#### BEFORE THE INDUSTRIAL COMMISSION

#### OF THE STATE OF NORTH DAKOTA

IN THE MATTER OF THE HEARING CALLED ON A MOTION OF THE COMMISSION TO CONSIDER THE PROPER SPACING FOR THE DEVELOPMENT OF THE DICKINSON-HEATH POOL IN STARK COUNTY, NORTH DAKOTA, REDEFINE THE LIMITS OF SAID FOOL, AND ENACT SUCH SPECIAL FIELD RULES AS MAY BE NECESSARY.

CASE NO. 318 ORDER NO. 348

### ORDER OF THE COMMISSION

## BY THE COMMISSION:

Pursuant to legal notice this cause came on for hearing at 9:30 a.m. on September 22, 1959, at Bismarck, North Dakota, before the Industrial Commission of North Dakota, hereinafter referred to as the "Commission".

NOW, on this 28 day of 1959, the Commission, a quorum being present, having considered the testimony adduced 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 geological and engineering evidence presented to the Commission bearing on the matter of well spacing indicates that the Dickinson-Heath pool, as classified and defined by this order should, be developed on a pattern of one well to 160 acres in order to drain efficiently the recoverable oil from said pool, assure orderly and uniform development, avoid the drilling of unnecessary wells, and prevent waste in a manner to protect correlative rights.
- (3) That 160 acre spacing in the Heath Pool in this field will result in the efficient and economical development of the field as a whole and will operate so as to prevent waste and provide maximum ultimate recovery, will avoid the drilling of unnecessary wells and will protect correlative rights.
- (4) That certain special field rules are necessary to prevent waste and protect against the pollution of surface waters.

#### IT IS THEREFORE ORDERED:

(1) The Dickinson-Heath Pool discovered by the Atlantic Refining Company's Kadrmas #1 well, located in the NE SE Section 31, Township 140N, Range 96W, is hereby classified and defined as that common source of supply of oil found below the bottom of the Minnelusa and above the Otter formations in and under the following described tracts of land in Stark County, North Dakota, to wit:

Township 140 North, Range 96 West, 5th PM All of sections 31 and 32, and the S/2 of sections 29 and 30.

Township 139 North, Range 96 West, 5th PM The N/2 of sections 5 and 6.

together with those additional quarter sections or governmental lots corresponding thereto, as may be proven productive by wells drilled as direct offsets to wells included in the limits as set forth above, provided further that such extensions of the pool boundaries shall include only sufficient acreage to form a spacing unit for such wells.

- (2) That effective this date 160 acres per well is established as the second year spacing for the development of the Dickinson-Heath Pool.
- (3) That all wells drilled in the Dickinson-Heath Pool shall be located approximately in the center of the northeast quarter-quarter sections (or governmental lots corresponding thereto), except that the proper location for a well in the NW/4 of section 32, T140N, R96W, shall be in the SW/4 of that quarter section.
- (4) That spacing units consist of any quarter section (or governmental lots corresponding thereto) containing not less than 140 acres as determined by, or in accordance with, governmental survey.
- (5) That no well shall be drilled or produced in said pool except in conformity with the spacing pattern set forth above without special order of the Commission after due notice and hearing.
- (6) That the following special field rules be, and the same are hereby enacted, and shall apply to the subsequent drilling and operation of wells in the Dickinson Heath Pool.
- (a) That the casing program of all wells drilled hereafter in said pool shall include at least two strings of pipe set in accordance with the following program:
- (i) That surface string shall consist of new or reconditioned pipe that has been previously tested to one thousand pounds (1000) per square inch. The casing shall be set and cemented at a point not higher than six hundred (600) feet below the surface of the ground. Cementing shall be by the pump and plug method, and sufficient cement shall be used to fill the annular space back of the pipe to the surface of the ground, or the bottom of the cellar. Cement shall be allowed to stand a minimum of twelve (12) hours before drilling the plug or instituting tests.
- (ii) The producing or oil string shall consist of new or reconditioned pipe that has been previously tested to three thousand (3000) pounds per square inch. Cementing shall be by the pump and plug method, and sufficient cement shall be used to fill one and one-half (1 1/2) times the annular space between the shoe and the top of the Amsden formation, but not less than 300 sacks of cement shall be used, and the cement shall be allowed to stand twenty-four (24) hours before drilling the plug or initiating tests.

- (b) The producing or oil string shall be set a least as low as the top of the producing formation. The string shall be tested by either lowering the fluid level or by application of pump pressure. If the test is made by lowering the fluid level, the well shall be bailed dry at least to a point midway to the bottom of the string and the top of the cement behind the string, and shall be allowed to stand a minimum of two (2) hours. If, after that period the fluid level shows a rise equivalent to two (2) per cent of the distance bailed the string shall be repaired so as to exclude water. Thereafter the casing shall be again tested in the same manner. If the test is made by application of pump pressure, a pressure of at least fifteen hundred (1500) pounds per square inch shall be applied. If, at the end of thirty (30) minutes this pressure drops one hundred and fifty (150) pounds per square inch or more, the string shall be repaired so as to exclude water. Thereafter the casing shall again be tested in the same manner. Further work shall not proceed until a satisfactory test has been obtained.
- (c) All christmas tree fittings and well head connections shall have a working pressure greater than any to which they are expected to be subjected.
- (d) The gas-oil ratio of each well in the field shall be determined four times annually during the months of February, May, August, and November, and reported to the State Geologist within fifteen (15) days after the end of the month in which they are determined. All measurements shall be made under the supervision of the State Geologist or his designated representative.
- (e) Any well with a gas-oil ratio of over two thousand (2000) cubic feet per barrel shall have the allowable oil production adjusted in accordance with Rule 506 in Industrial Commission's Order No. 1, General Rules and Regulations for the Conservation of Crude Oil and Natural Gas for the state of North Dakota.
- (f) The reservoir pressure of all flowing wells, and the static and working fluid levels of all pumping wells shall be determined annually during the month of May. The results thereof shall be reported to the State Geologist on or before the 15th of June. All pressure determinations shall be measured at or adjusted to a datum of five thousand three hundred feet (5300) below sea level and after the well has been shut in for a period of approximately forty-eight (48) hours. All reservoir pressure measurements or fluid level determinations shall be made under the supervision of the State Geologist or his designated representative, and by methods approved by the State Geologist.
- (g) Wells in this pool shall be allowed to produce at the rate shown on the gas-oil ratio tests submitted to the State Geologist, provided a market exists for the oil so produced, unless otherwise stated in the applicable proration schedules.
- (7) That this order shall cover all the Dickinson-Heath Pool, common source of supply of crude oil and natural gas, as hereinabove defined, and shall continue in full force and effect until further order of the Commission.

DONE, at Bismarck, North Dakota, this 28 day of \_\_\_\_\_\_, 1959.

THE NORTH DAKOTA INDUSTRIAL COMMISSION

John E. Davis, Governor

Aslie R. Burgum, Attorney General

Math Dahl, Commissioner of Agriculture & Labor

# EXHIBITS of the ATLANTIC REVISING COMPANY

NORTH DAKOTA INDUSTRIAL COMMISSION

CASE 312

Dickinson-Neath Pool

September 22, 1959

### THE ATPAINTED HERINING COMPANY

# Proposed Field Bule Charges

NORTH DAKOTA INDUSTRIAL COMMISSION CASE NO. 348 DICKINSON-HEATH POLIC STARK COUNTY, MORTH DAKOTA

Atlantas recommends the present field rules be made proper with the follow-

1 s) Amend Paragraph (3) to read: That the wells drilled in the Dickinson-Heath Fool shall be located appreximately in the Camber of the Northeast Quarter-Quarter Sections (or governmental lots corresponding thereto) except that the proper location for a well in the PN/A of Section No. T-ND-N. R-YE-W shall be in the SUA of the quarter section.

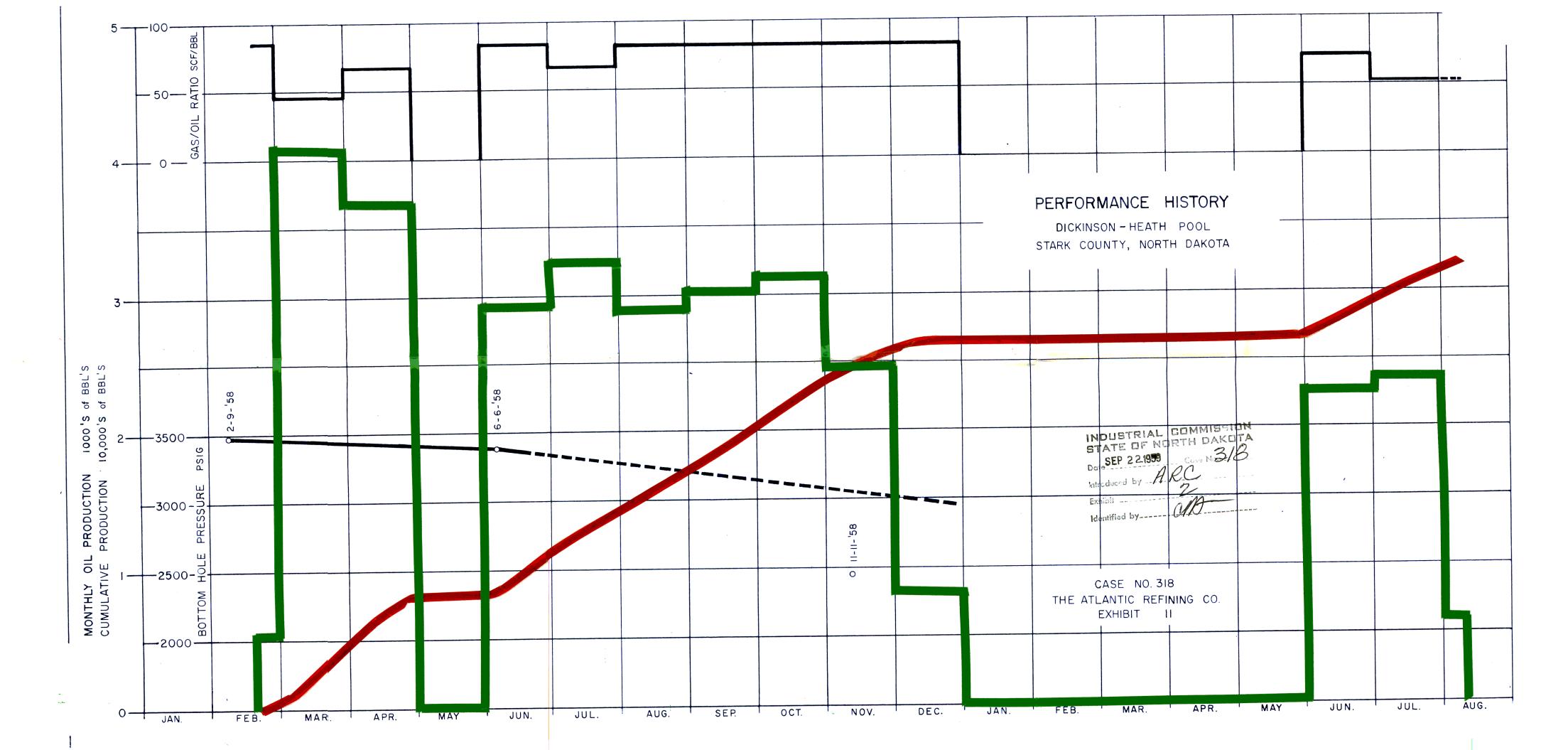
This would allow the thiantic Wm. Kalanda No. 1 to be recompleted in the Heath in the future without further hearing.

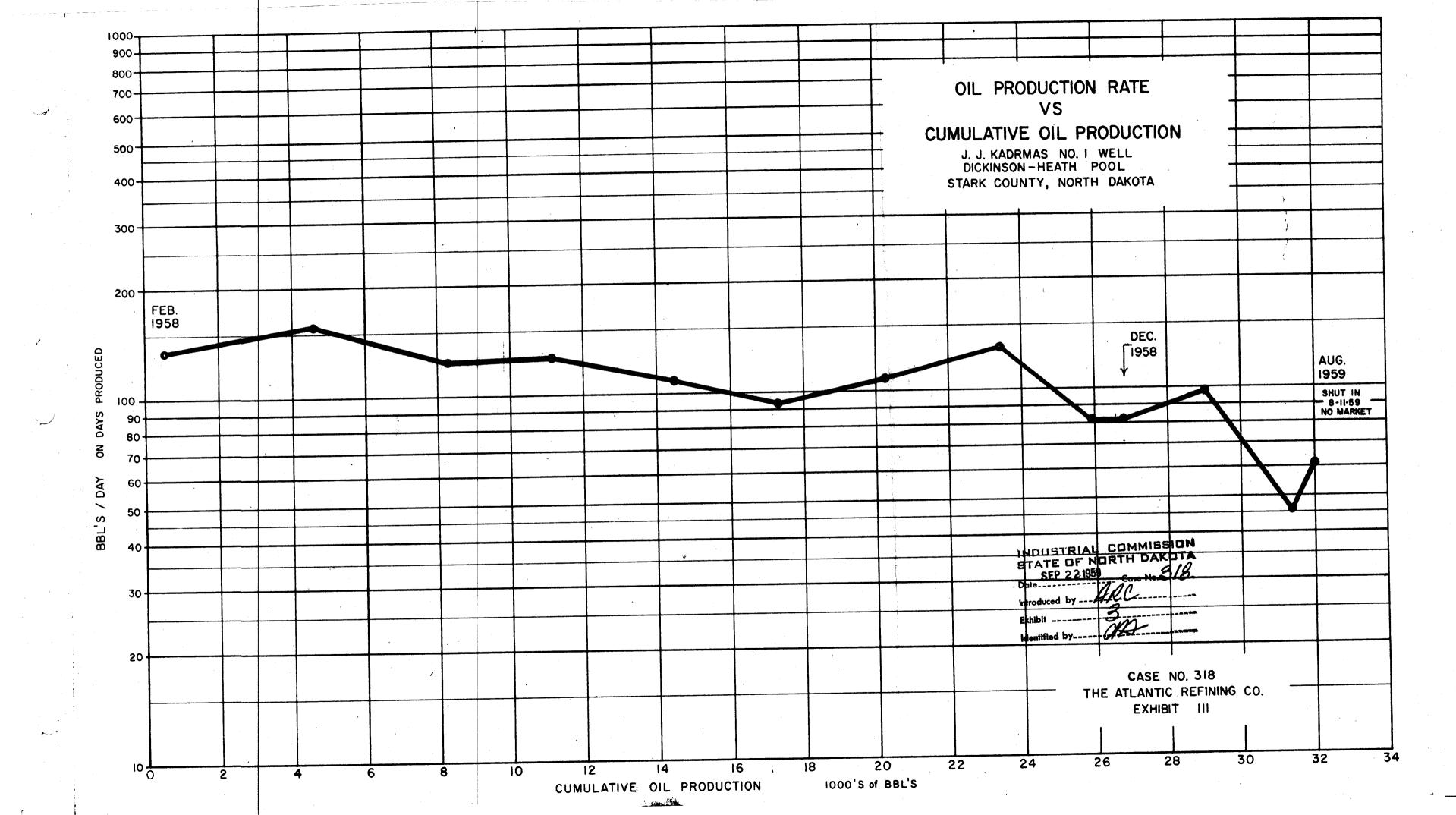
- 2) All Christmes tree fittings and well head connections shall have a working pressure greater than any to which they are expected to be subjected.
- 3) Amond paragraph 6 (f) to provide for annual pressure surveys.
- 1) Add a paragraph 5 (g): Wells in this pool shall be allowed to produce at the rate shown on the gas-oil ratio tests submitted to the State Geologist, provided a market exists for the sill produced.

# DICKINSON FIELD MAP

	DIOMINOON TILLD WA				
	R 97 W	R 96 W			
	24	19	20	2!	
T 140 N	25	SUPERIOR ATLANTIC	ATLANTIC TOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTO	28	T 140 N
		NO. AMER. ROY. 1/4 FELMONT 1/4	FELMONT 1/4 ATLANTIC 1/2		
	36	P! ACIO 1/2	ATLANTIC  • KALANEK NO.1	33	
		ATLANTIC-M BLOY. CO KADRMAS NO.1 ATLANTIC 1/2 M B L OIL CO. 1/2	NO.AMER ROY. ET AT PELMONT PLACID ATLANTIC		
T 139 N		ATLANTIC	ATLANTIC	CITY OF DICKINSON	T 139 N
	R97 W	R 96 W	THE A	TLANTIC REFINING CO.  EXHIBIT NO.	]

114





# THE ATLANTIC REFINING COMPANY PETROLEUM ENGINEERING LABORATORY DALLAS, TEXAS

JULY 10, 1959

#### MEMORANDUM

Title: Reservoir Fluid Study, J. J. Kadrmas Well No. 1, Heath Sand, Dickinson Field, Stark County, North Dakota

Samples of the heater treater liquid and gas from this well were taken by Regional personnel and forwarded to this laboratory. These samples were recombined in a ratio calculated to give a fluid with a GOR of 63.6 SCF of 15 PSIG. heater treater gas per barrel of stock tank oil. Our mixture had a GOR of 67.50 SCF of 15 PSIG separator gas per barrel of stock tank liquid (separation at 118 F) The reported heater treater temperature was 130°F; however, when a wellstream is processed through a heater treater, it is difficult to determine the exact separation temperature. It was felt that the laboratory separation temperature of 118 F. was, for purposes of this study, close enough to the true separation temperature. The saturation pressure of this mixture was 1115 PSIG at reservoir temperature of 162 F. It is this mixture that was used in this study and is referred to as "the reservoir fluid".

The treater liquid samples were very viscous at room temperature and were extremely difficult to handle (pour point + 85°F.). It was impossible to run their analysis by low temperature fractionation. We assumed that this liquid was all heptanes and heavier material. We believe this assumption to be in less error than a composition based on low temperature fractional distillation. The composition of "the reservoir fluid" shown in Table I is a calculated value based on this assumption, and a GOR of 67.5 SCF/STB.

The composition of the separator gas shown in Table I is the result of an analysis made with the chromotographic column.

W. V. Pasher

WVP:WSK:bde

INDUSTRIAL COMMISSION STATE OF NORTH DAKOTA Date
Data
Introduced by
Exhibit
Identified by

# THE ATLANTIC REFINING COMPANY PETROLEUM ENGINEERING LABORATORY DALLAS, TEXAS

FIELD & POOL: Dickinson, Heath

LEASE & WELL NO: J. J. Kadrmas No. 1 OPERATOR: The Atlantic Refining Company

COUNTY & STATE: Stark, North Dakota

# Well and Sampling Data

Well Completion Interval:

Well Elevation:

Bottom-Hole Temperature:

Bottom-Hole Pressure:

Date Sampled: Sampled at:

PVT Data Measured on:

7786-7816 ft. 2498 K.B. 162°F.

3389 PSIG (June 6, 1958)

Sampled September 27, 1958

Lease Heater Treater Recombined Sample

# Well Production During Sampling Tests

Dates of Tests:

Treater Conditions:

Pressure:

Temperature

Measured Gas Gravity (Air = 1.00)

September 24 - 27, 1958

15 PSIG

130°F.

0.985

Production

Oil

Gas

Water Cut

Separator Gas-Oil Ratio

102.42 STB/Day

6.51 MSCF/Day

None

63.6 SCF/STB

# Terms Used in Report

SCF = Cu. ft. of gas at 60°F. and 14.7 PSIA STB = Barrel of stock tank oil at 60°F. and 14.7 PSIA RDB = Barrel of residual oil at 60°F. and 14.7 PSIA from differential liberation

RWB = Barrel of fluid (gas or saturated oil) at reservoir temperature and pressure.

### SUMMARY OF PVT DATA - PROPERTIES OF BUBBLE POINT FLUID

#### RECOMBINED SAMPLE

FIELD & POOL: Dickinson, Heath COUNTY & STATE: Stark, North Dakota LEASE & WELL NO: J. J. Kadrmas No. 1 OPERATOR: The Atlantic Refining Company

Bubble Point Pressure Reservoir Temperature 1115 PSIG 162°F.

Compressibility:

Slightly above Bubble Point Pressure Slightly below Bubble Point Pressure

6.8 Vols/MM Vols/PSI 92.0 Vols/MM Vols/PSI

Density at 1115 PSIG and 162°F.

50.6 lbs/cu. ft. (0.351 PSI/ft.)

Viscosity at 1115 PSIG and 162°F.

3.8 centipoises

Separator Gas-Oil Ratio (Flash Data)

Flash Gas Solubility

67.5 SCF/STB SCF/STB 69

Differential Gas Solubility

69 SCF/RDB

Flash Formation Volume Factor

1.091

Differential Formation Volume Factor 1.082

Note: Separation conditions for flash data:

Separator 118°F., 15 PSIG Stock Tank 95°F., 0 PSIG

TABLE I
COMPOSITION OF RESERVOIR FLUID AND SEPARATOR GAS

	Reservoir Fluid *	Separat <u>Gas</u>	or —	
Component	Mol. %	Mol. %	GPM	
Nitrogen Methane Ethane Propane Iso-Butane N-Butane Iso-Pentane N-Pentane Hexanes Heptanes & Heavier Carbon Dioxide	7.75 3.08 0.97 0.77 0.07 0.23 0.04 0.07 0.05 86.68 0.47	56.66 23.02 7.23 5.71 0.52 1.76 0.30 0.53 0.33 0.40	1.571 0.170 0.554 0.110 0.192 0.136 0.185	
TOTAL	100.00	100.00	2.918	
Calculated Gas Gravity Molecular Wt. of C7+ Specific Gravity of C7+	(Air = 1.00) 260 0.857	0.981** 103		
Bbls. of Separator Liquid per bbl. of Stock Tank Oil 1.00				
Separator Gas (SCF) per bbl. of Separator Liquid 63.6				
Heater Treater Tempera Heater Treater Pressur	130°F 15 PS			

Note: Separator fluid data are for sampling conditions.

<sup>\* =</sup> Computed value

<sup>\*\* =</sup> Experimental 0.985

TABLE II

DIFFERENTIAL AND TOTAL VOLUME PVT DATA

DIFFERENTIAL LIBERATION DATA AT 162°F.

	Total Volume Volume at Bubble Pt.	Formation Volume	Gas In	Gas Conversion	Gas Grav. Liberated	Gas Viscosity Calculated from
Press.	Pressure	<u>Factor</u>	Solution	<u>Factor</u>	<u>Gas</u>	Gas Gravity
PSIG		RVB/RDB	SCF/RDB	SCF/RVB	(Air = 1.00)	Centipoise
5000	0.977	1.057	69			
4000	0,982	1.063	69			
3000	0.987	1.068	69			
2500	0.990	1.071	69			
2000	0.993	1.074	69			
1500	0.997	1.079	69			
1200	0.999	1.081	69			
1115	1.000	1.082	69			
1000	1,010	-	40,100			
900	1.026	-				
800	1.044	1.078	56	259	0.925	0.0173
500	1.155	1.074	43	164	0.924	0.0169
400	1.229	-	***	-		
300	1.353	-		-		
200	1.620	1.069	24	69	0.919	0.0166
0	<del>-</del>	1.054	0	-	1.217	-

Gravity of residual oil at 60°F. from differential liberation = 33.6\*

# Notes:

Total volume data for constant composition (no gas removal) expansion of bubble point fluid at 162°F.

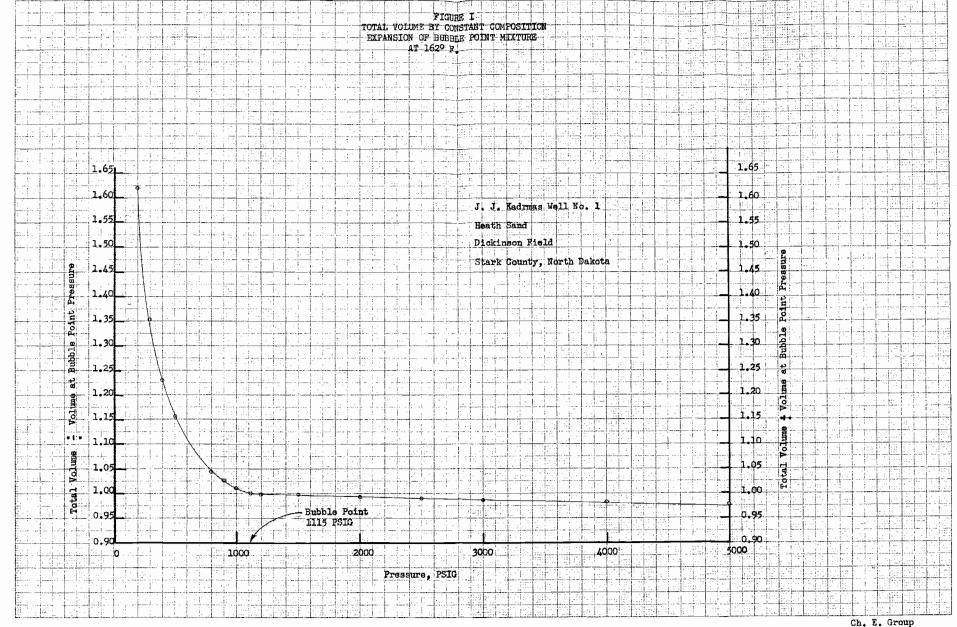
Gas viscosity data calculated from: AIME, 201, p.264, 1954

\* Computed value

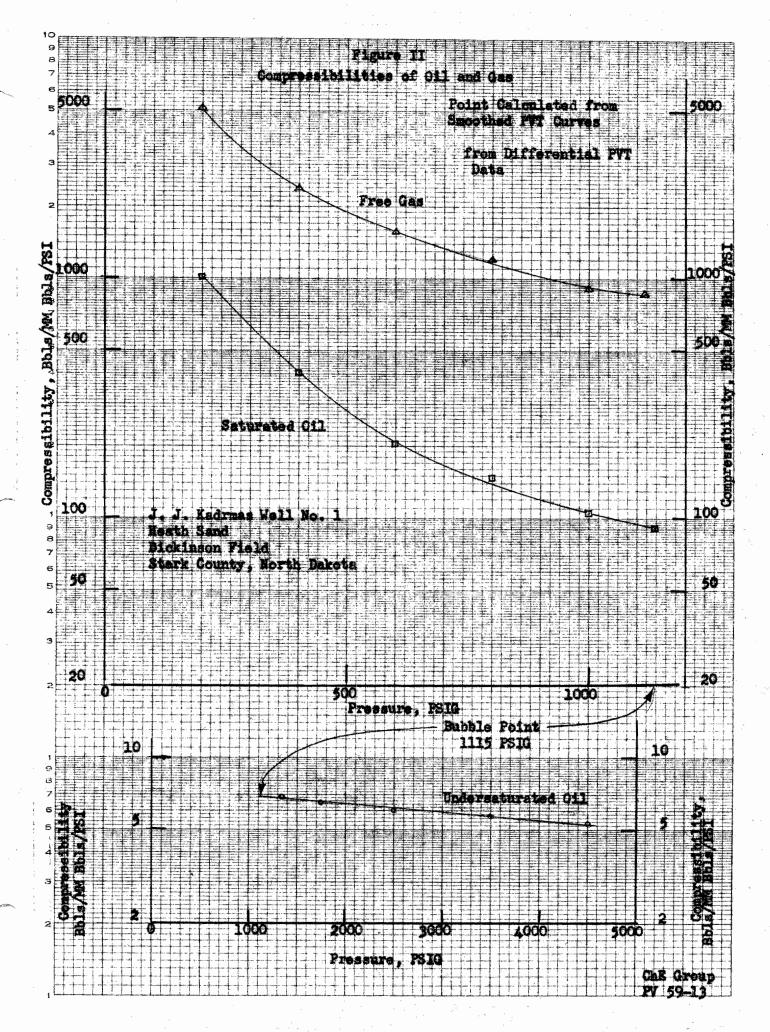
TABLE III

VISCOSITY OF RESERVOIR LIQUID AT 162°F. DURING DIFFERENTIAL LIBERATION

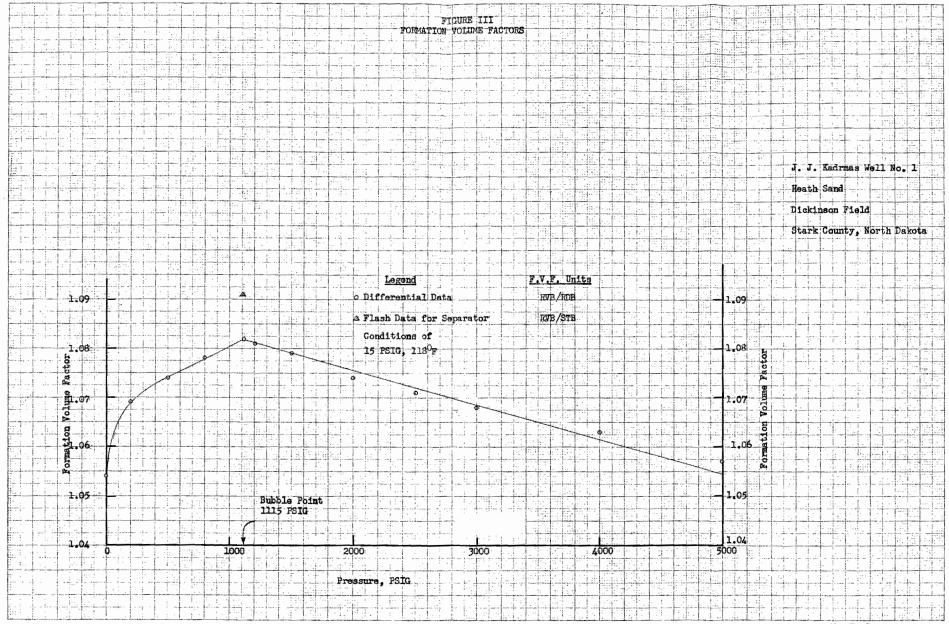
Pressure. PSIG	Viscosity, Centipoises
5000	5.56
4970	5.55
4030	5.10
3050	4.69
2030	4.27
1510	4.09
920	3.99
530	4.10
260	4.25
0	5.15



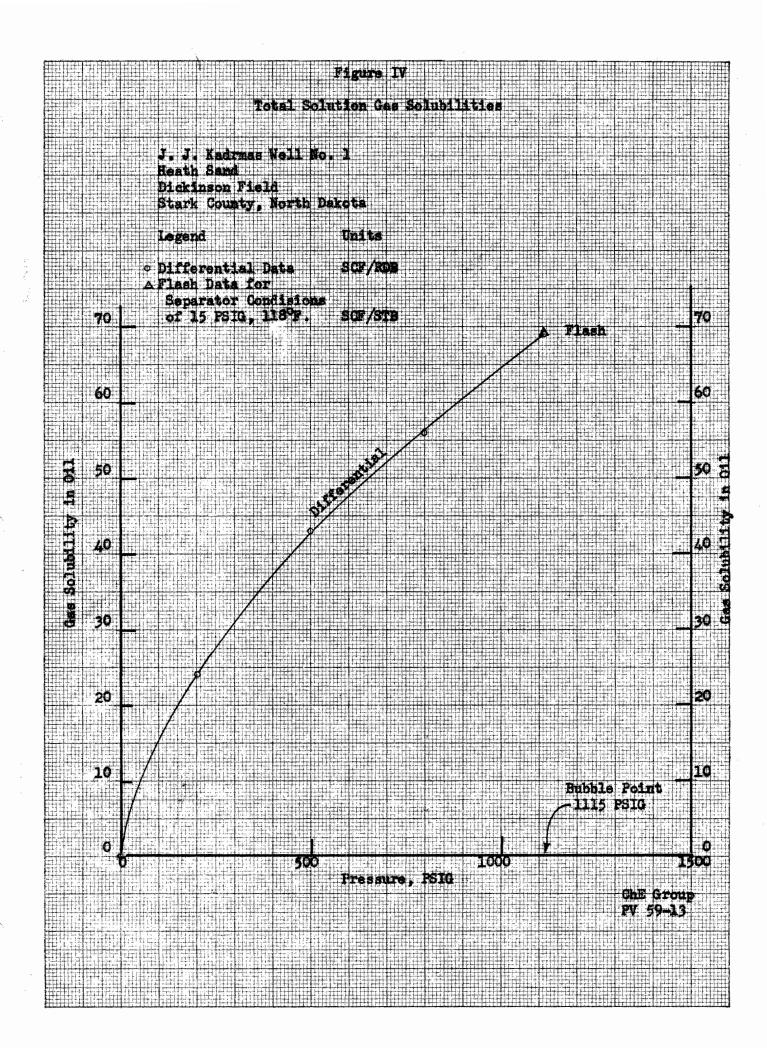
PV 59-13

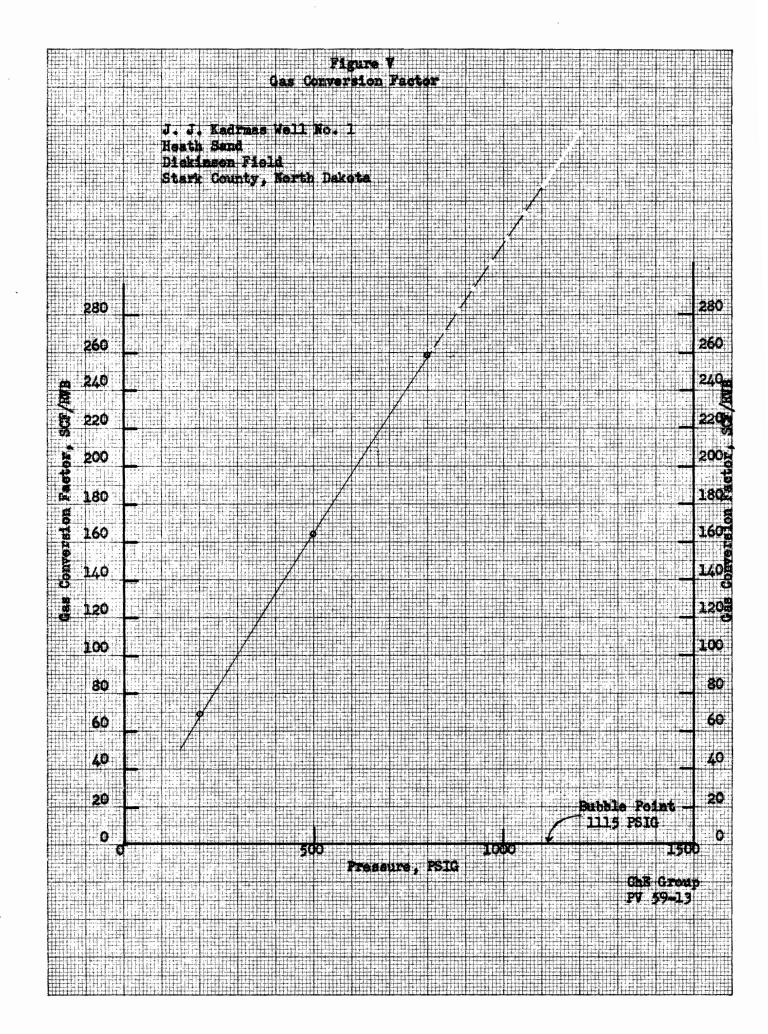


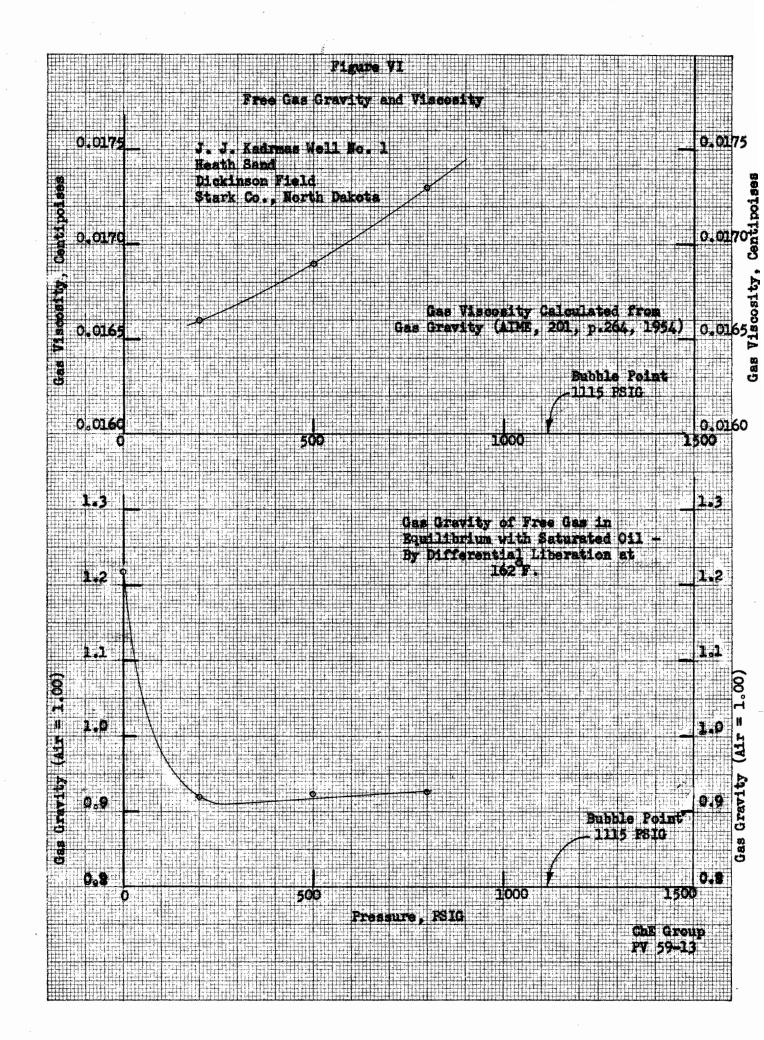
 $y_i = x_i$ 

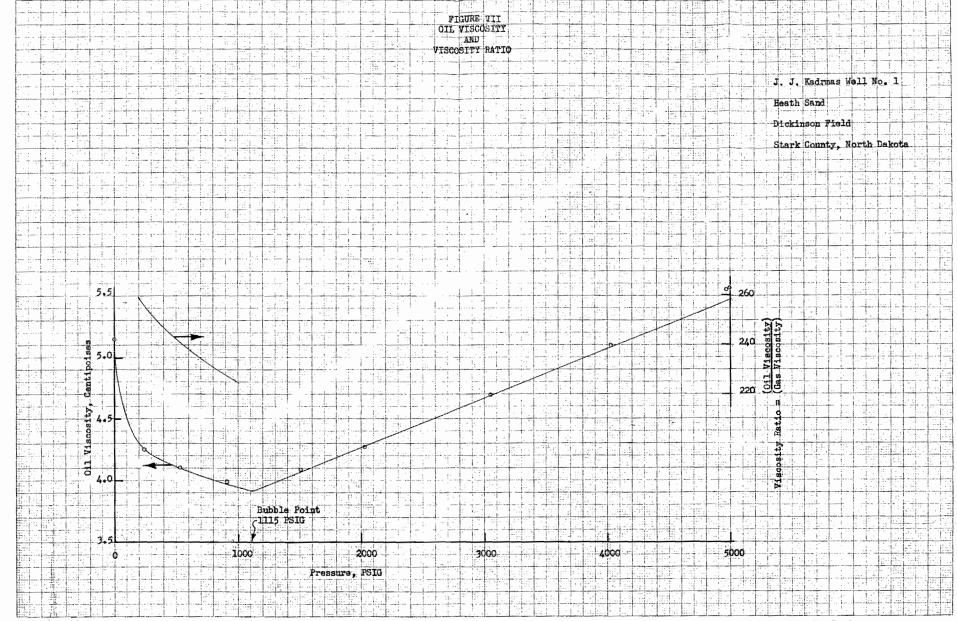


Ch. E. Group PV 59-13









Ch. E. Group PV 59-13

# NORTH AMERICAN ROYALTIES, INC.

PROVIDENT LIFE BUILDING

P. O. BOX 1476

BISMARCK, NORTH DAKOTA

SEPTEMBER 18, 1959

DR. WILSON M. LAIRD STATE GEOLOGIST UNIVERSITY STATION GRAND FORKS, NORTH DAKOTA

DEAR WILSON:

ENCLOSED IS OUR CONCURRENCE WITH ATLANTIC'S RECOMMENDATION FOR CONTINUATION OF THE PRESENT FIELD RULES AT THE DICKINSON-HEATH FIELD IN STARK COUNTY.

THIS FIELD WILL COME UP FOR HEARING ON SEPTEMBER 22, 1959.

VERY TRULY YOURS,

NORTH AMERICAN ROYALTIES, INC.

BY: HERBERT G. OFFICER

HGO: GT



# THE ATLANTIC REFINING COMPANY PETROLEUM PRODUCTS

September 16, 1959

ADDRESS REPLY TO: P. O. BOX 520 CASPER, WYOMING

DOMESTIC CRUDE OIL PRODUCTION

Superior Oil Corporation F. O. Box 200 Casper, Wyoming

Attention: Mr. W. H. Fraser

Dear Sir:

The North Dakota Industrial Commission has called a hearing for September 22, 1959 to consider proper spacing, field outline and field rules for the Dickinson-Heath Field, Stark Co., N. D. The only well in this field is the Atlantic Refining Co., J. J. Kadrmas No. 1 in NE/4 of the SE/4 of Section 31, T-140-N, R-96-W.

Atlantic will recommend 160 acre spacing as proper spacing, capacity allowable and designation of the Atlantic-North American Royalties-Felmont Wm. Kalanek No. 1 as the proper location for the NW/h of Section 32, T-139-N, R-96-W. This would allow its recompletion in the Heath in the future without further hearing.

The field rules provide for temporary 160 acre spacing. We propose change to annual pressure surveys and reduce pressure requirements on well head equipment to working pressure greater than any to which it is expected to be subjected. We propose no other changes in the field rules.

If you agree with our request, please sign one copy of this letter and send it to the North Dakota Industrial Commission.

Yours truly,

DEGENVE MATLANTIC REFINING CO.
SEP 1 0 1959 US 0 auri

Note Extended Sections Series. Davis
GRAND FORKS, N. DA Regional Petroleum Engineer

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We support Atlantic's request. Superior Oil Corporation

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# THE ATLANTIC REFINING COMPANY

PETROLEUM PRODUCTS

September 16, 1959

ADDRESS REPLY TO: P. O. BOX 520 CASPER, WYOMING

DOMESTIC CRUDE OIL PRODUCTION

M & L Oil Company c/o Trigocd Oil Corp. P. 0. Box 1689 Casper, Wyoming

Attention: Mr. J. Spencer Winn

Dear Sir:

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Yours truly.

THE ATLANTIC REFINING COMPANY

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T. O. Davis Regional Petroleum Engineer

TOD:lo

We support Atlantic's request. H & L Oil Company

# THE ATLANTIC REFINING COMPANY

#### PETROLEUM PRODUCTS

DALLAS, TEXAS

September 15, 1959

ADDRESS REPLY TO: P. O. BOX 520 CASPER, WYOMING

DOMESTIC PRODUCING DEPARTMENT

North American Royalties P. O. Box 1476 Bismarck, North Dakota

Attention: Mr. Herbert G. Officer

Dear Sir:

The North Dakota Industrial Commission has called a hearing for September 22, 1959 to consider proper spacing, field outline and field rules for the Dickinson-Heath Field, Stark Co., N. D. The only well in this field is the Atlantic Refining Co., J. J. Kadrmas No. 1 in NE/4 of the SE/4 of Section 31, T-140-N, R-96-W.

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DECENTED SEP 10 1959 D

Karib Calain Saciatical Surroy Tod:lp Grand Poaks, N. Dak.

We support Atlantic's request.
North American Royalties

Yours truly,

THE ATLANTIC REFINING COMPANY

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T. O. Davis Regional Petroleum Engineer

VICE PRES.

# THE ATLANTIC REFINING COMPANY

#### PETROLEUM PRODUCTS

DALLAS, TEXAS September 15, 1959

> ADDRESS REPLY To: P. O. BOX 520 CASPER, WYOMING

DOMESTIC PRODUCING DEPARTMENT

318

Felmont Cil Corporation Box 132 Bismarck, North Dakota

Attention: Mr. John L. Perkins

Dear Sir:

The North Dakota Industrial Commission has called a hearing for September 22, 1959 to consider proper spacing, field outline and field rules for the Dickinson-Heath Field, Stark Co., N. D. The only well in this field is the Atlantic Refining Co., J. J. Kadrmas No. 1 in NE/4 of the SE/4 of Section 31, T-140-N, R-96-W.

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Yours truly,

THE ATLANTIC REFINING CO.

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T. O. Davis Regional Petroleum Engineer

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We support Atlantie's request.

Felmont Oil Corporation

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CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

# ESTERN UNIC

DL=Day Letter = Night Letter

SYMBOLS

International

W. P. MARSHALL, PRESIDENT Time of receipt is STANDARD TIME at point of decination The filing time shown in the date line or TALAFMU 5-

KM A118 CTC361

NL PD=OWENSBORO KY 21= CT OWB102

NORTH DAKOTA INDUSTRIAL COMISSION=

ATTERLTS TO DELIVE

BISMARCK NDAK=

REGARDING THE MEETING OF SEPTEMBER 22 1959 TO CONSIDER PROPER SPACING, FIELD OUTLINE AND FIELD RULES FOR THE DICKINSON-HEATH FIELD, STARK COUNTY NORTH DAKOTA FELMONT OIL CORPORATION IS SUPPORTING ATLANTIC REFINING COMPANY RECOMMENDATION - LETTER FOLLOWS= FELMONT OIL CORP VO SIMS VICE PRESIDENT.M

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE