

KORE SULPHUR BAY

No. 1

Drilling Authority No.

Date Issued

WELL NAME Eoro Sulphur Bay No. 1

FIELD Wildcat

Area: Great Slave Lake

LOCATION: Unit

Section

Grid

Latitude 61°25'53" N.

Longitude 115°57'00" W.

From Established Reference Marker

Rig Release Date: 16-2-60

Status D & A

Information Release Date 16-2-62

CHANGE OF NAME:

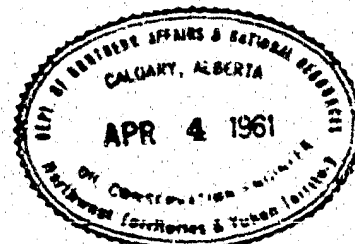
DATE RECEIVED	INDEX
	Application for a Drilling Authority. Well Completion Data. Well History Report. Application to Amend a Drilling Authority. Application to change a Well Name. Application to Abandon a Well or Suspend Drilling. Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No. Application to Commingle Production before Measurement. Approval to Commingle Production before Measurement. Application to Amend Approval No. to Commingle Production before Measurement. Application for M.P.R.—Oil. New Oil Well Report. New Gas Well Report. Well Inspection Report. Rig Inspection Report. Battery Inspection Report. Field Abandonment Programme and Approval. Well Card. Well Visit. Daily Drilling Reports.

FORM "B"

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
NORTHERN ADMINISTRATION BRANCH
RESOURCES DIVISION

For the period from Dec. 18, 1959 . .
to Sept. 29, 1960 . .

REPORT of ~~EXPLORATION~~
~~RECONSTRUCTION~~
~~ABANDONMENT~~ of a Well



Permit No. 2471 . .

Name of well Koro Sulphur Bay No. 1 Lease No.
Registered owner Koro Petroleum Ltd. Drilling Company Wildcat Diamond Drilling Ltd.
Location 61° 25' 53" N. Lat. 145° 57' 00" W. Long.
Survey description, if available
Elevation: Ground . 623' Last previous depth . 160'
Kelly bushing. 626' ASL . Present depth . Flush with ground
Spudded . Dec. 18, 1959 Finished drilling Feb. 16/60 Rig Released
Feb. 18/60
Deviations from vertical Not surveyed

CASING RECORD

Date	Size O.D.	Weight lbs/ft	Grade	Set at feet	Sacks Cement	Top of Cement
1 Dec. 18	5 1/2"	14 lbs	Range 2	64'	20	Surface
2 Jan. 21	4 1/2"	7.5 lbs	A	116'	30	Surface
3						
4						

TUBING RECORD

Size	Wt. Lbs/foot	Grade	Amount	Landed Depth	Remarks
.					
.					
Wellhead		(Manufacturer)		(Size)	(Series)

Status of well on completion of drilling . Water flushed

Producing Zone Delomata reef and formation . Presquille

~~Intervals~~ Cord intervals . . 0' to 160'

.

.

.

Interval logged: E-log Other logs

R-log

M-log

Velocity log

The above logs (are)
(will be) submitted in accordance with Section 65 of the
Regulations.

DRILL STEM TESTS

<u>Test No.</u>	<u>Date</u>	<u>Interval Tested</u>	<u>Duration</u>	<u>Results</u>
. . 1 . .	Dec. 23/59	. 66'	to Jan. 7/ .	94,000 gals. water
. . 2 . .	Feb. 1/60	. 94'	to Feb. 7/60	10,900 gals. water
. . 3 . .	Feb. 13/60	. 126'	to Feb. 14/60	3,000 gals. water
. . 4 . .	Feb. 15/60	. 130'	to Feb. 15/60	. 400 gals. water
. . 5 . .	Feb. 16/60	. 160'	to Feb. 16/60	1,200 gals. water
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(If space insufficient, attach further sheet)

(Strike out the non-applicable) (Completion) (Rework) (Recompletion)

Perforations Bullet

Jet

Shootings

Hydraulic fracturing

Chemical treatment

Date initial production tests

Initial production data

Pumping or flowing
Plug back
Other
.
.
.
.

CEMENT PLUGS SET

<u>Date</u>	<u>Plug set at</u>	<u>Sacks cement</u>	<u>Method</u>	<u>Top found at</u>
Sept. 29/60	130'	20	Pumped	70'
Sept. 29/60	10'	5	Poured	Surface
.				
.				
.				

Washed well samples have been sent to Geological Survey of Canada, Calgary
will be

Cores will be stored at Edmonton (to be forwarded to Oil Conservation Engineer, Calgary)

Core analysis (was made) of the Intervals 9' to 140.6'
(~~submitted~~)

Oil analysis (was made) of the Intervals. 94'
(~~submitted~~)

Gas analysis (was made) of the Intervals.
(to be made)

Water analysis (was made) of the Intervals.
(to be made)

The above analyses (are)
(~~submitted~~) submitted in accordance with Section 70(2) of
the Regulations.

ADDITIONAL DETAILS AND COMMENTS

No logs were run on this hole as equipment not available.
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.

Signed *A. M. McE...* Address P.O. Box 880, Yellowknife, N.W.T.
Date March 29th, 1961

(To be submitted in triplicate in accordance with Sections
68, 69, 70 and 71, of the Territorial Oil and Gas Regulations
to the Oil Conservation Engineer at Calgary, Alberta.)

FORM "CM"

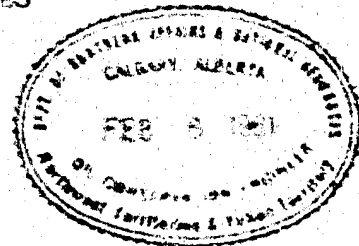
CANADA

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCE DIVISION

ABANDON



NOTICE OF INTENTION TO

or

a Well

~~STOP WORK~~

(Strike out operation which does not apply)

In accordance with Sections 48 & 49 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to

ABANDON the well named **Koss Sulphur Bay No. 1** on Oil

Permit No. **2471**
and Gas Registered in the name of **Koss Petroleum Ltd.**
Lease No.

Depth **160** feet. Elevation above sea level: Ground surface **623** ft.
Kelly bushing **626** ft.

Location **61° 25' 33"** N. Lat. **115° 57' 00"** W. Long.

6 1/2 miles (N. of S. boundary) (Permit No. **2471**)
(~~Section 2471~~) of (Lease No. **2471**)
2 miles (W. of E. boundary) of (Permit No. **2471**)
(~~Section 2471~~) (Lease No.)

Survey description, if available

CASING RECORD

Size O.D. inches	Weight lbs/ft	Grade	Amount feet	Set at feet	Sacks cement	Method	to be withdrawn
1 5 1/2	14 lbs	Range 2	66	64	20		No
2 4 1/2	7.5	A	116	116	30		No.
3							
4							

OIL, GAS AND WATER

Oil from feet to feet From feet to feet with
. sacks cement
Oil from feet to feet From feet to feet with
. sacks cement

Gas from feet to feet	From feet to feet with
	sacks of cement.
Gas from feet to feet	From feet to feet with
	sacks of cement.
Water from feet to feet	From feet to feet with
	sacks cement.
Water from feet to feet	From feet to feet with
	sacks cement.

Surface and bottom plugs:

1. from feet to feet with sacks cement.
2. from feet to feet with sacks cement.
3. from feet to feet with sacks cement.

Date of last operation Total depth

Nature of liquid left in well Level from surface
on suspension or abandonment

The following logs will be run
have been
No logs run

Produced from zone and
on abandonment of a well which has been on production.

Present condition of well in addition to above
.
.

On abandonment or suspension of drilling we shall comply with Sections 68, 69 and 70 of the Regulations.

Program of operation not included above
.
.
.

Responsible agents of permittee or lessee in charge of operation:

At well Postal address
At registered office Postal address

It is understood that if changes in this Notice of Intention become necessary we will promptly notify you.

dated at this day of 19.

Signed by

This program is approved subject to the following provisions

.....
.....
.....
.....

14.2 February 1961
Date

B. H. Shum
Oil Conservation Engineer

(To be submitted in triplicate to the Oil Conservation
Engineer at Calgary, Alberta.)

FORM "A"

CANADA

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

or

TO CARRY OUT A STRUCTURE TEST PROGRAM

In accordance with Section 58 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil and Gas Permit No. **2471** . . . registered in the name of Lease No.

Kosa Petroleum Ltd.

TYPE OF WELL:

Wildcat ☒

Development

Expected total depth **500** feet, in the **Carbonate** formation of **middle devonian** age.

The well will be located at **61° 25' 33"** N. Lat. **115° 37' 00"** W. Long.

6 1/2 miles (N. of S. boundary) (Permit No. **2471**)
(~~boundary~~) of (Lease No.)
2 miles (W. of E. boundary) of (Permit No. **2471**)
(E. of W. boundary) (Lease No.)

Survey description of Location, if known **61° 25' 33" north latitude, 115° 37' 00" west longitude, 500 feet west of Point F 7 and 3600 feet north 22° west from Point Z2**

Approximate surface elevation of **623** feet above sea level.

Name of well **Kosa Sulphur Bay No. 1**

Type of drilling rig **Boyles Bros. # 1 P-6 drilling rig.**

Expected date of commencement **December 20th, 1959.**

We propose to use the following strings of casing, cementing them as indicated below:

Size O.D. Inches	Weight lbs/ft	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
1. 4 1/2	7.5	A	Boyles Bros.	New	300	15
			flush coupled			
2.						
3.						

Expected depth of water, gas and oil horizons and method of control:

Water - 75' ; Oil horizon - 100 - 150' ;

Method of control - mud.

An electric log ~~will~~ be run Other logs ~~will~~ be run
will not will not

STRUCTURE TEST PROGRAM

Proposed number of holes . 2 Maximum well depth . 500'
enclosed within an area bounded by

61° 19' and 61° 26' N. Latitudes

115° 39' and 115° 36' W. Longitudes

An electric log ~~will~~ be run Other logs ~~will~~ be run
will not will not

Name and address of drilling contractor . Wildcat Diamond Drilling Ltd., . . .
401A Petroleum Bldg., . . .
Edmonton, Alberta.

Responsible agents of permittee or lessee in charge of operation:

At well C. M. McAvoy Postal address Yellowknife, N.W.T. . .

At registered office C. M. McAvoy Postal address 401A Petroleum Bldg., Edmonton, Alta.

It is understood that if changes in this Notice of Intention become necessary we will promptly notify you.

Dated at Edmonton this 8th day of December . . . 19 59

Signed by *C. M. McAvoy*

This program is approved subject to the following provisions (if any):

30th December 1959
Date

B. H. Shorn
Oil Conservation Engineer.

(To be submitted in triplicate to the Oil Conservation Engineer at least 15 days prior to the commencement of drilling)

LOCATION PLAT

STRATIGRAPHIC TEST HOLE

KORE PETROLEUMS #1 SULPHUR BAY #1

Location ^{53" - Corr. Letter - 28.12.59} 61° 25' ~~53"~~ N. Lat

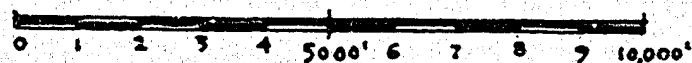
115° 57' 00" W. Long

500 feet west of Point F7

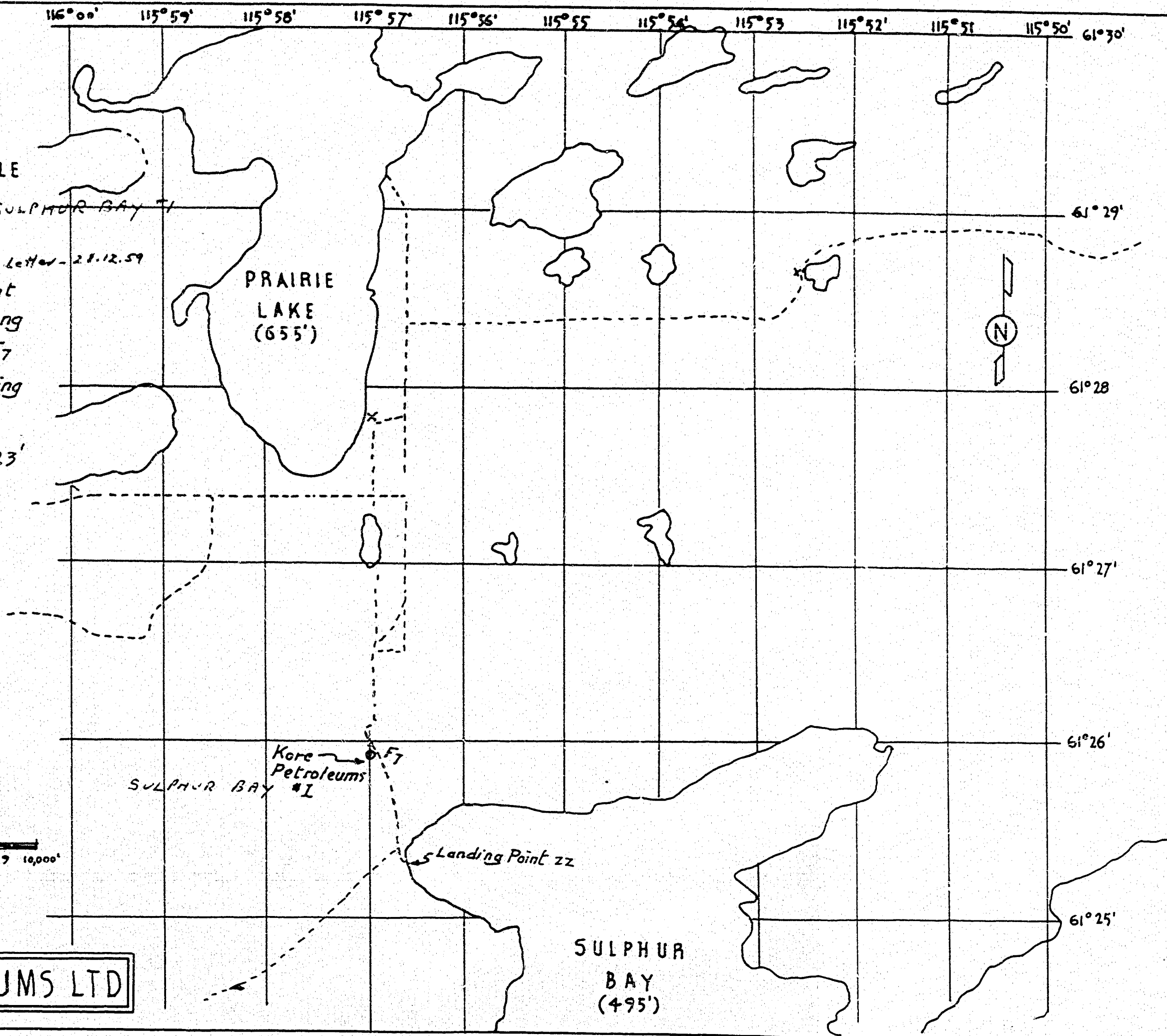
3600' N 22° W from Landing Point ZZ

Elevation of Point F7 is 623' above sea level

Scale 1" = 3000'



KORE PETROLEUMS LTD



COPE LABORATORIES-Canada LTD.
CALGARY ALBERTA

Company - KORE PETROLEUMS
Well - NO. 1
Field - WILDCAT

Date Report - MARCH 1, 1950
Formation -
Analysis - FULL DIAMETER
Cores - DIAMOND

Page - 1 of 4
File - CWP-1-4636
analysts - MC:SM

[illegible]

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REP.	PERMEABILITY TO AIR			POROSITY PER CENT	POROSITY X FEET	DENSITY		RESIDUAL SATURATION		VISUAL EXAMINATION
			HORIZONTAL) K MAX K 90°)		VERTICAL			BULK	GRAIN	OIL % PORE	TOTAL WATER % PORE	
18	72.1-73.2	1.1	37.	10.	*	21.2	23.32	2.23	2.87	36.4	6.8	Vugular, intergran.
19	73.2-74.2	1.0	6500.	0.36	345.	8.2	8.20	2.60	2.83	27.0	2.7	Pin pt. vugs, tract. intergranular
20	74.2-75.5	1.3	*	0.10	0.11	7.8	10.14	2.62	2.84	46.6	13.3	Large vugs, fracture
21	75.5-76.9	1.4	18.	1.0	0.57	5.5	4.90	2.75	2.85	53.6	21.9	Small vugs, fracture
22	76.9-78.1	1.2	0.31	0.22	<0.01	3.1	3.72	2.73	2.82	55.6	24.0	Small vugs
23	78.1-79.3	1.2	111.	39.	0.70	7.3	8.76	2.60	2.81	77.5	6.5	Small vugs, pin pt. vugs, intergran. fract.
24	79.3-80.5	1.2	156.	60.	230.	9.6	11.52	2.57	2.84	56.8	26.1	Pin pt. vugs, inter- gran. fracture
25	80.5-81.9	1.4	*	7.3	<0.01	11.4	15.96	2.49	2.80	65.8	9.8	Large vugs, pin pt. vugs
26	81.9-83.4	1.5	0.79	0.13	0.16	6.1	9.15	2.66	2.84	57.2	5.1	Pin pt. vugs, intergran.
27	83.4-85.0	1.6	47.	47.	<0.01	9.3	14.88	2.57	2.83	46.5	2.3	Large vugs, pin pt. vugs
28	85.0-86.4	1.4	0.27	0.11	<0.01	3.6	5.04	2.76	2.86	65.0	11.8	Pin pt. vugs, fract.
29	86.4-87.9	1.5	39.	0.87	0.52	4.1	6.15	2.71	2.82	29.8	46.8	Pin pt. vugs, fract.
30	87.9-88.8	0.9	*	4.8	16.	6.4	5.76	2.64	2.82	63.0	11.3	Large vugs, pin pt. vugs
31	88.8-90.3	1.5	2.8	2.5	<0.01	4.0	6.00	2.69	2.80	59.5	24.3	Pin pt. vugs, fract.
32	90.3-91.8	1.5	0.35	<0.01	<0.01	3.4	5.10	2.74	2.84	40.8	14.8	Pin pt. vugs, fract.
33	91.8-93.3	1.5	2.5	1.5	9.0	11.5	17.25	2.54	2.87	31.6	21.1	Large vugs, fracture
34	93.3-94.8	1.5	17.	<0.01	*	4.7	7.05	2.73	2.86	Trace	41.1	Few small vugs, fract.
35	94.8-96.1	1.3	*	71.	<0.01	9.7	11.70	2.59	2.87	45.0	20.0	Large vugs
36	96.1-97.6	1.5	10.17	0.06	<0.01	2.8	4.20	2.75	2.83	14.0	20.9	Pin pt. vugs, fract.
37	97.6-98.9	1.3	*	2.5	1.3	11.8	15.34	2.50	2.84	Trace	65.0	Large vugs, intergran.
38	98.9-100.4	1.5	0.3	0.58	<0.01	3.5	5.25	2.74	2.84	47.3	21.0	Intergran. fracture
39	100.4-101.7	1.3	0.12	0.28	<0.01	2.0	2.60	2.80	2.85	Trace	54.0	Intergran. fracture
40	101.7-103.0	1.3	*	2.4	0.03	8.7	11.31	2.63	2.86	34.6	27.0	Large vugs
41	103.0-104.2	1.2	27.	20.	3.5	4.4	5.88	2.73	2.87	57.8	18.4	Small vugs, pin pt. vugs, intergran. fracture

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REP.	PERMEABILITY TO AIR HORIZONTAL)			POROSITY PER CENT	POROSITY FEET	DENSITY		RESIDUAL SATURATION		VISUAL EXAMINATION
			K MAX	K 90°	VERTICAL			BULK	GRAIN	OIL % PORE	TOTAL WATER % PORE	
42	104.2-105.4	1.2	5850.	15.	0.23	8.9	10.68	2.53	2.88	33.4	25.9	Slightly vugular
43	105.4-106.8	1.4	55.	53.	22.	9.4	13.16	2.57	2.84	24.0	36.0	Slightly vugular, fracture
-	106.8-107.4	0.6	-	-	-	-	-	-	-	-	-	Rubble, no sample
44	107.4-109.1	1.7	0.23	0.19	<0.01	2.9	4.93	2.75	2.83	Trace	53.0	Intergranular
45 SS	109.1-110.3	1.2	0.3	0.2	0.1	5.9	7.08	-	-	34.0	18.0	Small vugs, inter- granular
46	110.3-111.5	1.2	95.	12.	11.	10.0	12.00	2.58	2.85	34.8	36.8	Pin pt. vugs, intergran. fract.
47	111.5-113.2	1.7	15.	1.1	<0.01	6.3	10.71	2.69	2.86	0.0	28.8	Pin pt. vugs, intergran. fract.
48	113.2-114.0	0.3	0.30	0.22	<0.01	2.8	2.24	2.77	2.85	34.5	42.0	Small vugs
49	114.0-115.3	1.3	0.84	0.24	0.19	7.2	9.36	2.65	2.85	17.5	50.0	Small vugs
-	115.3-116.3	1.0	-	-	-	-	-	-	-	-	-	Dense, no sample
50	116.3-117.4	1.1	190.	50.	115.	13.9	15.29	2.49	2.87	15.9	47.8	Vugular
51	117.4-118.8	1.4	4.6	0.18	<0.01	5.8	8.12	2.67	2.83	26.7	52.0	Pin pt. vugs, fract.
52	118.8-120.4	1.6	5.7	4.9	<0.01	5.2	8.32	2.69	2.83	28.2	41.2	Slightly vugular
53	120.4-121.4	1.0	78.	17.	56.	7.0	7.00	2.64	2.84	27.6	22.6	Slightly vugular, fracture
54	121.4-122.4	1.0	15.	7.1	0.47	6.9	6.90	2.65	2.85	34.0	31.7	Slightly vugular
-	122.4-122.8	0.4	-	-	-	-	-	-	-	-	-	Dense, no sample
55	122.8-124.0	1.2	28.	12.	0.89	8.6	10.32	2.58	2.82	54.5	19.6	Vugular
56	124.0-125.0	1.0	18.	0.27	0.01	5.4	5.40	2.70	2.85	34.3	27.0	Slightly vugular, fracture
57	125.0-126.1	1.1	475.	5.2	17.	14.5	15.95	2.42	2.83	23.9	32.6	Vugular, fracture
58	126.1-127.2	1.1	65.	2.7	4.0	12.3	13.53	2.50	2.85	36.8	25.0	Vugular
-	127.2-127.6	0.4	-	-	-	-	-	-	-	-	-	Dense, no sample
59	127.6-128.7	1.1	12.	1.3	0.51	13.1	14.41	2.47	2.84	Trace	72.5	Vugular
60	128.7-129.7	1.0	330.	23.	7.5	19.1	19.10	2.27	2.81	15.0	78.2	Vugular
61	129.7-130.5	0.8	128.	80.	0.76	10.0	8.00	2.54	2.83	72.2	13.9	Vugular
62	130.5-131.4	0.9	9.4	6.7	0.37	8.8	7.92	2.58	2.82	52.5	23.2	Vugular
63	131.4-131.9	0.5	120.	69.	34.	22.8	11.40	2.19	2.84	27.3	48.5	Vugular
-	131.9-140.6	8.7	-	-	-	-	-	-	-	-	-	Dense, no sample

SS - Small sample

Core with Permeability 0.00 to less than 0.10 Md.

Total footage of core with permeability 0.00 to less than 0.10 millidarcys-----	7.1'	
Weighted average porosity of core with permeability 0.00 to less than 0.10 millidarcys-----	3.44%	(24.45)
Per cent of analyzed core having permeability 0.00 to less than 0.10 millidarcys-----	9.5%	
Weighted average horizontal permeability of core with permeability 0.00 to less than 0.10 md-----	40.1	

Core with Permeability 0.10 to 0.99 Millidarcys

Total footage of core with 0.10 to 0.99 millidarcys permeability-----	19.3'	
Weighted average porosity of core with 0.10 to 0.99 millidarcys permeability-----	4.35%	(84.05)
Per cent of analyzed core having 0.10 to 0.99 millidarcys permeability-----	25.8%	
Weighted average horizontal permeability of core with 0.10 to 0.99 millidarcys-----	0.41 md.	(7.96)

Core with Permeability 1.0 to 9.9 Millidarcys

Total footage of core with 1.0 to 9.9 millidarcys permeability-----	14.0'	
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability-----	7.36%	(103.08)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability-----	18.7%	
Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys-----	4.0 md.	(56.03)

Core with Permeability 10 Millidarcys and Greater

Total footage of core with permeabilities 10 millidarcys and greater-----	34.5'	
Weighted average porosity of core with permeabilities 10 millidarcys and greater-----	9.40%	(324.30)
Per cent of analyzed core having permeabilities 10 millidarcys and greater-----	46.0%	
Weighted average horizontal permeability of core with permeability 10 md. and greater-----	523. md.	(18037.20)

Core interval-----	9.0' - 140.6'	
Total footage-----	131.6'	
Footage analyzed-----	74.9'	
Footage not analyzed-----	Dense 57.7'	57.7'
Weighted average porosity of core analyzed-----	7.15%	(535.88)
Weighted average horizontal permeability of core analyzed-----	242. md.	(18101.19)

Note: Figures in parentheses indicate porosity feet and permeability feet.



CORE LABORATORIES CANADA LTD.

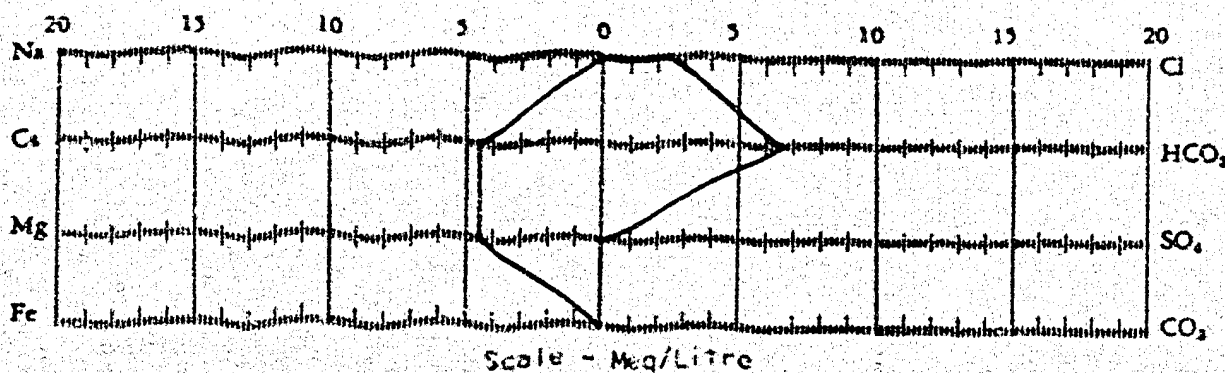
PETROLEUM SERVICES ENGINEERING

CALGARY, ALBERTA

WATER ANALYSIS

File CNP-1-WA 28

Company <u>Kure Petroleum</u>	Well Name <u>Kure Petroleum No. 1</u>	Sample No. _____
Formation _____	Depth _____	Sampled From _____
Location _____	Field <u>W. Locat</u>	Province <u>Alberta</u>
Date Sampled _____	Date Analyzed <u>Jan. 2/59</u>	Engineer <u>K.D.</u>
Constituents	Constituents	Constituents
1. Total Solids <u>625</u> ppm	6. Sodium _____	11. Chloride <u>2.5</u> ppm
2. pH <u>7.2</u>	7. Calcium <u>4.5</u> ppm	12. Bicarbonate <u>0.5</u> ppm
3. Sp. gr. <u>1.022</u> @ <u>55</u> °F.	8. Magnesium <u>4.5</u> ppm	13. Sulfate _____
4. Resistivity <u>1000</u> @ <u>25</u> °F. ohm-cm/MCM	9. Iron _____	14. Carbonate _____
5. Hydrogen Sulfide <u>Absent</u>	10. Barium _____	15. Hydroxide _____



HYPOTHETICAL COMBINATIONS

Constituent	ppm	Constituent	ppm
1. Calcium Chloride	<u>249</u>	4. Sodium Chloride	<u>-</u>
2. Magnesium Bicarbonate	<u>473</u>	5. Sodium Sulfate	<u>-</u>
3. Magnesium Chloride	<u>-</u>		

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

10648 - 116th Street, Edmonton, Alberta
Phone: GA 7-3434 GA 4-3363

428 - 25 Ave. N.E., Calgary, Alberta
Phone: CH 7-6149 CH 7-6385

ANALYTICAL REPORT

From: Kore Petroleum Ltd.

Product: Oil

Address:

Date Received: February 5, 1960.

Other Pertinent Data: Kore Sulfur Bay No. 1.

Formation: (Reef)

Analyzed by: Chemical & Geological Labs. Ltd. Date: February 18, 1960

Lab. No. E15574

CRUDE OIL ANALYSIS

Specific Gravity at 60/60°F. 0.826
A.P.I. Gravity at 60/60°F. 39.81°

<u>Distillation:</u>	IBP	223°F.
	5 %	329
	10	343
	15	356
	20	365
	25	377
	30	384
	35	396
	40	403
	45	420
	50	431
	55	442
	60	451
	65	461
	70	476
	75	490
	80	506
	85	526
	90	550
	FBP	572

Distillation: Summary

400°F. Naphtha 37.0 %
525°F. Kerosine 47.0 %
Recovered 96.0 %
Residue 3.0 %
Distillation Loss 1.0 %

On the basis of this distillation we are unable to determine the percentage of diesel fuel it contained.

Temperatures are uncorrected for barometric pressure which was 696.2 mm. Room temperature at start of distillation was 75°F.

Kore Sulphur Bay No. 1

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - KORE PETROLEUMS *SULPHUR Bay*
Well - NO. 1
Field - WILDCAT

Date Report - MARCH 1, 1960
Formation -
Analysis - FULL DIAMETER
Cores - DIAMOND

Page - 1 of 4
File - CNP-1-4636
Analysts - NC:SM

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REP.	PERMEABILITY TO AIR			POROSITY PER CENT	POROSITY X FEET	DENSITY BULK GRAIN	RESIDUAL SATURATION		VISUAL EXAMINATION	
			HORIZONTAL) K MAX	K 90°)	VERTICAL				OIL \$ PORE	TOTAL WATER \$ PORE		
CORED INTERVAL 9.0' - 140.6'			* Broken or fractured core. K 90° used for summary purposes.									
-	9.0-11.4	2.4	-	-	-	-	-	-	-	-	-	Dense, no sample
1 SS	11.4-12.0	0.6	<0.1	<0.1	<0.1	2.9	1.74	-	-	-	-	Small vugs, intergran.
-	12.0-18.9	6.9	-	-	-	-	-	-	-	-	-	Dense, no sample
2	18.9-19.6	0.7	287.	122.	34.	6.3	4.41	2.68	2.86	33.3	33.3	Slightly vugular, fracture
3	19.6-20.6	1.0	0.36	0.27	<0.01	1.7	1.70	2.75	2.79	16.7	55.5	Pin point vugs
-	20.6-21.8	1.2	-	-	-	-	-	-	-	-	-	Dense, no sample
4 SS	21.8-22.6	0.8	<0.1	<0.1	<0.1	4.3	3.44	-	-	16.9	49.2	Intergranular
5 SS	22.6-23.6	1.0	<0.1	<0.1	<0.1	4.4	4.40	-	-	24.0	45.7	Intergranular
6 SS	23.6-24.7	1.1	0.6	0.6	0.3	7.4	8.14	-	-	31.9	36.2	Intergranular
-	24.7-59.1	34.4	-	-	-	-	-	-	-	-	-	Dense, no sample
7 SS	59.1-60.5	1.4	<0.1	<0.1	<0.1	1.6	2.24	-	-	46.0	29.2	Intergranular
8 SS	60.5-61.6	1.1	<0.1	<0.1	<0.1	2.3	2.53	-	-	31.0	35.6	Small vugs, intergran.
9 SS	61.6-62.8	1.2	<0.1	<0.1	<0.1	4.6	6.90	-	-	50.2	26.6	Small vugs, intergran.
10	62.8-64.0	1.2	1.0	*	<0.01	3.5	4.20	2.69	2.79	51.3	33.3	Large vugs, pin pt. vugs, fracture
11	64.0-65.0	1.0	57.	33.	23.	6.7	6.70	2.64	2.83	57.3	21.5	Pin pt.vugs, intergran.
12	65.0-66.2	1.2	*	955.	370.	17.1	20.52	2.36	2.85	45.5	35.8	Pin pt.vugs, intergran.
13	66.2-67.4	1.2	*	188.	0.31	6.8	6.16	2.59	2.78	49.4	29.9	Small vugs, pin pt. vugs, intergranular
14	67.4-68.4	1.0	33.	19.	1.8	8.3	8.30	2.59	2.83	72.2	13.6	Pin pt.vugs, intergran.
15 SS	68.4-69.4	1.0	<0.1	<0.1	<0.1	3.2	3.20	-	-	56.0	22.0	Pin pt.vugs, intergran.
16 SS	69.4-70.4	1.0	0.4	0.3	0.1	5.4	5.40	-	-	60.5	19.0	Pin pt.vugs, intergran.
17	70.4-71.4	1.0	*	1.3	0.43	2.9	2.90	2.70	2.78	55.0	22.5	Pin pt.vugs, fract.
-	71.4-72.1	0.7	-	-	-	-	-	-	-	-	-	Dense, no sample

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SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REP.	PERMEABILITY TO AIR			POROSITY PER CENT	POROSITY X FEET	DENSITY		RESIDUAL SATURATION		VISUAL EXAMINATION
			HORIZONTAL)		VERTICAL			BULK	GRAIN	OIL \$ PORE	TOTAL \$ PORE	
18	72.1-73.2	1.1	37.	10.	*	21.2	23.32	2.23	2.87	36.4	6.8	Vugular, intergran.
19	73.2-74.2	1.0	6500.	0.36	343.	8.2	8.20	2.60	2.83	27.0	2.7	Pin pt. vugs, fract. intergranular
20	74.2-75.5	1.3	*	0.10	0.11	7.8	10.14	2.62	2.84	46.6	13.3	Large vugs, fracture
21	75.5-76.9	1.4	18.	1.0	0.57	3.5	4.90	2.75	2.85	53.6	21.9	Small vugs, fracture
22	76.9-78.1	1.2	0.31	0.22	<0.01	3.1	3.72	2.73	2.82	55.6	24.0	Small vugs
23	78.1-79.3	1.2	111.	39.	0.70	7.3	8.76	2.60	2.81	77.5	6.5	Small vugs, pin pt. vugs, intergran. fract.
24	79.3-80.5	1.2	156.	60.	230.	9.6	11.52	2.57	2.84	56.8	26.1	Pin pt. vugs, inter- gran. fracture
25	80.5-81.9	1.4	*	7.3	<0.01	11.4	15.96	2.49	2.80	65.8	9.8	Large vugs, pin pt. vugs
26	81.9-83.4	1.5	0.79	0.13	0.16	6.1	9.15	2.66	2.84	57.2	5.1	Pin pt. vugs, intergran.
27	83.4-85.0	1.6	47.	47.	<0.01	9.3	14.88	2.57	2.83	46.5	2.3	Large vugs, pin pt. vugs
28	85.0-86.4	1.4	0.27	0.11	<0.01	3.6	5.04	2.76	2.86	65.0	11.8	Pin pt. vugs, fract.
29	86.4-87.9	1.5	39.	0.87	0.52	4.1	6.15	2.71	2.82	29.8	46.8	Pin pt. vugs, fract.
30	87.9-88.8	0.9	*	4.8	16.	6.4	5.76	2.64	2.82	63.0	11.3	Large vugs, pin pt. vugs
31	88.8-90.3	1.5	2.8	2.5	<0.01	4.0	6.00	2.69	2.80	59.5	24.3	Pin pt. vugs, fract.
32	90.3-91.8	1.5	0.35	<0.01	<0.01	3.4	5.10	2.74	2.84	40.8	14.8	Pin pt. vugs, fract.
33	91.8-93.3	1.5	2.5	1.5	9.0	11.5	17.25	2.54	2.87	31.6	21.1	Large vugs, fracture
34	93.3-94.8	1.5	17.	<0.01	*	4.7	7.05	2.73	2.86	Trace	41.1	Few small vugs, fract.
35	94.8-96.1	1.3	*	71.	<0.01	9.7	11.70	2.59	2.87	45.0	20.0	Large vugs
36	96.1-97.6	1.5	0.17	0.06	<0.01	2.8	4.20	2.75	2.83	14.0	20.9	Pin pt. vugs, fract.
37	97.6-98.9	1.3	*	2.5	1.3	11.8	15.34	2.50	2.84	Trace	65.0	Large vugs, intergran.
38	98.9-100.4	1.5	0.61	0.58	<0.01	3.5	5.25	2.74	2.84	47.3	21.0	Intergran. fracture
39	100.4-101.7	1.3	0.52	0.28	<0.01	2.0	2.60	2.80	2.85	Trace	54.0	intergran. fracture
40	101.7-103.0	1.3	*	2.9	0.03	8.7	11.31	2.63	2.86	34.6	27.0	Large vugs
41	103.0-104.2	1.2	26.	20.	3.5	4.9	5.88	2.73	2.87	57.8	18.4	Small vugs, pin pt. vugs, intergran. fracture

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REP.	PERMEABILITY TO AIR			POROSITY PER CENT	POROSITY X FEET	DENSITY		RESIDUAL SATURATION		VISUAL EXAMINATION
			HORIZONTAL) K MAX	K 90°	VERTICAL			BULK	GRAIN	OIL % PORE	TOTAL WATER % PORE	
42	104.2-105.4	1.2	5830.	15.	0.23	8.9	10.68	2.63	2.88	33.4	25.9	Slightly vugular
43	105.4-106.8	1.4	55.	53.	22.	9.4	13.16	2.57	2.84	24.0	36.0	Slightly vugular, fracture
-	106.8-107.4	0.6	-	-	-	-	-	-	-	-	-	Rubble, no sample
44	107.4-109.1	1.7	0.23	0.19	<0.01	2.9	4.93	2.75	2.83	Trace	53.0	Intergranular
45 SS	109.1-110.3	1.2	0.5	0.2	0.1	5.9	7.08	-	-	34.0	18.0	Small vugs, inter- granular
46	110.3-111.5	1.2	95.	12.	11.	10.0	12.00	2.58	2.85	34.8	36.8	Pin pt. vugs, intergran. fract.
47	111.5-113.2	1.7	15.	1.1	<0.01	6.3	10.71	2.69	2.86	0.0	28.8	Pin pt. vugs, intergran. fract.
48	113.2-114.0	0.8	0.30	0.22	<0.01	2.8	2.24	2.77	2.85	34.5	42.0	Small vugs
49	114.0-115.3	1.3	0.84	0.24	0.19	7.2	9.36	2.65	2.85	17.5	50.0	Small vugs
-	115.3-116.3	1.0	-	-	-	-	-	-	-	-	-	Dense, no sample
50	116.3-117.4	1.1	190.	50.	115.	13.9	15.29	2.49	2.87	15.9	47.8	Vugular
51	117.4-118.8	1.4	4.6	0.18	<0.01	5.8	8.12	2.67	2.83	26.7	52.0	Pin pt. vugs, fract.
52	118.8-120.4	1.6	5.7	4.9	<0.01	5.2	8.32	2.69	2.83	28.2	41.2	Slightly vugular
53	120.4-121.4	1.0	78.	17.	56.	7.0	7.00	2.64	2.84	27.6	22.6	Slightly vugular, fracture
54	121.4-122.4	1.0	15.	7.1	0.47	6.9	6.90	2.65	2.85	34.0	31.7	Slightly vugular
-	122.4-122.8	0.4	-	-	-	-	-	-	-	-	-	Dense, no sample
55	122.8-124.0	1.2	28.	12.	0.89	8.6	10.32	2.58	2.82	54.5	19.6	Vugular
56	124.0-125.0	1.0	18.	0.27	0.01	5.4	5.40	2.70	2.85	34.3	27.0	Slightly vugular, fracture
57	125.0-126.1	1.1	475.	5.2	17.	14.5	15.95	2.42	2.83	23.9	32.6	Vugular, fracture
58	126.1-127.2	1.1	65.	2.7	4.0	12.3	13.53	2.50	2.85	38.8	25.0	Vugular
-	127.2-127.6	0.4	-	-	-	-	-	-	-	-	-	Dense, no sample
59	127.6-128.7	1.1	12.	1.3	0.51	13.1	14.41	2.47	2.84	Trace	72.5	Vugular
60	128.7-129.7	1.0	330.	23.	-	19.1	19.10	2.27	2.81	15.0	78.2	Vugular
61	129.7-130.5	0.8	128.	20.	0.74	10.0	8.00	2.54	2.83	72.2	13.9	Vugular
62	130.5-131.4	0.9	9.4	6.7	0.37	8.8	7.92	2.58	2.82	52.5	23.2	Vugular
63	131.4-131.9	0.5	1200.	69.	34.	22.8	11.40	2.19	2.84	27.3	48.5	Vugular
-	131.9-140.5	8.7	-	-	-	-	-	-	-	-	-	Dense, no sample

SS - Small sample

Core with Permeability 0.00 to less than 0.10 Md.

Total footage of core with permeability 0.00 to less than 0.10 millidarcys-----	7.1'
Weighted average porosity of core with permeability 0.00 to less than 0.10 millidarcys-----	3.44% (24.45)
Per cent of analyzed core having permeability 0.00 to less than 0.10 millidarcys-----	9.5%
Weighted average horizontal permeability of core with permeability 0.00 to less than 0.10 md-----	<0.1

Core with Permeability 0.10 to 0.99 Millidarcys

Total footage of core with 0.10 to 0.99 millidarcys permeability-----	19.3'
Weighted average porosity of core with 0.10 to 0.99 millidarcys permeability-----	4.35% (84.05)
Per cent of analyzed core having 0.10 to 0.99 millidarcys permeability-----	25.8%
Weighted average horizontal permeability of core with 0.10 to 0.99 millidarcys-----	0.41 md. (7.96)

Core with Permeability 1.0 to 9.9 Millidarcys

Total footage of core with 1.0 to 9.9 millidarcys permeability-----	14.0'
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability-----	7.36% (103.08)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability-----	18.7%
Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys-----	4.0 md. (56.03)

Core with Permeability 10 Millidarcys and Greater

Total footage of core with permeabilities 10 millidarcys and greater-----	34.5'
Weighted average porosity of core with permeabilities 10 millidarcys and greater-----	9.40% (324.30)
Per cent of analyzed core having permeabilities 10 millidarcys and greater-----	16.0%
Weighted average horizontal permeability of core with permeability 10 md. and greater-----	523. md. (18037.20)

Core'd interval-----	
Total footage-----	9.0' - 140.6'
Footage analyzed-----	131.6'
Footage not analyzed-----	74.9'
Weighted average porosity of core analyzed-----	57.7%
Weighted average horizontal permeability of core analyzed-----	7.15% (535.88)
	242. md. (18101.19)

Note: Figures in parentheses indicate porosity feet and permeability feet.

MEMORANDUM • GOVERNMENT OF CANADA

TO : S. Kanik - Dept. of Northern Affairs,
Ottawa.

YOUR FILE No:

FROM : H.R. Belyea

OUR FILE No:

SUBJECT:

Notes: 1. 2. 3.
4. 5. 6.
7. 8. 9.
10. 11. 12.
File No. _____
Date: _____

DATE: May 17/61.

Dear Steve:

Herewith the core description for Kore Petroleum
Sulphur Bay No. 1. Will be sending others shortly.

HRB/cg

John:

H.R. Belyea

H.R. Belyea.

Core Petrolene -- Sulphur Bay No. 1

description by H.R. Belyea May 1961

Cast No.
Location:
No. 1

61°25'55"N: 115°15'00"W.

- 0 - 19' Shale, brown, limy, massive, platy horizontal fracture, more or less limy laminations (looks like Firebag)
- 19' - 19'3" Limestone, brown, fine to coarse-grained, containing brachiopod and crinoid fragments; sharp change
- 19'3" - 19'6" Dolomite, brown, fine to coarse; crinoids, abundant large brachiopods; white chert replacing brachiopod and other fossil fragments; sharp change
- 19'6" - 20' Dolomite, grey to brown, coarsely crystalline, vuggy; stained brown with heavy dead oil
- 20' - 21' Dolomite, dark brownish grey, medium to coarsely crystalline, brachiopod and crinoid fragments visible.
- 21' - 25'6" Limestone, brown, fine to coarse grained, fossiliferous - fragmental; elastic limestone; brachiopods; crinoids, light oil stain to 24'6"; pelletoid, tightly cemented with calcite in bottom foot; some silicification of fossils
- 25'6" - 30' Shale, black, slightly calcareous, lingules and black carbonate streaks at top
- 30 - 30'6" Limestone, brown, fine to medium grained, calcite cement; siliceous spines grades to:
- 30'6" - 38' Limestone, lensing into shaly, limy with wavy brown shale laminae, more limy lenses up to 1 1/2" thick; limestone is fine sandstone size with argillaceous material intermixed, varies to limy shale; in part is slightly siliceous
- 38' - 46' Limy shale and ^{shaly} limestone as above, laminated; numerous corals, lying flat; Lingula; poorly preserved brachiopod and crinoid fragments
- 46 - 53' Limestone and shale interbedded in layers 1" to 4" thick; limestone in part forms lenses and nodules draped by dark brown shale; shale is laminated dark brown with light brown more limy layers; Tentaculites; spines; lingules; a few small corals
- 53 - 59' Limestone, brown, fine to coarse grained, pelletoid; tightly cemented with calcite; scattered crinoids; brown limy shale 57-58'; sharp change; contact missing
- 59 - 85' Dolomite, brown, medium to coarsely crystalline; vuggy, heavy black dead oil stain; much of core broken - recovery probably poor from here

Sulphur Bay Pt. 1, cont'd.

- 85' - 90' Dolomite, brown, medium crystalline; intercrystalline; porosity and scattered vugs; patches with heavy black oil stain.
- 90 - 99' Dolomite, brown, fine to medium crystalline; scattered vugs; mosaic texture.
- 99' - 101" Dolomite, dark brown, finely crystalline, tough, tight, irregular dark brown argillaceous laminae.
- 101 - 116' Dolomite, dark brown, finely crystalline; scattered vugs and heavy oil patches; irregular black shale layers, grades to:
- 116' - 130' Dolomite, brown, finely crystalline, packed with organisms, most of them Amphipora; probably stromatoporoids; organisms leached to form vugs; heavy oil stain; some replacement by white coarse crystalline dolomite.
- 130 - 132' Dolomite, brownish grey, finely crystalline; abundant white half-moons coated with coarse dolomitic rhombs and soft white mineral, probably gypsum; white stripes suggest brachiopods.
- 132 - 139' Shale, brown, dolomitic, massive; abundant brachiopod imprints at 135-136, shells coated or replaced by soft white mineral (gypsum?), orange mineral.
- 139 - 140' Dolomite, light brown, fine to medium crystalline; poorly preserved brachiopod imprints.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

10548 - 714th Street, Edmonton, Alberta
Phone SA 3-6634 SA 4-2562

438 - 25 Ave. N.E., Calgary, Alberta
Phone CR 7-4549 CR 7-6085

ANALYTICAL REPORT

From Kore Petroleum Ltd.

Product Oil

Address

Date Received: February 3, 1960.

Other Pertinent Data Kore Sulfer Bay No. 1.

Formation: (Reef)

Analyzed by Chemical & Geological Labs. Ltd. Date February 18, 1960

Lab. No. E15574

CRUDE OIL ANALYSIS

Specific Gravity at 60/60°F. 0.826
A.P.I. Gravity at 60/60°F. 39.81°

<u>Distillation:</u>	IBP	223°F.
	5 %	329
	10	343
	15	356
	20	365
	25	377
	30	384
	35	396
	40	403
	45	420
	50	431
	55	442
	60	451
	65	461
	70	476
	75	490
	80	506
	85	526
	90	550
	FBP	572

Distillation: Summary

400°F. Naphtha 37.0 %
525°F. Kerosine 47.8 %
Recovered 96.0 %
Residue 3.0 %
Distillation Loss 1.0 %

On the basis of this distillation we are unable to determine the percentage of diesel fuel it contained.

Temperatures are uncorrected for barometric pressure which was 696.2 mm. Room temperature at start of distillation was 75°F.



CORE LABORATORIES-CANADA LTD.

PETROLEUM REFINERY ENGINEERING

CALGARY, ALBERTA

WATER ANALYSIS

File: CNP-MA

Well Name: ...

Sample No.

Depth

Sampled From

Prod. No.

Province

Date Analyzed

Engineer

Constituents Meq/l ppm

Constituents Meq/l ppm

1 Sodium

11 Chloride

2 Calcium 4.5 90

12 Bicarbonate

3 Magnesium 4.5 90

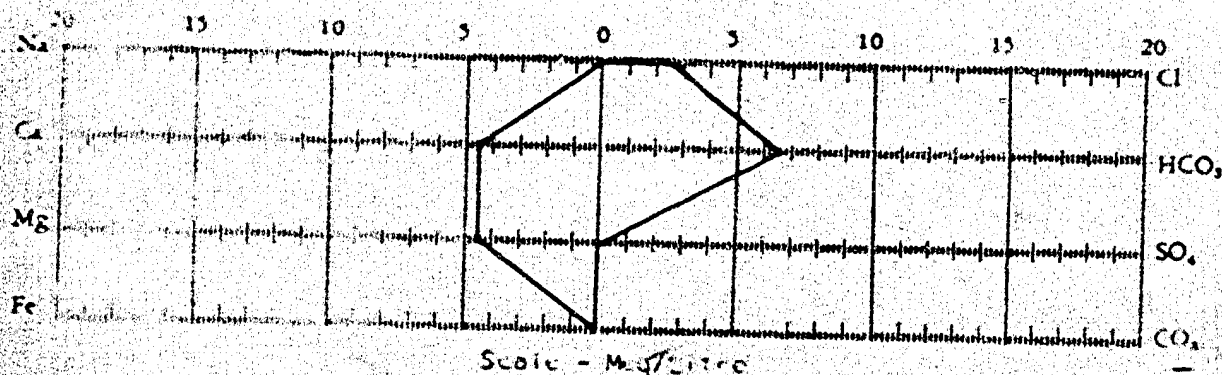
13 Sulfate

7 Iron

14 Carbonate

10 Barium

15 Hydroxide



HYPOTHETICAL COMBINATIONS

Constituent	ppm
1. Calcium Chloride	4.5
2. Magnesium Bicarbonate	4.5
3. Magnesium Chloride	-

Constituent	ppm
4. Sodium Chloride	-
5. Sodium Sulfate	-

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - KORE PETROLEUMS
Well - NO. 1
Field - WILDCAT

Date Report - MARCH 1, 1960
Formation -
Analysis - FULL DIAMETER
Cores - DIAMOND

Page - 1 of 2
File - CNP-1-4636
Analysts - NC:SM

[illegible]

DEPTH REPRESENTED FEET	FOOT. REP.	PERMEABILITY TO AIR		POROSITY PER CENT	POROSITY % FEET	DENSITY		RESIDUAL SATURATION		VISUAL EXAMINATION	
		HORIZONTAL)				BULK	GRAIN	OIL	TOTAL WATER		
		K MAX	K 90°)					% PORE	% PORE		
72.1-73.2	1.1	37.	10.	*	21.2	23.32	2.23	2.87	36.4	5.8	Vugular, intergran.
73.2-74.2	1.0	6500.	0.36	343.	8.2	8.20	2.60	2.83	27.0	2.7	Pin pt.vugs, fract. intergranular
74.2-75.5	1.3	*	0.10	0.11	7.8	10.14	2.62	2.84	46.6	13.3	Large vugs, fracture
75.5-76.9	1.4	18.	1.0	0.57	3.5	4.90	2.75	2.85	53.6	21.9	Small vugs, fracture
76.9-78.1	1.2	0.31	0.22	<0.01	3.1	3.72	2.73	2.82	55.6	24.0	Small vugs
78.1-79.3	1.2	111.	39.	0.70	7.3	8.76	2.60	2.81	77.5	6.5	Small vugs, pin pt. vugs, intergran. fract.
79.3-80.5	1.2	156.	60.	230.	9.6	11.52	2.57	2.84	56.8	26.1	Pin pt. vugs, inter- gran. fracture
80.5-81.9	1.4	*	7.3	<0.01	11.4	15.96	2.49	2.80	65.8	9.8	Large vugs, pin pt. vugs
81.9-83.4	1.5	0.79	0.13	0.16	6.1	9.15	2.66	2.84	57.2	5.1	Pin pt.vugs, intergran.
83.4-85.0	1.6	47.	47.	<0.01	9.3	14.88	2.57	2.83	46.5	2.3	Large vugs, pin pt. vugs
85.0-86.4	1.4	0.27	0.11	<0.01	3.6	5.04	2.76	2.86	65.0	11.8	Pin pt. vugs, fract.
86.4-87.9	1.5	39.	0.87	0.52	4.1	6.15	2.71	2.82	29.8	46.8	Pin pt. vugs, fract.
87.9-88.8	0.9	*	4.8	16.	6.4	5.76	2.64	2.82	63.0	11.3	Large vugs, pin pt. vugs
88.8-90.3	1.5	2.8	2.5	<0.01	4.0	6.00	2.69	2.80	59.5	24.3	Pin pt. vugs, fract.
90.3-91.8	1.5	0.35	<0.01	<0.01	3.4	5.10	2.74	2.84	40.8	14.8	Pin pt. vugs, fract.
91.8-93.3	1.5	2.5	1.5	9.0	11.5	17.25	2.54	2.87	31.6	21.1	Large vugs, fracture
93.3-94.8	1.5	17.	<0.01	*	4.7	7.05	2.73	2.86	Trace	41.1	Few small vugs, fract.
94.8-96.1	1.3	*	71.	<0.01	9.7	11.70	2.59	2.87	45.0	20.0	Large vugs
96.1-97.6	1.5	0.17	0.06	<0.01	2.8	4.20	2.75	2.83	14.0	20.9	Pin pt. vugs, fract.
97.6-98.9	1.3	*	2.5	1.3	11.8	15.34	2.50	2.84	Trace	65.0	Large vugs, intergran.
98.9-100.4	1.5	0.61	0.58	<0.01	3.5	5.25	2.74	2.84	47.3	21.0	Intergran. fracture
100.4-101.7	1.3	0.52	0.28	<0.01	2.0	2.60	2.80	2.85	Trace	54.0	Intergran. fracture
101.7-103.0	1.3	*	2.9	0.03	8.7	11.31	2.63	2.86	34.6	27.0	Large vugs
103.0-104.2	1.2	26.	20.	3.5	4.9	5.88	2.73	2.87	57.8	18.4	Small vugs, pin pt. vugs, intergran. fracture

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REP.	PERMEABILITY TO AIR			POROSITY PER CENT	POROSITY X FEET	DENSITY		RESIDUAL SATURATION		VISUAL EXAMINATION
			HORIZONTAL K MAX	HORIZONTAL K 90°	VERTICAL			BULK	GRAIN	OIL % PORE	TOTAL WATER % PORE	
42	104.2-105.4	1.2	5830.	15.	0.23	8.9	10.68	2.63	2.88	33.4	25.9	Slightly vugular
43	105.4-106.8	1.4	55.	53.	22.	9.4	13.16	2.57	2.84	24.0	36.0	Slightly vugular, fracture
-	106.8-107.4	0.6	-	-	-	-	-	-	-	-	-	Rubble, no sample
44	107.4-109.1	1.7	0.23	0.19	<0.01	2.9	4.93	2.75	2.83	Trace	53.0	Intergranular
45 SS	109.1-110.3	1.2	0.3	0.2	0.1	5.9	7.08	-	-	34.0	18.0	Small vugs, inter- granular
46	110.3-111.5	1.2	95.	12.	11.	10.0	12.00	2.58	2.85	34.8	36.8	Pin pt. vugs, intergran. fract.
47	111.5-113.2	1.7	15.	1.1	<0.01	6.3	10.71	2.69	2.86	0.0	28.8	Pin pt. vugs, intergran. fract.
48	113.2-114.0	0.8	0.30	0.22	<0.01	2.8	2.24	2.77	2.85	34.5	42.0	Small vugs
49	114.0-115.3	1.3	0.84	0.24	0.19	7.2	9.36	2.65	2.85	17.5	50.0	Small vugs
-	115.3-116.3	1.0	-	-	-	-	-	-	-	-	-	Dense, no sample
50	116.3-117.4	1.1	190.	50.	115.	13.9	15.29	2.49	2.87	15.9	47.8	Vugular
51	117.4-118.8	1.4	4.6	0.18	<0.01	5.8	8.12	2.67	2.83	26.7	52.0	Pin pt. vugs, fract.
52	118.8-120.4	1.6	5.7	4.9	<0.01	5.2	8.32	2.69	2.83	28.2	41.2	Slightly vugular
53	120.4-121.4	1.0	78.	17.	56.	7.0	7.00	2.64	2.84	27.6	22.6	Slightly vugular, fracture
54	121.4-122.4	1.0	15.	7.1	0.47	6.9	6.90	2.65	2.85	34.0	31.7	Slightly vugular
-	122.4-122.8	0.4	-	-	-	-	-	-	-	-	-	Dense, no sample
55	122.8-124.0	1.2	28.	12.	0.85	8.6	10.32	2.58	2.82	54.5	19.6	Vugular
56	124.0-125.0	1.0	18.	0.27	0.01	5.4	5.40	2.70	2.85	34.3	27.0	Slightly vugular, fracture
57	125.0-126.1	1.1	475.	5.2	1.0	14.5	15.95	2.42	2.83	23.9	32.6	Vugular, fracture
58	126.1-127.2	1.1	65.	2.7	4.0	12.5	13.53	2.50	2.85	38.8	25.0	Vugular
-	127.2-127.6	0.4	-	-	-	-	-	-	-	-	-	Dense, no sample
59	127.6-128.7	1.1	12.	1.3	0.51	3.1	14.41	2.47	2.84	Trace	72.5	Vugular
60	128.7-129.7	1.0	330.	23.	7.5	9.1	19.10	2.27	2.81	15.0	78.2	Vugular
61	129.7-130.5	0.8	128.	80.	0.75	10.0	8.00	2.54	2.83	72.2	13.9	Vugular
62	130.5-131.4	0.9	9.4	6.7	0.37	8.8	7.92	2.58	2.82	52.5	23.2	Vugular
63	131.4-131.9	0.5	1200.	69.	3.	22.8	11.40	2.19	2.84	27.3	48.5	Vugular
-	131.9-140.6	8.7	-	-	-	-	-	-	-	-	-	Dense, no sample

SS - Small sample

Core with Permeability 0.00 to less than 0.10 Md.

Total footage of core with permeability 0.00 to less than 0.10 millidarcys-----	7.1'	
Weighted average porosity of core with permeability 0.00 to less than 0.10 millidarcys-----	3.44%	(24.45)
Per cent of analyzed core having permeability 0.00 to less than 0.10 millidarcys-----	9.5%	
Weighted average horizontal permeability of core with permeability 0.00 to less than 0.10 md-----	0.1	

Core with Permeability 0.10 to 0.99 Millidarcys

Total footage of core with 0.10 to 0.99 millidarcys permeability-----	19.3'	
Weighted average porosity of core with 0.10 to 0.99 millidarcys permeability-----	4.35%	(84.05)
Per cent of analyzed core having 0.10 to 0.99 millidarcys permeability-----	25.8%	
Weighted average horizontal permeability of core with 0.10 to 0.99 millidarcys-----	0.41 md.	(7.96)

Core with Permeability 1.0 to 9.9 Millidarcys

Total footage of core with 1.0 to 9.9 millidarcys permeability-----	14.0'	
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability-----	7.36%	(103.08)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability-----	18.7%	
Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys-----	4.0 md.	(56.03)

Core with Permeability 10 Millidarcys and Greater

Total footage of core with permeability 10 millidarcys and greater-----	34.5'	
Weighted average porosity of core with permeability 10 millidarcys and greater-----	9.40%	(324.30)
Per cent of analyzed core having permeability 10 millidarcys and greater-----	46.0%	
Weighted average horizontal permeability of core with permeability 10 md. and greater-----	525. md.	(18037.20)

Cored interval-----	9.0' - 140.6'	
Total footage-----	131.6'	
Footage analyzed-----	74.9'	
Footage not analyzed-----	57.7'	
Weighted average porosity of core analyzed-----	7.15%	(535.88)
Weighted average horizontal permeability of core analyzed-----	242. md.	(18101.19)

Notes: Figures in parentheses indicate porosity feet and permeability feet.