CASE 4350: Application of CITIES SERVICE FOR AN EXCEPTION TO ORDER NO. R-3221, AS AMENDED, CHAVES CO.

Number Application Transcripts. Small Exhibits

209 SIMMS BLDG. . P.O. BOX 1092 . PHONE 243-6691 . ALBUQUEROUE, NEW MEXICO

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico April 29, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Cities Service Oil Company for)CASE NO. 4350 an exception to Order No. R-3221, as amended,) Chaves County, New Mexico.

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING



MR. UTZ: Case 4350.

MR. HATCH: Case 4350. Application of Cities Service Oil Company for an exception to Order No. R-3221, as amended, Chaves County, New Mexico.

MR. KELLAHIN: If the Examiner please, Jason Kellahin, Kellahin & Fox, Santa Fe, appearing for the Applicant. I have one witness I would like to have sworn.

(Witness sworn.)

(Whereupon, Applicant's Exhibit 1 and 2 were marked for identification.)

JAMES L. RELPH

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Would you state your name, please?
- A James L. Relph.
- O Would you spell that last name, please?
- A R-e-1-p-h.
- Q And by whom are you employed and in what position, Mr. Relph?
- A I'm presently employed by Cities Service Oil Company as a region reservoir engineer.

O Pave you ever testified before the Oil Conservation Commission or one of its Fxaminers?

A No, sir.

O For the benefit of the Examiner, would you briefly outline your education and experience as an engineer?

A I'm a graduate of the University of Kansas with a B. S. degree in Potroleum Engineering. I worked the first two years of my employment with Cities Service, I worked as a production engineer in Kansas, Oklahoma, and Texas. The next eleven years were spent as a petroleum engineer on a secondary recovery staff in the general office, and for the last two years, I've been employed as region reservoir engineer in Midland, Texas.

And does your work as an engineer include the area involved in the application that's before the Commission at this time?

A Yes, sir.

MR. KELLAHIN: Are the witness' qualifications acceptable?

MR. UTT: Yes, sir; they are.

O (By Mr. Kellahin) Mr. Relph, briefly, what's proposed by Cities Service Oil Company in Case 4350?

A Cities Service proposes to dispose of water and open

an unlined pit on their Snyder Federal lease in Section 26, Township 15 South, Range 29 Fast in Chaves County, New Mexico.

- O Does that exception to the provisions of Order 3221 include all of the Snyder Federal lease?
 - A Yes, sir.
- Q And not just a well that's on that lease at the present time?
 - A Not just a well that's in existence now.
- Q Would you, for the record, state what acreage is covered by the application?

A The acreage in the application is covered as the south half of the northeast quarter, and the north half of the southeast quarter. The Snyder Federal lease, however, covers the entire southeast quarter, and the south half of the northeast quarter.

- O How many producing wells are there on this lease at the present time?
- A At the present time, we have one producing well on the lease.
- Q And do you have the production figures on that well?
- A This well was completed on or about the 15th of April. It had a potential of 200 barrels of oil per day.

O Did it show any water production at that time?

A It had no water production on potential, but had produced some volumes of water during the completion of the well.

O Now, do other wells completed in the same zone in this area produce water?

A Yes, sir. From previous information given the Commission, the McClellan lease to the north and east has produced significant volumes of water, and Pan American has reported substantial volumes of water on their wells to the north and east.

Q And do you anticipate that your well will also produce water?

A Eventually, it will probably produce water.

O Has your company made an investigation of the area involved in this application for the presence or the existence of fresh water supplies, either on the surface or subsurface?

A Our field people have made an investigation at this area and have reported that they have seen no evidence of any fresh water, either windmills or ponds, within three miles of the property. There has been a well reported previously at another hearing three miles east that we've

been unable to verify, and there is also evidence of another well approximately five miles north of this location that was reported in another hearing.

O Now, when you say "well," you're referring to water wells?

A Windmills; yes, sir, water wells.

Q Referring to what has been marked as Exhibit Number 1, would you identify that exhibit and discuss some information?

Wells that are presently producing, or as of about April 1 or April 15, producing in the Sulimar Queen Field. Production generally trends from northeast to southwest. The Cities Service's lease, Snyder Federal, is indicated in approximately the center of the map and is outlined in red on the map. It has the Number 1 well indicated by the solid black dot and the Number 2 well has been staked, and we are presently attempting to find a contractor for it.

Now, has the Commission granted an exception similar to that sought by Cities Service in this area?

A Yes, there has been an exception granted to Jack McClellan, who operates the section to the north and east of Cities Service's tract, and this was Order Number R-3784,

indicated on the map in red, the red letters, and the approximate location of the pits that he requested are indicated. Also, Pan American, who operates two forty-acre tracts within the field, has received an exception, and the order number on these are indicated and the approximate location of the pits in relation to their wells.

O Do you have any information as to the existence of subsurface water in the area?

A It's been reported that there is no subsurface fresh water. Several of the wells on the McClellan lease were drilled with cable tools and they encountered no fresh water at all. Our field people did talk with Mr. Bill Bogle of the Bogle Farms, and he related that they have no water in the area. They ranch in this area, and he related there was no water in the area. They have to haul in what they use.

On In other words, they are either piping or hauling in livestock water into this area; is that correct?

A That's what we've been reported.

Q What volume of water do you anticipate you will dispose of in the surface pits?

A Our well has produced as much as ten barrels of water a day, and for this well, we feel that this would be an adequate -- this would represent the well fairly well,

about ten barrels a day. However, at this time, we don't have any water production, but we do anticipate there will be some. There is water; there has been water reported several times in conjunction with this production.

- O How many wells do you anticipate will be completed on this lease?
- A At the present time, we feel that this is a fairly thin sand land, apparently, and we feel that we will have approximately three locations on our lease, and they will all be in the south half of the northeast quarter, and the north half of the southeast quarter.
- O Would you refer now to what has been marked as Exhibit Number 2 and identify that exhibit?
- A Exhibit Number 2 is a portion -- we are taking a portion of the quadrangle provided by the U. S. Geological Survey known as the Basin Well Quadrangle and the northeast corner of this quadrangle is the southwesternmost portion of the Osudo Morrow Field, and we have sketched in the location of our lease, the Snyder Federal, and also spotted the well and with a blue outline for approximate location of where the pit would be.
- Q Now, what kind of surface relief do you find when inspecting that exhibit?

A The contours on this exhibit show that the drainage is generally to the southwest, as has been reported earlier and it's fairly flat. There is not a great deal of relief in the area. It's rather broken, but there is still not — there doesn't seem to be any great amount of relief in one general direction or anything.

- Mould you anticipate any problem, then, on surface drainage from surface disposal of the salt water?
 - A No, not in the volumes that we would dispose of here.
- O In vour opinion, Mr. Relph, is there any danger of contamination of any fresh water zones whatsoever by continued use of unlined surface pits as proposed here?
- A If the volumes that we anticipate are accurate, then the evaporation rate will probably take care of all the water that we would ever put in the pit.
- O There will be very little seepage into the ground, in your opinion?
 - A That's right.
- Q Were Exhibits 1 and 2 prepared by you or under your supervision?
 - A They were.
 - O Do you have anything to add to your testimony?
- A The only thing I have to add is the only other means of handling this produced water in this area would be for us

to set some type of facility, possibly a used oil tank and haul the water from this tank. We estimate the minimum cost for setting this facility would be about three hundred dollars, and it would probably cost us in the range of about twenty-five cents a barrel to haul this water to an underground disposal facility.

MR. KELLAHIN: At this time, I would like to offer in evidence Exhibits 1 and 2.

MR. UMZ: Without objection, Exhibits 1 and 2 will be entered into the record in this case.

(Whereupon, Applicant's Exhibits 1 and 2 were admitted into evidence.)

MR. KELLAHIN: That's all we have on direct examination, Mr. Utz.

CROSS EXAMINATION

BY MR. UTZ:

O You estimated your Number 1 well to make about ten barrels. Would you make any estimate for your other wells?

A Our information on our geological information indicates that our next well should be approximately the same top, and we really wouldn't anticipate a great deal more production. This seems to be a lens type reservoir, rather than a broad general blanket type sand with a water-oil contact or some-

thing of that nature. I think it had been reported at the previous hearings that the water did tend to deplete on the wells that made substantially greater volumes of water than our wells did.

O I presume you intend to drill as many wells on this lease as will be productive?

- A Yes, sir, we would.
- O This is forty-acre spacing?
- A Yes, sir.
- O So you would have as many as eight wells on the lease?
- A Six. We can have as many as six. We only have 240 acres here.
- O So probably the maximum water you would have would be in the neighborhood of sixty to a hundred barrels a day?
- A Yes, sir. I think that would be an accurate estimate.

MR. UTZ: Ouestions of the witness?

A VOICE: Who owns the surface out here, do you know? Is it Federal or is it owned by the State?

THE WITNESS: It was reported that Bogle Farms operates on the surface. Now, I don't know whether they own it or whether it's leased from the -- whether it's a grazing

lease or what it is.

A VOICE: Have you got any kind of approval from the surface, or from the free land owner, or --

THE WITNESS: No.

MR. HATCH: You haven't attempted to contact the surface owner at all?

THE WITNESS: No.

MR. UT7: Other questions? It would be probably well to contact them before you get your pit, though, wouldn't it?

THE WITNESS: I imagine; yes. This pit sits right next to our battery. It would be within the battery site.

MR. UTZ: Okay. Other questions?

The witness may be excused.

Statements?

The case will be taken under advisement.

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WITNESS	PAGE
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		OFFERED AND
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STATE OF NEW MEXICO)

COUNTY OF BERNALILLO)

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

COURT REPORTER

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Other____

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2008 - SANTA FE 87801 GOVERNOR DAVID F. CARGO CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

May 6, 1970

Re:	Case No. 4350
	Order No. p_3058
	Applicant:
	Cities Service Oil Company
	the above-referenced Commis- abject case.
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State Engineer Office

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. 4350 Order No. R-3958

APPLICATION OF CITIES SERVICE OIL COMPANY FOR AN EXCEPTION TO ORDER NO. R-3221, AS AMENDED, CHAVES COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 29, 1970, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

MOW, on this 5th day of May, 1970, 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, Cities Service Oil Company, is the owner and operator of the S/2 NE/4 and N/2 SE/4 of Section 26, Township 15 South, Range 29 East, NMPM, Sulimar-Queen Pool, Chaves County, New Mexico.
- (3) That Order (3) of Commission Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any other place or in any manner which

-2-CASE No. 4350 Order No. R-3958

would constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.

- (4) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.
- (5) That the State Engineer has designated, pursuant to Section 65-3-11 (15), M.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.
- (6) That the applicant seeks an exception to the provisions of the aforesaid Order (3) to permit the disposal of salt water produced by applicant's wells located or to be located on the S/2 NE/4 and N/2 SE/4 of said Section 26 in an unlined surface pit located in Unit H of said Section 26.
- (7) That the well presently completed on the subject lands produces approximately 10 barrels of water per day.
- (8) That there appears to be no shallow fresh water in the vicinity of the subject lands for which a present or reasonably foreseeable beneficial use is or will be made that would be impaired by contamination from the subject pit.
- (9) That the applicant should be permitted to dispose of salt water produced by wells located or to be located on its lands comprising the S/2 NE/4 and N/2 SE/4 of said Section 26 in the subject unlined surface pit.

IT IS THEREFORE ORDERED:

(1) That the applicant, Cities Service Oil Company, is hereby granted an exception to Order (3) of Commission Order No. R-3221, as amended, to dispose of water produced in conjunction with the production of oil or gas, or both, by its wells located or to be located on lands comprising the S/2 NE/4

-3-CASE No. 4350 Order No. R-3958

and N/2 SE/4 of Section 26, Township 15 South, Range 29 East, NMPM, Sulimar-Queen Pool, Chaves County, New Mexico, in an unlined surface pit located in Unit H of said Section 26.

- (2) That the Secretary-Director of the Commission may by administrative order rescind such authority whenever it reasonably appears to the Secretary-Director that such recission would serve to protect fresh water supplies from contamination.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OID COMPERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

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

Care 4350 Leard 4-29-70 Rec. 5-1-20 Grant Cities Rev. Permission to Rispose of Swin exception to R 622/2 mappen Pitter Ze Se located in # - 26 155-298. Request was for 3/2 NE + N/2 5F 07 26, However the Singelenlien also indudes 5/2 5 E/4 la Devoul recommend we allow the full 2 40 to be included is e and be due to adnestingent. The Max. water isretimes De lune is 10 BWP.D. at faresent.

DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 29, 1970

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

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 4340: Application of Tesoro Petroleum Corporation for three Water-flood projects and unorthodox injection well locations, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute three waterflood projects in the South Hospah Upper Sand Oil Pool by the injection of water through nine injection wells to be drilled at unorthodox locations in Section 1, Township 17 North, Range 9 West, and in Sections 6 and 7, Township 17 North, Range 8 West, McKinley County, New Mexico. Applicant further seeks a procedure whereby additional injection wells and producing wells at unorthodox locations within the project areas may be approved administratively.
- CASE 4341: Application of Pan American Petroleum Corporation for two non-standard gas proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of two non-standard gas proration units for its State "C" Tract 13 Well No. 5, a dual completion, located 1980 feet from the North line and 660 feet from the West line of Section 36, Township 21 South, Range 37 East, Lea County, New Mexico, said units to be comprised as follows:

Blinebry Gas Pool - 240 acres - NW/4 and W/2 NE/4 Tubb Gas Pool - 200 acres - W/2 NW/4, NE/4 NW/4 and W/2 NE/4

CASE 4342: Application of Dearing, Wright, Gibbins, and Church, doing business as New Mexico Petrolcum Company, for authority to operate an oil treating plant, Lea County, New Mexico.

Applicants, in the above-styled cause, seek authority to install and operate a chemical and heating process oil treating plant in the vicinity of Tatum, New Mexico, for the reclamation of sediment oil to be obtained from tank bottoms, waste pits, and drip tanks.

- CASE 4343: Application of Texado Ind. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled dause, seeks authority to dispose of produced salt water into the Devonian formation in the perforated and open-hole interval from 11,194 feet to 11,278 feet in its New Mexico "BB" State (NCT-1) Well No. 2 located in Unit N of Section 11, Township 12 South, Range 32 East, East Caprock-Devonian Pool, Lea County, New Mexico.
- CASE 4344: Application of Texaco Inc. for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation in the open-hole interval from 11,230 feet to 11,503 feet in its B. E. Spender "B" Federal Well No. 1 located in Unit D of Section 28, Township 15 South, Range 30 East, Little Lucky Lake-Devonian Pool, Chaves County, New Mexico.
- CASE 4345: Application of Yates Drilling Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers and possibly other formations in the open-hole interval from 68 feet to 100 feet in its Galvin Well No. 8 and from 68 feet to 90 feet in its Galvin Well No. 14, both located in Unit N of Section 12, Township 20 South, Range 26 East, West McMillan-Seven Rivers Pool, Eddy County, New Mexico.
- CASE 4346: Application of Yates Drilling Company for a pressure maintenance expansion and promulgation of rules therefor, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand the S. P. Yates West McMillan Anderson Pressure Maintenance Project in the West McMillan Seven Rivers-Queen Pool, Eddy County, New Mexico, authorized by Order No. R-3852, by the conversion to water injection of two additional wells located in Units O and P. Section 11, Township 20 South, Range 26 East. Applicant further seeks the designation of a project area, promulgation of rules governing said project, and a procedure whereby other methods of flooding in the subject project may be authorized administratively.
- EASE 4347: Application of Yates Drilling Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Yates North Vacuum (San Andres) Unit Area comprising 800 acres, more or less, of State lands in Sections 1, 2, 11, and 12, Township 17 South, Range 34 East, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico.

CASE 4348: Application of Tates Drilling Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its North Vacuum (San Andres) Unit Area by the injection of water into the San Andres formation through 9 wells located in Sections 1, 2, 11, and 12, Township 17 South, Range 34 East, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby said project may be expanded administratively without a showing of well response.

CASE 4349: Application of Tennece Oil Company for a waterflood expansion and unorthodox injection well locations, McKinley County, New Mexico. Appplicant, in the above-styled cause, seeks to expand the waterflood project in its South Hospah Unit Area by the injection of water into the South Hospah Upper Sand Oil Pool, McKinley County, New Mexico, through two additional injection wells at unorthodox locations in Section 12, Township 17 North, Range 9 West, as follows:

Unit Well No. 41 - 5 feet from the North line and 1650 feet from the East line;

Unit Well No. 42 - 3000 from the North line and 5 feet from the East line.

CASE 4350:

Application of Cities Service Oil Company for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's Snyder Federal lease comprising the S/2 NE/4 and N/2 SE/4 of Section 26, Township 15 South, Range 29 East, Sulimar-Queen Pool, Chaves County, New Mexico. Applicant seeks authority to dispose of salt water produced by wells on said lease in an unlined surface pit located in Unit H of said Section 26.

CASE 4351: Application of Humble Oil & Refining Company for well reclassification and simultaneous dedication of acreage, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the reclassification of its New Mexico "G" State Well No. 5 from an oil well in the Eumont Pool to a gas well in said pool. Applicant further seeks the dedication of a standard 640-acre gas proration unit comprising all of Section 23, Township 21 South, Range 36 East, Lea County, New Mexico, to said Well No. 5 and to applicant's New Mexico "G" State Well No. 9,

located, respectively in some E and G of said Section 23, and authority to produce the allowable assigned to said unit from either of said walks in any proportion.

CASE 4352: Application of Jack I. McClallan for the preation of a new gas pool or, in the alternative, the establishment of pool rules for two existing pools, Chaves and Lea Counties, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Queen gas pool comprising the following-described acreage:

CHAVES COUNTY, NEW MEXICO

Township 15 South, Range 29 East
Section 11: SE/4
Section 12: SW/4
Section 13: NW/4
Section 14: E/2
Section 23: NE/4 and SW/4

In the alternative applicant seeks the promulgation of special rules for the Sulimar-Queen Pool, Chaves County, and Double L-Queen Pool, Chaves and Lea Counties, New Mexico, as separate or as consolidated pools, including provisions for the classification of oil and gas wells, spacing and well location requirements for oil and gas wells, and an allocation formula for withdrawals by oil wells and gas wells.

CASE 4353: Application of Lone Star Producing Company for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Tres Papalotes-Pennsylvanian Pool, Lea County, New Mexico, including a provision for 160-acre spacing and proration units.

ATTO
54½ EAST:
JASON W. KELLAHIN POST
ROTISET FLEOX SANTA FE

KELLAHIN AND FOX
ATTORNEYS AT LAW
54% EAST SAN FRANCISCO STREET
POST OFFICE BOX 1769
SANTA FE. NEW MEXICO 87501

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TELEPHONE 982-4315 AREA CODE 505

April 10, 1970

SNA

Jan -350

Oil Conservation Commission of New Mexico P. O. Box 2088 Santa Fe, New Mexico

Gentlemen:

Enclosed please find three copies of an application on behalf of Cities Service Oil Company for an amendment to Order No. R-3221, as amended, to be set for hearing. Please advise us of the date set for hearing.

Very truly yours,

Jason W. Kellahin

jwk;jh

Encls. as stated.

cc: Mr. E. F. Motter Cities Service Oil Company P. O. Box 4906 Midland, Texas 79701

DOCKET MAILED

Date 4-17-70

73 KPR 13 A.13

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF CITIES SERVICE OIL COMPANY FOR AN EXCEPTION TO THE PROVISIONS OF ORDER NO. R-3221, AS AMENDED, CHAVES COULTY, NEW MEXICO

Care 4.350

APPLICATION

Comes now Cities Service Oil Company and applies to the Oil Conservation Commission of New Mexico for an exception to the provisions of Commission Order No. R-3221, as amended, to permit the continued use of unlined surface pits for the disposal of produced water from the Cities Service Oil Company Snyder Federal No. 1 well, located in Unit H. Section 26, Township 15 South, Range 29 East, N.M.P.M., Chaves County, New Mexico, and for an exception to the provisions of said order for the adjacent acreage to include all of the S/2 NE/4, and the N/2 SE/4 of said Section 26, Township 15 South, Range 29 East, and in support thereof would show the Commission:

- 1. The Snyder Federal No. 1 well, located in Unit H is presently producing approximately 10 barrels of water per day, and no major increase in water production is anticipated from this well.
- 2. Applicant expects to continue development of the adjacent acreage, and in connection therewith anticipates some production of water.
- 3. That continued use of surface pits in the area described will not constitute a hazard to any fresh water supply, either on the surface or subsurface, and there are no such fresh water supplies in the area that could suffer contamination.
- 4. That to prevent unnecessary future hearings, the Commission should consider this application for an exception for present and for contemplated future production for the above-described area.

WHEREFORE applicant prays that this application be set for hearing before the Commission, or before the Commission's duly appointed examiner, and that after notice and hearing as required by law, the Commission enter its order granting an exception to the provisions of Order No. E-3221, as amended, as prayed for.

Respectfully submitted,

CITIES SERVICE OIL COMPANY

P. O. Box 1769

Santa Fe, New Mexico

ATTORNEYS FOR APPLICANT

GMH/esr

(G)

BEF)RE 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 COMMISSION.

Sour

SERVICE OIL

APPLICATION OF CITIES SERVICE OIL COMPANY FOR AN EXCEPTION TO ORDER NO. R-3221, AS AMENDED, CHAVES COUNTY, NEW MEXICO.

CASE No. 4350

Order No. R- 3%

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on <u>April 29</u>, 196/70, at Santa Fe, New Mexico, before Examiner <u>Elvis A. Utz</u>.

NOW, on this ______ day of _____, 19#70, 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, Cities Service Oil Company, is the owner and operator of the Synder Federal Lease comprising the S/2 NE/4 and N/2 SE/4 of Section 26, Township 15 South, Range 29 East, NMPM, Sulimar-Queen Pool, Chaves County, New Mexico.
- (3) That Order (3) of Commission Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any other place or in any manner which

would constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.

- (4) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.
- (5) That the State Engineer has designated, pursuant to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.
- of the aforesaid Order (3) to permit the disposal of salt water

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 - (7) that the well presently completed on the subject lands produces approximately 10 barrels of water per day.
- (8) That there appears to be no shallow fresh water in the vicinity of the subject lease for which a present or reasonably foreseeable beneficial use is or will be made that would be impaired by contamination from the subject pit.
- (9) That the applicant should be permitted to dispose of salt water produced by wells located on its littlefield has"

 Federal Lease comprising all of said Section in the subject unlined surface pits.

IT IS THEREFORE ORDERED:

- granted an exception to Order (3) of Commission Order No. R-3221, as amended, to dispose of water produced in conjunction with the production of oil or gas, or both, by its wells located on lends production of oil or gas, or both, by its wells located on its Snyder Federal Lease comprising the S/2 NE/4 and N/2 SE/4 of Section 26, Township 15 South, Range 29 East, NMPM, Sulimar-Queen Pool, Chaves County, New Mexico, in an unlined surface pit located in Unit H of said Section 26.
- (2) That the Secretary-Director of the Commission may by administrative order rescind such authority whenever it reasonably appears to the Secretary-Director that such rescission would serve to protect fresh water supplies from contamination.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

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25e Number Application Transcripts. Small Exhibits

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BEFORE THE HET MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico April 29, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Humble Oil & Refining Company for well reclassification and) CASE NO. 4351 simultaneous dedication of acreage, Lea County, New Mexico.

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING



MR. UTZ: Case 4351.

MR. HATCH: Case 4351. Application of Humble
Oil & Refining Company for well reclassification and
simultaneous dedication of acreage, Lea County, New Mexico.

And the Applicant has requested that this case be continued until May 13.

MR. UTZ: Case 4351 will be continued until May 13.

STATE OF NEW MEXICO) ss COUNTY OF BERNALILLO)

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

COURT REPORTER

NEW MEXICO

209 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE,

NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico May 13, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Humble Oil & Refining)
Company for well reclassification and)
simultaneous dedication of acreage, Lea)
County, New Mexico.

) Case No. 4351

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING



MR. NUTTER: Call Case No. 4351.

MR. HATCH: Case No. 4351. Continued from the April 29, 1970, Examiner Hearing. Application of Humble Oil & Refining Company for well reclassification and simultaneous dedication of acreage, Lea County, New Mexico.

MR. HINKLE: Clarence Hinkle, Hinkle, Bondurant, Cox and Eaton appearing on behalf of Humble. We have one witness we would like to have sworn.

(Whereupon, Applicant's Exhibits 1 through 4 were marked for identification.)

(Witness sworn.)

JOHN CARRAWAY

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

DIRECT EXAMINATION

BY MR. HINKLE:

- Q State your name, your residence and by whom you are employed?
- A John Carraway, Hobbs, New Mexico, Humble Oil & Refining Company.
 - Q What is your position with Humble?
- A I am Supervising Reservoir Engineer for the Hobbs District Office.
 - Q Are you a petroleum engineer?
 - A Yes, I am.

- Q Have you ever testified before the Commission?
- A No, I have not.
- Q State briefly your educational background and your experience as a petroleum engineer.
- A I was graduated from the University of Virginia in 1965. I was employed shortly thereafter with the Humble Oil and Refining Company and worked with them for a period of five years. This is the extent of my experience.
- Q Are you familiar with Humble's development in New Mexico?
 - A Yes, sir, I am.
- Q Are you familiar with the application of Humble in this case?
 - A Yes, I am.
- Q What is Humble seeking to accomplish by this application?
- A Humble seeks to have its New Mexico State "G" 5
 Well reclassified from an oil well to a gas well in the
 Eumont Gas Pool and to have the acreage which is currently
 dedicated to Well No. "G" 9 assigned to both wells, "G" 5
 and No. "G" 9, and also request that permission be granted
 to produce the 640-acre allowable from either of these two
 wells in any proportion.
 - Q Have you made a study of this area?
 - A Yes, I have.

MR. HINKLE: Are the witness' qualifications acceptable?

MR. NUTTER: Yes, they are.

- Q (By Mr. Hinkle) Have you prepared or have there been prepared under your direction certain exhibits for introduction into this case?
 - A Yes. I have prepared four exhibits.
- Q Refer to Exhibit No. 1 and explain that to the Commission.
- A This is an area plat of the area surrounding Humble's New Mexico State "G" Lease. Humble's lease encompasses two sections, Sections 23 and 26, which are outlined in yellow on this map. The wells which are circled in red designate those wells around Humble's lease, which are completed in the Eumont Gas Pool.

The well which is the subject of this application is Well No. 5 located in Unit "E" in Section 23. This well had been an oil well in the Eumont-Yates-7 Rivers-Queen Pool. It had a three barrel allowable and a gas-oil ratio of 76,800.

Recently this well was worked over and re-potentialed as a gas well. Well No. 9 is a gas well which had been producing in the Eumont Gas Pool for sometime. The total 640 acres in Section 23 is currently dedicated to Well No.

9.

Q Are these two wells capable of making the allowable for 640 acres?

A No, sir. We anticipated that adding Well No. 5 would give us the capability to produce the total allowable, but, it will not.

- Q You will be short of the allowable?
- A Yes.
- Q Does the yellow outline show acreage owned by Humble in this area?
 - A Yes, it does.
 - Q Did you have a similar situation in Section 26?
- A Yes. In March of '69 the Commission granted numble permission to assign a total 640 acres in Section 26 to Wells No. 4 and No. 2 and to produce the total allowable from either of these two wells in any proportion.

 ${\tt MR.\ NUTTER:}\ {\tt Was\ there}\ {\tt an\ order}\ {\tt number\ on\ that?}$

THE WITNESS: Yes, R-3700.

MR. NUTTER: Thank you.

- Q (By Mr. Hinkle) Any further comments with respect to Exhibit No. 1?
 - A No, I have no further comments.
 - Q Refer to Exhibit No. 2; explain that.
- A Exhibit No. 2 is a well location and acreage dedication plat for Humble's Well No. "G" 5. This will be filed with the Commission.

Q Refer to Exhibit No. 3. What does this show?

A Exhibit No. 3 is a multi point pressure test for Well No. "G" 5, which was taken recently by El Paso Natural Gas Company, which will be filed with the Commission.

The absolute open flow potential on this test is 570 Mcf a day. The wellhead potential is 270 Mcf a day.

Q Do you want to make any comment with respect to the graph that's attached to this exhibit?

A Other than being unreadable almost. No, I would just like to say again that the two wells on the section will not be capable of making the total allowable for the 640 acres.

Q Now, refer to Exhibit No. 4; explain that.

A Exhibit No. 4 shows the section of the gamma ray neutron log on the Well No. "G" 5 from the top of the Queen to the top of the Grayburg, which is a producing section in this well.

I have shown on this log the perforations in the well and the treatments which have been given the well.

Q This shows the work over in connection with No. 5 Well?

A All the stimulation treatments and perforated intervals, which are shown on this log, were done back in 1956 when this well was originally completed. Up until recently only the bottom two sets of perforations were being

produced. Recently, on work over, the upper set of perforations was opened up. Since these perforations produced primarily gas, the well was potentialed as a gas well.

- Q In your opinion, if the Commission grants your application, will it be in the interest of conservation and prevention of waste?
 - A Yes, in my opinion, it will.
 - Q And tend to protect correlative rights?
 - A Yes.
 - Q Do you have any further comments?
 - A I have none.

MR. HINKLE: I would like to offer Exhibits 1 through 4.

MR. NUTTER: Humble's Exhibits 1 through 4 will be admitted in evidence.

(Whereupon, Appl ant's Exhibits 1 through 4 were offered and admitted in evidence.)

MR. HINKLL: I think that's all.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Carraway, prior to work over, your GOR was 76,800 to 1. Do you have a GOR at the present time?

A Yes, sir. Just a moment. I have some recent tests on this well. Included in the letter of application,

which was written to the Commission by Humble, I have three tests. This is a copy of that letter.

These three tests show the ratio increased from 150,000 GOR on March 2, 1970, up to 246,000 on 8-70, and then the well produced no fluid at all thereafter.

Q So, you have an infinite GOR at the present time?

A Yes.

MR. NUTTER: Are there any further questions of Mr. Carraway? Mr. Ramey.

MR. RAMEY: What is the purpose of your Exhibit 2, Mr. Carraway? Is this going to be a corrected 102 which you will submit to the Hobbs Office?

THE WITNESS: Yes, sir, we will submit this. It was my impression that this would be required. There has been no 102 submitted on either of these two wells since they were both completed before this form was, originally.

MR. RAMEY: What I am saying is, I note you show the pool as Eumont oil and dedicated acreage as 40. Perhaps that should be corrected to Eumont gas, 640.

THE WITNESS: Yes, it should.

MR. NUTTER: Anything further, Mr. Ramey? Does anyone have any further questions? If not, the witness may be excused. Do you have anything further, Mr. Hinkle?

MR. HINKLE: No.

MR. NUTTER: Does anyone have anything they wish

to offer in Case 4351? We will take the case under advisement.

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STATE OF NEW MEXICO)

(COUNTY OF BERNALILLO)

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

NOTARY PUBLIC

My Commission Expires:

March 12, 1973

i do horeby certify that the foregoing is a complete record of the paster lines in the Examinar hearing of Cons Do. 1972...

heard by the call of Conservation Commission



OIL CONSERVATION COMMISSION

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

CHAIRMAN LAND COMMISSIONER ALEX J. ARMIJO MEMBER

GOVERNOR DAVID F. CARGO

STATE GBOLOGIST A. L. PONTER, JR. SECRETARY - DIRECTOR

June 10, 1970

Mr.	Clar	ence	Hink!	l e	
Hink	cle,	Bondi	urant	&	Christy
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Post	off	ice I	Box 10)	
Rosv	vell,	New	Mexic	00	88201

4351 Re: Case No.__ R-3975 Order No. Applicant: Humble Oil & Refining Co.

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

ALP/ir	
Copy of order also sent to:	
Hobbs OCC x	
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. 4351 Order No. R-3975

APPLICATION OF HUMBLE OIL & REFINING COMPANY FOR WELL RECLASSIFICATION AND SIMULTANEOUS DEDICATION OF ACREAGE, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COPPLISSION:

This cause came on for hearing at 9 a.m. on May 13, 1970, at Santa Fe. New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 10th day of June, 1970, 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, Humble Oil & Refining Company, is the owner and operator of the New Mexico "G" State Wells Hos. 5 and 9, located, respectively, in Units E and G of Section 23, Township 21 South, Range 36 East, HMPM, Lea County, New Mexico.
- (3) That said Well No. 5 is presently classified as an oil well in the Eumont Gas Pool and that said Well No. 9 is presently classified as a gas well in the Eumont Gas Pool.
- (4) That the applicant seeks the reclassification of said Well No. 5 from an oil well to a gas well, the dedication of a standard 640-acre gas proration unit comprising all of said Section 23 to said Wells Nos. 5 and 9, and authority to produce the allowable assigned to said unit from either of said wells in any proportion.
- (5) That said Well No. 5 now produces gas with no water or oil and should be reclassified as a gas well.

- (6) That the proposed standard gas proration unit can be efficiently and economically drained and developed by the subject wells.
- (7) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the Eumont Gas Pool, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

- (1) That, effective July 1, 1970, the Humble Oil & Refining Company New Mexico "G" State Well No. 5, located in Unit E of Sackion 23, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico, is hereby reclassified as a gas well in the Eumont Gas Pool.
- (2) That, effective July 1, 1970, a 640-acre standard gas proration unit in the Eumont Gas Pool comprising all of Section 23, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico, is hereby established and simultaneously dedicated to the Humble Oil & Refining Company New Mexico "G" State Well No. 5, located in Unit B of said Section 23, and to the Humble Oil & Refining Company New Mexico "G" State Well No. 9, located in Unit G of said Section 23.
- (3) That the allowable assigned to the above-described gas proration unit shall be based upon the unit size of 640 acres; that the operator may produce the allowable assigned to the unit from the subject wells in any proportion; and that the status of said consolidated unit shall be the status, as of July 1, 1970, of the unit previously dedicated to the above-described Well No. 9.
- (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.

DAVID F. CARGO, Chairman

STATE OF NEW MEXICO

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

DOCKET: REGULAR HEARING " WEDNESDAY - MAY 13, 1970

OIL CONSERVATION COMMISSION - 9 A.M. - MORGAN HALL, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

ALLOWABLE: (1) Consideration of the oil allowable for June, 1970;

(2) Consideration of the allowable production of gas for June, 1970, from fifteen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico; also presentation of purchaser's nominations for said pools for the six-month period beginning July 1, 1970; consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for June, 1970.

THE FOLLOWING CASES WILL BE HEARD BEFORE DANIEL S. NUTTER, EXAMINER, OR ELVIS A. UTZ, ALTERNATE EXAMINER:

- CASE 4354: Application of Michael P. Grace and Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all mineral interests from the surface of the ground down to and including the Morrow formation underlying the N/2 of Section 11, Township 23 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, said acreage to be dedicated to a well to be drilled in either the NE/4 NW/4 or the NW/4 NE/4 of said Section 11. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.
- CASE 4355: Application of Pan American Petroleum Corporation for pool consolidation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of the North Bagley-Upper Pennsylvanian and North Bagley-Lower Pennsylvanian Pools, Lea County, New Mexico, into one pool. Applicant further requests the Lower Pennsylvanian Allowable Factor be applied to the consolidated pool.

CASE 3727 (Respense):

In the matter of Case 3727 being reopened pursuant to the provisions of Order No. R-3428, which order established 640-acre spacing units for the Rock Tank-Upper Morrow and Rock Tank-Lower Morrow Gas Pools, Eddy County, New Mexico, for a period of one year after first pipeline connection in either of the pools. All interested persons may appear and show cause why said pools should not be developed on 320-acre spacing units.

- CASE 4356: Southeastern nomenclature case calling for an order for the creation, abolishment, extension and contraction of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico.
 - (a) Create a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the Baum-Morrow Gas Pool. The discovery well is the RK Petroleum Corporation State No. 1 located in Unit B of Section 27, Township 13 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 13 SOUTH, RANGE 32 EAST, NMPM SECTION 27: N/2

(b) Create a new pool in Lea County, New Mexico, classified as a gas pool for Queen-Penrose production and designated as the East Querecho Plains-Queen Gas Pool. The discovery well is Robert N. Enfield's Hudson Federal No. 1 located in Unit O of Section 30, Township 18 South, Range 33 East, NMPM.

TOWNSHIP 18 SOUTH, RANGE 33 EAST, NMPM SECTION 30: SE/4

(c) Abolish the Bluitt-San Andres Pool in Roosevelt County, New Mexico, described as:

TOWNSHIP 8 SOUTH, RANGE 38 EAST, NMPM

SECTION 7: All SECTION 8: All SECTION 17: All SECTION 18: All

(d) Extend the Bluitt-San Andres Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 38 EAST, NMPM SECTION 8: S/2 SECTION 17: W/2

(e) Contract the Bagley-Pennsylvanian Pool in Lea County, New Mexico, by the deletion of the following described area;

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM SECTION 4: NE/4

(Case 4356 continued)

(f) Extend the North Bagley-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM SECTION 33: E/2

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM SECTION 4: NE/4

(g) Extend the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM SECTION 34: NW/4

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM SECTION 8: NW/4

(h) Extend the Double L-Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM SECTION 12: E/2 NE/4

(i) Extend the Hobbs-Blinebry Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 38 EAST, NMPM SECTION 33: NE/4

(j) Extend the Lea-Bone Springs Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM SECTION 35: SE/4

TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM SECTION 2: E/2

(k) Extend the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM SECTION 12: All

(1) Extend the Rock Tank-Upper Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM SECTION 12: All

(m) Extend the Tulk-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 32 EAST, NMPM SECTION 34: NE/4

(n) Extend the Tulk-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 32 EAST, NMPM SECTION 9: NE/4

CASE 4301: (Continued from the March 25, 1970, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Robert T. Smith and all other interested persons to appear and show cause why the following Robert T. Smith wells located in Section 32, Township 20 North, Range 9 West, McKinley County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program:

State Well No. 1 located 487 feet from the North line and 990 feet from the East line;

State "A" Well No. 1 located 400 feet from the North line and 990 feet from the East line;

State Well No. 3 located 330 feet from the North line and 330 feet from the West line;

State Well No. 6 located 220 feet from the North line and 1485 feet from the East line;

State Well No. 6-Y located approximately 5 feet West of the above-described Well No 6;

State Well No. 8 located 1155 feet from the North line and 2475 feet from the East line.

- CASE 4337: (Continued from the April 15, 1970, Examiner Hearing)
 Application of Petroleum Corporation of Texas for an exception to Order No. R-3221, as amended, Eddy County,
 New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's Dexter Hanagan Graridge Federal Well No. 1 located in Unit J, Section 22, Township 17 South, Range 30 East, Jackson-Abo Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by said well in an unlined surface pit in the vicinity of said well.
- CASE 4336: (Continued from the April 15, 1970, Examiner Hearing)
 Application of Byron McKnight for an exception to Order
 No. R-3221, as amended, Lea County, New Mexico. Applicant,
 in the above-styled cause, seeks an exception to Order No.
 R-3221, as amended, which order prohibits the disposal of
 water produced in conjunction with the production of oil or
 gas on the surface of the ground in Lea, Eddy, Chaves and
 Roosevelt Counties. Said exception would be for applicant's
 lease comprising all of Section 19, W/2 of Section 20, NW/4
 Section 29, and NW/4 Section 30, Township 19 South, Range
 34 East, undesignated Yates-Seven Rivers gas pool, Lea County,
 New Mexico. Applicant seeks authority to dispose of salt
 water produced by wells on said leases in unlined surface
 pits on the leases.
- CASE 4084: (Reopened) (Continued from the April 15, 1970, Examiner Hearing).

 In the matter of Case No. 4084 being reopened pursuant to the provisions of Order No. R-3732, which order established 160-acre spacing units and an 80-a re proportional factor of 4.77 for the Feather-Wolfcamp Pool, Lea County, New Mexico. All interested parties may appear and show cause why the said pool should not be developed on less than 160-acre spacing units and to show cause why the 80-acre proportional factor of 4.77 should or should not be retained.

CASE 4351:

(Continued from the April 29, 1970, Examiner Hearing)
Application of Humble Cil & Refining Company for well reclassification and simultaneous dedication of acreage,
Lea County, New Mexico. Applicant, in the above-styled cause, seeks the reclassification of its New Mexico "G"
State Well No. 5 from an oil well in the Eumont Pool to a gas well in said pool. Applicant further seeks the dedication of a standard 640-acre gas proration unit comprising all of Section 23, Township 21 South, Range 36 East, Lea County, New Mexico, to said Well No. 5 and to applicant's New Mexico "G" State Well No. 9, located, respectively in Units E and G of said Section 23, and authority to produce the allowable assigned to said unit from either of said wells in any proportion.

CASE 4352: (Continued from the April 29, 1970, Examiner Hearing)
Application of Jack L. McClellan for the creation of a new gas pool or, in the alternative, the establishment of pool rules for two existing pools, Chaves and Lea Counties, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Queen gas pool comprising the following-

described acreage:

CHAVES COUNTY, NEW MEXICO

TOWNSHIP 15 SOUTH, RANGE 29 EAST Section 11: SE/4 Section 12: SW/4 Section 13: NW/4 Section 14: E/2 Section 23: NE/4 and SW/4

In the alternative applicant seeks the promulgation of special rules for the Sulimar-Queen Pool, Chaves County, and Double L-Queen Pool, Chaves and Lea Counties, New Mexico, as separate or as consolidated pools, including provisions for the classification of oil and gas wells, spacing and well location requirements for oil and gas wells, and an allocation formula for withdrawals by oil wells and gas wells.

DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 29, 1970

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

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 4340: Application of Tesoro Petroleum Corporation for three water-flood projects and unorthodox injection well locations, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute three waterflood projects in the South Hospah Upper Sand Oil Pool by the injection of water through nine injection wells to be drilled at unorthodox locations in Section 1, Township 17 North, Range 9 West, and in Sections 6 and 7, Township 17 North, Range 8 West, McKinley County, New Mexico. Applicant further seeks a procedure whereby additional injection wells and producing wells at unorthodox locations within the project areas may be approved administratively.
- CASE 4341: Application of Pan American Petroleum Corporation for two non-standard gas proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of two non-standard gas proration units for its State "C" Tract 13 Well No. 5, a dual completion, located 1980 feet from the North line and 660 feet from the West line of Section 36, Township 21 South, Range 37 East, Lea County, New Mexico, said units to be comprised as follows:

Blinebry Gas Pool - 240 acres - NW/4 and W/2 NE/4 Tubb Gas Pool - 200 acres - W/2 NW/4, NE/4 NW/4 and W/2 NE/4

CASE 4342: Application of Dearing, Wright, Gibbins, and Church, doing business as New Mexico Petroleum Company, for authority to operate an oil treating plant, Lew County, New Mexico.

Applicants, in the above-styled cause, seek authority to install and operate a chemical and heating process oil treating plant in the vicinity of Tatum, New Mexico, for the reclamation of sediment oil to be obtained from tank bottoms, waste pits, and drip tanks.

- CASE 4343: Application of Texado Ind. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled dause, seeks authority to dispose of preduced salt water into the Devonian formation in the perforated and open-hole interval from 11,194 feet to 11,278 feet in its New Mexico "BB" State (NCT-1) Well No. 2 located in Unit N of Section 11, Township 12 South, Range 32 East, East Caprock-Devonian Pool, Lea County, New Mexico.
- CASE 4344: Application of Texaco Inc. for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation in the open-hole interval from 11,230 feet to 11,503 feet in its B. E. Spender "B" Federal Well No. 1 located in Unit D of Section 28, Township 15 South, Range 30 East, Little Lucky Lake-Devonian Pool, Chaves County, New Mexico.
- CASE 4345: Application of Yates Drilling Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers and possibly other formations in the open-hole interval from 68 feet to 100 feet in its Galvin Well No. 8 and from 68 feet to 90 feet in its Galvin Well No. 14, both located in Unit N of Section 12, Township 20 South, Range 26 East, West McMillan-Seven Rivers Pool, Eddy County, New Mexico.
- CASE 4346: Application of Yates Drilling Company for a pressure maintenance expansion and promulgation of rules therefor, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand the S. P. Yates West McMillan Anderson Pressure Maintenance Project in the West McMillan Seven Rivers-Queen Pool, Eddy County, New Mexico, authorized by Order No. R-3852, by the conversion to water injection of two additional wells located in Units O and P, Section 11, Township 20 South, Range 26 East. Applicant further seeks the designation of a project area, promulgation of rules governing said project, and a procedure whereby other methods of flooding in the subject project may be authorized administratively.
- CASE 4347: Application of Yates Drilling Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Yates North Vacuum (San Andres) Unit Area comprising 800 acres, more or less, of State lands in Sections 1, 2, 11, and 12, Township 17 South, Range 34 East, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico.

CASE 4351:

- CASE 4348: Application of rates Dri Ting Company for a waterflood project, Len County, New Mexico. Applicant, in the above-styled cause, seeks rate city to institute a waterflood project in its North Valuum (Sin Ardres) cout Area by the injection of water into the San Ardres from tin through 9 walls located in Sections 1, 2, 11, and 12, Mounthip 11 South, Pange 34 East, Vacuum Graybung-San Andres Fool, to county, New Mexico. Applicant further seeks a projector whereby said project may be expanded administratively without a snowing of well response.
- CASE 4349: Application of Termow hil Company for a waterflood expansion and unorthodox injection well doubtions, McKinley County, New Mexico. Appplicant, in the above-styled cause, seeks to expand the waterflood project in its South Hospah Unit Area by the injection of water into the South Hospah Upper Sand Oil Pool, McKinley County, New Mexico, through two additional injection wells at unsuthedox locations in Section 12, Township 17 North, Range 9 West, as follows:

Unit Well No. 41 - 5 feet from the North line and 1650 feet from the East line;

Unit Well No. 42 - 3000 from the North line and 5 feet from the East line.

- GASE 4350: Application of Cities Service Oil Company for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties; New Mexico. Said exception would be for applicant's Snyder Federal lease comppising the S/2 NE/4 and N/2 SE/4 of Section 26, Townshippl5 South, Range 29 East, Sulimar-Queen Pool, Chaves County, New Mexico. Applicant seeks authority to dispose of salt water produced by wells on said lease in an unlimed surface pit located in Unit H of said Section 26.
 - Application of Humble Oil a Refining Company for well reclassification and simultaneous dedication of Acreage, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the reclassification of its New Mexico "G" State Well No. 5 from an oil well in the Eumont Pool to a gas well in said pool. Applicant further seeks the dedication of a standard 640-acre gas promation unit comprising all of Section 23, Township 21 South, Range 36 dast, Lea County, New Mexico, to said Well No. 5 and to applicant's New Mexico "G" State Well No. 9,

located, respectively in Units E and G of said Section 23, and authority to produce the allowable assigned to said unit from either of said wells in any proportion.

CASE 4352: Application of Jack L. McClellan for the creation of a new gas pool or, in the alternative, the establishment of pool rules for two existing pools, Chaves and Lea Counties, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Queen gas pool comprising the following described acreage:

CHAVES COUNTY, NEW MEXICO

Township 15 South, Range 29 East
Section 11: SE/4
Section 12: SW/4
Section 13: NW/4
Section 14: E/2

Section 23: NE/4 and SW/4

In the alternative applicant seeks the promulgation of special rules for the Sulimar-Queen Pool, Chaves County, and Double L-Queen Pool, Chaves and Lea Counties, New Mexico, as separate or as consolidated pools, including provisions for the classification of oil and gas wells, spacing and well location requirements for oil and gas wells, and an allocation formula for withdrawals by oil wells and gas wells.

CASE 4353: Application of Lone Star Producing Company for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Tres Papalotes-Pennsylvanian Pool, Lea County, New Mexico, including a provision for 160-acre spacing and proration units.

HUMBLE OIL & REFINING COMPANY

P. O. Box 2100 Hobbs, New Mexico 8824 April 23, 1970

22-2: Request for Continuance of Case No. (4351) Docket No. 11-70 Set for April 29, 1970

Mr. A. L. Porter, Jr., Secretary-Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. D. S. Nutter, Chief Engineer

Dear Sir:

As per our April 23, 1970 telephone conversation it would be appreciated if the captioned case could be continued and reset for the May 13, 1970 docket.

Very truly yours,

HUMBLE OIL & REFINING COMPANY

21 Parte R. G. Parse

ALC/mcb

cc: Mr. G. H. Sawyer Humble Oil & Refining Company P. O. Box 1600 Midland, Texas 79701

> Mr. G. E. Uthlaut Humble Oil & Refining Company P. O. Box 1600 Midland, Texas 79701

DOCKET MAILED

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All distances must be from the outer boundaries of the Section Operator Well No. Humble Oil & Refining Company New Mexico "G" State Unit Letter Section Township County T-21-S E 23
Actual Footage Location of Well: R-36-E Lea County, New Mexico 660 feet from the North Producing Formation Dedicated Acreages 3561 Queen Eumont Oil 40 Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation _ Ycs No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)_ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. (2115 Position District Superintendent -660 **-0** 19801 Humble Oil & Refining Co. May 11, 1970 I hereby certify that the well location BEFORE EXAMINER NUTTER OL CONSERVATION COMMISSION is true and correct to the best of my knowledge and belief. CASE NO. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No.

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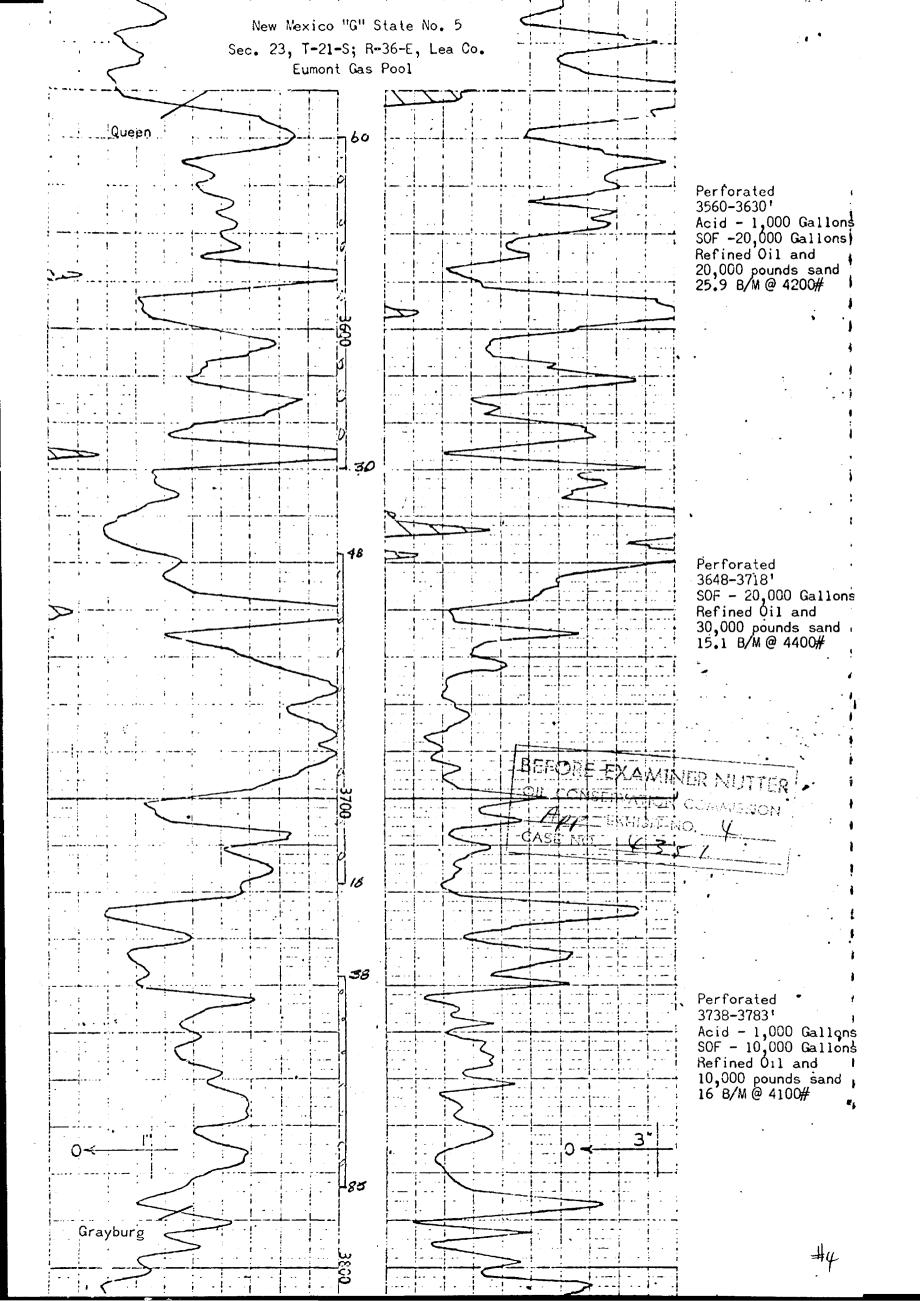
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ÇOMPANY HUMBLE OIL & REFINING

P. O. Box 2100 Hobbs, New Mexico 88240 March 23, 1970

Man 4351

Request Status Change of New Mexico "G" State 5. Reallocate 640-Acre Proration Unit, Section 23, T-21-S, R-36-E, Lea County, to New Mexico "G" State Wells 5 and 9 in Any Proportion

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

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

Executive Secretary-Director and State Geologist

Gentlemen:

Humble Oil & Refining Company respectfully requests administrative approval to reclassify New Mexico "G" State 5 as a gas well in the Eumont Queen Gas Pool. It is requested that the allowable for the 640-acre standard proration unit, comprising all of Section 23, T-21-S, R-36-E, now assigned to New Mexico "G" State 9, be reassigned to both wells 5 and 9, with permission to produce either well in any proportion. Well 5 is located in Unit E and Well 9 is located in Unit G.

New Mexico "G" State 5 is now classified as a Eumont Oil well. The following is a list of recent production tests:

<u>Date</u>	<u>Hours</u>	Mcf/Day	Bois. Oil	Bbls. Wat	er GOR	<u>T.P.</u>
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3-6-70	24	246	1	0	246,000	80#
3-8-70	24	250	0	0	* -	80#
3-12-70	Open l	Flow Potential	- 270 Mcf/Day (See	attached	test)	

New Mexico "G" State 9 is now classified as a Eumont Queen Gas well and is capable of only 1,000 Mcf per day. Both wells will be incapable of full allowable for the proration unit.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

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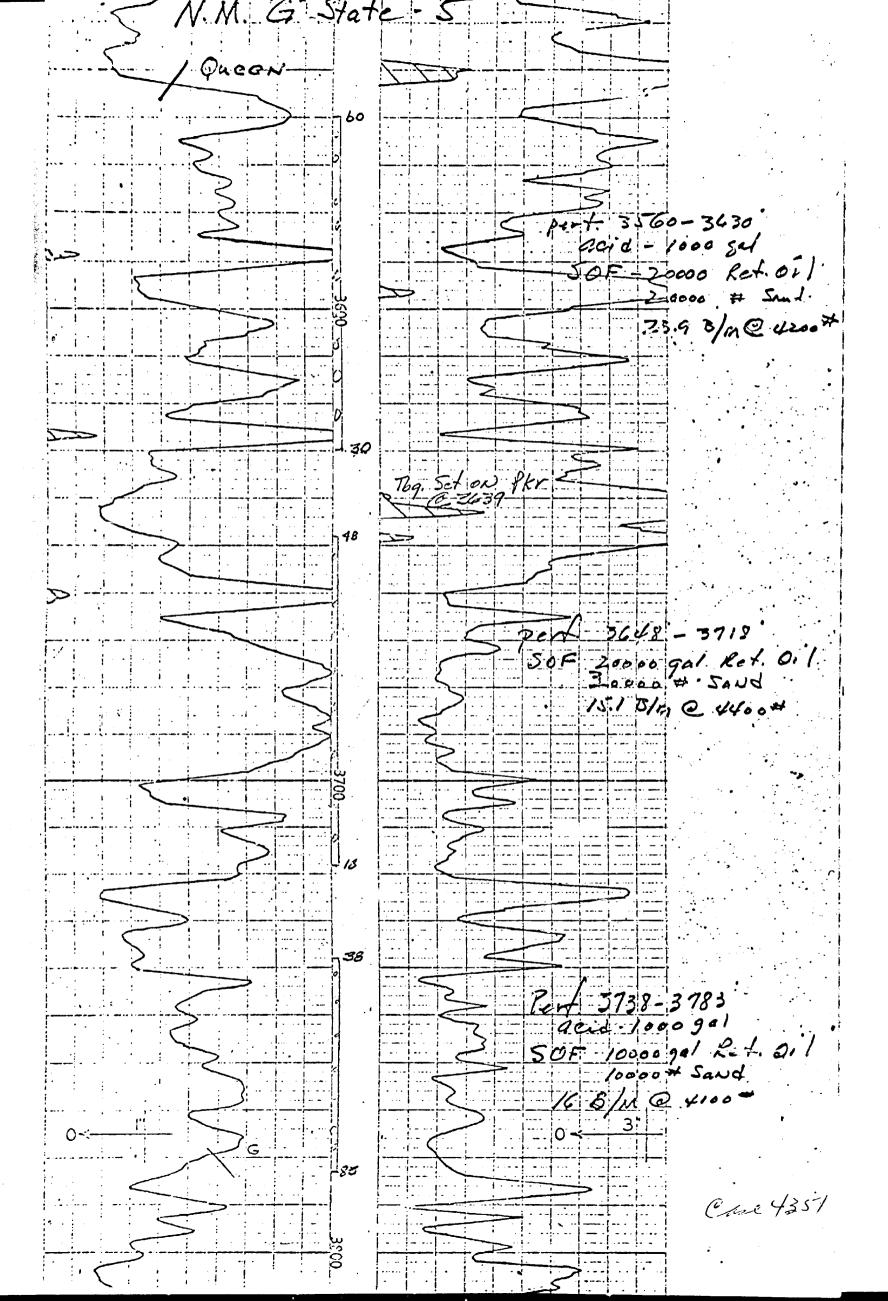
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GMH/esr
June 3, 1970

BEFORE THE OUL 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:

Shall

Sour

CASE No. 4351
Order No. R-3975

APPLICATION OF HUMBLE OIL & REFINING COMPANY FOR WELL RECLASSIFICATION AND SIMULTANEOUS DEDICATION OF ACREAGE, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMUSSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 13 , 1970 at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this day of June, 1970, 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 8

- (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, Humble Oil & Refining Company, is the owner and operator of the New Mexico "G" State Wells Nos. 5 and 9, located, respectively, in Units E and G of Section 23, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico.
- (3) That said Well No. 5 is presently classified as an oil well in the Eumont Gas Pool and that said Well No. 9 is presently classified as a gas well in the Eumont Gas Pool.
- (4) That the applicant seeks the reclassification of said Well No. 5 from an oil well to a gas well, the dedication of a standard 640-acre gas proration unit comprising all of said

Section 23 to said Wells Nos. 5 and 9, and authority to produce the allowable assigned to said unit from either of said wells in any proportion.

- (5) That said Well No. 5 now produces gas with no water or oil and should be reclassified as a gas well.
- (6) That the proposed standard gas proration unit can be efficiently and economically drained and developed by the subject wells.
- (7) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the Eumont Gas Pool, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

- (1) That, effective 1, 1970, the Humble Oil & Refining New Mexico
 Company/"G" State Well No. 5, located in Unit E of Section 23,
 Township 21 South, Range 36 East, NMPM Lea County, New Mexico,
 is hereby reclassified as a gar well in the Eumont Gas Pool.
- (2) That, effective 1, 1970, a 640-acre standard gas proration unit in the Eumont Gas Pool comprising all of Section 23, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico, is hereby established and simultaneously dedicated to the Humble 0il & Refining Company New Mexico "G" State Well No. 5, located in Unit E of said Section 23, and to the Humble Oil & Refining Company New Mexico "G" State Well No. 9, located in Unit G of said Section 23.
- (3) That the allowable assigned to the above-described gas proration unit shall be based upon the unit size of 640 acres; that the operator may produce the allowable assigned to the unit from the subject wells in any proportion; and that the status

of said consolidated unit shall be the status, as of 1, 1970, of the unit previously dedicated to the above-described Well No. 9.

(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.