

Case 2457

J. M. HERVEY 1874-1953

HIRAM M. DOW  
CLARENCE E. HINKLE  
W. E. BONDURANT, JR.  
GEORGE H. HUNKER, JR.  
HOWARD C. BRATTON  
S. B. CHRISTY IV  
LEWIS C. COX, JR.  
PAUL W. EATON, JR.

CONRAD E. COFFIELD  
HAROLD L. HENSLEY, JR.

LAW OFFICES  
HERVEY, DOW & HINKLE

HINKLE BUILDING

ROSWELL, NEW MEXICO

November 22, 1961

TELEPHONE MAIN 2-6510  
POST OFFICE BOX 10

Mr. Dick Morris  
New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Dear Dick:

Enclosed herewith please find an Application of Murphy H. Baxter for permission to institute a Waterflood project in the Maljamar Grayburg-San Andres Pool, which Application has three exhibits attached. This is the Application about which I talked to you on the phone today, and which it is my understanding you are advertising for the December 11th Examiner hearing.

I am forwarding two copies of it and we will furnish additional copies at the hearing.

If there is any further information which you need, in connection with this matter, please let me hear from you.

Very truly yours,

HERVEY, DOW & HINKLE

  
Howard C. Bratton

HCB:lm

Enclosures

cc: Mr. Phillip G. Dalbow

*Deed  
Miles  
P2*



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

November 28, 1961

ADDRESS CORRESPONDENCE TO:  
STATE CAPITOL  
SANTA FE, N. M.

Mr. A. L. Porter, Jr.  
Secretary-Director  
Oil Conservation Commission  
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Murphy H. Baxter which seeks to institute a secondary recovery pilot water flood project on his three state leases in Sections 17 and 18, Township 17 South, Range 32 East and in Section 13, Township 17 South, Range 32 East which is dated November 20, 1961.

I have a letter from Mr. Dolbow, Petroleum Engineer for Mr. Baxter and schematic drawings showing injection well detail which indicate that tubing and packer will be used in the injection and the packer will be set well below the top of the cement which surrounds the production string. It appears from the letter and the drawings that no threat of contamination to any fresh waters which may exist in the area will occur. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds  
State Engineer

FEI/ma  
cc-Philip G. Dolbow  
Howard C. Bratton  
F. H. Hennighausen

By: *Frank E. Irby*  
Frank E. Irby  
Chief  
Water Rights Division

LYNCH, CHAPPELL, ALLDAY & ALDRIDGE

RAYMOND A. LYNCH (1913-1971)  
CLOVIS G. CHAPPELL, JR.  
MARTIN L. ALLDAY  
CHARLES C. ALDRIDGE  
RANDALL LUNDY  
KENNETH W. NORDEMAN  
GARY G. WISENER  
JAMES M. ALSUP  
ROBERT A. SPEARS  
D. BRUCE POPE  
DAVID W. CHILDRESS

ATTORNEYS  
201 WALL TOWERS EAST  
MIDLAND, TEXAS 79701

AREA CODE 915  
683-3351

November 28, 1972

Mr. Dan Nutter  
Oil Conservation Commission  
Santa Fe, New Mexico 87501

Mr. Ray Graham  
Office of the Commissioner of Public Lands  
~~Santa Fe, New Mexico 87501~~

Re: State Leases #B-2148 and #B-2229

Gentlemen:

You will recall that I have had several conversations with each of you concerning the contemplated operations by our client, Murphy H. Baxter, who operates the above leases insofar as they cover the following lands in Lea County, New Mexico:

B-2148 - E/2, E/2 SW/4, and Lots 3 and 4 of Section 18, T-17-S, R-33-E; and

B-2229 - SE/4 of Section 13, T-17-S, R-32-E.

The indicated leases have been the subject of Oil Conservation Commission Order CTB No. 30, dated September 8, 1958, and Order R-2156 dated January 3, 1962, Administrative Orders WFX No. 149 dated August 21, 1963, WFX No. 173 dated May 1, 1964, WFX No. 185 dated October 20, 1964, WFX No. 211 dated June 18, 1965, and Order No. R-2156-A, copies of which are enclosed together with a plat of the Maljamar (Grayburg-San Andres) Field Area where these leases exist.

The beneficiary institution for both leases is the Common Schools as indicated in the enclosed certificate No. 2007.

Working interests in said leases and lands as well as the royalty is common as is an override owned by Phillips Petroleum

Mr. Dan Nutter  
Oil Conservation Commission

November 28, 1972

Mr. Ray Graham  
Office of the Commissioner of Public Lands      Page 2

Company. Some eight (8) parties own various overriding royalty interests in the E/2 of Section 18 who do not own any interests in the SW/4 of Section 18 nor the SE/4 of Section 13.

Baxter has heretofore received administrative approval to drill an infill well in the center of the SW/4 of Section 18 which has been drilled. Approval for an infill well in the center of the SE/4 of Section 18 has been administratively granted and will soon be drilled. The enclosed plat shows producing wells and injection wells.

In the future Baxter desires to seek administrative approval to drill two additional infill wells which would be located on or near the North-South half-section line in Section 18 and on the Section line between Sections 13 and 18 at approximately the locations designated by squares on the attached plat.

*Copy enclosed* → In order to accomplish the foregoing and pursuant to a suggestion by Mr. Nutter, I have prepared an instrument designated "Pooling Agreement" for signature by all parties owning an interest in production from the two leases except the State of New Mexico. This instrument, if executed, would have the effect of spreading the now existing override in the E/2 of Section 18 throughout the pooled area on an equal basis. We have chosen to ignore the fact that the SW/4 of Section 18 with its two lots does not actually contain exactly 160 acres simply because the variation of interests would be so small as to not warrant such unless it be insisted upon by some party to the instrument. The working interests have been appropriately adjusted to accommodate the spreading of the override throughout the tracts involved.

Another reason for our "pooling" effort is to be able to utilize common tankage on the two leases which I assume could be approved since all interests in production would be common once the instrument is signed.

Both of you are requested to review the enclosures and advise me as soon as possible as to any recommended changes or if you see any flaws in accomplishing what is desired, i.e., obtaining the right to drill the two infill wells and to utilize common

Mr. Dan Nutter  
Oil Conservation Commission

November 28, 1972

Mr. Ray Graham  
Office of the Commissioner of Public Lands    Page 3

tankage. Please check with each other if you are of a mind to do so and call me collect if you have questions or suggestions. We would, of course, like to have both your agencies approve the Pooling Agreement if possible and would appreciate comment with respect to this desire.

Yours truly,

MLA/meb

Martin L. Allday

cc: Murphy H. Baxter

LYNCH, CHAPPELL, ALLDAY & ALDRIDGE

RAYMOND A. LYNCH (1913-1971)  
CLOVIS G. CHAPPELL, JR.  
MARTIN L. ALLDAY  
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ROBERT A. SPEARS  
D. BRUCE POPE  
DAVID W. CHILDRESS

ATTORNEYS

201 WALL TOWERS EAST  
MIDLAND, TEXAS 79701

AREA CODE 915  
683-3351

December 20, 1972

Mr. Ray D. Graham  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Mr. Dan Nutter  
Oil Conservation Commission  
Santa Fe, New Mexico 87501

Gentlemen:

Please refer to my past correspondence pertaining to pooling of State Leases B-2148 and B-2229. I know that this is an extremely difficult time of the year for everyone, but if it is at all possible, I would like to have some indication as to your reaction on my November 28, 1972 letter before the end of the year so that we might make appropriate steps in the direction that is recommended.

Many thanks for your help.

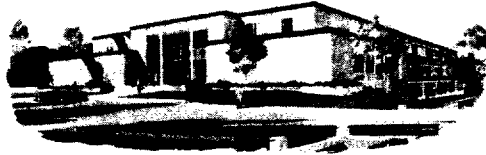
Merry Christmas

A handwritten signature in dark ink, appearing to read 'Martin L. Allday', with a stylized flourish at the end.

Martin L. Allday

MLA/meb

# State of New Mexico



TELEPHONE  
505-827-2748

## Commissioner of Public Lands

ALEX J. ARMIJO  
COMMISSIONER

January 19, 1973

P. O. BOX 1148  
SANTA FE, NEW MEXICO

Mr. Martin L. Allday  
Lynch, Chappell, Allday & Aldridge  
Attorneys At Law  
201 Wall Towers East  
Midland, Texas 79701

Re: State of New Mexico Oil and Gas Lease Nos. B-2148 and B-2229

Dear Mr. Allday:

This is in reply to your recent correspondence concerning the contemplated operations by Mr. Murphy H. Baxter on the subject leases. We have no objection to the plan of operations as submitted, inasmuch as both leases are of the same beneficiary.

We have no jurisdiction over the distribution of the working interests and overriding royalty interests under the subject leases. These interests may be distributed in any manner satisfactory to the owners thereof.

In the absence of a formal unit agreement the royalties received from the production of each lease must be attributed to the respective lease.

We realize the possible inequities of drilling infill wells to be located not closer than 10' to the section line between Sections 13 and 18 will occur between leases; but again, in the absence of a formal unit agreement, this appears to be the only way this operation can be handled.

If we can be of further assistance, please advise.

Very truly yours,

*Ray D. Graham*  
RAY D. GRAHAM, DIRECTOR  
OIL AND GAS DIVISION

RDG:cw

cc: Commissioner

Mr. Dan Nutter ✓ New Mexico Oil Conservation Commission



LYNCH, CHAPPELL, ALLDAY & ALDRIDGE

RAYMOND A. LYNCH (1913-1971)  
CLOVIS G. CHAPPELL, JR.  
MARTIN L. ALLDAY  
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D. BRUCE POPE  
DAVID W. CHILDRESS

ATTORNEYS

201 WALL TOWERS EAST  
MIDLAND, TEXAS 79701

AREA CODE 915  
683-3351

December 20, 1972

Mr. Ray D. Graham  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Mr. Dan Nutter  
Oil Conservation Commission  
Santa Fe, New Mexico 87501

Gentlemen:

Please refer to my past correspondence pertaining to pooling of State Leases B-2148 and B-2229. I know that this is an extremely difficult time of the year for everyone, but if it is at all possible, I would like to have some indication as to your reaction on my November 28, 1972 letter before the end of the year so that we might make appropriate steps in the direction that is recommended.

Many thanks for your help.

Merry Christmas

A handwritten signature in dark ink, appearing to read 'Martin L. Allday', with a stylized flourish at the end.

Martin L. Allday

MLA/meb

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 23, 1973

*File  
Case 2457*

Lynch, Chappell, Allday & Aldridge  
201 Wall Towers East  
Midland, Texas 79701

Attention: Mr. Martin L. Allday

Gentlemen:

Reference is made to the pooling agreement which you have prepared for circulation to owners of interests in State Lease B-2148 covering the E/2, E/2 SW/4, and Lots 3 and 4 of Section 18, Township 17 South, Range 33 East, and State Lease B-2229 covering the SE/4 of Section 13, Township 17 South, Range 32 East, Lea County, New Mexico.

Purpose of the pooling agreement would be to remove any inequities which might result from the drilling of an infill water flood producing well on or near the line separating the leases, and to permit handling and storage of the production from the two leases in common facilities although there is a small difference in the overriding royalty attributable to each lease.

Insofar as the Oil Conservation Commission is concerned, we feel that the agreement, when executed by the parties thereto, will afford ample protection for all concerned, and should be approved.

Very truly yours,

DANIEL S. NUTTER  
Chief Engineer

DSN/dr

cc: State Land Office  
Attention: Mr. Ray Graham

GOVERNOR  
EDWIN L. MECHEM  
CHAIRMAN

## New Mexico

### OIL CONSERVATION COMMISSION

LAND COMMISSIONER, MURRAY E. MORGAN  
MEMBER

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



P. O. Box 871  
Santa Fe, New Mexico

September 8, 1958

Murphy H. Baxter, et al  
c/o Raymond A. Lynch  
Midland National Bank Building  
Midland, Texas

Administrative Order CTB No. 30

Gentlemen:

Reference is made to your application dated August 19, 1958, for administrative approval of an exception to Rule 309 (a) of the Rules and Regulations of the Oil Conservation Commission to permit the commingling of the oil produced from the following described State of New Mexico oil and gas leases in the Maljamar Pool, to-wit:

State Lease No. B-2148  
Township 17 South, Range 33 East, NMPM  
Section 18: SW/4

State Lease No. B-2229  
Township 17 South, Range 32 East, NMPM  
Section 13: SE/4

By the authority vested in me under the provisions of Rule 309 (b) of the Rules and Regulations of the Oil Conservation Commission of New Mexico, I hereby authorize you to commingle the production from the above-described leases from the Maljamar Pool in a common tank battery.

Nothing contained herein shall be construed as authorizing the production of more than sixteen wells into a single tank battery.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/EJF/og


cc: Oil Conservation Commission - Hobbs  
Oil & Gas Engineering Committee - Hobbs

C E R T I F I C A T E

N O . 2 0 0 7

I hereby certify that I have carefully and thoroughly examined and searched the records of the office of Commissioner of Public Lands of the State of New Mexico and find that the beneficiary institution is Common Schools for the  $N\frac{1}{2}$  of Section 17, and the  $E\frac{1}{2}$  and  $SW\frac{1}{4}$  of Section 18, in Township 17 South, Range 33 East, N.M.P.M., and that title to this land passed to the State of New Mexico from the United States Government, in Clear List No. 21, approved on November 25, 1916, under the provisions of the Act of Congress approved June 20, 1910 (36 Stat., 557), in part satisfaction of its grant of 1,000,000 acres, in Payment of Bonds issued by Santa Fe and Grant Counties, free from conflicts or other adverse claims of record and not mineral in character; that these bonds have been discharged; and that under the terms of the grant, the beneficiary institution has been changed to Common Schools:

THAT the beneficiary institution is Common Schools for the  $SE\frac{1}{4}$  of Section 13, Township 17 South, Range 32 East, N.M.P.M., and that title to this land passed to the State of New Mexico from the United States Government, in Clear List No. 111 of School Indemnity Land Selections, approved on May 31, 1919, as indemnity for losses to the grant for the support of Common Schools, made under the provisions of the Acts of Congress approved June 20, 1910 (36 Stat., 557), free from conflicts or other adverse claims of record and not mineral in character:



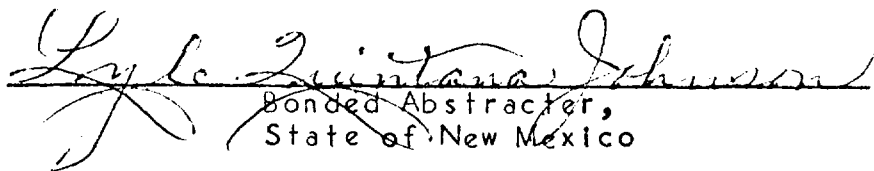
THAT the beneficiary institution is Common Schools for the  $S\frac{1}{2}$  of Section 7, the  $S\frac{1}{2}$  of Section 8, and the  $SW\frac{1}{4}$  of Section 9, in Township 17 South, Range 33 East, N.M.P.M., and for the  $NE\frac{1}{4}$  and  $W\frac{1}{2}$  of Section 13, Township 17 South, Range 32 East, N.M.P.M., and that title to this land passed to the State of New Mexico from the United States Government, in Clear List No. 111 of School Indemnity Land Selections, approved on May 31, 1919, as shown above:

THAT the beneficiary institution is Common Schools for the  $S\frac{1}{2}$  of Section 17, the  $NW\frac{1}{4}$  of Section 18, all of Section 19, and the  $N\frac{1}{2}$  of Section 20, in Township 17 South, Range 33 East, N.M.P.M., and that title to this land passed to the State of New Mexico from the United States Government in Clear List No. 21, approved on November 25, 1916, in Payment of Bonds Issued by Santa Fe and Grant Counties, as shown above:

AND THAT the beneficiary institution is Common Schools for the  $W\frac{1}{2}$  of Section 16, Township 17 South, Range 33 East, and title to this land is claimed by the State of New Mexico under the grant made to the Territory of New Mexico for common school purposes, by Act of Congress which was approved on June 21, 1898, and confirmed by United States Patent No. 1202899 to the State of New Mexico, dated December 31, 1959.

DATED at Santa Fe, New Mexico, this 4th day of December, 1961, at 4:00 o'clock p.m.

(Certificate is void if seal is broken.)

  
Bonded Abstractor,  
State of New Mexico

EXHIBITS

FOR HEARING ON APPLICATION OF  
MURPHY H. BAXTER  
FOR  
MURPHY H. BAXTER WATERFLOOD PROJECT  
MALJAMAR GRAYBURG-SAN ANDRES FIELD  
LEA COUNTY, NEW MEXICO  
CASE No. 2457 BEFORE THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO

BEFORE EXAMINER UTZ  
OIL CONSERVATION COMMISSION  
*Utz* EXHIBIT NO. 1  
CASE NO. 2457

MURPHY H. BAXTER  
507 MIDLAND NATIONAL BANK BUILDING  
MIDLAND, TEXAS

November 22, 1961

Mr. Frank E. Irby, Chief  
Water Rights Division  
State Engineer's Office  
Main Office Capitol B  
Santa Fe, New Mexico

Re: Application for Hearing  
Murphy H. Baxter Waterflood Project  
Maljamar Grayburg-San Andres Field  
Lea County, New Mexico

Dear Mr. Irby:

We are submitting additional information for your consideration in regard to the above reference.

Murphy H. Baxter's letter of application was submitted to Mr. Porter's office through our attorney, Hervey, Dow & Hinkle, and a copy of that application should be forthcoming to your office.

We have attached an additional copy of that letter in case a copy has not reached your office at this time.

The first attachment to this letter shows the injection well details for the four wells requested in our application. These four wells are currently producing from the Grayburg and San Andres formations. They will be converted to water injection wells by setting a packer above the topmost perforation and injecting down 2-3/8" tubing. Other information pertinent to the "Injection Well Detail" are:

1. Surface Casing: No. 2, 4 and 8 wells had 8-5/8", 24#, H-40, 8RT, ST&C casing run. Well No. 6 had 9-5/8", 36#, J-55, 8RT, ST&C casing run. All casing was new seamless Spang.
2. Surface Cement: Well records indicate that 25 to 50 sacks of excess cement was circulated on all four wells.
3. Production Casing: All four wells had 5-1/2", 14#, J-55, 8RT, ST&C new seamless Spang casing run.
4. Production Casing Cement: All four casing strings were cemented with 150 sacks of Longhorn w/4% gel plus 110 or 120 sacks of Dowell Cement.

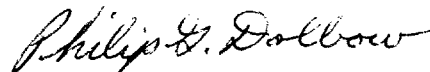
Top of cement behind the 5-1/2" production casing is shown on the last four attachments. In all cases the cement is 1000 feet or more above the topmost set of perforations.

Mr. Frank E. Irby  
November 22, 1961  
Page 2

The tubing packer will be a sealing-hookwell type with a hydraulic hold-down attached. The tubing-casing annulus will be loaded with lease crude or inhibited water for corrosion protection.

We will furnish you with this same kind of information on any further expansion of the pilot waterflood after approval by the Oil Conservation Commission.

Respectfully yours,



Philip G. Dolbow  
Petroleum Engineer

PGD/brm  
attachments



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. 4788  
Order No. R-2156-A

APPLICATION OF MURPHY H. BAXTER  
FOR AN UNORTHODOX WELL LOCATION,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 9, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 22nd day of August, 1972, 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, Murphy H. Baxter, is the operator of the Murphy H. Baxter Maljamar (Grayburg-San Andres) Waterflood Project authorized by Order No. R-2156, Maljamar (Grayburg-San Andres) Pool, Lea County, New Mexico.
- (3) That the applicant seeks authority to drill a well at an unorthodox location approximately in the center of the SW/4 of Section 18, Township 17 South, Range 33 East, NMPM, Lea County, New Mexico, as a producing well in said Maljamar (Grayburg-San Andres) Unit Waterflood Project.
- (4) That the proposed unorthodox location is necessary to provide an efficient oil producing pattern.
- (5) That the applicant also seeks the establishment of an administrative procedure whereby the Secretary-Director of the Commission may authorize additional producing wells and injection wells at orthodox and unorthodox locations within said Maljamar (Grayburg-San Andres) Unit Waterflood Project area as may be necessary to complete an efficient production and injection pattern.

-2-

Case No. 4788

Order No. R-2156-A

(6) That approval of the requested administrative procedure will afford the applicant the opportunity to produce its just and equitable share of the oil in the Maljamar (Grayburg-San Andres) Pool, provided said wells are drilled no closer than 330 feet to the outer boundary of the above-described unit area nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary.

(7) That the subject waterflood project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations, provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

IT IS THEREFORE ORDERED:

(1) That the applicant, Murphy H. Baxter, is hereby authorized to drill a well at an unorthodox location 1310 feet from the South line and 1310 feet from the West line of Section 18, Township 17 South, Range 33 East, NMPM, Maljamar (Grayburg-San Andres) Pool, Lea County, New Mexico, as a producing well in its Maljamar (Grayburg-San Andres) Unit Waterflood Project.

(2) That Order (2) of Order No. R-2156 is hereby amended to read in its entirety as follows:

"(2) That the subject waterflood project shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve such additional producing wells and injection wells at orthodox and unorthodox locations within the Maljamar (Grayburg-San Andres) Unit Waterflood Project area as may be necessary to complete an efficient production and injection pattern, provided said wells are drilled no closer than 330 feet to the outer boundary of the Maljamar (Grayburg-San Andres) Unit Area nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary, and provided that the application therefor has been filed in accordance with Rule 701 B of the Commission Rules and Regulations, and provided that the application has been sent to all offset operators, if any there be, and no such operator has objected within 15 days. The showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection."

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

-3-

Case No. 4788

Order No. R-2156-A

DONE at Santa Fe, New Mexico, on the day and year herein-  
above designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

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

S E A L

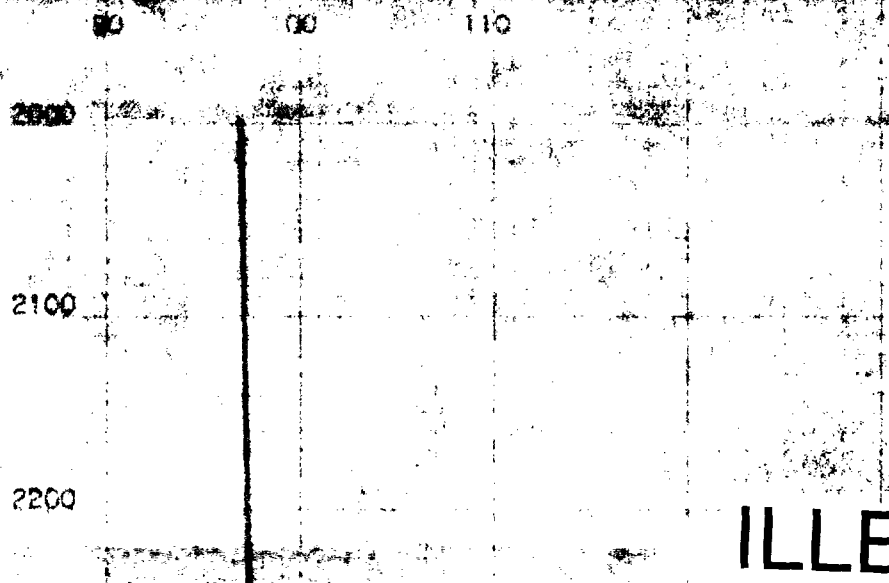
dr/

*File 10p in 12-24  
 501 1st to 12-24  
 Rock 5000*



# TEMPERATURE SURVEY

COMPANY		MURPHY H. BAXTER	
		507 MIDLAND NATIONAL BANK BUILDING, MIDLAND, TEXAS	
WELL	STATE 18 #4		
FIELD	ROBERTS		
COUNTY	LEA	STATE	NEW MEXICO
Type of Survey	MECHANICAL	CHART #4918	
Log Measured From	RKB	Elevation	
Drilling Measured From	RKB	Elevation	
Permanent Datum		Elevation	
Date of Survey	6-15-58	Time	3:00 P.M.
Date of Cementing	6-14-58	Time	11:00 A.M.
		Setting Time	hrs
Amount of Cement 1st Stage: 150 SACKS 4% GEL 1100 GAL. DOWELL SEALMENT			
2nd Stage			
Casing Size	Casing Depth	Diam. of Hole	Depth
5 1/2 from	0 to 4626	7 7/8 from	0 to 4640
Liner Size	Liner Depth		
from	to	from	to
D. V. Tool @		P. B. T. D. to	
Survey Begins at 2000		FL Ends at	4534 Ft.
Run No.	1	Approx. Top Cement	3105 Ft.
Recorded by	TURNER	Witnessed by	CREW
REMARKS OR OTHER DATA			
TEMPERATURE IN DEGREES FAHRENHEIT			



ILLEGIBLE

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200



NORMAL GEOTHERMAL TRENCH



TRENCH 3100

ILLEGIBLE

# TEMPERATURE SURVEY

OPERATOR MURPHY H. BAXTER

LEASE STATE 18 B

WELL NO. 6

FIELD ROBERTS

DATE & TIME CEMENT JOB COMPLETED 12:30 PM 12-12-58

DATE & TIME SURVEY MADE 12:30 PM 12-13-58

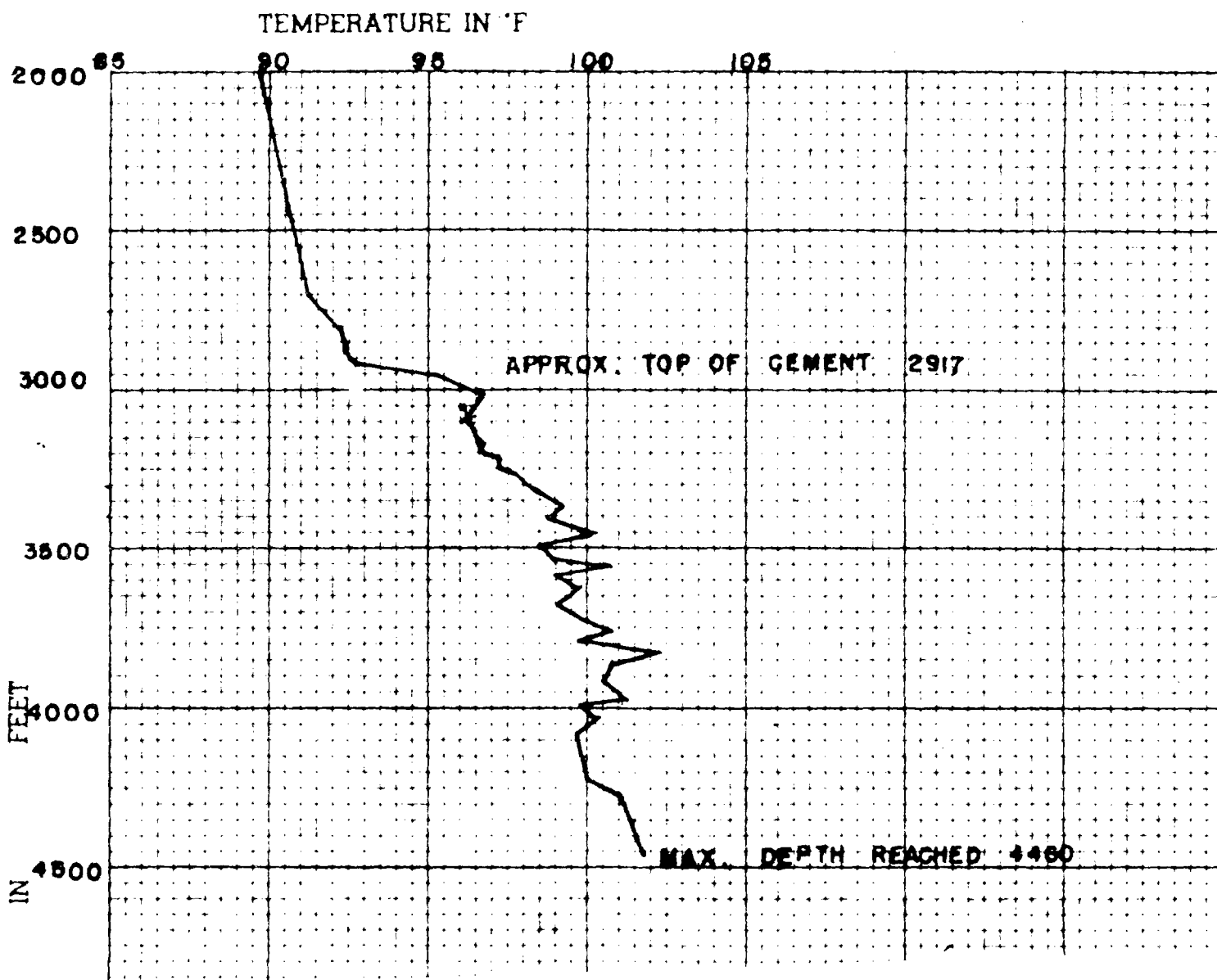
SURVEY RUN BY C. BOND

DATUM KB

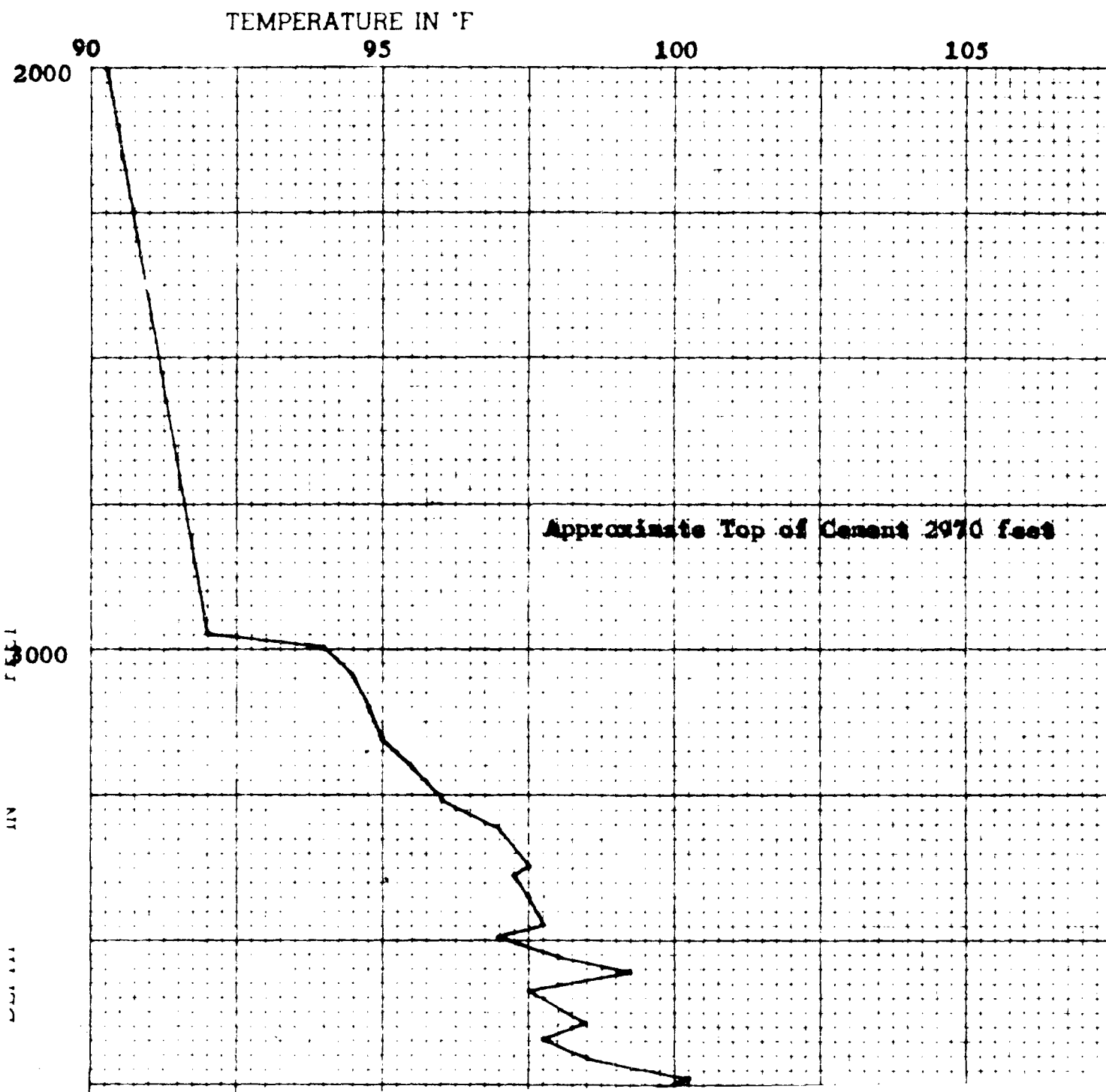
WELL DATA 150 SACKS OF 4% GEL AND 1200 GALLONS SEALMENT

RUN BEHIND 4573' OF 5 1/2" CASING IN A 7 7/8"

HOLE



LEASE State 18-B  
WELL NO. 8  
FIELD Maljamar  
DATE & TIME CEMENT JOB COMPLETED 6:00 P. M. 11-4-1958  
DATE & TIME SURVEY MADE 8:30 P. M. 11-5-58  
SURVEY RUN BY J. C.  
DATUM Kelly-Bushing  
WELL DATA 150 Sacks 4% Gel. & 1200 Gallons of Sealment behind 4544 feet  
of 5½ inch Casing in a 7 7/8 inch Hole



POOLING AGREEMENT

Reference is made to the following described Oil and Gas Leases insofar only as the same cover and affect the Grayburg-San Andres Formations under the lands particularly described:

- (1) Lease No. B-2148 dated the 11th day of September, 1933, between the State of New Mexico, Lessor, and Phillips Petroleum Company, Lessee, insofar only as said lease covers and affects the E/2 and E/2 SW/4 and Lots 3 and 4 of Section 18, T-17-S, R-33-E, Lea County, New Mexico.
- (2) Lease No. B-2229 dated the 10th day of November, 1933, between the State of New Mexico, Lessor, and Phillips Petroleum Company, Lessee, insofar only as said lease covers and affects the SE/4 of Section 13, T-17-S, R-32-E, Lea County, New Mexico.

For and in consideration of the mutual benefits to be derived herefrom, and other good and valuable consideration, receipt and sufficiency of which is hereby acknowledged, the undersigned parties hereby pool, consolidate and unitize their various interests in production in, on, under and that may be produced from the Grayburg-San Andres Formations under all of the above particularly described leases and lands into a single pooled unit so as to result in the following interests in production being owned by the parties hereto under all of said leases and lands above described, and this instrument shall be deemed to contain such words of grant and conveyance as may be required in order to result in such ownership of production therefrom:

ROYALTY

State of New Mexico	.1250000
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OVERRIDING ROYALTY

Phillips Petroleum Company	.0546875
W. H. Black and Dan P. Black, a partnership composed of W. H. Black, Jr. and Dan P. Black	.0136719
E. C. Johnston, a partnership	.0017089
E. C. Johnston, Jr.	.0017089
Gordon C. Johnston	.0017089
J. Glenn Johnston	.0017089
M. O. Johnston, Sr.	.0034179
M. O. Johnston, Jr.	.0017089
W. C. Johnston	.0017089

WORKING INTEREST

Murphy H. Baxter	.1982430
Rex Beasley	.0247803
Theo P. Beasley	.0991211
Jeanne L. Henry, Trustee of John W. Henry Estate	.0396484



George H. Jewell, Jr.	.2230224
J. A. LaFortune, Sr.	.0396484
J. A. LaFortune, Jr.	.0396484
Robert James LaFortune	.0396484
Betty Beasley McElroy	.0495605
Homer Wilcox, c/o Murphy H. Baxter	.0396484
Total	1.0000000

There is no intent herein to change or alter the ownership of the above indicated oil and gas leases (cost basis) and the same shall remain as presently indicated in the records of the Commissioner of Public Lands of the State of New Mexico and the County Clerk of Lea County, New Mexico, reference to which is here made for all purposes, and the only purpose of this agreement is to arrive at an agreed upon basis as to the manner in which production shall be shared from the above leases and lands as to the depths indicated during the waterflood operations now in progress and to permit common storage and commingling of production during such period of time, all subject to the rules and regulations of the Oil Conservation Commission and the office of the Commissioner of Public Lands of the State of New Mexico.

This instrument may be executed in counterpart with each having the force and effect of an original.

EXECUTED this 1st day of December, 1972; effective the 1st day of January, 1973, at 7:00 A. M.

PHILLIPS PETROLEUM COMPANY

By \_\_\_\_\_

W. H. BLACK AND DAN P. BLACK,  
a Partnership

By \_\_\_\_\_

\_\_\_\_\_  
Wife of W. H. Black, Jr.

W. H. Black, Jr., Partner

By \_\_\_\_\_

\_\_\_\_\_  
Wife of Dan P. Black

Dan P. Black, Partner

E. C. JOHNSTON, a Partnership

By \_\_\_\_\_

\_\_\_\_\_  
Wife of E. C. Johnston

E. C. Johnston, Partner

\_\_\_\_\_  
Wife of E. C. Johnston, Jr.

\_\_\_\_\_  
E. C. Johnston, Jr.

\_\_\_\_\_  
Wife of Gordon C. Johnston

\_\_\_\_\_  
Gordon C. Johnston

\_\_\_\_\_  
Wife of J. Glenn Johnston

\_\_\_\_\_  
J. Glenn Johnston

\_\_\_\_\_  
Wife of M. O. Johnston, Sr.

\_\_\_\_\_  
M. O. Johnston, Sr.

_____ Wife of M. O. Johnston, Jr.	_____ M. O. Johnston, Jr.
_____ Wife of W. C. Johnston	_____ W. C. Johnston
_____ Wife of Murphy H. Baxter	_____ Murphy H. Baxter
_____ Wife of Rex Beasley	_____ Rex Beasley
_____ Wife of Theo P. Beasley	_____ Theo P. Beasley
_____ Husband of Jeanne L. Henry	_____ Jeanne L. Henry, Trustee
_____ Wife of George H. Jewell, Jr.	_____ George H. Jewell, Jr.
_____ Wife of J. A. LaFortune, Sr.	_____ J. A. LaFortune, Sr.
_____ Wife of J. A. LaFortune, Jr.	_____ J. A. LaFortune, Jr.
_____ Wife of Robert James LaFortune	_____ Robert James LaFortune
_____ Husband of Betty Beasley McElroy	_____ Betty Beasley McElroy
_____ Wife of Homer Wilcox	_____ Homer Wilcox

THE STATE OF                   X  
                                   X  
 COUNTY OF                    X

The foregoing instrument was acknowledged before me this \_\_\_\_  
 day of December, 1972, by \_\_\_\_\_,  
 \_\_\_\_\_ of PHILLIPS PETROLEUM COMPANY, a corp-  
 oration, on behalf of said corporation.

My commission expires: _____	_____ Notary Public in and for County,
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THE STATE OF TEXAS X  
COUNTY OF BRAZORIA X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by W. H. BLACK, JR. and \_\_\_\_\_  
BLACK, his wife.

My commission expires:  
\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for Brazoria  
County, Texas

THE STATE OF TEXAS X  
COUNTY OF MIDLAND X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by DAN P. BLACK and \_\_\_\_\_  
BLACK, his wife.

My commission expires:  
\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for Midland  
County, Texas

THE STATE OF TEXAS X  
COUNTY OF \_\_\_\_\_ X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by E. C. JOHNSTON and \_\_\_\_\_  
JOHNSTON, his wife.

My commission expires:  
\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County, Texas

THE STATE OF TEXAS X  
COUNTY OF \_\_\_\_\_ X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by E. C. JOHNSTON, JR. and \_\_\_\_\_  
JOHNSTON, his wife.

My commission expires:  
\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County, Texas

THE STATE OF \_\_\_\_\_ X  
COUNTY OF \_\_\_\_\_ X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by GORDON C. JOHNSTON and \_\_\_\_\_  
JOHNSTON, his wife.

My commission expires:  
\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF           X  
COUNTY OF            X

The foregoing instrument was acknowledged before me the \_\_\_\_  
day of December, 1972, by J. GLENN JOHNSTON and \_\_\_\_\_  
JOHNSTON, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF           X  
COUNTY OF            X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by M. O. JOHNSTON, SR. and \_\_\_\_\_  
JOHNSTON, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF           X  
COUNTY OF            X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by M. O. JOHNSTON, JR. and \_\_\_\_\_  
JOHNSTON, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF           X  
COUNTY OF            X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by W. C. JOHNSTON and \_\_\_\_\_  
JOHNSTON, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF TEXAS    X  
COUNTY OF HARRIS    X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by MURPHY H. BAXTER and BETTY BAXTER, his  
wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for Harris  
County, Texas

THE STATE OF TEXAS X  
COUNTY OF X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by REX BEASLEY and \_\_\_\_\_  
BEASLEY, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County, Texas

THE STATE OF TEXAS X  
COUNTY OF \_\_\_\_\_ X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by THEO P. BEASLEY and \_\_\_\_\_  
BEASLEY, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County, Texas

THE STATE OF X  
COUNTY OF X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by JEANNE L. HENRY and \_\_\_\_\_  
HENRY, her husband, in the capacity therein stated.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF X  
COUNTY OF X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by GEORGE H. JEWELL, JR. and \_\_\_\_\_  
JEWELL, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF X  
COUNTY OF X

The foregoing instrument was acknowledged before me this \_\_\_\_  
day of December, 1972, by J. A. LA FORTUNE, SR. and \_\_\_\_\_  
LA FORTUNE, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF           X  
COUNTY OF            X

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of December, 1972, by J. A. LA FORTUNE, JR. and \_\_\_\_\_  
LA FORTUNE, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF           X  
COUNTY OF            X

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of December, 1972, by ROBERT JAMES LA FORTUNE and \_\_\_\_\_  
LA FORTUNE, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF           X  
COUNTY OF            X

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of December, 1972, by BETTY BEASLEY McELROY and \_\_\_\_\_  
McELROY, her husband.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

THE STATE OF           X  
COUNTY OF            X

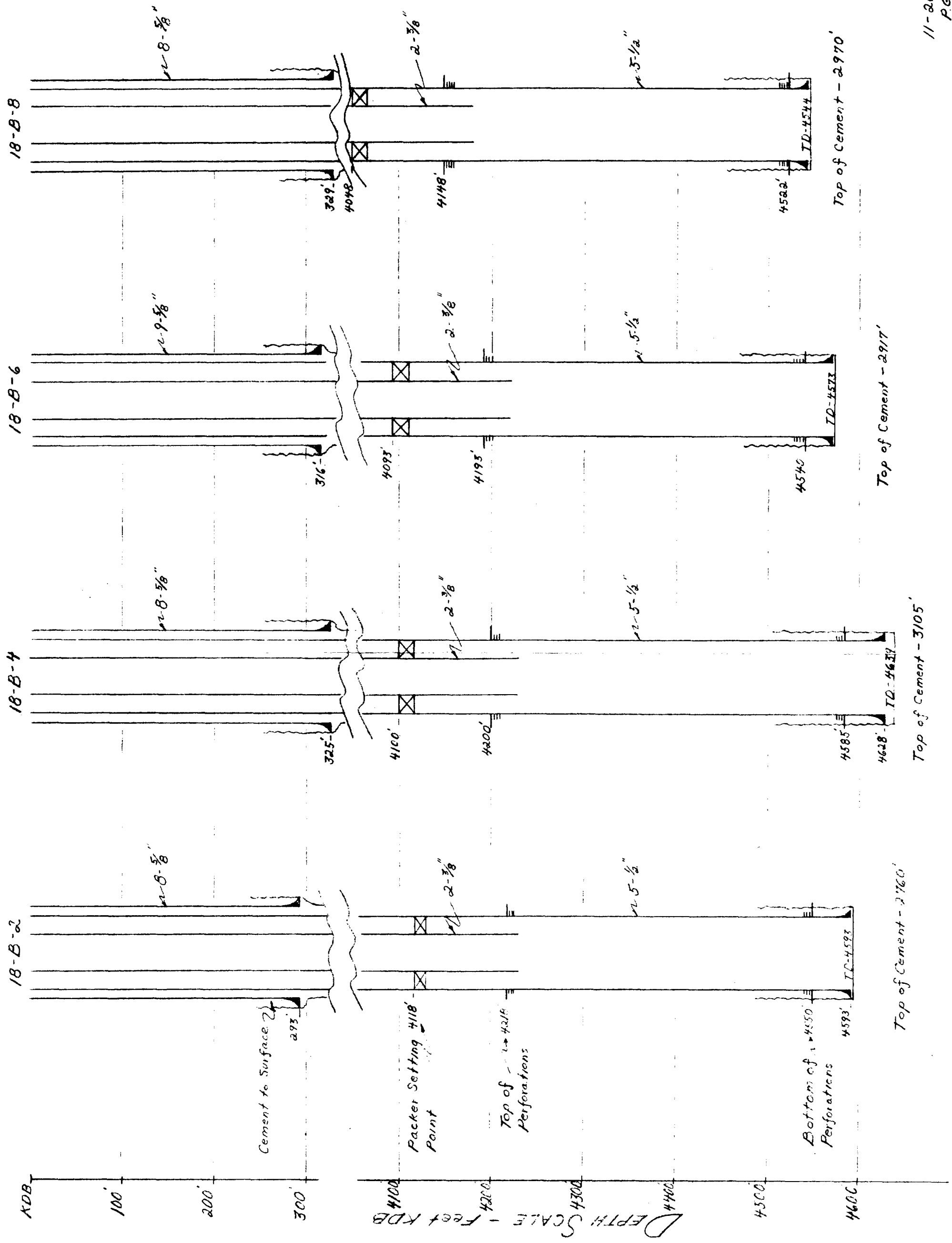
The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of December, 1972, by HOMER WILCOX and \_\_\_\_\_  
WILCOX, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for  
County,

# MURPHY H. BAXTER WATERFLOOD PROJECT

## INJECTION WELL DETAIL



# TEMPERATURE SURVEY

OPERATOR MURPHY H. BARTER

LEASE STATE 18

WELL NO. 2

FIELD

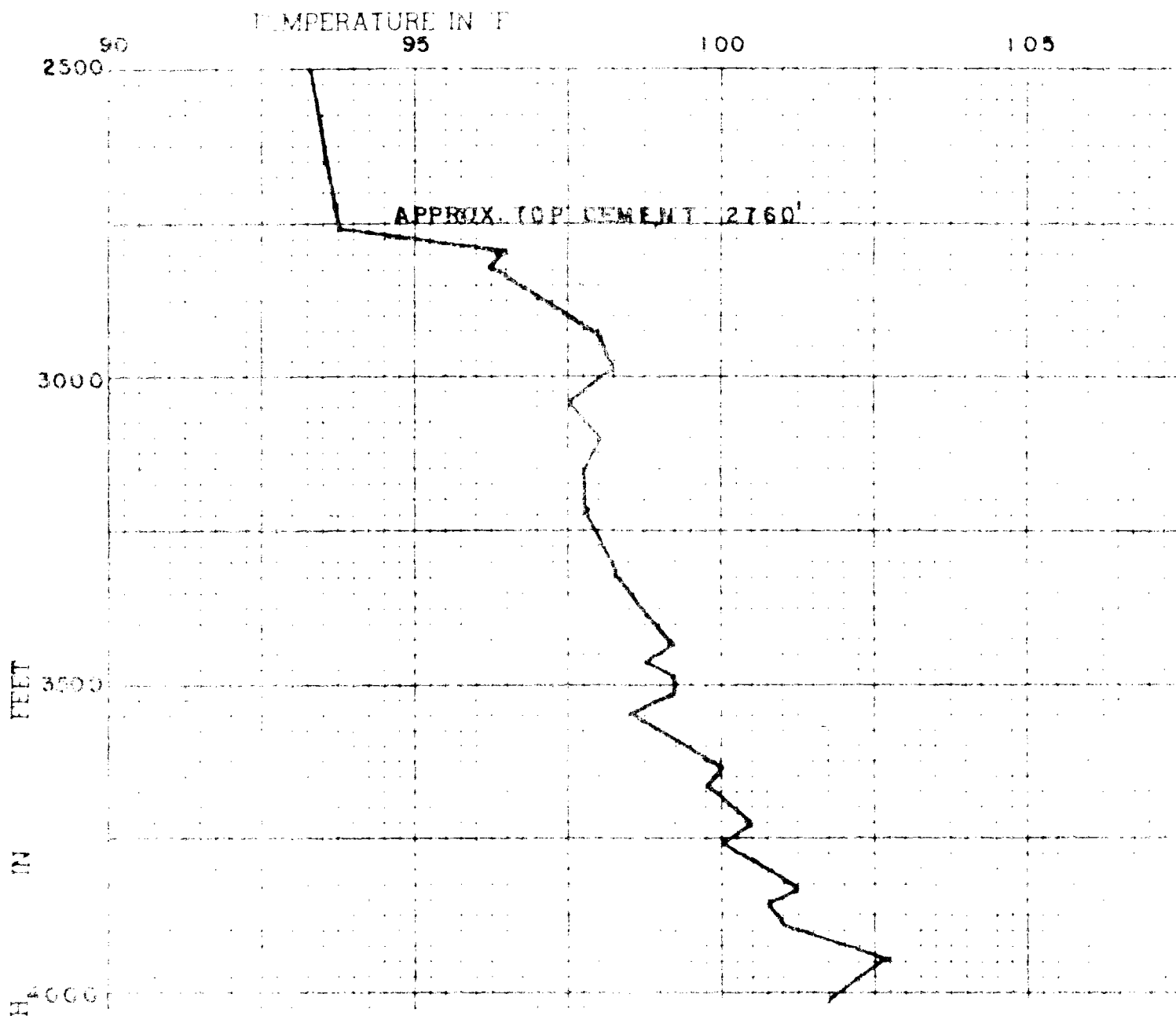
DATE & TIME CEMENT JOB COMPLETED 3 00 P.M. 8-7-58

DATE & TIME SURVEY MADE 6 00 P.M. 8-8-58

SURVEY RUN BY J.R.C.

DATUM KELLY BUSHING

WELL DATA 150" SACKS OF 4% GEL & 110 SACKS OF SEALMENT  
BEHIND 4600' OF 5 1/2" CASING IN 7 7/8" HOLE





- Proposed Pilot Injection Wells
- Offset Operator Injection Wells
- Producing Oil Well-Grayburg and San Andres

SCALE: 1" = 2,000'