



Case No.

1251

Application, Transcript,  
Small Exhibits, Etc.

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
May 8, 1957

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\*  
IN THE MATTER OF: \*  
\*  
CASE NO. 1251 \*  
\*  
\*\*\*\*\*

TRANSCRIPT OF PROCEEDINGS

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
May 8, 1957

.....  
IN THE MATTER OF:

The application of Amerada Petroleum Corporation for a 320-acre non-standard gas proration unit in the Eumont Gas Pool, Lea County, New Mexico, in exception to Rule 5 (a) of the Special Rules and Regulations for said pool. Applicant, in the above-styled cause, seeks an order establishing a 320-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the SW/4 Section 36, Township 19 South, Range 36 East, and the NW/4 Section 1, Township 20 South, Range 36 East, Lea County, New Mexico. Said unit to be dedicated to applicant's State "F" No. 1 Well located 660 feet from the South and West lines of said Section 36.  
.....

CASE NO. 1251

BEFORE:

Warren W. Mankin, Examiner

TRANSCRIPT OF HEARING

EXAMINER MANKIN: Next and last case in the docket will be Case 1251. Application of Amerada Petroleum Corporation for a 320-acre non-standard gas proration unit in the Eumont Gas Pool, Lea County, New Mexico, in exception to Rule 5 (a) of the Special Rules and Regulations for said pool.

MR. ABBOTT: My name is W. G. Abbott. I am district engineer for Amerada Petroleum Corporation at Monument, New Mexico.

MR. MANKIN: Will you be the only witness?

MR. ABBOTT: Yes, sir.

MR. MANKIN: Will you stand and be sworn please?

THE WITNESS HAVING FIRST BEEN DULY SWORN IN, TESTIFIED AS FOLLOWS:

MR. MANKIN: Proceed Mr. Abbott.

MR. ABBOTT: Well as outlined in our application, we have <sup>two 160</sup> 200 acre gas proration unit, our State "F" Lease — 160 acres and our State "D" Lease. I want to offer Exhibit No. 1. This is the plat showing the proposed Amerada State "F" No. 1 gas unit consisting of 320 acres, which is the SW/4 of Section

36, Township 19 South, Range 36 East, and NW/4 of Section 1, Township 20 South, Range 36 East. This plat also shows the offset gas units to this proposed State "F" No. 1, gas unit. The producing well on the State "F" Lease is the State "F" No. 1. We want to enlarge this State "F" No. 1 gas unit to include our State "D" Lease and shut in the State "D-3", that is the subject well on our State "D" gas unit. Now the reason being we want to work over the oil zone of this well and it would be impractical with a dually completed. As Exhibit No. 2, we would like to offer a copy of the New Mexico Conservation Commission Form C-122. This is the multi-point back pressure test for gas wells with the attached curve. This shows that the State "F" No. 1 has an absolute open flow potential of 16,500,000 cubic feet per day as tested on June 26, 1956, and this shows that the State "F" 1 is capable of producing gas from this 320 acre gas proration unit. Therefore, Amerada Petroleum Corporation requests that in the interest of conservation the Commission grant this application to increase the gas unit to 320 acres as stated in the application. I'd like to offer Exhibits 1 and 2.

MR. MANKIN: Any objections to entering Exhibits 1 and 2 in this case? If not, they will be so entered. Do you have anything further Mr. Abbott?

A. No sir, that is all I have.

Q. I had one question. In the location of this particular well is the State "F" No. 1 -- 660 from the south line and 660 from the west line of Section 36 19 South, 36 East, is that correct?

A. That is correct.

Q. Is this particular well a dual completion?

A. Yes sir, this well is dually completed under DC Order No. 191 dated April 10, 1955.

Q. It is a Mommert oil well and a Eumont gas well, is that correct?

A. Yes sir.

Q. Has permission been requested or received from the State Land Office

for the consolidation of these two leases?

A. No sir, not as yet.

Q. That will be?

A. Yes we will contact the State Land Office.

Q. To obtain a communitization of these two State leases?

A. Yes sir.

Q. Is it not true Mr. Abbott, that these 320 acres which you are here requesting is completely surrounded by other producing gas wells and therefore should show its complete productivity of the acreage?

A. Yes sir. It is completely surrounded by other gas units.

Q. Is there any further questions of the witness?

MR. NUTTER: Mr. Abbott, is your State "F" No. 5 a gas well?

A. Yes sir, thats a gas well in the Monument McKee Pool -- deeper pool.

Q. Are there any wells in this proposed 320 acre unit that are producing from the Eumont Pool except the State "F" No. 1 and the State "D" No. 3?

A. No sir.

Q. Thats all.

MR. MANKIN: Any other questions of the witness? If there is nothing further, the witness may be excused. Is there any statements to be made in this case? If there is nothing further we will take the case under advisement and the hearing is adjourned.

STATE OF NEW MEXICO     )  
                              : ss  
COUNTY OF SANTA FE     )

I, Ola M. Garcia, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Commission Examiner at Santa Fe, New Mexico, is a true and correct record, to the best of my knowledge, skill and ability.

Dated at Santa Fe, New Mexico this 21st day of May, 1957.

Ola M. Garcia

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 1251  
heard by me on May 8, 1957.  
Walter M. Martin, Examiner  
New Mexico Oil Conservation Commission

Case # 1251

UNIT DIVISION  
JUN 6 1957

June 6, 1957

Order  
R-1010

In reply refer to:  
Unit Division

Amerada Petroleum Corporation  
P. O. Box 2040  
Tulsa 2, Oklahoma

Re: Amerada's State "F" Gas Unit  
Well No. 1 Communitization -  
SW/4 of Sec. 36-193-36E and  
NW/4 of Sec. 1-209-36E,  
Lea County, New Mexico

Attention: Mr. F. W. Hulsizer  
Land Department

Gentlemen:

We are enclosing two copies of the above designated  
Communitization Agreement, which was approved by the  
Commissioner of Public Lands June 6, 1957.

Also enclosed is Official Receipt in the amount of  
\$10.00, which covers the filing fee.

Very truly yours,

HERRAY E. MORGAN  
Commissioner of Public Lands

By: Ted Bilberry, Supervisor  
Oil and Gas Department

MEM:RMR/a  
enc: 3

cc: OGC-Santa Fe  
OGC-Hobbs



**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. 1251  
Order No. B-1010**

**APPLICATION OF AMERADA PETROLEUM  
CORPORATION FOR A 220-ACRE NON-  
STANDARD GAS PRODUCTION UNIT IN THE  
MUNNET GAS POOL, TO BE DEDICATED  
TO THE APPLICANT'S STATE "F" NO. 1  
WELL IN THE SW/4 SW/4 OF SECTION 36,  
TOWNSHIP 19 SOUTH, RANGE 26 EAST,  
SMPH, LEA COUNTY, NEW MEXICO.**

**ORDER OF THE COMMISSION**

**BY THE COMMISSION:**

This cause came on for hearing at 9 o'clock a.m. on May 8, 1957, at Santa Fe, New Mexico, before Warren W. Harkin, Examiner duly appointed by the New Mexico Oil Conservation Commission, herein after referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 31st day of May, 1957, the Commission, a quorum being present, having considered the application, the evidence adduced and the recommendations of the Examiner, Warren W. Harkin, 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 is the owner of State of New Mexico Leases, a portion of which consist of the SW/4 of Section 36, Township 19 South, Range 26 East, and the NW/4 of Section 1, Township 20 South, Range 26 East, SMPH, Lea County, New Mexico.

(3) That the applicant is the owner and operator of the State "F" No. 1 Well located 600 feet from the South line and 600 feet from the West line of said Section 36.

(4) That the said State "F" No. 1 Well is producing gas from the Munnet Gas Pool and presently assigned a 100-acre non-standard gas production unit comprising the SW/4 of said Section 36, and that the applicant proposes to increase the size of the unit for the State "F" No. 1 Well from 100 to 220 acres by combining the NW/4 of said Section 1 with the present unit.

-3-

Case No. 1251  
Order No. R-1610

(5) That the NW/4 of said Section 1 is presently dedicated to the applicant's State "D" No. 3 Well located in the SE/4 NW/4 of said Section 1 which well is dually completed in the Eumont Gas Pool and Monument Pool.

(6) That in the event the subject application is approved, the applicant will recomplate the said State "D" No. 3 Well as a single completion in the Monument Pool.

(7) That approval of the subject application will not cause waste nor impair correlative rights.

(8) That the 160-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the NW/4 of said Section 1 which is presently dedicated to the applicant's aforementioned State "D" No. 3 Well should be abolished as of June 1, 1957.

(9) That the above-described State "F" No. 1 Well should assume the net status of the State "D" No. 3 Well as of June 1, 1957.

IT IS THEREFORE ORDERED:

1. That the application of Amerada Petroleum Corporation for the establishment of a 320-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the SW/4 of Section 36, Township 19 South, Range 26 East, NMPN, and the NW/4 of Section 1, Township 20 South, Range 26 East, NMPN, Lea County, New Mexico, be and the same is hereby approved, said unit to be dedicated to the applicant's State "F" No. 1 Well, located 800 feet from the South line and 800 feet from the West line of said Section 36.

2. That the State "F" No. 1 Well be granted an allowable in the proportion that the acreage in the above-described unit bears to the acreage in a standard gas proration unit for the Eumont Gas Pool subject to the provisions of Rule 8 of the Special Rules and Regulations for the Eumont Gas Pool as set forth in Order R-620.

3. That the 160-acre non-standard gas proration unit consisting of the NW/4 of Section 1, Township 20 South, Range 26 East, NMPN, Lea County, New Mexico which is presently dedicated to the applicants State "D" No. 3 Well located in the SE/4 NW/4 of said Section 1, be and the same is hereby abolished as of June 1, 1957.

4. That the applicant's State "F" No. 1 Well shall assume the net status of the aforementioned State "D" No. 3 Well as of June 1, 1957.

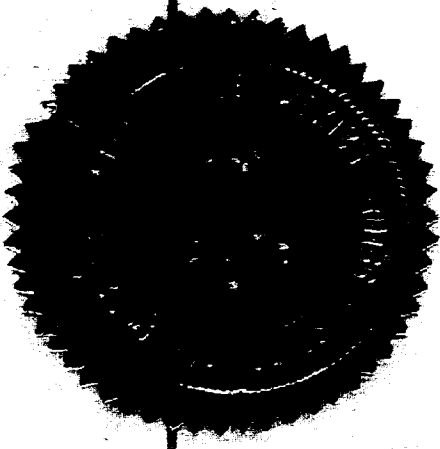
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*E. L. McQueen*  
EDWIN L. McQUEEN, Chairman

*M. E. Morgan*  
MURRAY E. MORGAN, Member

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



**OIL CONSERVATION COMMISSION**  
P. O. BOX 871  
SANTA FE, NEW MEXICO

June 3, 1957

C  
O  
P  
Y

Mr. W. G. Abbott  
American Petroleum Corp.  
Denver 3  
Colorado, New Mexico

Dear Sir:

We enclose a copy of Order R-1010 issued May 31, 1957, by the  
Oil Conservation Commission in Case 1251, which was heard on May  
24 at Santa Fe.

Very truly yours,

A. L. Porter, Jr.  
Secretary - Director

by  
Encl.

OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

Date

5/10/57

CASE

1251

Hearing Date

9 am on 5/10/57 @ SF

My recommendations for an order in the above numbered cases are as follows:

Approve 320 ac unit

① allowable acreage per Rule 8

of R-520  
② 160~~0~~ acre allowable in Summit  
and underage of State 8<sup>th</sup> #3  
to be carried forward  
to this well (State 8<sup>th</sup> #1)  
eff. June 1, 1957.

③ No objection

④

Waverly Martin

Staff Member

Examiner

No. 15-57

D O C K E T: EXAMINER HEARING MAY 8, 1957

New Mexico Oil Conservation Commission 9:00 a.m., Santa Fe, New Mexico

Oil Conservation Commission Office, Room 109, Santa Fe, New Mexico

The following cases will be heard before Warren W. Mankin, Examiner:

CASE 1250: Application of Skelly Oil Company for permission to produce a maximum of sixteen wells in the Grayburg-Jackson Pool, Eddy County, New Mexico, into a common tank battery in exception to Rule 309 of the Commission Rules and Regulations. Applicant, in the above-styled cause, seeks an order granting permission to produce a maximum of sixteen oil wells on its Dow "B" Lease in Sections 21 and 28, Township 17 South, Range 31 East, Grayburg-Jackson Pool, into a common tank battery. All of said wells are located on the same basic lease.

CASE 1251: Application of Amerada Petroleum Corporation for a 320-acre non-standard gas proration unit in the Eumont Gas Pool, Lea County, New Mexico, in exception to Rule 5 (a) of the Special Rules and Regulations for said pool. Applicant, in the above-styled cause, seeks an order establishing a 320-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the SW/4 Section 36, Township 19 South, Range 36 East, and the NW/4 Section 1, Township 20 South, Range 36 East, Lea County, New Mexico. Said unit to be dedicated to applicant's State "F" No. 1 Well located 660 feet from the South and West lines of said Section 36.

ir/

AMERADA PETROLEUM CORPORATION  
P. O. BOX 2040  
TULSA 2, OKLAHOMA

MAIN OFFICE 800

APR 11 AM 3:21

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

*Sent Copy to  
Docket to  
Bill about*

*S. + 16' for  
wings on that Bag? if heard.*

Drawer D  
Monument, New Mexico  
April 5, 1957

*Cal #1251*

Re: Application for Exception to  
Rule 5(a), Order R-520 for  
Amerada State "F" No. 1,  
Eumont Gas Pool.

Gentlemen:

By this letter of application Amerada Petroleum Corporation wishes to state the following:

- (A) That Amerada Petroleum Corporation State "F" No. 1 located 660 feet from the south line and 660 feet from the west line of Section 36, Township 19 South, Range 36 East, Lea County, New Mexico is a dually completed well in the Eumont Gas Pool and the Monument Pool.
- (B) That the subject well was dually completed under D.C. Order No. 191 dated April 10, 1955.
- (C) That the subject well is producing gas from the Eumont Gas Pool and assigned a 160 acre non-standard proration unit which is the SW/4 of Section 36, Township 19 South, Range 36 East.
- (D) That the applicant proposes to increase the gas unit size from 160 to 320 acres by including the NW/4 of Section 1, Township 20 South, Range 36 East with the present unit.
- (E) That, providing the above proposal is approved, the applicant will perform remedial work on the State "D" No. 3 and recomplete said well from a dually completed well in the Eumont Gas Pool and Monument Pool to a single completion in the Monument Pool. The State "D" No. 3 is presently assigned a 160 acre non-standard gas proration which is the NW/4 of Section 1, Township 20 South, Range 36 East.
- (F) That the proposed non-standard gas proration unit consists of contiguous quarter sections.
- (G) That the proposed unit is the same royalty interest.

April 5, 1957

(H) That the proposed unit is 5280 feet in length.

(I) That the proposed unit is productive of gas.

Therefore, Amerada Petroleum Corporation requests that the Oil Conservation Commission set a certain day upon which this application may be heard and after said hearing to grant permission in order that applicant may increase the gas unit for the subject well as proposed in this application.

Respectfully submitted,

AMERADA PETROLEUM CORPORATION

By D. C. Capps  
D. C. Capps  
District Superintendent

DCC/vh

Sun	Gulf	Shell	Amerada	
6 •	1 •	2 •	3 •	2 •
5 *	Weir	1 * Dual	4 •	4 •
	3 •	State "B"	3 6	State "V"
4 •	1 •	Amerada	Gulf	3 * Dual
2 •	Shell	1 * Dual	4 * Dual	5 • Dual
Naverty	State "A"	State "P"	Graham State "P"	6 • 1 *
Superior	Amerada	Amerada	Amerada	1 •
2 •	1 •	1 •	5 • 4	4 • 6
6 *				5 * • 9
4 •	3 •	2 •	3 • 6 Dual	3 • * 6
State "A"	State "D"	J.R. Phillips		
Amerada	Gulf	Texas Co.	Amerada	Skelly
2 •	2 •	3 •	3 • 2 •	3 • 2 •
1 •	1 •	1 *	2 •	1 •
State "J"	Graham State "B"	State "E"	State "H"	State "B"

R-36-E

AMERADA PETROLEUM CORPORATION

Proposed Gas Unit-320 Acres

SW/4 Sec. 36, T-19-S, R-36-E

NE/4 Sec. 1, T-20-S, R-36-E



Sun	Gulf	Shell	Amerada
6 •	1 •	2 •	3 •
160	Weir	160	160
5 *	3 •	1 * Dual	4 •
		State "R"	State "Y"
		Amerada	Gulf
4 •	1 •	2 •	3 •
160	Shell	1 * Dual	160
2 •	1 * Dual	4 * 5	4 * Dual
	State "A"	State "F"	Graham State "P"
Superior		Amerada	Amerada
2 •	1 •	1 •	4 • 6
6 *		5 • 4	5 * 9
160		320	
4 •	3 •	2 •	3 •
		3 * Dual	7 • 2
		State "B"	J.R. Phillips
Amerada	Gulf	Texas Co.	Amerada
2 •	2 •	3 •	3 • 2 •
440		160	320
1 •	1 •	1 *	1 •
	Graham	State "G"	State "H"
	State "P"		State "S"

R-36-E

AMERADA PETROLEUM CORPORATION

Proposed Gas Unit-320 Acres

SW/4 Sec. 36, T-19-S, R-36-E

NE/4 Sec. 1, T-20-S, R-36-E

BEFORE THE  
 GEORGE W. CONSERVATION COMMISSION  
 SANTA FE, NEW MEXICO  
 125  
 EXHIBIT No. 1  
 1251

## NEW MEXICO OIL CONSERVATION COMMISSION

BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
123 EXHIBIT No. 2  
CASE 123 Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Bumont Formation Queen County Lea  
Initial Annual X Special          Date of Test 6-26-56  
Company Amerada Petroleum Corporation Lease State "F" Well No. 1  
Unit M Sec. 36 Twp. 19-S Rge. 36-E Purchaser Permian Basin Pipe Line Company  
Casing 7" Wt. 26.0# I.D. 6.276" Set at 3798' Perf. 3274' To 3352'  
Tubing 3 1/2" Wt. 9.3# I.D. 2.992 Set at 3722 Perf.          To           
Gas Pay: From 3274 To 3352 L 3274 xG 0.670 -GL 2194' Bar.Press. 13.2  
Producing Thru: Casing X Tubing          Type Well Gas-Oil Dual  
Single-Bradenhead-G. G. or G.O. Dual  
Date of Completion: 3-14-55 Packer 3677 Reservoir Temp. 91°F

## OBSERVED DATA

Tested Through (Brown) (Globe) (Meter) Type Taps          Pipe         

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI								989.5		72-3/4
1.	4"	2.75"	461.3	5.2	82			838.6		24
2.	4"	2.75"	463.9	7.3	77			816.0		23-1/2
3.	4"	2.75"	469.2	16.3	74			726.6		24-1/2
4.	4"	2.75"	484.6	26.8	75			698.4		23-1/2
5.										

## FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	73.11	49.67	474.5	0.9795	0.9463	1.050	3534
2.	73.11	59.01	477.1	0.9840	0.9463	1.050	4219
3.	73.11	88.68	482.4	0.9868	0.9463	1.052	6369
4.	73.11	115.5	497.8	0.9859	0.9463	1.056	8319
5.							

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry Gas cf/bbl.  
Gravity of Liquid Hydrocarbons          deg.  
F<sub>c</sub> 1.612 (1-e<sup>-8</sup>) 0.140

Specific Gravity Separator Gas .67  
Specific Gravity Flowing Fluid           
P<sub>c</sub> 902.7 P<sub>c</sub> 814.867

No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-8</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>
1.	851.8	725.563	5.697	32.455	4.544	725.568	89.299	851.8	94.36
2.	829.2	687.573	6.801	46.254	6.476	687.579	127.288	829.2	91.86
3.	775.8	601.866	10.267	105.411	14.758	601.881	212.986	775.81	85.94
4.	711.6	506.375	13.410	179.983	25.198	506.400	308.467	711.62	78.83
5.									

Absolute Potential: 16,500 MCFPD; n 0.69

COMPANY Amerada Petroleum Corporation

ADDRESS Drawer D - Monument, New Mexico

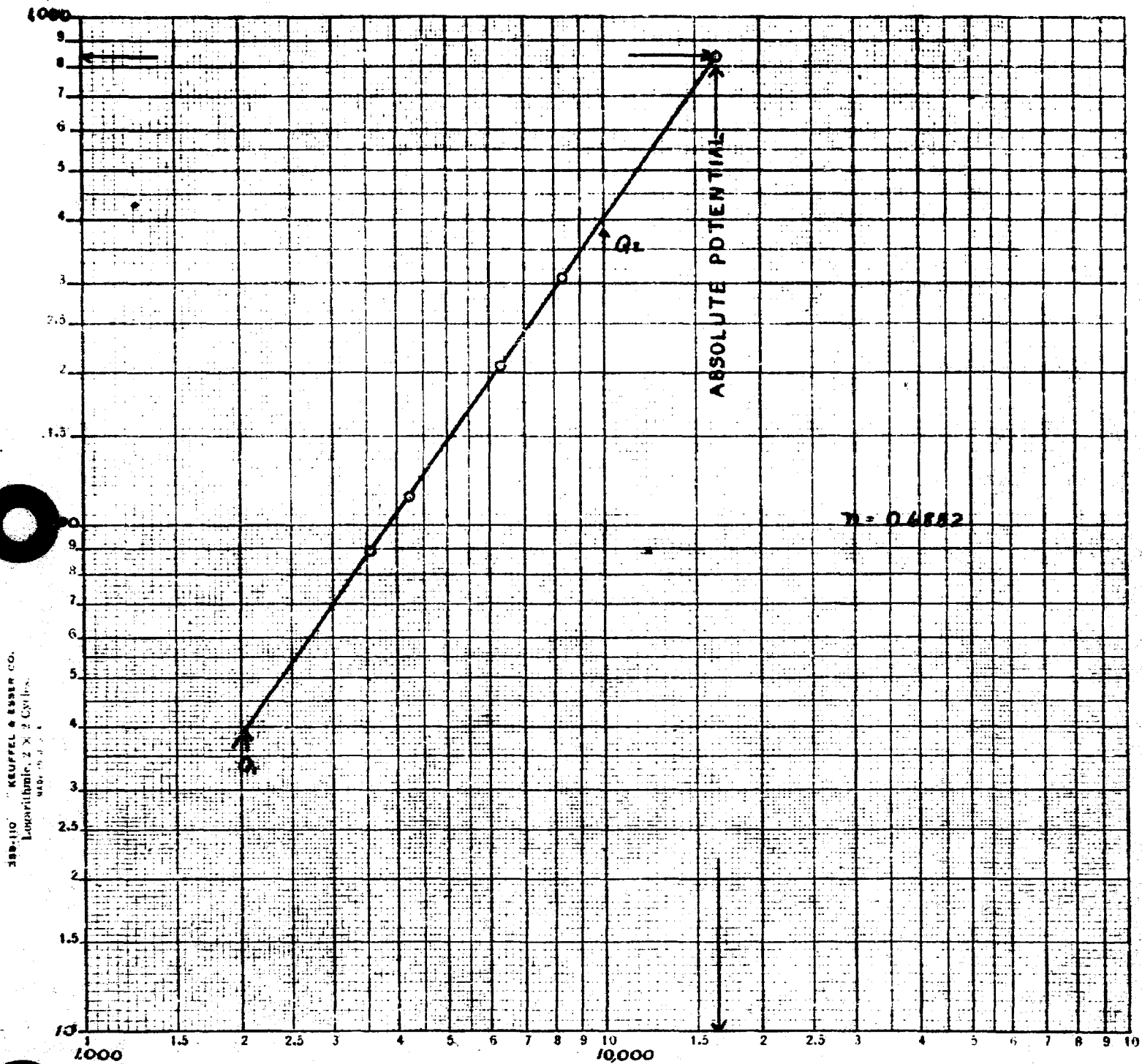
AGENT and TITLE W.G. Abbott - District Engineer

WITNESSED         

COMPANY Permian Basin Pipe Line Company

REMARKS

COMPANY AMERADA PETROLEUM CORPORATION  
 WELL STATE W. NO. 1  
 LOCATION 35-198-362  
 COUNTY L.A.  
 DATE 6-26-56



Q - MCFD - 15.025 psia