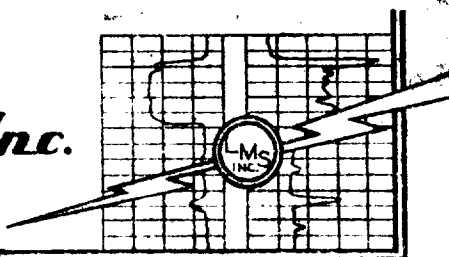


Log-Master Services, Inc.

ENID, OKLAHOMA



TYPE OF SURVEY

Electric Log

Well

Ray # 2

Field

Chaco Wash Mesa Verde

Company

Scanlon & Shepard

Location

Sec. 28 20-9

County

McKinley

State

N. Mex.

Well

Ray # 2

Company

County

McKinley

State

N. Mex.

Location

Sec. 28 20-9

Date

August 16, 1962

Depth Datum

G. L.

Elev.

Bottom Depth: Log

355'

Driller

Size Hole

Mud: Kind

Weight

Viscosity

Resistivity

'F.

Casing Data

Cased To 315'

Remarks:

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO.

CASE NO.

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 4 a b c d e

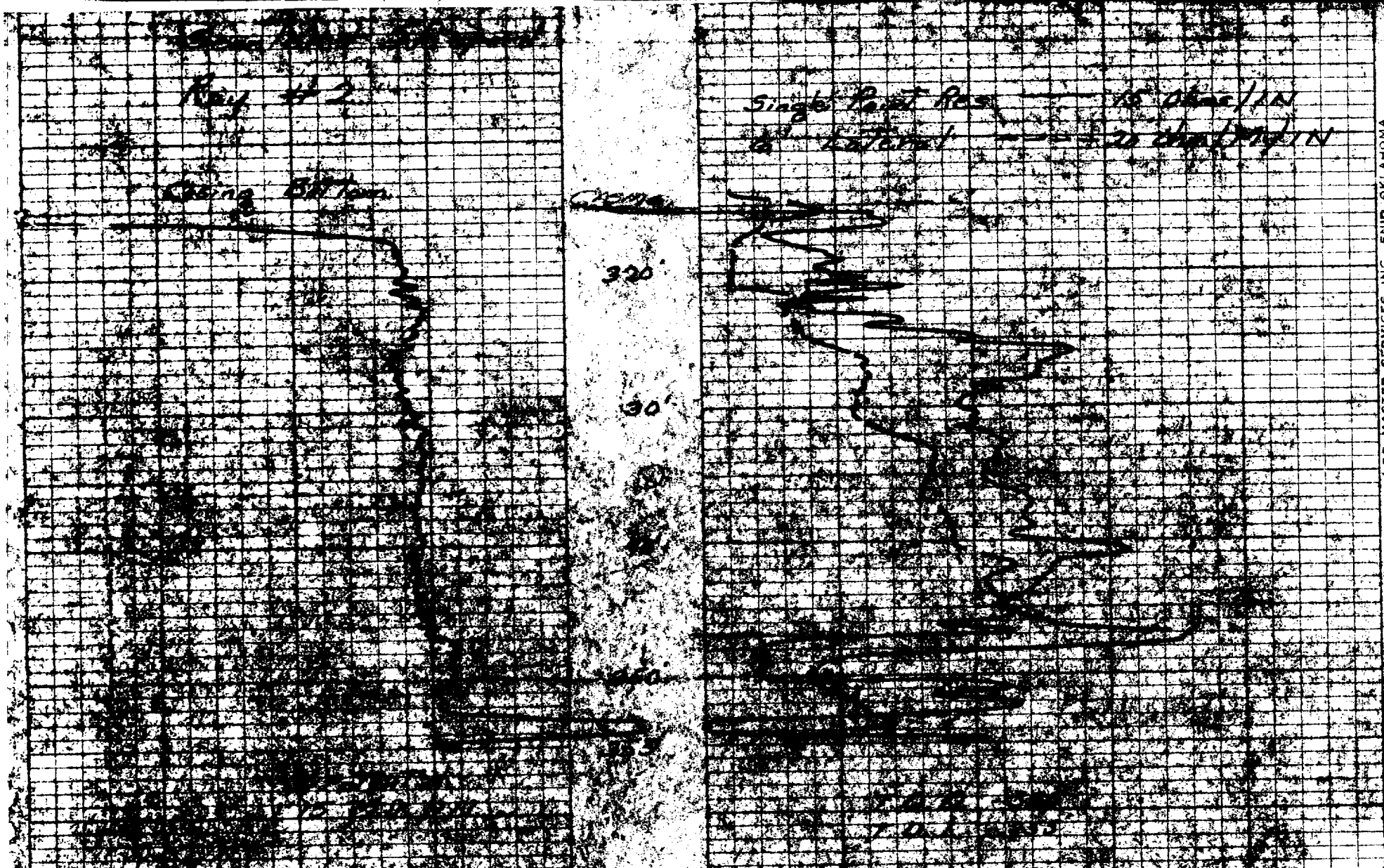
CASE NO. 2729

Date

August 16, 1962

Observer

E. Critchlow



LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY <u>Lea</u> FIELD or LOCATION <u>Drinkard</u> WELL <u>Eubanks # 3</u> COMPANY <u>Cone-Markam and Redfern</u>	COMPANY <u>CONE-MARKAM AND</u>	Location of Well
	<u>REDFERN</u>	1980' f SL
	WELL <u>EUBANKS # 3</u>	1830' f WL
	FIELD <u>DRINKARD</u>	Sec. 14-21S-37E
	LOCATION <u>SEC. 14-21S-37E</u>	
COUNTY <u>LEA</u>	Elevation: D.F.: <u>3424</u>	
STATE <u>NEW MEXICO</u>	<u>WJ</u> K.B.: <u>3425</u>	
	or G.L.: <u>3417</u>	
	FILING No. _____	

RUN No.	<u>1</u>				
Date	<u>12-18-52</u>				
First Reading	<u>7524</u>				
Last Reading	<u>2860</u>				
Feet Measured	<u>2664</u>				
Csg. Schlum.	<u>2860</u>				
Csg. Driller	<u>2865</u>				
Depth Reached	<u>7527</u>				
Bottom Driller	<u>7525</u>				
Depth Datum	<u>KB 8.75' Abv. GL</u>				
Mud Nat.	<u>Caustic</u>				
" Density	<u>9.1</u>				
" Viscosity	<u>40</u>				
" Resist.	<u>1.5 @ 60 °F</u>	@ °F	@ °F	@ °F	@ °F
" Res. BHT	<u>.7 @ 130 °F</u>	@ °F	@ °F	@ °F	@ °F
" pH	<u>8 @ °F</u>	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	<u>10 CC 30 min.</u>	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	<u>130</u>				
Bit Size	<u>7 3/4"</u>				
Spcgs.—AM	<u>10"</u>				
A	<u>32" LS</u>				
AO	<u>19'</u>				
Opr. Rig Time	<u>3 Hrs.</u>				
Truck No.	<u>1758-Hobbs</u>				
Recorded By	<u>Lee</u>				
Witness By	<u>Storm</u>				

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. 1805
Order No. R-1533

APPLICATION OF CHACO OIL COMPANY
FOR AN ORDER AUTHORIZING A WATER
FLOOD PROJECT IN THE RED MOUNTAIN
OIL POOL, MCKINLEY COUNTY, NEW
MEXICO, AND FOR ELEVEN UNORTHODOX
WATER INJECTION WELL LOCATIONS

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 10, 1959, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 23rd day of November, 1959, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, 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 proposes to institute a water flood project in the Red Mountain Oil Pool by the injection of water into the Menefee zone of the Mesaverde formation through the following-described 11 wells at unorthodox locations in Township 20 North, Range 9 West, NMPM, McKinley County, New Mexico:

Well No. I-1, located 980 feet from the South line
and 2025 feet from the East line of Section 20;

Well No. I-2, located 490 feet from the South line
and 2300 feet from the East line of Section 20;

Well No. I-3, located 80 feet from the South line
and 2280 feet from the East line of Section 20;

Well No. I-4, located 310 feet from the North line and 2290 feet from the East line of Section 29;

Well No. I-5, located 615 feet from the North line and 1920 feet from the East line of Section 29;

Well No. I-6, located 600 feet from the North line and 1500 feet from the East line of Section 29;

Well No. I-7, located 370 feet from the North line and 1150 feet from the East line of Section 29;

Well No. I-8, located 15 feet from the North line and 1130 feet from the East line of Section 29;

Well No. I-9, located 450 feet from the South line and 1145 feet from the East line of Section 20;

Well No. I-10, located 900 feet from the South line and 1280 feet from the East line of Section 20;

Well No. I-11, located 1330 feet from the South line and 1490 feet from the East line of Section 20.

(3) That the applicant further proposes that an administrative procedure be established to permit the relocation of injection wells at other unorthodox locations in the event that the injection wells drilled as herein proposed should prove to be productive of oil.

(4) That the producing wells in the area to be water-flooded are substantially depleted.

(5) That the operation of the proposed pilot water flood project should be governed by Rule 701 of the Commission Rules and Regulations, including those provisions regarding allocation of allowables.

IT IS THEREFORE ORDERED:

(1) That the applicant be and the same is hereby authorized to institute a water flood project in the Red Mountain Oil Pool by the injection of water into the Menefee zone of the Mesaverde formation through the following-described wells at unorthodox locations in Township 20 North, Range 9 West, NMPM, McKinley County, New Mexico:

Well No. I-1, located 980 feet from the South line and 2025 feet from the East line of Section 20;

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. 2729
Order No. R-2419

APPLICATION OF SCANLON & SHEPARD
FOR A WATERFLOOD PROJECT, CHACO
WASH-MESAVERDE OIL POOL, MCKINLEY
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on January 23, 1963, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 1st day of February, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, 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, Scanlon & Shepard, seeks permission to institute a waterflood project to be known as the Chaco Wash Waterflood Project in the Chaco Wash-Mesaverde Oil Pool in Sections 21, 22, 27, and 28, Township 20 North, Range 9 West, NMPM, McKinley County, New Mexico, with the initial injection of water into the Mesaverde formation through three wells located in Unit P of Section 21, Township 20 North, Range 9 West, NMPM, McKinley County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That the proposed waterflood project is in the interest of conservation and should result in recovery of otherwise unrecoverable oil.
- (5) That the subject application should be approved and should be governed by the provisions of Rule 701, including the

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CASE No. 2729

Order No. R-2419

allowable provisions thereof, and including the provisions with respect to expansion of the waterflood project.

IT IS THEREFORE ORDERED:

(1) That the applicant, Scanlon & Shepard, is hereby authorized to institute the Chaco Wash Waterflood Project in the Chaco Wash-Mesaverde Oil Pool in Sections 21, 22, 27, and 28, Township 20 North, Range 9 West, NMPM, McKinley County, New Mexico, with injection of water into the Mesaverde formation through the following wells:

Scanlon & Shepard-Santa Fe Well No. 5;
Scanlon & Shepard-Santa Fe Well No. 7;
Scanlon & Shepard-Santa Fe Well No. 8;

all in Unit P of Section 21, Township 20 North, Range 9 West, NMPM, McKinley County, New Mexico.

(2) That the subject waterflood project shall be governed by the provisions of Rule 701, including the allowable provisions thereof, and including the provisions with respect to expansion of the waterflood project.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.


(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


JACK M. CAMPBELL, Chairman


E. S. WALKER, Member


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

