

180 CASE 5749: SOUTHERN UNION SUPPLY
CO. FOR AN UNORTHODOX GAS WELL any
LOCATION, LEA COUNTY, NEW MEXICO

CASE NO.

5749

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,
ETC.

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
September 1, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of Southern Union Supply) CASE
Company for an unorthodox gas well) 5749
location, Lea County, New Mexico.)

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil	William F. Carr, Esq.
Conservation Commission:	Legal Counsel for the Commission
	State Land Office Building
	Santa Fe, New Mexico
For the Applicant:	Owen M. Lopez, Esq.
	MONTGOMERY, FEDERICI, ANDREWS
	AND HANNAHS
	Attorneys at Law
	P. O. Box 2307
	Santa Fe, New Mexico

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

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I N D E X

Page

ROY SHARROCK

Direct Examination by Mr. Lopez

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Cross Examination by Mr. Nutter

8

EXHIBIT INDEX

Offered Admitted

Applicant's Exhibit One, Map

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Applicant's Exhibit Two, Map

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Applicant's Exhibit Three, Log

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Applicant's Exhibit Four, Structure Map

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Applicant's Exhibit Five, Cross Section

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1 MR. NUTTER: We will call Case Number 5749.

2 MR. CARR: Case 5749, application of Southern Union
3 Supply Company for an unorthodox gas well location, Lea County,
4 New Mexico.

5 MR. LOPEZ: If the Examiner please, my name is Owen
6 Lopez with the firm of Montgomery, Federici, Andrews and
7 Hannahs, Santa Fe, New Mexico. I have one witness to be
8 sworn.

9 (THEREUPON, the witness was duly sworn.)

10
11 ROY SHARROCK
12 called as a witness, having been first duly sworn, was
13 examined and testified as follows:

14
15 DIRECT EXAMINATION

16 BY MR. LOPEZ:

17 Q Would you please state your name, residence, by
18 whom you are employed and in what capacity?

19 A My name is Roy Sharrock, I'm employed by Southern
20 Union Gas Company and I live in Dallas, Texas.

21 Q And what is your capacity as an employee of Southern
22 Union?

23 A I'm a geologist.

24 Q Have you previously testified before the Commission?

25 A No, I have not.

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1 Q Could you briefly state your educational background
 2 and employment history?

3 A I have a Bachelor of Science degree from Texas Tech
 4 University, a minor in mathematics and I have eighteen years
 5 of experience with various companies, W. W. West in Midland;
 6 Permian Basin Sample Lab in Midland; Duvall Corporation,
 7 Midland, Houston and Pecos Texas; and Southern Union Gas
 8 Company, Dallas.

9 Q Do your duties with Southern Union Gas Company
 10 involve its operations in New Mexico?

11 A Yes, I take care of all of the geological activity
 12 in New Mexico.

13 Q And you are familiar with the application in this
 14 case?

15 A Yes, sir, I am.

16 MR. LOPEZ: Are his qualifications acceptable?

17 MR. NUTTER: Yes, they are.

18 Q (Mr. Lopez continuing.) Would you, turning to the
 19 exhibits we propose to introduce, would you identify Exhibit
 20 One and explain what it means?

21 A Exhibit One is an area showing the periphery of
 22 sections around Section 8, Township 17 South, Range 34 East,
 23 Lea County, New Mexico. It shows the wells that have penetra-
 24 ted the Morrow formation, the hachure mark shows the area of
 25 interest.

1 Q What does Southern Union Supply Company propose
2 with this application?

3 A The primary reason they are requesting the unorthodox
4 location is to encounter the maximum Lower Morrow elastic
5 interval which includes a channel sand type facies. The
6 channel has not been attained in other wells drilled in the
7 immediate vicinity except the Susco No. 2 Gallagher State
8 location at six hundred and sixty feet from the south and west
9 lines of Section 8, Township 17 South, Range 34 East. This well
10 had thirty-eight feet of Lower Morrow channel sand which
11 exhibited low porosity and permeability on the E logs.

12 Morrow wells drilled to the south, southwest and
13 southeast and northeast do not display the channel on their
14 E log.

15 It is our belief that the channel runs in an east-
16 west direction and much better porosity and permeability will
17 be encountered in an east direction due to a lower depositional
18 position of the channel.

19 Q Now, turning to Exhibit Two will you please explain
20 what that means and identify it?

21 A Exhibit Two shows the surrounding leases around
22 Section 8, Township 17 South, Range 34 East. They are color
23 coded showing Southern Union Production Company, Superior,
24 J. A. Yates, Coat Exploration, Monsanto and J. C. Barnes, Mobil
25 and Pennzoil.

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1 Q Turning to Exhibit Three would you identify it and
2 explain what it means?

3 A Exhibit Three is a correlation and type log of the
4 area. It is a log of the No. 2 Gallagher State "8" drilled by
5 Southern Union Supply Company. It shows the top of the
6 Morrow lime, the top of the Morrow clastic and top of the
7 Morrow A zone, top of the Morrow B zone, top of the Lower
8 Morrow and top of the Morrow C zone, top of the Morrow channel
9 sand and the isopach interval which will be on Exhibit Four
10 and the top of the first Missippian.

11 Q Would you identify Exhibit Number Four and explain
12 what it means?

13 A Exhibit Number Four, the solid line shows -- is a
14 structural map on top of the Morrow lime and the dashed lines
15 show the isopach of the channel which was hit in the No. 2
16 Gallagher State "8" and our interpretation of the direction
17 of the channel.

18 Q Fine. Is there anything further you want to add?

19 A No.

20 Q Turning to Exhibit Number Five would you identify
21 it, please, and explain what it means?

22 A Exhibit Number Five is a cross section from Susco
23 No. 2 Gallagher State to Susco No. 1 Citgo State. It shows the
24 channel sand which we are trying to penetrate in our unorthodox
location.

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1 Q Is it your opinion that if your proposed application
2 is granted that the proposed well will effectively drain the
3 unit?

4 A Yes, sir.

5 Q Have you contacted the offset operators and received
6 any response?

7 A Yes, sir, we contacted all offset operators and
8 have received a response from a few.

9 Q At this point in time has anyone indicated that
10 they intend to protest your application?

11 A No.

12 Q Is it your opinion that if your application is
13 granted at the proposed unorthodox location that it will
14 prevent waste and protect correlative rights?

15 A Yes, sir.

16 Q Were these exhibits prepared by you or under your
17 direction?

18 A Yes, sir.

19 MR. LOPEZ: At this time, Mr. Examiner, I would
20 like to introduce Applicant's Exhibits One through Five.

21 MR. NUTTER: Exhibits One through Five will be
22 admitted into evidence.

23 (THEREUPON, Applicant's Exhibits One through
24 Five were admitted into evidence.)

25 MR. NUTTER: I didn't get your name, sir.

1 THE WITNESS: Roy Sharrock, S-h-a-r-r-o-c-k.

2 MR. NUTTER: Roy is the first name?

3 THE WITNESS: yes, sir.

4

5 CROSS EXAMINATION

6 BY MR. NUTTER:

7 Q Mr. Sharrock, has the Commission designated any pool
8 yet for these Morrow wells that you have already completed?

9 A The No. 2 has been designated in the Northwest Morrow
10 Vacuum Pool.

11 Q The Northwest Vacuum Morrow?

12 A Yes, sir.

13 Q And there are no pool rules in this area as of now,
14 are there?

15 A No, sir.

16 Q Other than the regular state-wide rules?

17 A That is correct, sir.

18 Q So I presume you are dedicating the east half of
19 Section 8 to this proposed well?

20 A That is correct.

21 Q And the location is unorthodox in that it should be
22 nineteen, eighty from the end boundary and six, sixty from
23 the --

24 A Yes, sir.

25 MR. NUTTER: Are there any other questions of the

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1 witness? He may be excused.

2 (THEREUPON, the witness was excused.)

3 MR. NUTTER: Do you have anything further, Mr. Lopez?

4 MR. LOPEZ: No, sir.

5 MR. NUTTER: Does anyone have anything they wish to
6 offer in Case Number 5749? We will take the case under
7 advisement.

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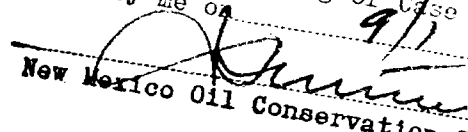
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REPORTER'S CERTIFICATE

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.

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I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 5749
heard by me on 9/1, 1976.
, Examiner
New Mexico Oil Conservation Commission

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. 5749
Order No. R-5279

APPLICATION OF SOUTHERN UNION SUPPLY
COMPANY FOR AN UNORTHODOX GAS WELL
LOCATION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 1, 1976, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 16th day of September, 1976, 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, Southern Union Supply Company, seeks approval of an unorthodox gas well location 660 feet from the South line and 1980 feet from the East line of Section 8, Township 17 South, Range 34 East, NMPM, to test the Morrow formation, North Vacuum-Morrow Gas Pool, Lea County, New Mexico.
- (3) That the E/2 of said Section 8 is to be dedicated to the well.
- (4) That a well at said unorthodox location will better enable applicant to produce the gas underlying the proration unit.
- (5) That no offset operator objected to the proposed unorthodox location.
- (6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic

-2-

Case No. 5749
Order No. R-5279

loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That an unorthodox gas well location for the Morrow formation is hereby approved for a well to be located at a point 660 feet from the South line and 1980 feet from the East line of Section 8, Township 17 South, Range 34 East, NMPM, North Vacuum-Morrow Gas Pool, Lea County, New Mexico.

(2) That the E/2 of said Section 8 shall be dedicated to the above-described well.

(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.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



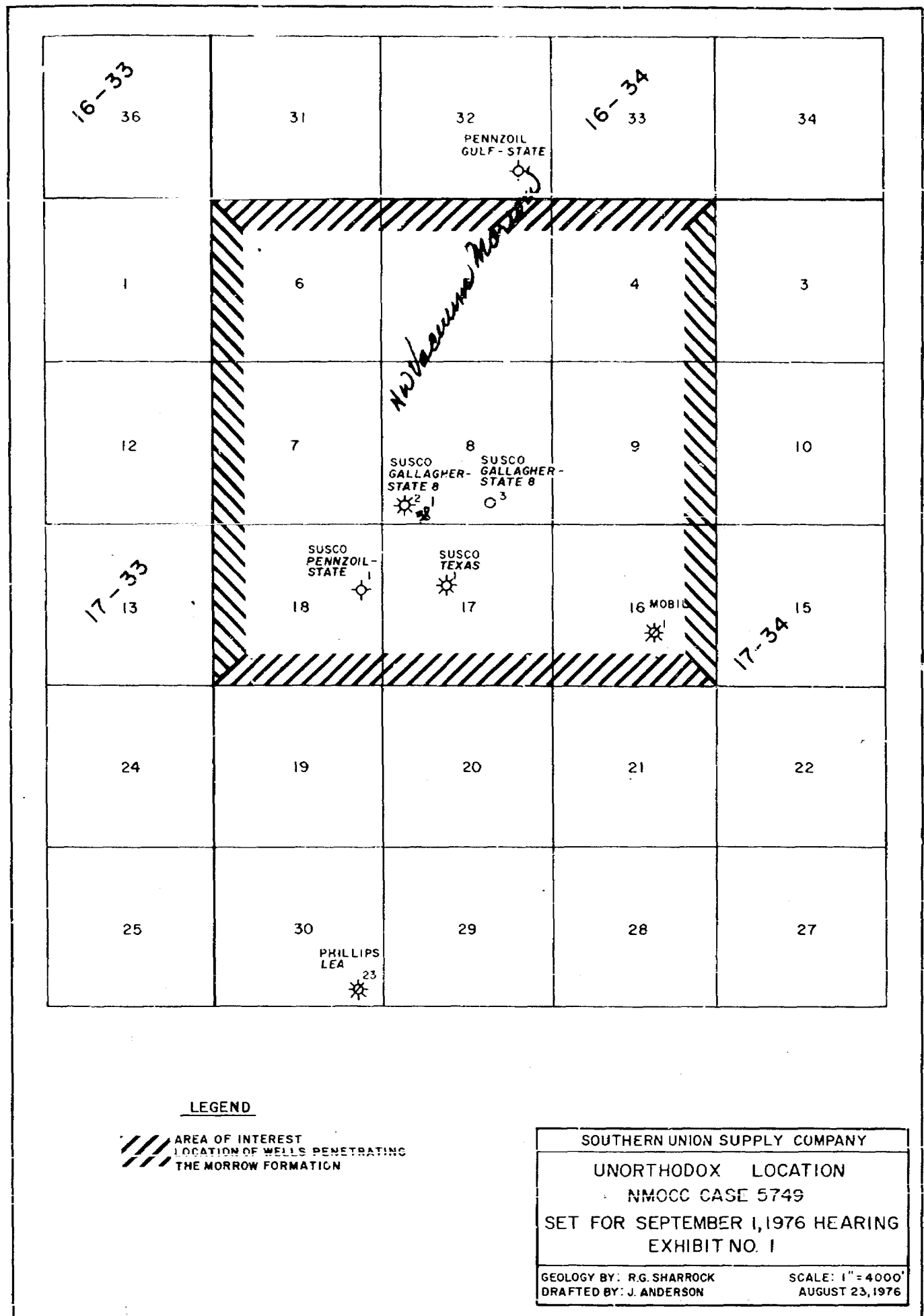
Phil R. Lucero
PHIL R. LUCERO, Chairman

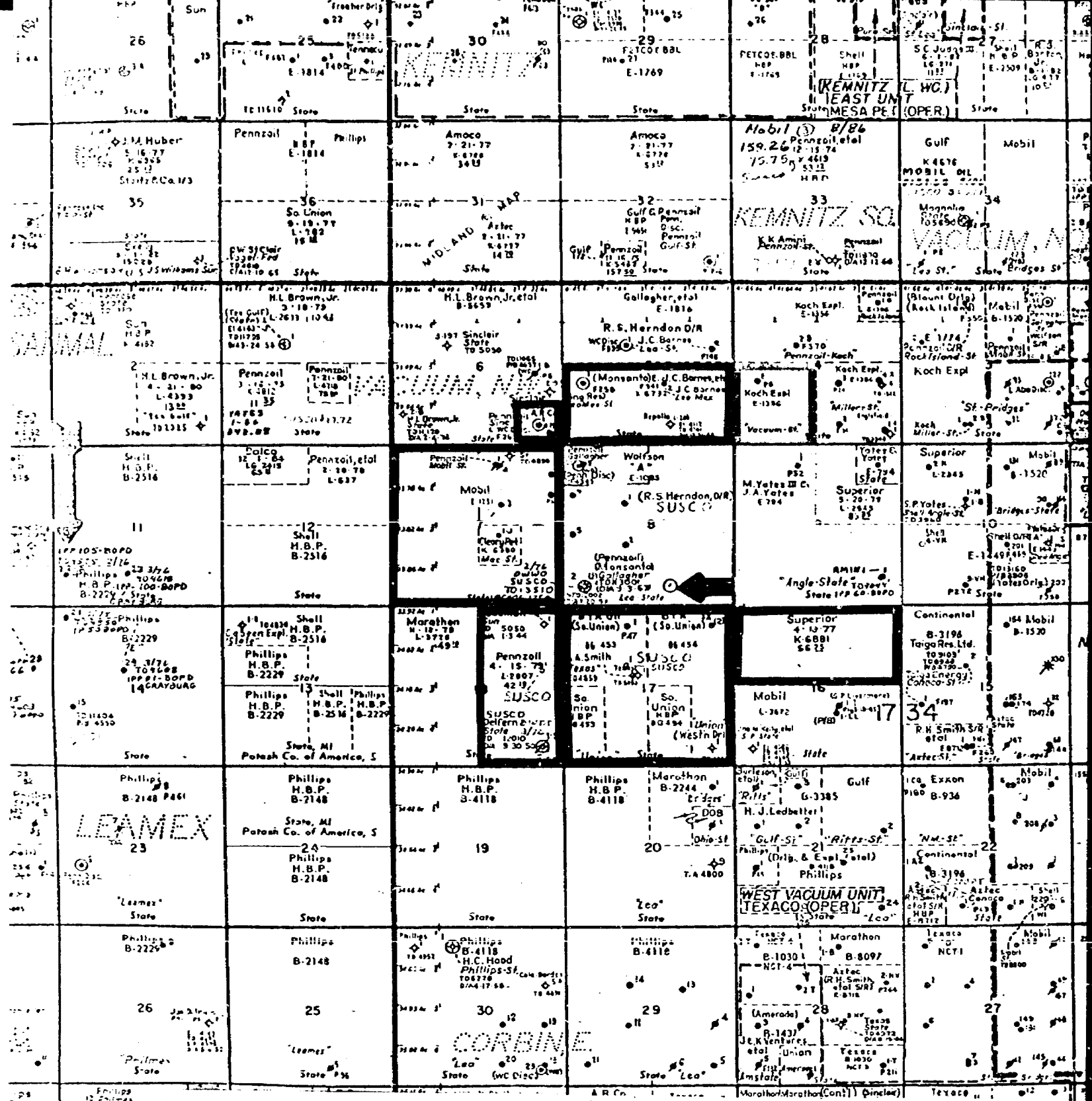
EMERY C. ARNOLD, Member

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

S E A L

dr/





LEDGEND

— SOUTHERN UNION PRODUCTION COMPANY

— SUPERIOR

— J. A. YATES and M. YATES III

— KOCH EXPLORATION

— MONSONTO and J. C. BARNES

— MOBIL

— PENNZOIL

SOUTHERN UNION SUPPLY COMPANY

UNORTHODOX LOCATION

NMOCC CASE 5749

SET FOR SEPTEMBER 1, 1976 HEARING

EXHIBIT NO. 2

GEOLOGY BY: RG SHARROCK

DRAFTED BY:

SCALE: 1" = 4000'

AUGUST 23, 1976

SOUTHERN UNION SUPPLY COMPANY

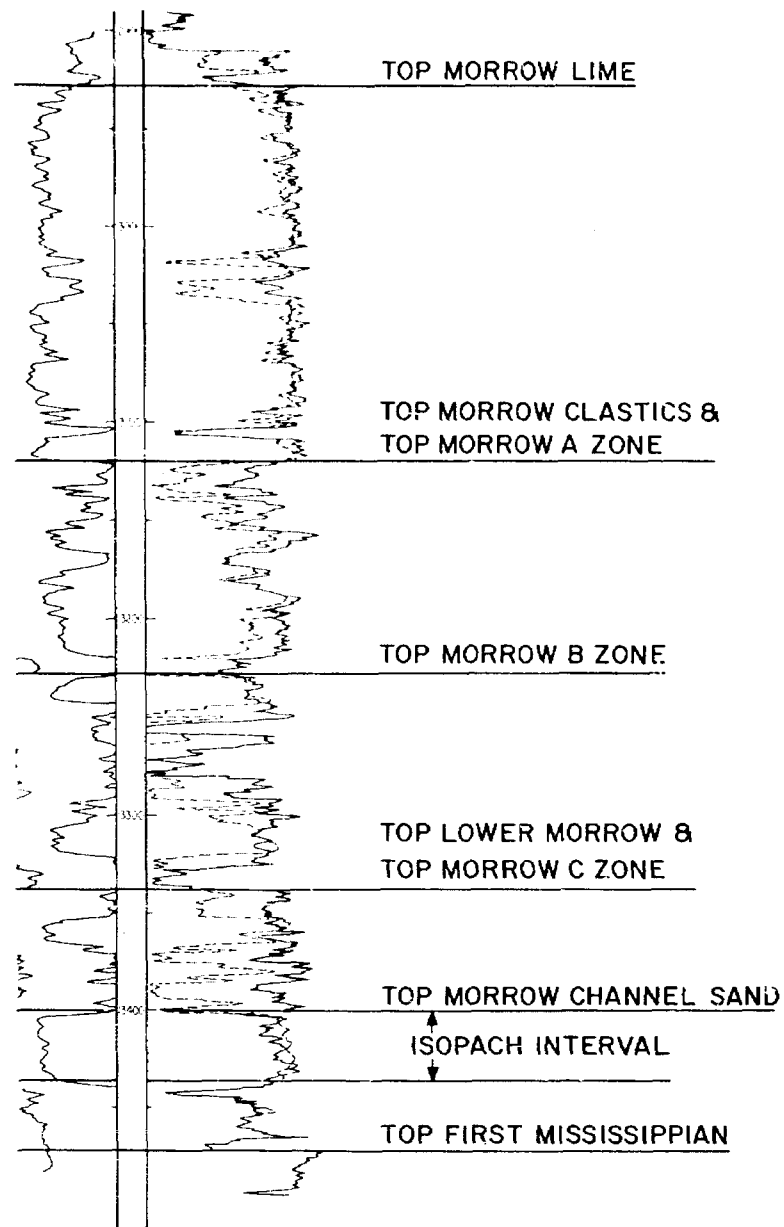
NO. 2 GALLAGHER - STATE '8'

660 FSL & 660 FWL

SECTION 8, T-17-S, R-34-E

LEA COUNTY, NEW MEXICO

CORRELATION & TYPE LOG



SOUTHERN UNION SUPPLY COMPANY

UNORTHODOX LOCATION

NMOCC CASE 5749

SET FOR SEPTEMBER 1, 1976, HEARING

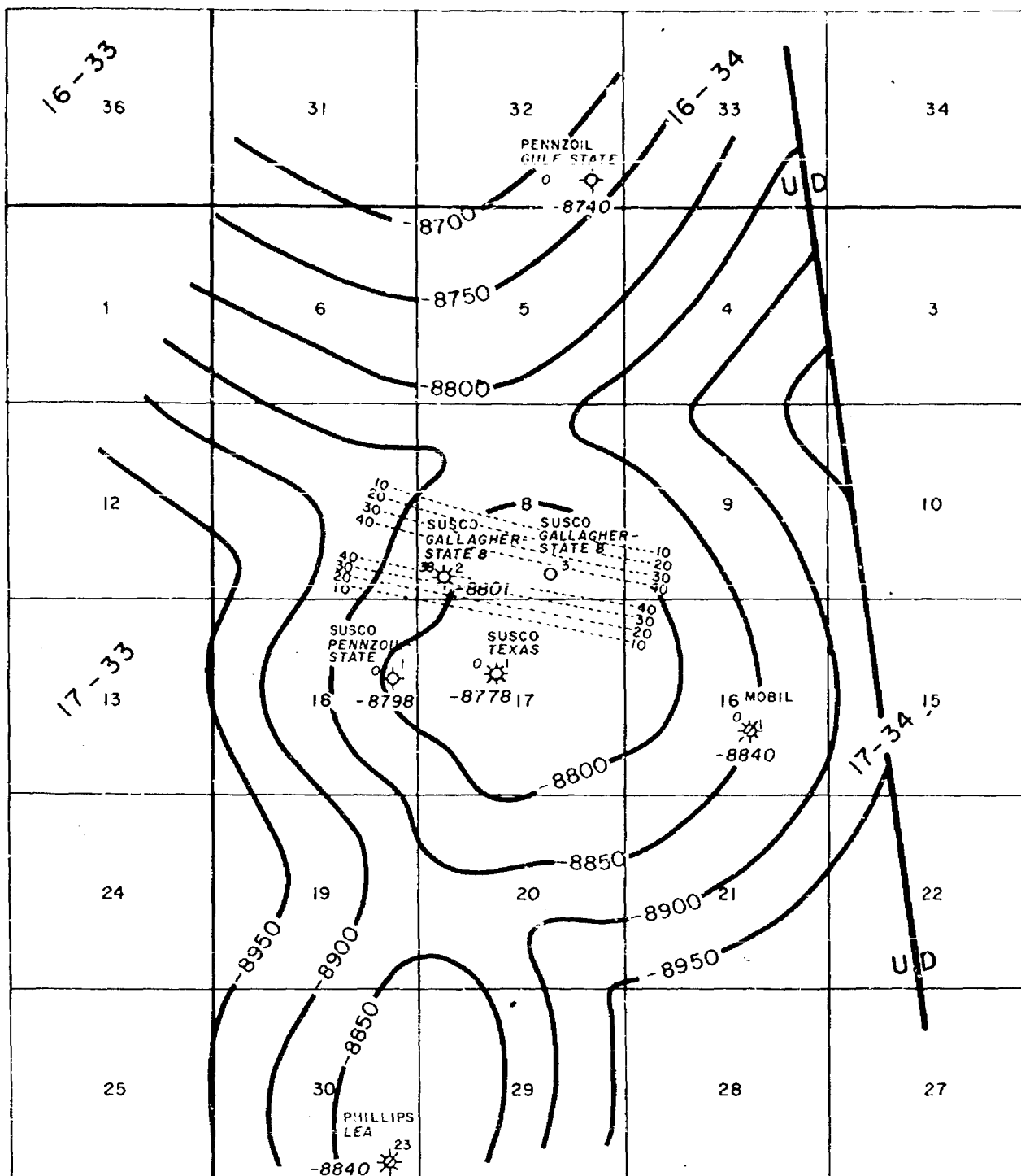
EXHIBIT 3

CORRELATION & TYPE LOG

GEOLOGY BY: RG SHARROCK

DRAFTED BY: J. ANDERSON

AUGUST 23, 1976



LEGEND

- TOP OF MORROW LIME STRUCTURE
- - - ISOPACH OF LOWER MORROW CHANNEL SAND

SOUTHERN UNION SUPPLY COMPANY

UNORTHODOX LOCATION
NMOCC CASE 5749
SET FOR SEPTEMBER 1, 1976 HEARING
EXHIBIT NO. 4

GEOLOGY BY: RG SHARROCK
DRAFTED BY: J. ANDERSON

SCALE: 1" = 4000'
AUGUST 23, 1976

SOUTHERN UNION SUPPLY COMPANY

NO. 2 GALLAGHER-STATE 'B'

660 FSL & 660 FWL
SECTION 8, T-17-S, R-34-E
LEA COUNTY, NEW MEXICO

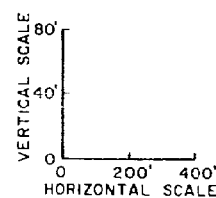
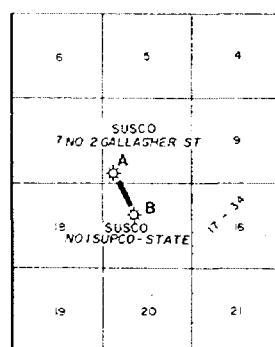
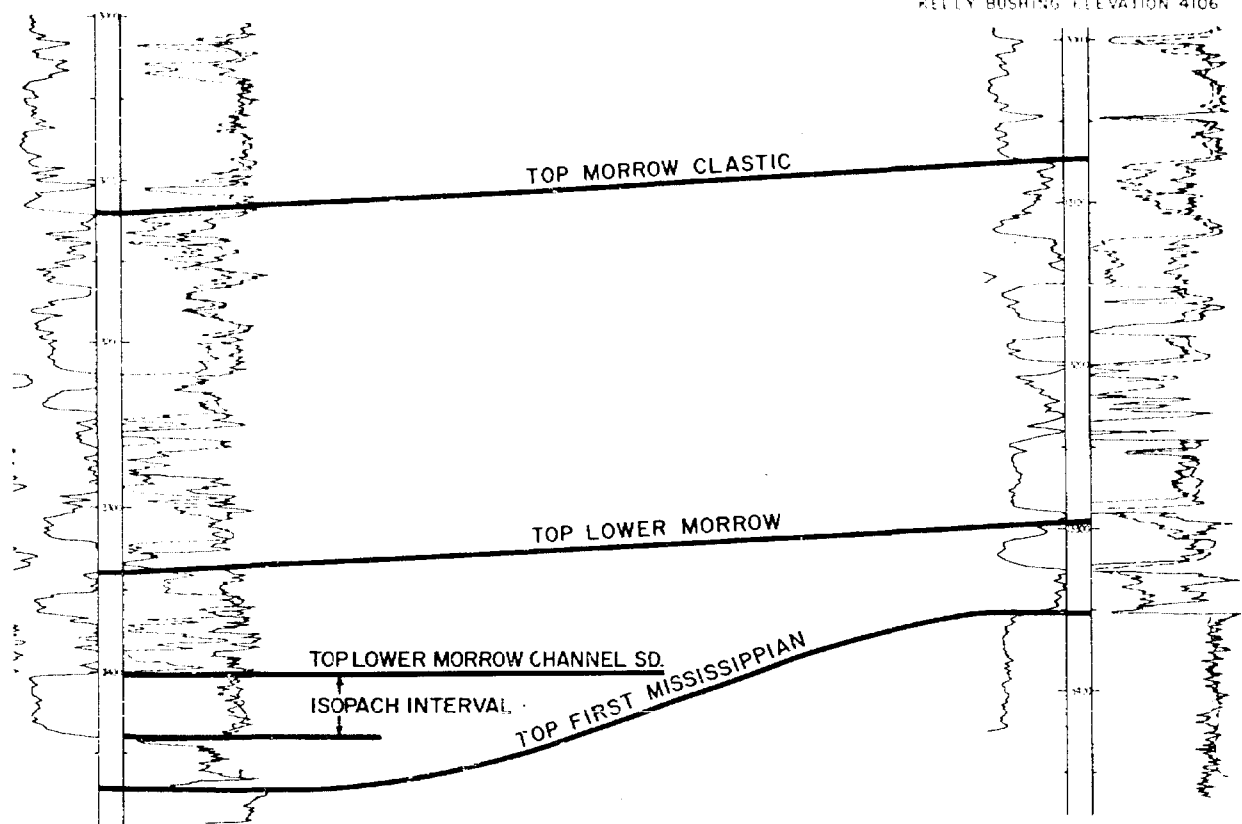
KELLY BUSHING ELEVATION 4127

SOUTHERN UNION SUPPLY COMPANY

NO. 1 SUPCO-STATE

NORTHWEST VACUUM MORROW FIELD
1980 FNL & 1980 FWL
SECTION 17, T-17-S, R-34-E
LEA COUNTY, NEW MEXICO

KELLY BUSHING ELEVATION 4106



SOUTHERN UNION SUPPLY COMPANY

UNORTHODOX LOCATION
NMOCC CASE 5749
SET FOR SEPTEMBER 1, 1976 HEARING
EXHIBIT 5
CROSS-SECTION A-B

GEOLOGY BY: RG SHARROCK DATUM SEA LEVEL
DRAFTED BY: J ANDERSON AUGUST 23, 1976

SOUTHERN UNION SUPPLY COMPANY

FIDELITY UNION TOWER

DALLAS, TEXAS 75201

August 13, 1976

File Case 5749
9/1
can

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

Attention: Mr. Dan Nutter

Re: Gallagher State "8" #3,
West Vacuum Field
1980' FEL and 660' FSL,
Section 8, T-17-S, R-34-E,
Lea County, New Mexico

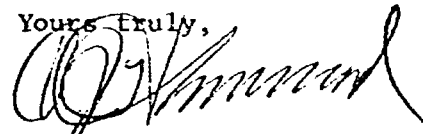
Gentlemen:

Southern Union Supply Company, as Operator, proposes to drill the subject well to a depth sufficient to test the Morrow formation and if we are successful we propose to dedicate a 320 acre tract, being the E/2 of Section 8, to this well. In response to your advice in our telephone conversation on this date this is to formally request you to grant us a hearing for this unorthodox location and you indicated that this hearing would be set for Wednesday, September 1, 1976. Among other parties representing us at the hearing will be a member of our Geological Department, Mr. Roy Sharrock.

We are, at this time, circulating a letter with a plat attached to all the surrounding leasehold owners to get their waiver to this unorthodox location and propose to present this evidence to you at that time.

Thank you again for your assistance in this connection and should you require anything further of us, please advise and it will be responded to very promptly.

Yours truly,



C. B. Hammond
Land Department

CJH:pm

Dockets Nos. 25-76 and 26-76 are tentatively set for hearing on September 15 and 29, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 1, 1976

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

The following cases will be heard before Daniel S. Rutter, Examiner, or Richard L. Stamets, Alternate Examiner:

- CASE 5747: Application of Atlantic Richfield Company for a non-standard gas proration unit, unorthodox location, and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a previously established 185-acre non-standard Eumont gas proration unit comprising the SW/4 and NW/4 of Section 19, Township 21 South, Range 36 East, Lea County, New Mexico, to be simultaneously dedicated to applicant's State "F" DE Wells Nos. 1 and 3, at unorthodox locations in Units E and K, respectively, of said Section 19.
- CASE 5748: Application of TERGAPET Management Corporation for an unorthodox gas well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled at a point 990 feet from the South and West lines of Section 31, Township 14 South, Range 28 East, Buffalo Valley-Pennsylvanian Gas Pool, Chaves County, New Mexico.
- CASE 5749: Application of Southern Union Supply Company for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Gallagher State "8" Well No. 3, proposed to be drilled at a point 660 feet from the South line and 1980 feet from the East line of Section 8, Township 17 South, Range 34 East, West Vacuum Field, Lea County, New Mexico.
- CASE 5750: Application of Cities Service Oil Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Southeast Maljamar G-SA Unit-Tract 1 Well No. 4 to be located 1355 feet from the South line and 1135 feet from the East line of Section 30, Township 17 South, Range 33 East, Maljamar Grayburg-San Andres Pool, Lea County, New Mexico.
- CASE 5751: Application of Phillips Petroleum Company for a special allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a capacity allowable for its U. S. Minerals Well No. 4 located in Unit O of Section 30, Township 17 South, Range 33 East, Maljamar Grayburg-San Andres Pool, Lea County, New Mexico, said well being a direct offset to an active waterflood project.
- CASE 5752: Application of Bettis, Boyle & Stovall for a special allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a capacity allowable for its V. H. Justis Well No. 2 located in Unit D of Section 20, Township 25 South, Range 37 East, Jalmat Oil Pool, Lea County, New Mexico, said well being a direct offset to an active waterflood project.
- CASE 5262: (Reopened)
- In the matter of Case 5262 being reopened pursuant to the provisions of Order No. R-4822-B, which order extended the special pool rules for Southwest Media-Entrada Oil Pool, Sandoval County, New Mexico, including a provision for 160-acre spacing and proration units and a special depth bracket allowable of 750 barrels of oil per day. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing and why the special depth bracket allowable should not be rescinded.
- CASE 5737: (Continued & Readvertised)
- Application of Howard Boatright for amendment of Order No. R-5208, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-5208 which authorized salt water disposal into the Delaware formation through applicant's State CS Well No. 1, located in Unit L of Section 17, Township 21 South, Range 27 East, Eddy County, New Mexico. Applicant seeks to increase the maximum injection pressure for said well from 400 psi to 800 psi, and also to amend the specified packer setting depth from 2975 feet to 2585 feet.
- CASE 5736: (Continued from August 18, 1976, Examiner Hearing)
- Application of BCO Inc. for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Basin Dakota Gas Pool and Lybrook-Gallup Oil Pool and undesignated Greenhorn and Mancos production in the wellbore of its Dunn Well No. 2, located in Unit F of Section 10, Township 23 North, Range 7 West, Rio Arriba County, New Mexico.

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. 5749

Order No. R- 5279

APPLICATION OF SOUTHERN UNION SUPPLY COMPANY
FOR AN UNORTHODOX GAS WELL LOCATION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 1, 19 76,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this day of September, 19 76, 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, Southern Union Supply Company, seeks
approval of an unorthodox gas well location 660 feet from the South
line and 1980 feet from the East line of Section 8, Township
17 South, Range 34 East, NMPM, to test the
Northern formation, North West Vacuum Field Merrow gas field
Lea County, New Mexico.

(3) That the E/2 of said Section 8 is to be dedicated to the
well.

(4) That a well at said unorthodox location will better enable
applicant to produce the gas underlying the proration unit.

(5) That no offset operator objected to the proposed unorthodox
location.

Case No. 5749

Order No. R-

(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That an unorthodox gas well location for the Marathon formation is hereby approved for a well to be located at a point 660 feet from the South line and 1980 feet from the East line of Section 8, Township 17 South, Range 34 East, NMPM, North ~~West Vacuum Field~~ Marathon Gas Pool ~~XXXXX~~ Lea County, New Mexico.

(2) That the E/2 of said Section 8 shall be dedicated to the above-described well.

(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.

Appl of
Southern Union Supply Co. for an
unorthodox gas well loc.,
Lea County, New Mexico

Applicant, in the above-styled cause,
seeks approval for the unorthodox
location of its Gallagher
State "8" No. 3, proposed to be drilled
at a point 660 feet from the South line
and 1980 feet from the East line Sec 8, T17S, R34E
West Vacuum Field, Lea Co.,
New Mexico.

Called in by Hammond
Southern Union Gas Co., Dallas