

Case 6459: DOME PETROLEUM CORP. FOR
POOL CREATION, AN OIL DISCOVERY ALLOW-
ANCE, AND A SPECIAL DEPTH BUCKET
COWBLE, SAN JOSE COUNTY, NEW MEXICO

16
continued to
be purchased

Case Number

6059

Application

Transcripts.

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
November 16, 1977

EXAMINER HEARING

IN THE MATTER OF:

Application of Dome Petroleum Corpor-) CASE
ation for a pool creation, and oil) 6059
discovery allowable, and a special depth)
allowable, San Juan County, New Mexico.)

BEFORE: Richard L. Stamets, Examiner.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil Lynn Teschendorf, Esq.
Conservation Commission: Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

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General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

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1 MR. STAMETS: At this time I'll call Case 6059.

2 MS. TESCHENDORF: Case 6059, application of Dome
3 Petroleum Corporation for pool creation, an oil discovery
4 allowable, and a special depth bracket allowable, San Juan
5 County, New Mexico.

6 MR. BATEMAN: Mr. Examiner, I am Ken Bateman,
7 White, Koch, Kelly & McCarthy, and I have the same witness
8 that we had in the previous case.

9 MR. STAMETS: Let the record show that this witness
10 has been previously sworn and qualified.

11
12 WILLIAM BABYAK

13 was called as a witness by the applicant, and having been
14 first duly sworn, testified upon his oath as follows, to-wit:

15
16 DIRECT EXAMINATION

17 BY MR. BATEMAN:

18 Q Mr. Babyak, would you state briefly what Dome
19 expects by its application in Case 6059?

20 A Dome Petroleum Corporation is requesting a new
21 pool designation and assignment of discovery allowable and
22 a special depth bracket allowable of seven hundred and fifty
23 barrels of oil a day for the Santa Fe Leggs No. 1 Well located
24 in Section 11, Township 21 North, Range 10 West.

25 The existing depth bracket allowable for this well

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1 is one hundred and seven barrels of oil a day. We are
2 requesting the pool be designated as the Lake Entrada Pool
3 and encompass the entire Section 11 of Township 21 North,
4 Range 10 West.

5 The proposed Leggs Field produces high pour point
6 thirty-two and a half degree A.P.I. gravity oil from the highly
7 porous and permeable Jurassic Entrada Formation. Previously,
8 the Commission has granted the special depth bracket
9 allowable to the other five producing Entrada Pools, Eagle
10 Mesa, Media, Papers Wash, Snake Eyes and Ojo Encino, all to
11 the east of the field in question.

12 The thrust of this testimony will be toward
13 demonstrating the following:

14 One, the similarity of rock and fluid properties
15 between the proposed Leggs Entrada Field and the Papers
16 Wash Entrada Pool.

17 Two, evidence in Papers Wash that increased rates
18 do not impair ultimate recover, in fact, may improve
19 it.

20 Three, sufficient market exists for all Entrada
21 Crude produced by this field at this time or in the
22 future.

23 Q Would you proceed with what has been marked as
24 Exhibit Number One and identify the well location and the
25 -- identify the acreage surrounding it, please?

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1 A. Okay. Exhibit One is a location and acreage map
2 of the proposed Lake Entrada Pool.

3 As you can see, I have highlighted the location of
4 the Santa Fe Leggs No. 1 in Section 11 of Township 21 North,
5 Range 10 West.

6 The specific location is nine hundred and ninety
7 feet from the south line and twenty-three hundred and ten
8 feet from the east line of Section 11.

9 In addition within a two mile radius of Section 11
10 the acreage ownership and the other wells drilled in this
11 area are shown and I would like to stress to the best of
12 my knowledge there are no other wells within a two-mile
13 radius of the proposed discovery well.

14 Q Would you proceed to Exhibit Two and describe the
15 horizontal extent of the new pool?

16 A Exhibit Two is a structure map on top of the
17 Entrada formation of the proposed Leggs Entrada Pool.

18 You can see the location of the well that if the
19 well is drilled on top of the structure -- you can see just
20 a very minor amount of structural closure there.

21 Dome does plan in early 1978, to drill additional
22 development wells in this section. Therefore, that is why
23 we are asking that this section be designated as the pool.

24 Q Would you proceed, then, with Exhibit Number Three
25 and describe the proposed vertical extent of the new pool?

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1 A. Exhibit Number Three is a dual induction lateral
2 log which is run on the open hole portion of the Santa Fe
3 Leggs No. 1 during drilling.

4 What I would like to point out with it is the top
5 of the Entrada formation is roughly fifty-four oh four sub-
6 sea and the perforations are from fifty-four oh four to
7 fifty-four twelve.

8 As I said before there are no other wells producing
9 within a two-mile radius or have ever been drilled within a
10 two-mile radius of the well.

11 Therefore, this shows the vertical limits of the
12 pool which would be the top of the Entrada, fifty-four oh
13 four.

14 Q Would you refer, then, to Exhibit Number Four which
15 is a Form C-109 and describe the initial potential of the
16 well?

17 A. Okay. Exhibit Four is Form C-109 Application for
18 Discovery Allowable on Creation of a New Pool. We are
19 requesting that this pool be designated as Leggs and the
20 initial potential on this well is two hundred and thirty-
21 four barrels of oil per day and thirty-one barrels of water
22 a day based on an eighteen hour test.

23 Something else I would like to point out here is
24 the nearest production to this discovery and the nearest
25 comparable production to this discovery well are one and the

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1 same and it is the Snake Eyes Entrada Pool which is operated
2 by Dome Petroleum which is situated approximately nine and
3 a quarter miles east of the proposed Leggs No. 1 Well.

4 Q Proceed, then, with Exhibit Number Five and
5 describe the rock and fluid properties?

6 A Exhibit Number Five is a Rock and Fluid Properties
7 comparison of the Leggs Field as compared to the Papers
8 Wash Entrada Pool.

9 As can be seen the depth ranges approximately
10 the same. There are two hundred and forty feet of difference.

11 The porosity is high in both. In the case of the
12 Leggs, twenty-five point four percent, log; and in the case
13 of the Papers Wash, twenty-six point one percent, log.

14 Permeability in both cases are high, approximately
15 three hundred millidarcies in the Papers Wash and six hundred
16 and eighty millidarcies in the Leggs Field.

17 The reservoir pressure, again, just because of the
18 depth it is with the same range, twenty-one hundred and
19 twenty in the Papers Wash; and twenty-three fifty-two in the
20 Leggs.

21 The gradient, point four-one versus point four-
22 three.

23 The reservoir temperature are within two degrees;
24 one hundred and fifty-two degrees at Papers Wash and one
25 hundred and fifty-three at the Leggs Pool.

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1 The oil, essentially, at least according to the
2 Permian Corporation, is the same oil; thirty-two and a half
3 A.P.I. gravity with the same pour point of seventy-five
4 degrees.

5 Gas in solution too small to measure, nil.

6 Water salinity, we haven't gotten any on Leggs
7 but it is three thousand and ten for the Papers Wash.

8 Water viscosity, again, about the same, point
9 four-seven for the Papers Wash and point five for the
10 Leggs.

11 Q How is the well currently being produced?

12 A The well is currently pumping approximately eighty-
13 five barrels of oil a day and about three hundred barrels of
14 water.

15 We won't need a seven hundred fifty barrel allowable
16 immediately. However, we do have electrical construction
17 going into the field and we do plan in about the second
18 quarter, possibly as early as in March of 1978, to have this
19 field on high volume lift, Rita Pump, at which time we feel
20 that the well will be capable of making between three hundred
21 to three hundred and fifty barrels of oil a day.

22 Q You mentioned, then, that you are requesting a
23 special depth bracket allowable, is that correct?

24 A Yes.

25 Q Of seven hundred and fifty barrels?

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1 A Yes.

2 Q Is there a market for the increased oil production
3 in that area?

4 A Yes, there is. I have been assured by the
5 Permian Corporation, who is taking our crude oil, that they
6 will be able to take all of our oil at this time and any
7 increased production either from higher flow rate from this
8 well or additional wells in the future.

9 Q Would you proceed, then, with Exhibit Number Six
10 and describe it, please?

11 A Exhibit Number Six is a plot of cumulative oil
12 production versus cumulative water production on the Dome
13 Federal 15-1 located in the Papers Wash Field, McKinley
14 County, New Mexico.

15 This is a log plot of cum oil versus cum water.
16 What I would like to point out with it, the point at which
17 the seven hundred fifty barrel a day allowable was granted
18 to the 15-1, which was I believe May 1 of this year, as can
19 be seen there has been no damaging effect of the higher
20 allowable and the higher production rates from this well on
21 what we would consider the ultimate recovery of this well.

22 In fact, if you want to get a little artistic, you
23 can say that the curve has gone up and we will increase
24 ultimate recovery.

25 Q Based on the information available to you do you

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1 expect that there would be any adverse affect on the ultimate
2 oil recovery on the well in the new pool?

3 A No. I can see no adverse affect on ultimate
4 recovery.

5 Q In your opinion would the granting of this
6 application prevent waste and protect correlative rights?

7 A Yes, it would.

8 Q Were Exhibits One through Six prepared by you or
9 under your direction?

10 A Yes, they were.

11 MR. BATEMAN: We offer Exhibits One through Six at
12 this time.

13 MR. STAMETS: Exhibits One through Six will be
14 admitted.

15
16 CROSS EXAMINATION

17 BY MR. STAMETS:

18 Q Mr. Babyak, I believe you indicated you were
19 expecting three hundred to three hundred and fifty barrels
20 of oil a day from this well?

21 A Yes, sir.

22 Q Under those circumstances why did you feel you need
23 a seven hundred and fifty barrel depth bracket allowable?

24 A Well, our experience particularly in the Papers
25 Wash shows that one well will produce better in a certain

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1 pool than another well.

2 To give you an example, the Papers Wash even being
3 on pump right now -- our Navajo 15-4 is making about five
4 hundred barrels of oil a day and this is on beam pump.

5 Whereas, let's say the Dome Federal 15-2 is maybe
6 making a hundred and twenty barrels a day. So, on a pool
7 basis possibly the Leggs won't make seven hundred and fifty
8 but possibly the Leggs No. 2 will.

9 Q You are the operator in the Papers Wash and
10 the Snake Eyes?

11 A Yes.

12 Q And both of these have a seven hundred fifty barrel
13 special depth bracket allowable?

14 A Yes, they do.

15 Q Do you have any wells in either of those two pools
16 that may go much lower?

17 A No. I would like to qualify that, Mr. Examiner. We
18 do not have those fields electrified at this time. Papers
19 Wash will be electrified the first of the year. We are
20 proceeding with that.

21 Even in that case we figure a seven hundred fifty
22 barrel a day allowable, like on the 15-4, we will probably
23 produce that well twelve or thirteen days a month and then
24 shut it in even with the seven hundred and fifty.

25 Q How do you expect to handle these large volumes of

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1 water produced?

2 A. We have plans for sub-surface disposal of the
3 water.

4 MR. STAMETS: Are there any other questions of
5 the witness? Let's see, you did request the assignment of the
6 discovery allowable in this case?

7 MR. BATEMAN: Yes, sir.

8 MR. STAMETS: And that amounts to twenty-seven
9 thousand twenty barrels.

10 What do you feel should be the limits of this pool?
11 What should be established, the forty acres that it is on or
12 do you feel this entire southeast quarter of this section
13 is going to be productive?

14 THE WITNESS: Mr. Examiner, I would beg the Commission
15 to refer to Exhibit Number Two. We are asking for the entire
16 Section 11 based on our plan for development drilling for this
17 pool in early 1978. Everything in red on Exhibit Two.

18 MR. STAMETS: Any other questions of the witness?
19 He may be excused. Anything further in this case? We will
20 take the case under advisement.

21 (THEREUPON, the witness was excused and the
22 case was concluded.)
23
24
25

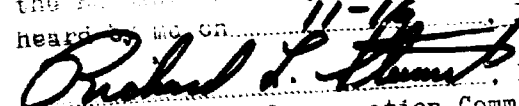
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REPORTER'S CERTIFICATE

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.

I do hereby certify that the foregoing is
a correct copy of the proceedings in
the hearing of Case No. 6057
heard by me on 11-16-72 19 72
 Examiner
New Mexico Oil Conservation Commission

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
12 October, 1977

EXAMINER HEARING

IN THE MATTER OF:

Application of Dome Petroleum Corpora-
tion for pool creation, an oil disco-
very allowable, and a special depth
bracket allowable, San Juan County, New
Mexico.

CASE
6059

BEFORE: Richard L. Stamets.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

Lynn Teschendorf, Esq.
Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

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General Court Reporting Service
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Phone (505) 982-9212

1 MR. STAMETS: Call Case Number 6059.

2 MS. TESCHENDORF: Application of Dome Petroleum
3 Corporation for pool creation, an oil discovery allowable,
4 and a special depth bracket allowable, San Juan County, New
5 Mexico.

6 The applicant has requested that this be contin-
7 ued to the November 16th Examiner Hearing,

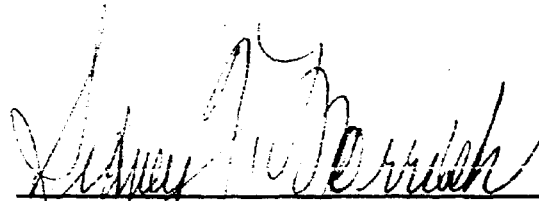
8 MR. STAMETS: Case 6059 will be so continued.

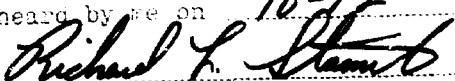
9 (Hearing concluded.)
10
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25

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Phone (505) 982-9212

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.

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 6059
heard by me on 10-17, 1977
, Examiner
New Mexico Oil Conservation Commission

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General Court Reporting Service
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Phone (505) 982-9212



OIL CONSERVATION COMMISSION

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



DIRECTOR
JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO

STATE GEOLOGIST
EMERY C. ARNOLD

Mr. Kenneth Bateman
White, Koch, Kelly & McCarthy
Attorneys at Law
P. O. Box 787
Santa Fe, New Mexico

Re: CASE NO. 6059
ORDER NO. R-5600


Applicant:

Dome Petroleum Corporation

Dear Sir:

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

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC	<u>X</u>
Artesia OCC	<u>X</u>
Aztec OCC	<u>X</u>

Other _____



OIL CONSERVATION COMMISSION

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



DIRECTOR
JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO

STATE GEOLOGIST
EMERY C. ARNOLD

December 27, 1977

Mr. Ken Bateman
Attorney
220 Otero
Santa Fe, N. M. 87501

Re: CASE NO. 6059
ORDER NO. R-5600

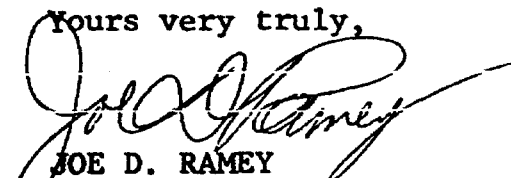
Applicant:

Dome Petroleum Corp.

Dear Sir:

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

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC X
Artesia OCC
Aztec OCC X

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. 6059
Order No. R-5600

NOMENCLATURE

APPLICATION OF DOME PETROLEUM CORPORATION
FOR POOL CREATION, AN OIL DISCOVERY ALLOWABLE
AND A SPECIAL DEPTH BRACKET ALLOWABLE,
SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 16, 1977, at Santa Fe, New Mexico, before Examiner Richard L. Stanets.

NOW, on this 27th day of December, 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, is the owner of the Santa Fe-Leggs Well No. 1, located in Unit O of Section 11, Township 21 North, Range 10 West, NMPM, San Juan County, New Mexico.
- (3) That said well was completed as an oil well capable of producing from the Entrada formation on August 13, 1977, through perforations from 5404 feet to 5412 feet.
- (4) That the applicant seeks the creation of a new pool for Entrada production for said well, and the assignment of an oil discovery allowable in the amount of 27,020 barrels of oil to said well.
- (5) That said well has in fact made discovery of a new oil pool, and is entitled to the assignment of such discovery allowable.
- (6) That a new pool in San Juan County, New Mexico, should be created and defined, classified as an oil pool for Entrada

-2-

Case No. 6059
Order No. R-5600

production, and designated as the Leggs-Entrada Oil Pool, comprising the following-described lands:

TOWNSHIP 21 NORTH, RANGE 10 WEST, NMPM
Section 11: All

(7) That the discovery well for said pool, the Dome Petroleum Corporation Santa Fe-Leggs Well No. 1, located in Unit 0 of said Section 11, should be assigned an oil discovery allowable in the amount of 27,020 barrels to be produced in addition to the well's regularly assigned allowable during the next 730 days.

(8) That the applicant further seeks the establishment of a special depth bracket allowable of 750 barrels per day for said Leggs-Entrada Oil Pool.

(9) That the well completed in the Leggs-Entrada Oil Pool is capable of producing large volumes of oil and water.

(10) That the ultimate recovery of oil in said pool will not be adversely affected by high rates of production but will instead be improved thereby.

(11) That approval of the application should serve to prevent waste and protect correlative rights.

(12) That the subject application should be approved.

IT IS THEREFORE ORDERED:

(1) That a new pool in San Juan County, New Mexico, classified as an oil pool for Entrada production, is hereby created and designated as the Leggs-Entrada Oil Pool, consisting of the following described area:

TOWNSHIP 21 NORTH, RANGE 10 WEST, NMPM
Section 11: All

(2) That the discovery well for said pool, the Dome Petroleum Corporation Santa Fe-Leggs Well No. 1, located in Unit 0 of said Section 11, is hereby assigned an oil discovery allowable in the amount of 27,020 barrels, to be produced in addition to said well's regularly assigned allowable, at the rate of approximately 37 barrels per day during the next 730 days.

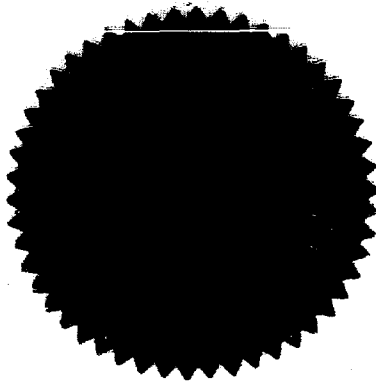
(3) That effective January 1, 1978, a special depth bracket allowable of 750 barrels of oil per day is hereby established for said Leggs-Entrada Oil Pool.

-3-
Case No. 6059
Order No. R-5600

(4) 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 hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



PHIL R. LUCERO, Chairman

Emery C. Arnold
EMERY C. ARNOLD, Member

Joe D. Ramey
JOE D. RAMEY, Member & Secretary

S E A L

jr/

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

Form C-109
 Adopted 9-1-66

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.

Operator Dome Petroleum Corp.		Address 1600 Broadway, Suite 1500 Denver, Colo. 80202	
Lease Name Santa Fe - Leggs		Well No. 1	County San Juan
Well Location Unit Letter 0 ; 990 Feet from The South Line and 2310 Feet From the East Line of Section 11 , Township 21N , Range 10W , NMPM			
Suggested Pool Names (List in order of preference) 1. Leggs 2. Mockingbird 3. Escavada			
Name of Producing Formation Entrada		Perforations 5404-5412'	
Was "Affidavit of Discovery" Previously Filed For This Well in this Pool? No		Date of Filing Form C-104 August 17, 1977	
Total Depth 5644'		Plugged Back Depth 5588'	Date Well was Spudded 7-16-77
Depth Casing Shoe 5630'		Tubing Depth 3046'	Elevation (Gr., DF, RKB, RT, etc.) 6359 Gr, 6371 KB
Oil Well Potential (Test to be taken only after all load oil has been recovered) 234 Bbls. Oil Per Day Based On 176 Bbls In 18 Hours; 31 Bbls Water Per Day Based On 23 Bbls In 18 Hours; Gas Production During Test: TSTM MCF; Gas-Oil Ratio: - Method Of Producing: Pump Chk. Size -			

NEAREST PRODUCTION TO THIS DISCOVERY (Includes past and present oil or gas producing areas and zones whether this discovery is based on horizontal or vertical separation):

Pool Name Snake Eyes Entrada	Name of Producing Formation Entrada	Top of Pay 5604'	Bottom of Pay 5634'	Currently Producing? Yes
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Pool 9 1/2 miles east		Vertical Distance from Subject Discovery Zone to Producing Interval this Pool		

NEAREST COMPARABLE PRODUCTION (Includes past and present oil or gas production from this pay or formation only):

Pool Name Snake Eyes Entrada	Top of Pay 5604'	Bottom of Pay 5634'	Currently Producing? Yes
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Comparable Pool 9 1/2 miles east			

Is "County Deep" Discovery Allowable Requested for Subject Discovery Well? No	If Yes, Give Name, Location, and Depth of Next Deepest Oil Production in this County
---	--

Is the Subject Well Multiple Completion? No	Is Discovery Allowable Requested for other Zone(s)? No	If Yes, Name all Such Formations
---	--	----------------------------------

LIST ALL OPERATORS OWNING LEASES WITHIN ONE MILE OF THIS WELL (Attach additional sheet if necessary)

NAME	ADDRESS
Gulf Energy Minerals	P.O. Drawer 1150, Midland, Texas 79701
<div style="position: relative; width: 100%; height: 100%;"> 54040 27020 <div style="position: absolute; top: 60%; left: 60%;"> <p align="center">BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION EXHIBIT NO. 4 CASE NO. 6059 Filed by Applicant Filing Date 11-16-77</p> </div> </div>	

Attach evidence that all of the above operators have been furnished a copy of this application. Any of said operators who intends to object to the designation of the subject well as a discovery well, eligible to receive a discovery allowable, must notify the appropriate District Office and the Santa Fe Office of the Commission of such intent in writing within ten days after receiving a copy of this application.

Remarks:

CERTIFICATION

I hereby certify that all rules and regulations of the New Mexico Oil Conservation Commission have been complied with, with respect to the subject well, and that it is my opinion that a bona fide discovery of a hitherto unknown commercial source of oil supply has been made in said well. I further certify that the discovery allowable for the subject well, if authorized, will be produced from the subject zone in this well only. Further, that the information given herein and attached hereto is true and complete to the best of my knowledge and belief.

Signature _____ District Engineer	Date September 6, 1977 Date
--------------------------------------	---------------------------------------

Rock and Fluid Property Comparison

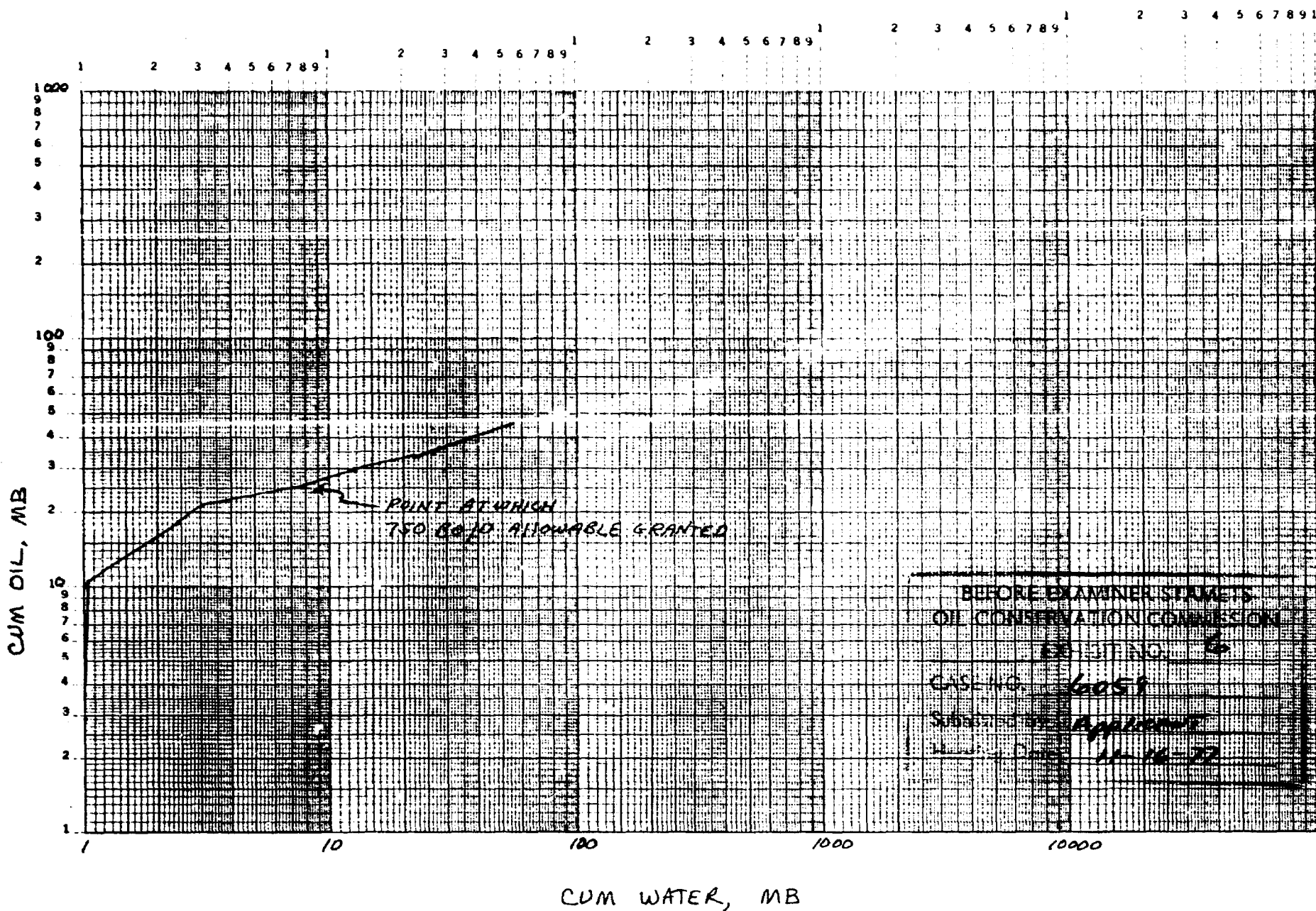
	<u>Papers Wash</u>	<u>Leggs Field</u>
Depth (avg), feet	5160	5400
Porosity, %	26.1 (log)	25.4 (log)
Permeability, mds	290 (buildup to Oil)	679 (buildup to Oil)
Reservoir Pressure, psig	2120	2352
Gradient, psi/ft	.41	.43
Reservoir Temperature, °F.	152	150
Oil Gravity @ 60°F., °API	32.5	32.5
Oil Pour Point, °F.	75	75
Gas in Solution, SCF/STB	nil	nil
Water Salinity (Dis Solids), PPM	3010	N/A
Water Viscosity @ Res. Temp., cp.	.47	.5

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	5
CASE NO.	6059
Submitted by	Applicant
Hearing Date	11-16-77

DOME FEDERAL 15-1
SEC. 15-T19N-R5W

PAPERS WASH
MCKINLEY CO. N.M.

CUM OIL VS CUM WATER CURVE



Dockets Nos. 33-77 and 34-77 are tentatively set for hearing on October 26 and November 9, 1977. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 12, 1977

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:

- ALLOWABLE:** (1) Consideration of the allowable production of gas for November, 1977, from fifteen prorated pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico.
- (2) Consideration of the allowable production of gas for November, 1977, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

CASE 6053: (Continued & Readvertised)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Noel Reynolds and all other interested parties to appear and show cause why the Torreon Water Well No. 1, located in Unit J of Section 21, Township 18 North, Range 3 West, Sandoval County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 6025: (Continued & Readvertised)

Application of Roger C. Hanks for a special gas-oil ratio limitation, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a special gas-oil ratio limitation of 10,000 cubic feet of gas per barrel of oil for the North Dagger Draw-Upper Pennsylvanian Pool, Eddy County, New Mexico, retroactive to August 22, 1977.

CASE 6052: (Continued from September 28, 1977, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Western Energy Corporation and all other interested parties to appear and show cause why the Ute Well No. 2 located in Unit O of Section 23, Township 31 North, Range 16 West, San Juan County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 6055: (Continued from September 28, 1977, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Han-San, Inc., and all other interested parties to appear and show cause why the Grevey Well No. 4 located in Unit E of Section 26, Township 26 North, Range 1 East, Rio Arriba County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 6057: Application of Aminoil USA Inc., for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Willow Lake Well No. 3 to be located 1980 feet from the South line and 1940 feet from the West line of Section 15, Township 24 South, Range 28 East, Willow Lake Field, Eddy County, New Mexico, the S/2 of said Section 15 to be dedicated to the well.

CASE 6058: Application of Atlantic Richfield Company for the amendment of Order No. R-5430, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-5430, which order approved an unorthodox Justis-Fusselman location for its Wimberly WN Well No. 11 in Section 24, Township 25 South, Range 37 East, Lea County, New Mexico. Applicant now requests that the unorthodox location for said well be extended to include the Montoya formation.

CASE 6059: Application of Dome Petroleum Corporation for pool creation, an oil discovery allowable, and a special depth bracket allowable, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the Leggs-Entrada Oil Pool in Section 11, Township 21 North, Range 10 West, San Juan County, New Mexico, the assignment of approximately 77,020 barrels of oil discovery allowable to its Santa Fe-Leggs Well No. 1 located in Unit O of said Section 11, and the establishment of a special depth bracket allowable of 750 barrels of oil per day for said pool.

CASE 6060: Application of J. Cecil Rhodes for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Blinbry formation into the perforated interval from 5252 feet to 5448 feet in his Corrigan Well No. 1 located in Unit M of Section 11, Township 25 South, Range 37 East, Justis-Blinbry Pool, Lea County, New Mexico.

Dockets Nos. 38-77 and 39-77 are tentatively set for hearing on November 30 and December 14, 1977. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 16, 1977

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:

- ALLOWABLE:** (1) Consideration of the allowable production of gas for December, 1977, from fifteen prorated pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico.
- (2) Consideration of the allowable production of gas for December, 1977, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

CASE 6079: Application of Dome Petroleum Corporation for a non-standard oil proration unit, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 80-acre non-standard oil proration unit comprising the E/2 SW/4 of Section 10, Township 26 North, Range 14 West, Bisti-Lower Gallup Pool, San Juan County, New Mexico.

CASE 6059: (Continued from October 12, 1977, Examiner Hearing)

Application of Dome Petroleum Corporation for pool creation, an oil discovery allowable, and a special depth bracket allowable, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the Leggs-Entrada Oil Pool in Section 11, Township 21 North, Range 10 West, San Juan County, New Mexico, the assignment of approximately 27,020 barrels of oil discovery allowable to its Santa Fe-Leggs Well No. 1 located in Unit O of said Section 11, and the establishment of a special depth bracket allowable of 750 barrels of oil per day for said pool.

CASE 6080: Application of Orla Petco, Inc., for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its R. K. Williams Well No. 1 to be located 1980 feet from the South line and 660 feet from the West line of Section 8, Township 19 South, Range 26 East, Eddy County, New Mexico, the S/2 of said Section 8 to be dedicated to the well.

CASE 6081: Application of Atlantic Richfield Company for directional drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the directional drilling in a northwesterly direction of its Lanehart 22 Well No. 1 from a surface location 660 feet from the North and West lines of Section 22, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico, bottoming said well no closer than 280 feet from the North and West lines of said Section 22.

CASE 6082: Application of Gulf Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Sand Well Unit Area comprising 3843 acres, more or less, of State, Federal, and fee lands in Township 23 South, Range 35 East, Lea County, New Mexico.

CASE 6083: Application of Sun Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Drinkard and Tubb production in the wellbore of its State 15 Well No. 4 located in Unit P of Section 16, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 6084: Application of Freeport Oil Company for a pressure maintenance project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance in the West Garrett-Devonian Pool by the injection of water into the Devonian formation through its Mattie Price Well No. 4 located in Unit O of Section 6, Township 17 South, Range 38 East, Lea County, New Mexico.

CASE 6085: Application of Reserve Oil, Inc., for downhole commingling or pool contraction and extension, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie-Mattix production in the wellbore of its Cooper Jal Unit Wells No. 115 in Unit P of Section 13 and Nos. 121, 134, and 209 in Units B, N, and L of Section 24, Township 24 South, Range 36 East, and No. 117 in Unit N of Section 18, and Nos. 150 and 221 in Units L and N of Section 19, Township 24 South, Range 37 East, Lea County, New Mexico, and an administrative procedure for such approval for future wells. In the alternative, applicant seeks the contraction of the vertical limits of the Jalmat Gas Pool underlying said Cooper Jal Unit Area by the deletion of the Yates and Seven Rivers formations therefrom and the extension of the vertical limits of the Langlie-Mattix Pool to include said formations.

BEFORE THE
OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF DOME PETROLEUM CORPORATION FOR
CREATION OF A NEW POOL CLASSIFIED
AS AN OIL POOL FOR ENTRADA PRODUCTION,
ASSIGNMENT OF AN OIL DISCOVERY ALLOW-
ABLE AND ASSIGNMENT OF A SPECIAL DEPTH
BRACKET ALLOWABLE OF 750 BARRELS PER
DAY, SAN JUAN COUNTY, NEW MEXICO

SEP 14 1977

SECRET
S. J. M.

APPLICATION

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

1. Applicant is the operator and has drilled and is currently producing oil from the Entrada formation from its discovery well, Santa Fe - Leggs Well No. 1 located in Unit O; 990 feet from the south line and 2310 feet from the east line of Section 11, Township 21 North, Range 10 West, N.M.P.M., San Juan County, New Mexico.

2. Applicant seeks the creation of a new pool designated as the Leggs Entrada Pool for the production of this well and other wells that may be drilled from this common source of supply.

3. Applicant's discovery well Santa Fe - Leggs Well No. 1 is eligible for a discovery allowable and applicant requests that it be granted such allowable.

4. The reservoir conditions found in the proposed Leggs Entrada Pool are such that high production rates will promote greater operational and recovery efficiency and the discovery well has the potential to produce an excess of the normal allowable without causing waste and, therefore, applicant requests a special depth bracket allowable allowing a total

production of 750 barrels per day to be assigned.

5. As indicated on the attached Form C-109, the applicant completed its Santa Fe - Leggs Well No. 1 on August 13, 1977 with perforations between 5,404 feet and 5,412 feet which, upon information and belief, is oil production from a new pool. Attached hereto marked Exhibit A is a completed Form C-109.

6. The location of all offset wells and lease ownership within a two mile radius of the Santa Fe - Leggs Well No. 1 is shown on the Leggs Entrada Location and Acreage Map attached hereto as Exhibit B.

7. Attached hereto as Exhibit C is an electrical log of the Santa Fe - Leggs Well No. 1.

WHEREFORE, the applicant prays for the Commission's Order designating the new pool discovery as "Leggs Entrada", for the application of a discovery allowable of five barrels per foot of depth to the top of the perforations in its Santa Fe - Leggs Well No. 1, and for the further application of a special depth bracket allowable of 750 barrels per day.

5404
5
27,020

DOME PETROLEUM CORPORATION

By: WHITE, KOCH, KELLY & MCCARTHY

By: Cynthia B. Berman
Its Attorneys
P.O. Box 787
Santa Fe, New Mexico 87501
(505) 982-4374

DRAFT

dr/

n

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:

43 *Jan* CASE NO. 6059

Order No. R-5600

NOMENCLATURE

PPH APPLICATION OF DOME PETROLEUM CORPORATION FOR POOL
CREATION, AN OIL DISCOVERY ALLOWABLE AND A SPECIAL DEPTH
BRACKET ALLOWABLE, SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

JLR

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 16,
19 77, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this day of November, 19 77, 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, is the
owner of the Santa Fe-Leggs Well No. 1, located in Unit O of
Section 11, Township 21 North, Range 10 West, NMPM, San Juan County,
New Mexico.

(3) That said well was completed as an oil well capable of producing from the Entrada formation on 11.7.13, 1917, through perforations from 5404 feet to 5412 feet.

(4) That the applicant seeks the creation of a new pool for Entrada production for said well, and the assignment of an oil discovery allowable in the amount of 27,020 barrels of oil to said well.

(5) That said well has in fact made discovery of a new oil pool, and is entitled to the assignment of such discovery allowable.

(6) That a new pool in San Juan County, New Mexico, should be created and defined, classified as an oil pool for Entrada production, and designated as the Leggs-Entrada Oil Pool, comprising the following-described lands:

TOWNSHIP 21 NORTH, RANGE 10 WEST, NMPM
Section 11: A11

(7) That the discovery well for said pool, the Dome Petroleum Corporation Santa Fe-Leggs Well No. 1, located in Unit O of said Section 11, should be assigned an oil discovery allowable in the amount of 27,020 barrels to be produced in addition to the well's regularly assigned allowable during the next 730 days.

Leggs (8) That the applicant further seeks the establishment of a special depth bracket allowable of 750 barrels per day for said ~~Snake Eyes~~-Entrada Oil Pool.

(9) That the well completed in the ~~Snake Eyes~~ *Leggs* Entrada Oil Pool is capable of producing large volumes of oil and water.

(10) (8) That the ultimate recovery of oil in said pool will not be adversely affected by high rates of production but will instead be improved thereby.

(11) (9) That approval of the application should serve to prevent waste and protect correlative rights.

12 (10) That the subject application should be approved.

IT IS THEREFORE ORDERED:

(1) That a new pool in San Juan County, New Mexico, classified as an oil pool for Entrada production, is hereby created and designated as the Leggs-Entrada Oil Pool, consisting of the following described area:

TOWNSHIP 21 NORTH, RANGE 10 WEST, NMPM
Section 11: A11

(2) That the discovery well for said pool, the Dome Petroleum Corporation Santa Fe-Leggs Well No. 1, located in Unit O of said Section 11, is hereby assigned an oil discovery allowable in the amount of 27,020 barrels, to be produced in addition to said well's regularly assigned allowable, at the rate of approximately 37 barrels per day during the next 730 days.

(3) That effective ~~December 1, 1977~~ ^{January 1, 1978}, a special depth bracket allowable of 750 barrels of oil per day is hereby established for said Leggs-Entrada Oil Pool.

(4) 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 hereinabove designated.