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Case No.

1283

Application, Transcript,
Small Exhibits, Etc.

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 17, 1957

TRANSCRIPT OF HEARING

Case 1283

DEARNLEY - MEIER & ASSOCIATES
INCORPORATED
GENERAL LAW REPORTERS
ALBUQUERQUE - SANTA FE
3-6691 2-2211

(d) Extend the Blanco-Mesaverde Pool to include: :

TOWNSHIP 28 NORTH, RANGE 9 WEST
Section 32: All

(e) Extend the Bisti-Lower Gallup Oil Pool to include:

TOWNSHIP 26 NORTH, RANGE 13 WEST
Section 36: NW/4

(f) Extend the Verde-Gallup Oil Pool to include: :

TOWNSHIP 31 NORTH, RANGE 14 WEST
Section 18: All

TOWNSHIP 31 NORTH, RANGE 15 WEST
Section 13: N/2

BEFORE:

Mr. A. L. Porter
Mr. Murray Morgan
Honorable Edwin L. Mechem

TRANSCRIPT OF HEARING

MR. COOLEY: Northwestern New Mexico nomenclature case calling for an order extending existing pools in San Juan and Rio Arriba Counties, New Mexico.

ELVIS A. UTZ

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

DIRECT EXAMINATION

By MR. COOLEY:

Q State your name and position.

A Elvis A. Utz, Engineer with the New Mexico Oil Conservation

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 17, 1957

IN THE MATTER OF:

Northwestern New Mexico nomenclature case calling
for an order extending existing pools in San Juan
and Rio Arriba Counties, New Mexico.

(a) Extend the Aztec-Pictured Cliffs Pool to
include:

TOWNSHIP 28 NORTH, RANGE 9 WEST

All of Sections 9, 10, 11, 12, 13 & 14

Section 15: E/2 & SW/4

Section 24: All

TOWNSHIP 31 NORTH, RANGE 11 WEST

Section 34: All

: Case
: 1283

(b) Extend the Otero-Pictured Cliffs Pool to
include:

TOWNSHIP 23 NORTH, RANGE 5 WEST

Section 9: N/2

Section 16: N/2

TOWNSHIP 24 NORTH, RANGE 5 WEST

Section 13: SW/4

Section 14: S/2

Section 21: NE/4

Section 22: N/2 & SE/4

All of Sections 23, 24, & 25

Section 31: S/2

(c) Extend the South Blanco-Pictured Cliffs Pool to
include:

TOWNSHIP 24 NORTH, RANGE 4 WEST

Section 5: W/2

TOWNSHIP 27 NORTH, RANGE 8 WEST

Section 4: All

Commission.

Q In your official capacity as Engineer for the New Mexico Oil Conservation Commission, have you had an opportunity to make a study of Northwestern nomenclature for the purpose of extending existing pools in San Juan and Rio Arriba Counties, New Mexico?

A Yes, sir, I have.

Q What are your recommendations concerning the extension of the Aztec-Pictured Cliffs Pool?

A I recommend that it be extended as advertised, on the basis of three wells capable of producing from that pool.

Q What are your recommendations concerning the Otero-Pictured Cliffs Pool?

A I recommend that it be extended as advertised, on the basis of ten wells capable of producing from that pool.

Q What are your recommendations concerning the extension of the South Blanco-Pictured Cliffs Pool?

A I recommend that the South Blanco-Pictured Cliffs Pool be extended as advertised, on the basis of three wells capable of producing from that pool.

Q What are your recommendations concerning the extension of the Blanco-Mesaverde Pool?

A Because of an error in advertising in the Farmington Daily Times, legal objection voiced thereto, I recommend that this be dismissed and readvertised next month.

Q Would you identify the source of the legal objection?

A I believe it was from the Oil Conservation Legal Department.

Q Do you have any recommendations concerning the extension of the Bisti-Lower Gallup Pool?

A I recommend that the Bisti-Lower Gallup Pool be extended as advertised, on the basis of one well capable of producing from that pool.

Q Do you have any recommendations concerning the Verde-Gallup Pool?

A I recommend that the Verde-Gallup pool be extended as advertised, on the basis of three wells capable of producing from that pool.

Q Do you have any further recommendations?

A I have no further recommendations.

Q Have you prepared an exhibit substantiating your recommendations here?

A I have prepared an exhibit which lists the recommendations as stated, together with the wells on which those wells are based.

Q How is that exhibit identified?

A Identified as Exhibit No. 1, Case 1283.

Q Was the exhibit prepared by you or under your supervision?

A Yes.

MR. COOLEY: We ask that the Exhibit 1 be admitted.

MR. PORTER: Without objection it will be admitted for the

record.

Anyone have a question of the witness?

CROSS EXAMINATION

By MR. KENDRICK:

Q Does Exhibit 1 contain the portion to be dismissed and readvertised?

A Yes, it does.

MR. PORTER: Any further questions? Mr. Utz may be excused.

(Witness excused.)

MR. PORTER: If nothing further in this case, the case will be taken under advisement. If nothing further to come before the Commission, the hearing is adjourned.

C E R T I F I C A T E

STATE OF NEW MEXICO)
: SS
COUNTY OF BERNALILLO)

I, *Paul Dearnley* Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this *8th* day of August, 1957.

Paul Dearnley
Notary Public-Court Reporter

My commission expires:

June 12, 1959

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 1283
Order No. R-1024

THE APPLICATION OF THE OIL CONSERVATION
COMMISSION UPON ITS OWN MOTION FOR AN
ORDER EXTENDING CERTAIN POOLS IN RIO
ARRIBA AND SAN JUAN COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 17, 1957, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 30th day of July, 1957, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, 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 there is need for certain extensions to the Aztec-Pictured Cliffs Pool, the Bisti-Lower Gallup Oil Pool, and the Verde-Gallup Oil Pool, all in San Juan County, New Mexico, to the Otero-Pictured Cliffs Pool in Rio Arriba County, New Mexico, and to the South Blanco-Pictured Cliffs Pool in San Juan and Rio Arriba Counties, New Mexico. Further, that the proposed extension of the Blanco Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, should be dismissed for readvertisement.

IT IS THEREFORE ORDERED:

(a) That the Aztec-Pictured Cliffs Pool in San Juan County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 28 NORTH, RANGE 9 WEST, NMPM
Section 9, 10, 11, 12, 13, and 14: All
Section 15: E/2 and SW/4
Section 24: All

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM
Section 34: All

(b) That the Otero-Pictured Cliffs Pool in Rio Arriba County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 23 NORTH, RANGE 5 WEST, NMPM
Section 9: E/2
Section 16: N/2

TOWNSHIP 24 NORTH, RANGE 5 WEST, NMPM
Section 13: SW/4
Section 14: S/2
Section 21: NE/4
Section 22: N/2 and SE/4
Sections 23, 24, and 25: All
Section 31: S/2

(c) That the South Blanco-Pictured Cliffs Pool in Rio Arriba and San Juan Counties, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 24 NORTH, RANGE 4 WEST, NMPM
Section 5: W/2

TOWNSHIP 27 NORTH, RANGE 8 WEST, NMPM
Section 4: All

(d) That the proposed extension to the Blanco Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein

TOWNSHIP 28 NORTH, RANGE 9 WEST, NMPM
Section 32: All

be and the same is hereby dismissed.

(e) That the Bisti-Lower Gallup Oil Pool in San Juan County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 26 NORTH, RANGE 13 WEST, NMPM
Section 35: NW/4

(f) That the Verde-Gallup Oil Pool in San Juan County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 31 NORTH, RANGE 14 WEST, NMPM
Section 18: All

TOWNSHIP 31 NORTH, RANGE 15 WEST, NMPM
Section 13: N/2

-3-
Case No. 1283
Order No. R-1024

IT IS FURTHER ORDERED:

That the effective date of this order and of all of the extensions included therein shall be August 1, 1937.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


EDWIN L. MECHEM, Chairman


MURRAY E. MORGAN, Member


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



ir/

DOCKET: REGULAR HEARING JULY 17, 1957

Oil Conservation Commission 9 a.m., Mabry Hall, State Capitol, Santa Fe, NM

- ALLOWABLE: (1) Consideration of the oil allowable for August, 1957.
- (2) Consideration of the allowable production of gas for August, 1957, from the seven prorated pools in Lea County, New Mexico; also consideration of the allowable production of gas from the six prorated pools in San Juan and Rio Arriba Counties, New Mexico, for August, 1957.

CASE 1275: Application of Shell Oil Company for an exception to Rule 309 of the Commission Rules and Regulations to permit the transportation of oil from the basic lease prior to measurement, and to produce more than eight wells into a central plant, and to commingle production from the participating area of the Carson Unit with production from other wells in the area. Applicant, in the above-styled cause, seeks an order authorizing off-lease measurement of oil produced from the Bisti-Lower Gallup Oil Pool and an undesignated Lower Gallup Oil Pool in Township 25 North, Range 11 West, and Township 25 North, Range 12 West, San Juan County, New Mexico, by means of an automatic custody transfer system; and to authorize the production of more than eight wells into a central testing and measuring plant and further, to authorize the commingling of non-participating area production with participating area production in the Carson Unit, with royalty payments to be calculated by means of periodic production rate tests.

CASE 1276: Application of Amerada Petroleum Corporation for an order amending Order No. R-991 insofar as said order pertains to the Bagley-Lower Pennsylvanian Gas Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order amending Order No. R-991 to extend the horizontal limits of the Bagley-Lower Pennsylvanian Gas Pool to include the S/2 Section 34, Township 11 South, Range 33 East, and the NE/4 Section 3, Township 12 South, Range 33 East, Lea County, New Mexico, and to increase the size of the standard drilling unit for said pool from 160 acres to 320 acres and to enter such other rules and regulations for said pool as the Commission may deem necessary.

CASE 1277: Application of the Oil Conservation Commission at the request of Wilson Oil Company for an order establishing a new oil pool with special pool rules in the Potash-Oil Area, Lea County, New Mexico, in accordance with Section 3, Paragraph III, of Order R-111-A. Applicant, in the above-styled cause, seeks an order creating a new oil pool in the area of Wilson Oil Company's recently completed oil well located in the NE/4 NE/4 Section 21, Township 20 South, Range 34 East, Lea County, New Mexico; and for the promulgation of special pool rules to govern future drilling in said pool in order to afford adequate protection for the potash deposits in the area.

CASE 1278: In the matter of the hearing called by the Oil Conservation Commission upon its own motion to permit Roy T. Short and the Hartford Accident and Indemnity Company and all other interested parties to appear and show cause why the Roy T. Short, et al, Millard Eidson No. B-3 Well located in the SW/4 SE/4 of Section 26, Township 16 South, Range 35 East, in the Shoe Bar Area of Lea County, New Mexico, should not be ordered plugged and abandoned in accordance with the Rules and Regulations of the Oil Conservation Commission of New Mexico.

CASE 1279: In the matter of the hearing called by the Oil Conservation Commission upon its own motion to permit Roy T. Short, M. N. Hamilton, Apache Basin Oil Company, and Basin Oil Company, and all other interested parties to appear and show cause why the hole located 660 feet from the South and West lines of Section 25, Township 16 South, Range 35 East, Lea County, New Mexico, should not be ordered plugged and abandoned in accordance with the Rules and Regulations of the Oil Conservation Commission of New Mexico.

CASE 1280: Application of Sunray Mid-Continent Oil Company for an order authorizing a pilot secondary recovery project in the Bisti-Lower Gallup Oil Pool in exception to Rule 701 of the Commission Rules and Regulations. Applicant, in the above-styled cause, seeks an order authorizing it to drill and operate a well at a point five feet southeast of the northwest corner of Section 6, Township 25 North, Range 12 West, San Juan County, New Mexico, for the injection of liquified petroleum gases and dry gas into the Lower Gallup formation of the Bisti-Lower Gallup Oil Pool for the purpose of secondary recovery of oil from said pool.

CASE 1281: Application of Skelly Oil Company for approval of an unorthodox oil well location in an undesignated oil pool in Rio Arriba County, New Mexico, in exception to Rule 104 of the Commission Rules and Regulations. Applicant, in the above-styled cause, seeks an order authorizing an unorthodox oil well location in an undesignated oil pool for its Jicarilla "B" Well No. 2 located 1590 feet from the South line and 990 feet from the East line of Section 31, Township 25 North, Range 5 West, Rio Arriba County, New Mexico. Said well was projected as a gas well in accordance with the Commission gas well location rules but was found to be productive of oil.

CASE 1282: Southeastern New Mexico Nomenclature case calling for an order creating new pools and extending and deleting certain areas from existing pools in Eddy and Lea Counties, New Mexico.

(a) Create a new oil pool for Grayburg production, designated as the Teague-Grayburg Pool, and described as:

TOWNSHIP 23 SOUTH, RANGE 37 EAST
Section 20: SE/4

- (b) Create a new oil pool for Pennsylvanian production, designated as the Kemnitz-Pennsylvanian Pool, and described as:

TOWNSHIP 16 SOUTH, RANGE 33 EAST
Section 13: SE/4

- (c) Extend the Dollarhide-Drinkard Pool to include:

TOWNSHIP 24 SOUTH, RANGE 38 EAST
Section 19: NW/4
Section 20: W/2 SW/4

- (d) Extend the Drinkard Pool to include:

TOWNSHIP 22 SOUTH, RANGE 37 EAST
Section 27: E/2 NE/4

- (e) Extend the Gladiola Pool to include:

TOWNSHIP 12 SOUTH, RANGE 37 EAST
Section 25: N/2 NE/4

TOWNSHIP 12 SOUTH, RANGE 38 EAST
Section 17: NW/4
Section 18: N/2 NE/4

- (f) Extend the North Gladiola-Devonian Pool to include:

TOWNSHIP 11 SOUTH, RANGE 38 EAST
Section 32: SE/4

TOWNSHIP 12 SOUTH, RANGE 38 EAST
Section 6: SW/4
Section 7: NW/4
Section 8: NW/4

- (g) Extend the West Henshaw-Grayburg Pool to include:

TOWNSHIP 16 SOUTH, RANGE 30 EAST
Section 4: SE/4
Section 5: SE/4
Section 8: NE/4

- (h) Extend the Langlie-Mattix Pool to include:

TOWNSHIP 23 SOUTH, RANGE 36 EAST
Section 4: E/2 SE/4

- (i) Extend the Pearl-Queen Pool to include:

TOWNSHIP 19 SOUTH, RANGE 35 EAST
Section 22: S/2 SE/4

- (j) Extend the Townsend-Wolfcamp Pool to include:

TOWNSHIP 16 SOUTH, RANGE 36 EAST
Section 6: W/2 SW/4

- (k) Extend the Terry-Blinebry Pool to include:

TOWNSHIP 21 SOUTH, RANGE 37 EAST
Section 3: Lot 16
Section 4: Lot 1

- (l) Delete the following area from the Blinebry Gas Pool:

TOWNSHIP 21 SOUTH, RANGE 37 EAST
Section 3: Lot 16
Section 4: Lot 1

CASE 1283: Northwestern New Mexico nomenclature case calling for an order extending existing pools in San Juan and Rio Arriba Counties, New Mexico.

- (a) Extend the Aztec-Pictured Cliffs Pool to include:

TOWNSHIP 23 NORTH, RANGE 9 WEST
All of Sections 9, 10, 11, 12, 13, & 14
Section 15: E/2 & SW/4
Section 24: All

TOWNSHIP 31 NORTH, RANGE 11 WEST
Section 34: All

- (b) Extend the Otero-Pictured Cliffs Pool to include:

TOWNSHIP 23 NORTH, RANGE 5 WEST
Section 9: E/2
Section 16: N/2

TOWNSHIP 24 NORTH, RANGE 5 WEST
Section 13: SW/4
Section 14: S/2
Section 21: NE/4
Section 22: N/2 & SE/4
All of Sections 23, 24, & 25
Section 31: S/2

- (c) Extend the South Blanco-Pictured Cliffs Pool to include:

TOWNSHIP 24 NORTH, RANGE 4 WEST
Section 5: W/2

TOWNSHIP 27 NORTH, RANGE 8 WEST
Section 4: All

(d) Extend the Bianco-Mesaverde Pool to include:

TOWNSHIP 28 NORTH, RANGE 9 WEST
Section 32: All

(e) Extend the Bisti-Lower Gallup Oil Pool to include:

TOWNSHIP 26 NORTH, RANGE 13 WEST
Section 36: NW/4

(f) Extend the Verde-Gallup Oil Pool to include:

TOWNSHIP 31 NORTH, RANGE 14 WEST
Section 18: All

TOWNSHIP 31 NORTH, RANGE 15 WEST
Section 13: N/2

CONTINUED CASES

CASE 1221: Application of the Oil Conservation Commission on its own motion for an order amending Commission Order R-586 insofar as it relates to the Byers-Queen and Tubb Gas Pools. Applicant, in the above-styled cause, seeks an order amending the Special Rules and Regulations for the Tubb Gas Pool to make provision in said rules for the regulation of oil wells completed within the defined limits of said pool; and further to consider the deletion of that portion of Order R-586 relating to the Byers-Queen Gas Pool.

CASE 1261: Application of Gulf Oil Corporation and Western Oil Fields, Inc., for an order force pooling certain acreage in the Blinebry and Tubb Gas Pools, Lea County, New Mexico. Applicants, in the above-styled cause, seek an order force pooling the interests of all persons having any right, title or interest in the Blinebry and Tubb formations underlying the SW/4 Section 30, Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 1262: Application of Gulf Oil Corporation and Western Oil Fields, Inc., for an order force pooling certain acreage in the Blinebry and Tubb Gas Pools, Lea County, New Mexico. Applicants, in the above-styled cause, seek an order force pooling the interest of all persons having any right, title or interest in the Blinebry and Tubb formations underlying the SE/4 Section 30, Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 1263: Application of Gulf Oil Corporation and Western Oil Fields, Inc., for an order force pooling certain acreage in the Blinebry and Tubb Gas Pools, Lea County, New Mexico. Applicants, in the above-styled cause, seek an order force pooling the interests of all persons having any right, title or interest in the Blinebry and Tubb formations underlying the NE/4 Section 25, Township 22 South, Range 37 East, Lea County, New Mexico.

CASE 1264: Application of Gulf Oil Corporation and Western Oil Fields, Inc., for an order force pooling certain acreage in the Blinbry and Tubb Gas Pools, Lea County, New Mexico. Applicants, in the above-styled cause, seek an order force pooling the interests of all persons having any right, title or interest in the Blinbry and Tubb formations underlying the SE/4 Section 25, Township 22 South, Range 37 East, Lea County, New Mexico.

CASE 1265: Application of R. Olsen Oil Company for an order force pooling certain acreage in the Justis Gas Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order force pooling the interests of all persons having any right, title or interest in the Glorieta formation of the Justis Gas Pool underlying the NE/4 Section 23, Township 25 South, Range 37 East, Lea County, New Mexico.

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RECOMMENDED EXTENSIONS FOR THE REGULAR JULY 17, 1957 HEARING

Aztec Pictured Cliffs

Township 28N, Range 9W (San Juan County)

Section 9, All
Section 10, All
Section 11, All
Section 12, All
Section 13, All
Section 14, All
Section 15, E/2 and SW/4
Section 24, All

Township 31 N, Range 11W (San Juan County)

Section 34, All

based on:

El Paso Natural Gas #2 McCulley
1850/S; 1090/W, Section 14-28N-9W
AOF 5926 MCF; SICP 792 #10 days

El Paso Natural Gas #5 Warren
1850/N; 1750/E, Section 24-28N-9W
AOF 2984 MCF; SICP 780#7 days

El Paso Natural Gas #1 Turner "A"
1850/S; 1650/W, Section 34-31N-11W
AOF 2543 MCF; SICP 655#7 days

Otero Pictured Cliffs

Township 23N, Range 5W, (Rio Arriba County)

Section 9, E/2
Section 16, N/2

Township 24N, Range 5W (Rio Arriba County)

Section 13, SW/4
Section 14, S/2
Section 21, NE/4
Section 22, N/2 and SE/4
Section 23, All
Section 24, All
Section 25, All
Section 31, S/2

based on:

Humble Oil & Refining #4 Jicarilla
890/N; 890/E, Section 16-23N-5W
AOF 4185 MCFPD; SICP 694#7 days

Ken Blackford #1-13 Jicarilla
990/S; 990/W, Section 13-24N-5W
IP 450 MCFPD

Ken Blackford #1-14 Jicarilla
990/S; 990/E, Section 14-24N-5W
IP 2740 MCF; SICP 680#7 days

R & G #9 Jicarilla
808/S; 1065/W, Section 14-24N-5W
IP 1500 (est) MCF; SICP 760#7 days

R & G #14 Jicarilla
990/N; 1650/E, Section 23-24-5W
IP 720 MCFPD; SICP 720#7 days

Otero Pictured Cliffs (Cont.)

Ken Blackford #1-23 Jicarilla
990/N; 990/W, Section 23-24N-5W
IP 2130 MCFPD; SICP 660#

Ken Blackford #2-24 Jicarilla
990/S; 1100/W, Section 24-24N-5W
IP 2130 MCFPD; SICP 700#/7 days

Ken Blackford #1-24 Jicarilla
990/S; 1650/E, Section 24-24N-5W
IP 1381 MCFPD; SICP 690#/8 days

Ken Blackford #1-25 Jicarilla
1650/N; 1650/E, Section 25-24N-5W
IP 1358 MCFPD; SICP 715#/21 days

Humble Oil & Refining #5 Jicarilla "H"
890/S; 890/W, Section 31-24N-5W
AOF 4176 MCFP SICP 671#/7 days

South Blanco Pictured Cliffs

Township 24N, Range 4W, Rio Arriba County

Section 5, W/2

Township 27N, Range 8W, San Juan County

Section 4, All

based on:

El Paso Nat. Gas #2 Jicarilla "H"
990/S; 1600/W, Section 5-24N-4W
AOF 1154 MCF; SICP 938#/35 days

R & G Drilling #33 Graham
980/N; 800/E, Section 4-27N-8W
IP 4000 MCF; SICP 800#

R & G Drilling #32 Graham
1765/S; 850/E, Section 4-27N-8W
AOF 3530 MCF; SICP 851#/11 days

Blanco Mesaverde

(d) Township 28N, Range 9W (San Juan County)

Section 32, All

based on:

El Paso Nat. Gas #3Daum
1750/S; 990/W, Section 32-28N-9W
AOF 4908 MCF; SICP 1058#/25 days

(e) Bisti Lower Gallup Oil Pool

Township 26N, Range 13W, (San Juan County)

Section 36, NW/4

based on:

Phillips Petroleum #1 Hospah "C"
1980/N; 1980/W, Section 36-26N-13W
IP 118 BOPD, 38 gravity

Verde Gallup Oil Pool

Township 31N, Range 14W, (San Juan County)

Section 18, All

Township 31N, Range 15W, (San Juan County)

Section 13, N/2

based on:

Pubco Petroleum #18-1 Ute Mountain
734/N; 540/E, Section 18-31N-14W
IP 30 BOPD

Pubco Petroleum #18-5 Ute Mountain
1980/N; 660/W, Section 18-31N-14W
IP 340 BOPD

Pubco Petroleum #18-13 Ute Mountain
660/S; 660/W, Section 18-31N-14W
IP 286 BOPD