be set into a higher pressure.

Q Would the lead seals the first time the packer was set be disfigured, you couldn't get another set on the lead seals?

I don't think so. They may be to a certain degree; we still Α have the lead seal, the protection of the rubber seal which is really for corrosive fluids that we have in this hole.

In other words, the lead seals are to protect the rubber seals?

Yes, sir. The rubber seals hold and the lead seals actually protect the rubber seals from corrosive fluids. This is sweet crude in both zones.

The packer is set by pressuring up the tubing string on which the packer is hung?

> Α Yes, sir.

Q And released by rotating the tubing string?

Α Yes, sir.

What did you say the gas oil ratio on the Strawn was? Q

Α Six days after completion it was 2771 to 1.

Q 2771 to 1.

Yes, sir. I understand on recent tests it has come down to somewhere between 2200 and 2300.



Do you have any bottom hole pressure information on this well?

Yes, sir, I believe we do. I believe we have one for the Α drill stem tests which shows it to be in the neighborhood of 5800 pounds. I don't see this right now, I am sure it is in the neighborhood of 5850.

Q I think the bottom hole pressure is indicated on the log during the drill stem test for the Strawn.

> Yes, sir. A

Let's see if we have a bottom hole pressure on the Bone Q Springs.

> Yes, bottom hole pressure is given on both drill stem tests. Α MR. NUTTER: Any further questions of Mr. Hickson. (No response.)

MR. NUTTER: You may be excused. Do you wish to formally offer that Exhibit No. 4?

MR. WHITWORTH: We wish to offer El Paso's Exhibit No. 4.

MR. NUTTER: El Paso's Exhibit No. 4 will be received. Do you have any further questions?

MR. WHITWORTH: No, sir.

MR. NUTTER: Does anyone have anything further? (No response.)

MR. NUTTER: We will take the case under advisement and call case 2126.



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ALBUQUERQUE, NEW MEXICO			PHONE CH 3-66

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		nation by Mr. Whitworth	
		nation by Mr. Payne	
	Cross Examin	nation by Mr. Nutter	
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		EXHIBITS	
Number	Exhibit	Marked for <u>Identification</u>	Offered
No. 1	Plat	3	3
No. 2	Sketch	4	4
No. 3	Log	5	<sup>2</sup> 5
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DEARNLEY-MEIER REPORTING SERVICE, Inc.

STATE OF NEW MEXICO	)
	) ss
COUNTY OF BERNALILLO	<b>)</b>

I, LEWELLYN F. NELSON, Court Reporter, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in Stenotype and reduced to typewritten transcript under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand this 16th day place 1960, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Lewellyn F. Nelson, Court Reporter.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No 2/22, heard by me on 1/30, 1960.

New Nexico Oil Conservation Commission



DRAFT

RSM/esr December 1

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

12/2 Q

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

CASE No. 2125 Order No. R- 1828

APPLICATION OF EL PASO NATURAL GAS COMPANY FOR AN OIL-OIL DUAL COMPLETION IN AN UNDESIGNATED BONE SPRINGS POOL AND IN AN UNDESIGNATED PENNSYLVANIAN FOOL, LEA COUNTY, NEW MEXICO.

AND IN AN UNDE POOL, LEA COUN

### ORDER OF THE COMMISSION

### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on Fovember 30 1960, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this day of December, 1960, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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, El Paso Natural Gas Company, is the owner and operator of the Lusk Deep Unit Well No. 1, located in Unit A, Section 19, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico.
- (3) That the applicant proposes to dually complete the above-described Lusk Deep Unit Well No. 1 in such a manner as to permit the production of oil from an undesignated Bone Springs pool and the production of oil from an undesignated Pennsylvanian pool through parallel strings of 2 3/8-inch tubing installed within a string of 7-inch casing set at 11,232 feet.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(5) That approval of the subject application will neither cause waste nor impair correlative rights.

### IT IS THEREFORE ORDERED:

That the applicant, El Paso Natural Gas Company, be and the same is hereby authorized to dually complete its Lusk Deep Unit Well No. 1, located in Unit A, Section 19, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Bone Springs pool and the production of oil from an undesignated Pennsylvanian pool through parallel strings of 2 3/8-inch tubing installed within a string of 7-inch casing set at 11,232 feet.

PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That the applicant shall take packerleakage tests upon completion and annually thereafter, or as required by the Secretary-Director of the Commission.

### IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or the protection of correlative rights; upon failure of the applicant to comply with any requirement of this order, the Commission may terminate the authority herein granted and require the applicant or its successors and assigns to limit its activities to regular single-zone production in the interest of conservation.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.