CASE 5907: DOME PETROLEUM CORPORATION
FOR A SPECIAL DEPTH BRACKET ALLOWABLE,
MCKINLEY COUNTY, NEW MEXICO

Lase Number 5907

Application

Trascripts

Small Exhibits

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& 5908

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
April 20, 1977

EXAMINER HEARING

IN THE MATTER OF:

Application of Dome Petroleum Corpora-) tion for a special depth bracket allow-) able, McKinley County, New Mexico.)

Application of Dome Petroleum Corporation for pool creation and special depth bracket allowable, San Juan County, New Mexico.

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

APPEARANCES

For the New Mexico Oil Conservation Commission:

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Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

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MR. STAMETS: At this time we will call Case 5907.

MS. TESCHENDORF: Case 5907, application of Dome

Petroleum Corporation for a special depth bracket allowable,

McKinley County, New Mexico.

MR. STAMETS: Call for appearances.

MR. BATEMAN: Mr. Examiner, I'm Ken Bateman of White, Koch, Kelly and McCarthy appearing for the applicant.

In the interest of time I would point out to the Examiner that Cases 5907, 5908 and 5909 have a common issue involving a special depth bracket allowable and those cases will have virtually identical testimony and if the Examiner please, I would like to combine those three cases if there is no objection and present testimony.

MR. STAMETS: We will call then Cases 5908 and 5909.

MS. TESCHENDORF: Case 5908, application of Dome.

Petroleum Corporation for a special depth bracket allowable,

McKinley County, New Mexico.

Case 5909, application of Dome Petroleum Corporation
for pool creation and special depth bracket allowable,
San Juan County, New Mexico.

MR. STAMETS: Is there any objection to the consolidation of these cases? They will be consolidated for purposes
of testimony.

MR. BATEMAN: Thank you. I have one witness and as

that he be sworn.

(THEREUPON, the witness was duly sworn.)

MR. BATEMAN: Mr. Examiner, one further preliminary matter, I would point out also that Case 5909 involves an additional matter and that's the creation of a new pool with the proposed name of Snake Eyes-Entrada and we will present testimony on that at the conclusion.

WILLIAM E. BABYAK

called as a witness, having been first duly sworn, was exemined and testified as follows:

DIRECT EXAMINATION

BY MR. BATEMAN:

- Would you state your full name please, and place of residence?
- A. My name is William E. Babyak, that's B-a-b-y-a-k.

 live at 5160 West Quarles in Littleton, Colorado.
- Have you previously testified before the Commission
 and had your qualifications made a matter of record?
 - A. Yes, I have.
- Q And are you familiar with the area in question in these three applications?
 - A. Yes.
 - Q And how are you presently employed?

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A. I'm employed as District Engineer for Dome Petroleum
Corporation in Denver.

Q And have you been involved in the development of the three pools in question?

A. Yes, I have.

MR. BATEMAN: Are the witness' qualifications acceptable?

MR. STAMETS: They are.

0 (Mr. Bateman continuing.) Mr. Babyak, would you please briefly review what Dome Corporation seeks by its application here today?

A Basically with this application Dome Petrolem

Corporation is requesting a seven hundred and fifty barrel of
oil per day per well special depth bracket allowable for these
fields involving eight wells in McKinley and San Juan Counties.

New Mexico.

The current depth bracket allowable for these wells is one hundred and seven barrels of oil per day. However, six of the eight wells to be mentioned are capable of making oil rates in excess of the current depth bracket allowable even with the beam pumping equipment which is relatively low capacity.

The three fields in question are Papers Wash,
Smake Eyes and Ojo Encino. All fields produce from the
highly porous and permeable Jurassic Entrada formation.

Previously this Commission has granted the special depth bracket of seven hundred and fifty barrels per day to the other two known Entrada producers in Northwest New Mexico, these being Eagle Mesa and Media.

The thrust of our testimony today will be toward demonstrating three factors, one, the similarity, almost duplication, of rock and fluid properties of Papers Wash, Snake Eyes and Ojo Encino compared to the Eagle Mesa-Entrada Pool. Two, the evidence in Eagle Mesa that increased rates has had no harmful effects on oil recovery. In fact, as it will be demonstrated in one case in the Media-Entrada Pool, there may be beneficial effects to high volume, to high rate capacity lift. And, three, sufficient market does exist for all of the Entrada crude which can be produced at this time or in the future.

Dome now has plans to instill high volume lift

capacity on all of its producing wells, probably sometime in

July of this year. Both Eagle Mesa and Media are in the main

being produced by high volume lift, which in this case is

Reda Pumps, submersible pumps, and currently plans are being

implemented for subsurface disposal of produced water.

In addition, Dome is requesting the creation of a new pool and assignment of a discovery allowable in the Snake Eyes-Entrada Pool located in Section 20, Township 21 North, Range 8 West in San Juan County.

Court Court

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Q Mr. Babyak, have you prepared an exhibit by which the rock and fluid properties are compared?

A Yes, I have, Exhibits One-A, One-B and One-C give rock and fluid property comparisons between Papers Wash, Snake Eyes and Ojo Encino as compared to Eagle Mesa.

Going into the Exhibit One-A, the Papers Wash field is located in Sections 15 and 22 of 19 North, Range 5 West of McKinley County and going down the list we can see that the depth is approximately the same, three hundred feet of different Porosities are high, twenty-five percent in the case of Eagle Mesa as determined from a core and twenty-six point one percent for Papers Wash as determined from a log. We have no cores taken in the Papers Wash field. The permeability for Eagle Mesa is four hundred and ninety-three millidarcies. The hundred ninety millidarcies and this is a build-up calculation permeability and it is calculated permeability to oil.

Here I would like to mention that in general a permeability to oil will show up somewhat different or lower than a permeability to air, simply because of the resistance factor of a liquid versus a gaseous substance.

The reservoir pressure, twenty-one ninety for Eagle

Mesa and twenty-one twenty for Papers Wash, very similar. The

gradient point four oh one psi per foot for Eagle Mesa and

point four one psi per foot for Papers Wash. The reservoir

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temperature, nearly identical, two degrees difference. The oil gravity, we are dealing essentially with the same oil, thirtytwo and a half degree api, oil viscosity, four centipoise, which has been previously demonstrated to this Commission on Eagle Me and nine centipoise correlation viscosity which we have on our oil in Papers Wash. The pour point of the oil again is very similar, eighty degrees for Eagle Mesa and seventy-five degrees for Papers Wash. Gas in solution again, nil in both cases. Water salinity eighty-seven hundred parts per million for Eagle Mesa and three thousand parts per million for Papers

Exhibit One-B is the rock and fluid property comparise between Eagle Mesa and Snake Eyes. I would like to mention that the Snake Eyes-Entrada is the proposed pool designation for the discovery in 20, 21, 8. The porosity is essentially same, twenty-five percent versus twenty-four point nine percent. Those are both core porosities. Permeability, four hundred as ninety-three at Eagle Mesa and six hurdred and sixty-five at Snake Eyes. The reservoir pressure, twenty-one ninety at Eagle Mesa, twenty-three sixty-two at Snake Eyes. The gradient point four oh one and point four two two. The reservoir temperature again, nearly the same. The oil gravity thirty-two and a half at Eagle Mesa and twenty-nine point three at Snake The oil viscosity, four centipoise versus nine at Snake Eyes. The oil pour point again very high, eighty degrees at Eagle

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Mesa and seventy degrees at Snake Eyes. Essentially no gas in solution in either case. Water salinity very close, less than twenty-five hundred parts per million difference and water viscosity, again, the same.

And Exhibit One-C is a comparison of rock and fluid properties with Ojo Encino as compared to Eagle Mesa Field.

Ojo Encino is about four hundred feet deeper and the porosity is a little bit lower but again high, twenty-four percent versus +wenty-five. The permeability is somewhat lower than Eagle Mesa. The reservoir pressure a little higher for Ojo Encino. The fluid gradient about the same. The reservoir temperature is slightly higher at Ojo Encino due to the depth. The oil gravity the same. The viscosity, some difference. The characteristic of the Jurassic-Entrada in this area. Gas in solution, nil. Water salinity essentially the same, just two thousand parts per million difference and water viscosity the same.

- Q Mr. Babyyak, in your opinion is there any significant difference between the rock and fluid properties which you have demonstrated in these comparisons?
 - A No significant differences, no, sir.
- Q Have you prepared an exhibit showing the production data in the pools in question?
 - A Yes, I prepared Exhibits Two-A, Two-B and Two-C whi

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essentially on a per well basis summarize the initial potential data of the wells along with their current capacities and and their cumulative.

What I would like to point out basically here is on Exhibit Two-A all of the wells in Papers Wash initially potentialed at rates in excess of the current depth bracket allowable and currently all of the wells are capable of production in excess of the current depth bracket allowable.

The Federal 15-1 essentially produces half of the month for the months of January, Februrary and March and I would also like to mention here that these wells are pumping from approximately three thousand feet with beam pumping equipment which as I mentioned previously we hope to change in July to Redapump equipment.

Exhibit Two-B is a production data sheet on the Snake Eyes-Entrada Field as proposed. This well initially potentialed for two hundred and thirty one barrels of oil per day, no water, flowing. It is currently capable of a hundred and thirty-two barrels of oil and three hundred and twenty barrels of water per day.

And Exhibit Two-C is the initial potential data and current data on the Ojo Encino-Entrada and here I would like to say that the wells initially potentialed in excess of allowable however, they are not currently capable of allowable rates, however, with high volume lift they will be capable of oil

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rates in excess of the allowable rates.

- Q You say in excess of the allowable rates, do you mean in excess of the seven hundred and fifty?
- A. No, I mean in excess of a hundred and seven barrels, current depth bracket allowable.
- Q All right, what is the drive mechanism in these pools?
- A. The drive mechanism in these pools appears to be a strong water drive mechanism which again is the same as evidenced in Eagle Mesa and Media.
- Q Will you proceed with Exhibit Numbers Three-A, B and C?
- A. These exhibits are brought to your attention mainly to give the relative location of the wells within the sections and the locations and also an idea of the horizontal limits of the pools.

As you can see Papers Wash, there are four wells in the northern pool area and one well in the southern pool area. We do plan additional drilling in the future on this feature, the exact location which hasn't been determined. There is a slight possibility that these two may marry up.

On Exhibit Three-B, this is the structure map on top of the Entrada formation, the proposed Snake Eyes-Entrada Field It shows the location of the Santa Fe 20-1 pretty much on top of the structure, along with the productive limits, approximate

plus ten twenty subsea.

And Exhibit Three-C is an Entrada structure map from 3 reflection seismic on the Ojo Encino-Entrada Field showing the location of the Federal 21-1 and the 21-2. It's not colored in on that one but the oil-water contact is at approximately the eight hundred and twenty subsea contour.

All right, referring your attention again to Exhibit Three-B does that show the horizontal limits of the proposed Snake Eyes-Entrada Field?

Yes, the horizontal limits are placed in there on the basis of the observed oil-water contact in the Entrada formation on top of the Entrada encountered in the 20-1.

MR. STAMETS: Would you be recommending as the pool 14 limits the north half of Section 20 and the southeast of Section 17?

The north half of Section 20 I believe would be the pool. I sincerely doubt the existence of an economic locations in Section 17.

MR. STAMETS: The north half of 20 would be what you desire?

The north half of 20, yes.

MR. STAMETS: Thank you.

(Mr. Bateman continuing.) Have you made any calculation concerning the possible reservoir damage or waste in

Yes, I would like to refer to Exhibits Four-A,

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Four-B and Four-C. This data has been gathered from published data on the Eagle Mesa Field, the Federal 13 C-1 and the Federal 14 C-1.

Exhibit Four-A is a plot of cumulative water production versus cumulative oil production on a log-log scale. As you will notice on the line in the extrapolation you can see where the Reda pump or high volume lift or higher than allowable capacities were permitted. As you can see, this reasonably demonstrates that there has been no harmful effect on the oil versus water cum-cum relationship as a result of the higher volume lift. If there had been a bad effect that line would have essentially gone down to the right rather than maintained its original attitude.

- O The decline of the scale then would indicate what?
- A A decline in the scale would indicate a smaller oil production or a greater water production which means there would be a harmful effect to recovery because of the high volume lift.

Figure Four-B again is the same type plot, cum eil versus cum water on a log-log scale for the Federal 14 C-1 at Eagle Mesa and again the relationship of oil versus water production did not change at all with the inclusion of a Reda pump.

And Figure Four-C just digressing a little bit back to the Media-Entrada Field, this is a percent oil versus

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cumlative oil plot on the Fluid Power Pump Company No. 1 Well. The extrapolation on line one indicates -- is extrapolated down to one-half of one percent oil cut which we anticipate right now is the economic limit on producing these wells. And line one I think is a reasonably established relationship between the percent oil versus the cum oil and it indicates a recovery of seven hundred and fifty thousand barrels from this well at a half a percent oil cut. You can see when the pump rate was increased which means the Reda pump was put in the hole and the pump rate was increased, the current extrapolation on line two is approximately eight hundred and forty thousand barrels, an increase in ultimate recovery from this well of about ninety thousand barrels or fifteen or sixteen percent.

I think what this curve shows is there may be a beneficial effect from the high volume lift.

Q Now, presuming you are able to produce additional oil, is there a market for the oil?

A Yes, I would like to introduce Exhibit Five here
which is a letter to Dome Petroleum Corporation to my
attention, dated March 15th, 1977 from the Permian Corporation.

I'll just read this into the record. (Reading.)

In response to your inquiry about future market

potential for Entrada crude, I would like to make the following

comments: Plateau has assured me that they will be able

to take all production from Dome Petroleum by May 15th, 1977.

of this crude, the local market will be real firm in the future. (End of reading.)

There are several other people that have been asking for some

I think that this demonstrates that counter to past history on this Entrada crude, we do have a viable and an unlimited market essentially for our capabilities.

Q Turning your attention to the application for the proposed new pool, the Snake Eyes-Entrada, would you refer then to Exhibit Number Six and identify it?

A Yes, Exhibit Number Six is a location and acreage map on Township 21 North, Range 8 West. The discovery well for the proposed Snake Eyes-Entrada Pool is located in Section 20 and is underlined in red. It was drilled to a depth of fifty-eight hundred and sixteen feet, Santa Fe 20-1.

What I would like to point out here is that all of the offset acreage owners are identified and all of the wells previously drilled in this area are identified, none of which are producing at this time. I would like to point out that all of the other wells in this area that are shown to be plugged-out oil wells produced from the Dakota sandstone reservoir.

In addition there is one other thing I would like to apologize to the Commission for. This map should cover an area two miles in radius from the Santa Fe 20-1, which would mean at least the east half of Sections 13, 24 and 25. I have checked into whether or not there are any wells over there and

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to the best of my knowledge there are not.

Q Now, have you been able to identify the vertical separation between the old Dakota production and the new Entrada production?

A Yes, I would like to refer to Exhibit Seven which is a dual induction laterolog on a two inch equals one hundred foot scale. The principal factors on this log I would like to point out is the Dakota "D" reservoir. The Snake Eyes-Dakota "D" reservoir occurs at approximately forty-six hundred and eighty feet logged depth on this well which is the Santa Fe 20+5. The Entrada occurs at a depth of approximately fifty-six oh four. We have approximately nine hundred feet of vertical separation between the previously producing and now plugged out Dakota and the currently producing and discovered Entrada.

I believe this demonstrates adequate vertical separation.

Q Mr. Babyak, have you filed a Form C-109 on that well?

A Yes, I have, it is Exhibit Eight. What this application essentially shows is the location of the well which is demonstrated on the map, the total depth and the initial potential. In addition, the nearest production to the discover as I previously mentioned was the Snake Eyes-Dakota "D". The top of the pay was about forty-six hundred and seventy-eight feet, the bottom about forty-seven hundred feet. It is now currently producing about nine hundred feet vertically from

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the Entrada and horizontally the nearest well in the Dakota "D" is plugged out at about sixteen hundred and fifty feet away from the Santa Fe 20-1 discovery well.

The nearest comparable production, meaning from the Entrada, is at Ojo Encino which is in Section 20 North and Range 5 West, it's about nineteen point six miles away.

- Q. Would you proceed then with Exhibit Nine?
- A Exhibit Nine is a recap of pertinent rock and fluid properties on the Snake Eyes-Entrada Pool. This data has been gathered from the initial discovery well and it is pretty much a recap of Exhibit One-B where I compared it with the Eagle Mesa. Again we are dealing here with a high pour point oil, twenty-nine point three degree api gravity and a reasonably, at least as far as dissolved solids, a reasonable water as far as being able to handle it, again high porosity and high permeability and about fifty-six hundred feet of depth:
- Mr. Babyak, in your opinion will the granting of the
 applications protect correlative rights and prevent waste?
 - A Yes, sir, they will.
- Q Were Exhibits One through Nine prepared by you or under your direction?
 - N Yes, they were. >

MR. BATEMAN: I offer Exhibits One through Nine at this time.

MR. STAMETS: These exhibits will be admitted.

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(THEREUPON, Dome's Exhibits One through
Nine were admitted into evidence.)
MR. BATEMAN: I have nothing further.

CROSS EXAMINATION

BY MR. STAMETS:

0. Mr. Babyak, do you have any indication that the discovery well in the Snake Eyes-Entrada Pool will be able to produce seven hundred and fifty-five barrels a day, plus the assigned discovery allowable?

A Well, at this point in time based on the initial drill stem test of the well, the initial drill stem test of the well unloaded at about twenty-five hundred barrels of oil per day so I would say, yes, if we can install sufficient lift. Our plans right now are to install Redas on all of these wells with capacities between four and five thousand barrels of fluid per day.

Referring back to your Exhibit Four-C, based on the Media Field, you indicated perhaps an additional ninety thousand barrels of production based on that decline curve.

Are the expenses associated with pumping this with Reda equipment such that you would have to cease production at an earlier date or at a higher oil-water cut?

A. That is kind of a loaded question, Mr. Examiner. We can produce economically to a lower water cut with Reda equip-

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ment mainly because we don't have the operational difficulties inherent with beam pumping equipment. This will be a totally electrified operation, we will have our salt water disposal electrified and once you get above a certain level the incremental cost to put away a barrel of water goes down, so, therefore, actually it probably will -- if anything high volume lift decreases the well, it will decrease your economic limit.

- It will make for better operations?
- It will make for better operations.
- Do you have injection wells already authorized here in this area?
- No, I've got all of the papers ready for submission to this Commission to get the necessary approvals for subsurfac disposals.
- Would you anticipate that if you were granted approval of your application, say in a couple of weeks, that you would have your injection wells in operation before you got the Reda equipment installed and increased your water production rates?
- Well, we will not be ready to do this within a couple of weeks, however, as I have previously demonstrated with the current water disposal facilities which we have a temporary permit for and do anticipate getting an extension, we are currently capable of making in excess of the depth bracket allowable and we would like permission to do that.

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- Ω And you are disposing of this water
 - No, right now it is just going
 - disposal

derground?

- Q Is there any fresh water in the a of these wells?
- A. None that I know of. Maybe Mr. Kendrick can offer some comments on that.

MR. KENDRICK: I don't know just offhand.

A This water is reasonably fresh in itself.

MR. STAMETS: I wouldn't want to drink any of it.

I'm sure that Mr. Kendrick by judicious application of his authority would be able to cause any production which endangered fresh water to be halted or suspended or whatever so perhaps we can handle it in that manner.

Any other questions of the witness? He may be excused.

(THEREUPON, the witness was excused.)

MR. STAMETS: Is there anything further in this case.

The case will be taken under advisement.

REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

Sidney F. Morrish, C.S.R.

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New Mexico Oil Conservation Commission

Rock and Fluid Property Comparison

Eag	gle Mesa Field	Papers Wash Field
Depth (avg)	546C feet	5160 feet
Porosity	25% (core)	26.1% (logs)
Permeability	493 md (core to air)	290 md (buildup to oil)
Reservoir Pressure	2190 psig	2120 psig
Gradient	.401 psi/ft	.41 psi/ft
Reservoir Temperature	150° F.	152 ⁰ F.
Oil Gravity @ 60° F.	32.50 API	32.50 API
Oil Viscosity @ Res Temp	4 cp (est)	9 cp (correlation)
Oil Pour Point	80° F.	75° F. (observed)
Gas in Solution	nil	nil
Water Salinity (Dis Solids)	8718 PPM	3010 PPM
Water Viscosity @ Res Temp	.5 cp (est)	.5 cp (est)

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMENTON

CASE NO. 5507 - B - 9

Sunte: Applicant
Hearing Date April 20, 1477

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Rock and Fluid Property Comparison

	Eagle Mesa Field	<u>Snake Eyes Entrada</u>
Depth (avg)	5460 feet	5600 feet
Porosity	25% (core)	24.9%
Permeability	493 md (core to ai	r) 665 md (core to air)
Reservoir Pressure	2190 psig	2362 psig
Gradient	.401 psi/ft	.422
Reservoir Temperature	150° F.	152° F.
Oil Gravity @ 600 F.	32.5º API	29.30 API
Oil Viscosity @ Kes Temp	4 cp (est)	⁹ cp (correlation)
Oil Pour Point	80° F.	70° F.
Gas in Solution	nil	nil
Water Salinity (Dis Solids)	8718 PPM	11,114 PPM
Water Viscosity @ Res Temp	.5 cp (est)	.5 cp (est)

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BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMITTEEN

EXHIBIT NO. 1-8

CASE NO. 5907-8-9

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Ap. 20, 1977

Rock and Fluid Property Comparison

	Eagle Mesa Field Ojo	Encino Field
Depth (avġ)	5460 feet	5890 feet
Porosity	25% (core)	23.6%
Permeability	493 md (core to air)	205 md (core to air)
Reservoir Pressure	2190 psig	2367 psig
Gradient /	.401 psi/ft	.402 psi/ft
Reservoir Temperature	150° F.	170º F.
Oil Gravity @ 60° F.	32.5° API	35.5° API
Oil Viscosity @ Res Temp	4 cp (est)	9 cp (correlation)
Oil Pour Point	80° F.	70 ⁰ F.
Gas in Solution	nil	nil
Water Salinity (Dis Solids)	8718 PPM	10,726 PPM
Water Viscosity @ Res Temp	.5 cp (est)	.5 cp (est)

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4-12-77

CASE NO. 5907 - 8 - 9
Signified by Applicant
H. Ling Date Ap. 28, 1997

Production Data Sheet

Papers Wash Entrada Sections 15 & 22, T19N R5W McKinley County

Well Name & Number	KB Elev	Init BOPD	tial Pote BWPD	ential Dat MCFPD	a Method	Date	Cu BOPD	rrent BWPD	Cum * 011	Cum Wtr
Federal 15-1	6601	360	- 0	TSTM	P //	11-14-76	180	130	21675	3500
Federal 15-2	6618	276	0	TSTM	F	3-16-77	373	100	2287	1000
Navajo Allotted 15-3	6575	380	0	TSTM	Р	3-28-77	129	250	984	1200
Navajo Allotted 15-4	6643	CASED -	AWATIING	G COMPLETI	011					-
Navajo Allotted 22A-1	6577	366	229	TSTM	P	4-10-77	366	229		••
TOTAL		1382	229	TŚTM	-		1048	709	24946	5700

* All cumulatives to 4-4-77

MEB 4-12-77

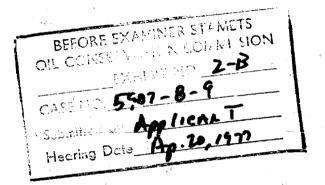
BEFORE EXAMINER STAMETS
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APPLICATE
HEATING DUIS A.D. 1977

Production Data Sheet Snake Eyes Entrada Field Section 20, T21N, R8W, San Juan County

Well Name and Number	KB Elev.	BOPD	nitial BWPD	Potentia MCFD	Data Method	Date	Curre BOPD	BWPD	Cum* <u>0i1</u>	Cum Wtr
Santa Fe 20-1	6569	231	0	TSTM	F	2-12-77	132	320	5300	5300

* to 4-3-77



P

Production Data Sheet Ojo Eneino Entrada Section 21, T20N, R5W McKinley County

			Initial	Potentia	l Data	Current		Cum*	Cum	
Well Name & Number	KB Elev.	BOPD	BWPD	MCFD	Method	Date	BOPD	BWPD	<u>011</u>	Wtr
Federal 21-1	6787	215	0	TSTM	P	8-26-76	28	200	8200	47900
Federal 21-2	6818	203	. 0	TSTM	P	9-27-76	21	175	4009	18600
TOTAL		418	0				49	375	12209	65600

* to 4-3-77

CARREST AND THE STAMETS

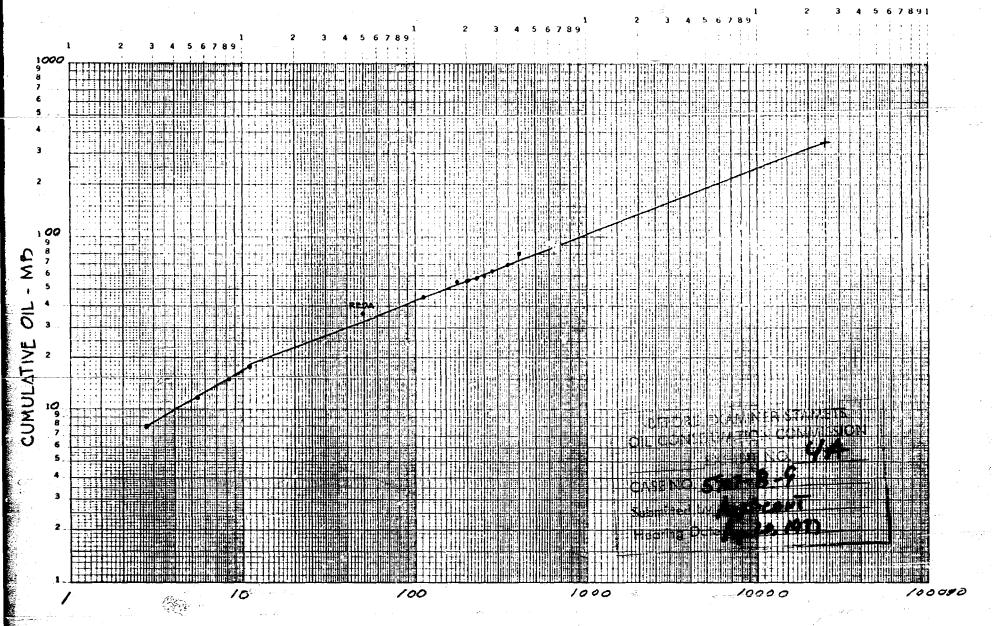
OIL CONSERVATION COMMISSION

EVENT OF THE STAMETS

CARREST AND SERVED AND LICENTER

Hearing Date 14 10 1999

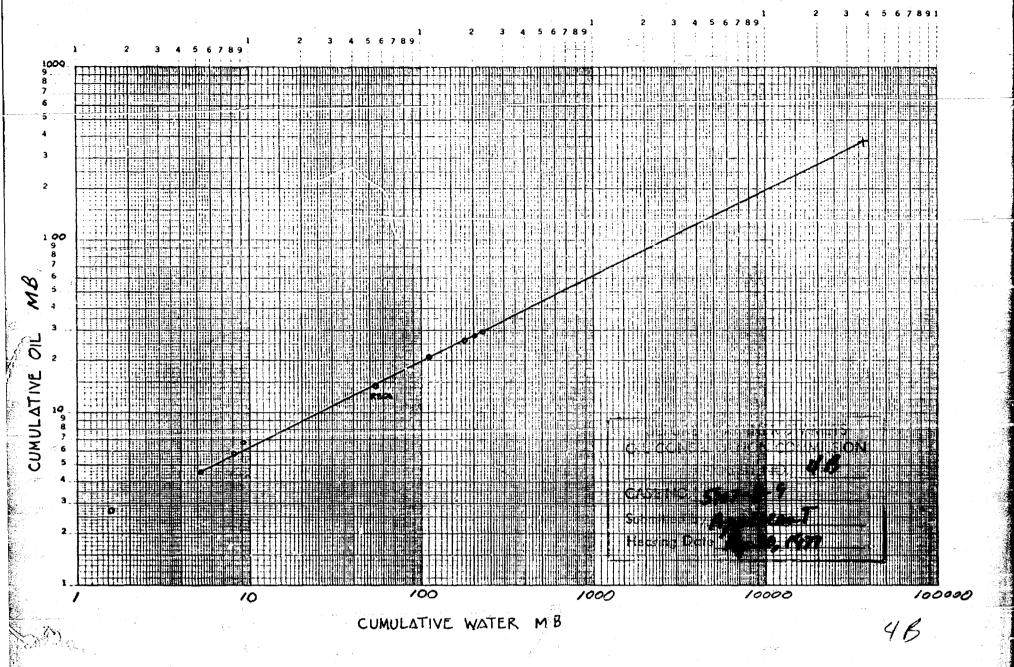
FEDERAL 13 C-1



CUMULATIVE WATER - MB

4A

FEDERAL 14C-1 EAGLE MESA



300

40

THE PERMIAN CORPORATION

P. O. BOX 1702

FARMINGTON, NEW MEXICO 87401

PHONE 325.7361

March 15, 1977

Dome Petroleum Corporation 1500 Colorado State Bank Building Denver, Colorado 80202

ATTENTION: Mr. Bill Babyak

Dear Bill,

In response to your inquiry about future market potential for Entrada crude, I would like to make the following comments:

Plateau has assured me that they will be able to take all production from Dome Petroleum by May 15, 1977. There are several other people that have been asking for some of this crude. The local market will be real firm in the future.

Yours very truly,

W.R. Crabtree
THE PERMIAN CORPORATION

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO.

CASE NO.

Submitted by Application
Hearing Date Application
1423

NEW MEXICO OIL CONSERVATION COMMISSION APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

Form C-109 Adopted 9-1-68

NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 509.

If discovery is claimed for more than one zone, separate forms must be filed for each.

8

ease Name	oleum Corp			Well No.	1300,	1600 Broad	way, i	Jenver,	<u> 802</u>	:02
Santa Fe-	and Pacif	c kairo	ad 20	26-	-1	San Jua	n :			
Unit Letter	3	1800		Feet fr	om The _	North	_ Line ar	nd2	110	Feet
From the EdSt			20 . Township	- 21N	<u> </u>	, Romge	8W		, NN	4PM
. Snake Eyes	Entrada	2.				3.		Data of E	ling Form C-1	
Entrada		5604	-12							19
Was "Affidavit of Discove For This Well in this Poo	ery!" Préviously bl? :NO	Filed If Yes	s, Give Date of Fili	ng	i	II was Spudded Iarv 19, 19	77		ol. Ready to P lary 10.	rod 1.0
Total Depth 5814	Plucged Ba	ck Depth	Depth Casing	Shoe	Tubing [Depth	Elevat	ion (Gr., D	F. RKB, RT.	etc.
011 Well Potential (Test t	5718' to be taken only	after all load	oil has been recov	ered)]3	3012'	6567	GR, 6	569 KB	
231Bbls, C	Dil Per Day Bas	ed On23		<u>4</u> но	urs;	() Bbls Wate	r Per Day	Based On	0	ВЫ
In 24 Hou	ırs; Gas Produc	tion During Te	est: TSTM N	Gas ACF; Rat	-OII Io: TST	Method Of Producing	Flow	Chi Siz		H -
EAREST PRODUCTION I or vertical separation):	TO THIS DISCO	VERY (Includ	es past and present	oil or gas	producin	g areas and zones	whether	this disco	very is based	C
Pool Name	***	Name of Frodu	cing Formation	Top o	(Pay	Bottom	of Pay	ľ	currently Prod	ec4
Snake Eyes Bake forizantal Distance and I Negrest Well in this Pool	Direction from S	Dakoti Subject Discov			78.	469 re from Subject D		Zone to Pr	NO oducing interv	rai i
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Pool Name Ojo Encir	<u> </u>			Торо		.	of Pay	K	Decrently Prod	eck.
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District Engineer

Position

4-7-77 Date

William E Survel

Rock and Fluid Properties Snake Eyes Entrada Pool

Depth (avg) 5600 feet

Porosity 24.9%

Permeability 665 md (core to air)

Reservoir Pressure 2362 psig

Gradient .422

Reservoir Temperature 152° F.

0il Gravity 0 60° F. 29.3° API

Oil Viscosity @ Res Temp 9 cp (correlation)

0il Pour Point 70° F.

Gas in Solution nil

Water Salinity (Dis Solids) 11,114 PPM

Water Viscosity @ Res Temp .5 cp (est)

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION

EXHIBIT NO.

CASE NO. 5407-8-9

Submitted by Analysis

Hearing Date

CASE 5905: (This Case will be continued to the May 11, 1977, Examiner Hearing)

Application of Palmer Oil & Cas Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Mesaverde and Dakots formations underlying the W/2 SE/4 and the E/2 SW/4 of Section 3, and the NW/4 of Section 10, and all mineral interests in the Pictured Cliffs and Fruitland formations underlying the NW/4 of Section 10. all in Township 31 North, Range 7 West, San Juan County, New Mexico; to be dedicated to a well to be drilled 1800 feet from the North line and 850 feet from the West line of said Section 10. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5906: (This Case will be continued to the May 11, 1977, Examiner Hearing)

Application of Pelmer Oil & Cas Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Mesaverde and Dakota formations underlying the W/2 SW/4 of Section 2, the E/2 SE/4 of Section 3, and the NE/4 of Section 10, all in Township 31 North, Range 7 West, San Juan County, New Mexico, to be dedicated to a well to be drilled 1525 feet from the North line and 1850 feet from the East line of said Section 10. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

Application of Dome Petroleum Corporation for a special depth bracket allowable, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a special depth bracket allowable of 750 barrels of oil per day for the Papers Wash-Entrada Oil Pool, McKinley County, New Mexico.

Application of Dome Petroleum Corporation for a special depth bracket allowable, McKinley County, CASE 5908: New Mexico. Applicant, in the above-styled cause, seeks the establishment of a special depth bracket allowable of 750 barrels of oil per day for the Ojo Encino-Entrada Oil Pool, McKinley County, New Mexico.

CASE 5909: Application of Dome Petroleum Corporation for pool creation and special depth bracket allowable, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the Snake Eyes-Entrada Oil Pool in Section 20, Township 21 North, Range 8 West, San Juan County, New Mexico, and the establishment of a special depth bracket allowable of 750 barrels of oil per day for said pool.

Application of Yates Petroleum Corporation for gas pool creations and downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of three Pennsylvanian gas pools in Townships 17 and 18 South, Ranges 24, 25, and 26 East, Eddy County CASE 5910: New Merico, including the Richard Knob- and East Eagle Creek-Lower Penn Gas Pools with provisions in each for commingling Strawn, Atoka, and Morrow production in the wellbores of wells drilled therein, and the Eagle Creek Permo-Penn Gas Pool with provision for commingling Wolfcamp, Cisco, Canyon, and Strawn production in the wellbores of wells drilled therein.

CASE 5898: (Continued from April 6, 1977, Examiner Hearing)

Application of Chace Oil Company for downhole commingling, Rio Arriba County, New Mexico Applicant, in the above-styled cause, seeks approval for the downhole commingling of Ballard-Pictured Cliffs and South Lindrith Gallup-Dakota production in the wellbore of its Jicarilla 70 Well No. 3 located in Unit C of Section 33, Township 24 North, Range 4 West, Rio Arriba County, New Mexico. In the alternative, applicant seeks authority to commingle said production at the surface without prior measurement and waiver of the gas-oil ratio test requirement

CASE 5911: Application of Odessa Natural Gas Company for special pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the adoption of special pool rules for the Chacon-Dakota Oil Pool, Rio Arriba County, New Mexico, to provide for 160-acre spacing for oil wells and for reclassification of wells from oil to gas and the removal of such gas wells to the Basin-Dakota Pool.

CASE 5907:

WHITE, KOCH, KELLY C McCARTHY

March 31, 197

Mr. Joe D. Ramey
Secretary-Director
New Mexico Oil Conservation
Commission
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Enclosed find original and two copies of three applications on behalf of Dome Petroleum Company for a special depth bracket allowable on 750 barrels per day in the Ojo Encino-Entrada Oil Pool, Papers Wash-Entrada Oil Pool and the Snake Eyes-Entrada Oil Pool which we are also asking to be created.

These applications were orally submitted to Mr. Stamets earlier this week so they could be on the April 20th docket hearing. I have requested that Dome Petroleum Company send the various exhibits directly to the Commission in support of these applications.

Sincerely,

Bria Kell BOOKER KELLY

BK:mjq Enclosures

> L. C. White Summer S. Hoch William Boother McPy John F. McCourty, & Kenneth Bottom Benjamin Profiles

C. Emery Culde & Larry C. Man

Attorneys and Counselors at Law

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF DOME PETROLEUM CORPORATION FOR
A SPECIAL DEPTH BRACKET ALLOWABLE
OF 750 BARRELS PER DAY FOR THE PAPERS
WASH - ENTRADA OIL POOL, MCKINLEY
COUNTY, NEW MEXICO

APPLICATION

COMES NOW Dome Petroleum Corporation by and through its attorneys, White, Koch, Kelly & McCarthy and in support of its application, states:

- Applicant is the operator and has drilled and is currently producing oil in the Papers Wash - Entrada Pool from the following wells located in Township 19 North, Range 5 West, McKinley County, New Mexico.
- (a) Dome Federal 15-1, 2210 feet from the north line, and 1650 feet from the west line, Section 15.
- (b) Dome Federal 15-2 located 990 feet from the west line, 1980 feet from the north line, Section 15.
- (c) Navajo allotted 15-3 located 2000 feet from the west line and 2310 feet from the south line, Section 15.
- (d) Navajo allotted 15-4, 990 feet from the west line, 2310 feet from the south line, Section 15 (currently drilling).
- (e) Navajo allotted 22-a-1 located 700 feet from the north line and 1650 feet from the west line, Section 22.
- 2. Reservoir conditions governing production in the Papers
 Wash Entrada Oil Pool are such that high production rates will
 promote greater operational and recovery efficiency. That the
 wells listed above have the potential to produce in excess of
 the normal allowable without waste and, therefore, applicant

requests a special depth allowable allowing a total of 750 barrels per day be assigned to the Papers Wash - Entrada Pool.

Approval of the application will result in the recovery of pil that would not otherwise be recovered and will prevent waste and protect correlative rights.

WHEREFORE applicant requests that this matter be set down for hearing and that the Commission enter its order granting the application as requested.

WHITE, KOCH, KELLY & McCARTHY

By:<u>○ | | / |</u>

BOOKER KELLY

Attorneys for Dome Petroleum Corporation

P. O. Box 787

Santa Fe, New Mexico 87501

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF DOME PETROLEUM CORPORATION FOR A SPECIAL DEPTH BRACKET ALLOWABLE OF 750 BARRELS PER DAY FOR THE PAPERS WASH - ENTRADA OIL POOL, McKINLEY COUNTY, NEW MEXICO

APPLICATION

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- 1. Applicant is the operator and has drilled and is currently producing oil in the Papers Wash Entrada Pool from the
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- 2. Reservoir conditions governing production in the Papers Wash Entrada Oil Pool are such that high production rates will promote greater operational and recovery efficiency. That the wells listed above have the potential to produce in excess of the normal allowable without waste and, therefore, applicant

requests a special depth allowable allowing a total of 750 barrels per day be assigned to the Papers Wash - Entrada Pool.

Approval of the application will result in the recovery of pil that would not otherwise be recovered and will prevent waste and protect correlative rights.

WHEREFORE applicant requests that this matter be set down for hearing and that the Commission enter its order granting the application as requested.

WHITE, KOCH, KELLY & McCARTHY

BOOKER KELLY
Attorneys for Dome Petroleum
Corporation
P. O. Box 787

Santa Fe, New Mexico 87501

Phone in Papplication 3) Booker Kelly 3-28-77

(1) Repl of Dome Petro loin Corporation for De special Hopth brocket allowable Mcking County, NM. Replicant in the above styled cause socks the establishment of a special depth bracket allowable of 750 bornets of oil par day for the Pears Works Cutin la Peal, Mc Kinky County, No.

(2) As above for Ojo Encingo-Enthale Oil Pool, Mc Kinky County, New Magico.

(3) Application of P Capperint of por pool creation and special depth brushet allowable Maries Replicated the above styled capse sorges

The courties of a proposition of the product on of oil from the Cartain formation of a pool from the Cartain formation of the Sorge for Santism 20,

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Thomas is 21 North Banga 8 2005.

San Jum Market Grant New Mexica. He applicant further see he than applicant further see he than a stable of a special depth bracket allowable of 760 borns is of oil par day for soid San he Core Cartain de Oil Post.

dr/

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. 5907

Order No. R-54/9

APPLICATION OF DOME PETROLEUM CORPORATION FOR A SPECIAL DEPTH BRACKET ALLOWABLE, MCKINLEY COUNTY, NEW MFXICO.

ORDER OF THE COMMISSION

YA.

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 20 , 19 77 , at Santa Fe, New Mexico, before Examiner Richard L. Stamets

NOW, on this day of April , 1977 , the Commission, a quorum being present, 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, Dome Petroleum Corporation, seeks a special depth bracket allowable of 750 barrels per day for the Papers Wash-Entrada Cil Pool, McKinley County, New Mexico.
- (3) That the wells in said Papers Wash-Entrada Oil Pool ***

 product large volumes of oil and worker.
 - (4) That if such wells are shut in, because of allowable restriction or any other reason, water production increases and oil production decreases substantially.

-2-Case No. 5907 Order No. R-

(H) That wells in said pool are not rates of production has adversely affected by high rates of production but an instead improved thereby.

- (6) That approval of the application should serve to prevent waste and will not violate correlative rights.
 - (b) That the subject application should be approved.

IT IS THEREFORE ORDERED:

- That bome Petroleum Comparation a special depth bracket allowable of 750 barrels of oil per day is here by es % blished for the Papers Wash-Entrada Oil Pool, McKinley County, New Mexico
- 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 hereinabou designated.

CASE 5908: DOME PETROLEUM CORPORATION
FOR A SPECIAL DEPTH BRACKET ALLOWABLE,
MAKINLEY COUNTY, NEW MEXICO