

CORE ANALYSIS REPORT

FOR

CHEVRON STANDARD LIMITED

CHEVRON SOBC GULF RIDGE YTF-48

WILD CAT RIDGE AREA

YUKON TERRITORY

CORE LABORATORIES - CANADA LTD

Petroleum Reservoir Engineering

CALGARY · EDMONTON · REGINA

CORE LABORATORIES - CANADA, LTD.
CALGARY, ALBERTA

COMPANY CHEVRON STANDARD LIMITED
WELL CHEVRON SOBC GULF RIDGE YT F-48
FIELD WILDCAT, RIDGE AREA, YUKON TERRITORY
LOCATION 67 17' 23.00 NORTH LAT.
 137 53' 35.00 WEST LONG.

FORMATION
DRILLING FLUID WATER BASE MUD
ELEVATION
ANALYSIS FULL DIAMETER
REMARKS ALL SAMPLES DEGLAZED PRIOR TO OBTAINING KH VALUES.

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FILE 911-369
DATE REPORT MAR. 2/73
ANALYSTS OK BL MS

AST - APPEARS SIMILAR TO	MS - MEDIUM SAND	LMY - LIMY	A - ANHYDRITE	LV - LARGE VUGS	HF - HORIZONTAL FRACTURE
* - BROKEN CORE	CS - COARSE SAND	SHY - SHALY	FOSS - FOSSILIFEROUS	SV - SMALL VUGS	VF - VERTICAL FRACTURE
IK90 - USED FOR SUMMARY PURPOSES	CONG - CONGLOMERATE	IBK - BREAK	XLN - CRYSTALLINE	PPV - PIN POINT VUGS	SS - SMALL SAMPLE
** - PERMEABILITY > 30000 MD.	DOL - DOLOMITE	BIT - PYROBITUMEN	LAM - LAMINATIONS	I - INTERGRANULAR	SL/ - SLIGHTLY
FS - FINE SAND	SH - SHALE	CARB - CARBONACEOUS	V - VUGULAR	STY - STYDLITIC	V/ - VERY
					W/ - WITH

SAMPLE NUMBER	INTERVAL REPRESENTED FEET		PERMEABILITY TO AIR MILLIDARCS			PERMEABILITY FEET	POROSITY %	POROSITY FEET	DENSITY		VISUAL EXAMINATION
	DEPTH	THICK	KMAX	K90°	KV				BULK	GRAIN	
CORED INTERVAL 4647' - 4699'											
CORE NO. 1 4647' - 4674' (REC. 24.5') (6 BOXES)											
1	4647.0-48.0	1.0	*	0.17	-0.01	0.17	5.8	5.80	2.48	2.64	FS SILTY GLASSY VF SH/BK
2	4648.0-49.5	1.5	0.05	0.02	-0.01	0.08	3.8	5.70	2.56	2.66	FS SILTY GLASSY VF SH/BK
3	4649.5-51.1	1.6	24.30	0.47	6.85	38.88	4.9	7.84	2.51	2.64	FS SILTY GLASSY VF
4	4651.1-52.8	1.7	10.10	0.45	0.71	17.17	6.2	10.54	2.49	2.65	FS SILTY GLASSY VF
5	4652.8-54.4	1.6	25.10	0.14	-0.01	40.16	6.2	9.92	2.47	2.64	FS SILTY GLASSY VF
6	4654.4-56.2	1.8	7.99	2.05	3.76	14.38	4.1	7.38	2.56	2.67	FS SILTY GLASSY VF HF
7	4656.2-57.1	0.9	3.24	0.02	-0.01	2.92	5.8	5.22	2.48	2.63	FS SILTY GLASSY VF
8	4657.1-58.5	1.4	0.27	0.15	-0.01	0.38	7.0	9.80	2.46	2.64	FS SILTY VF
9	4658.5-59.4	0.9	0.30	0.29	-0.01	0.27	5.4	4.86	2.49	2.64	FS SILTY GLASSY VF SH/BKS
10	4659.4-60.6	1.2	2.02	0.55	-0.01	2.42	5.0	6.00	2.51	2.64	FS SILTY GLASSY VF HF BIT/BKS
11	4660.6-61.8	1.2	8.07	0.15	-0.01	9.68	5.1	6.12	2.51	2.65	FS SILTY GLASSY HF BIT/BKS
12	4661.8-62.4	0.6	40.80	30.60	40.24	24.48	5.4	3.24	2.50	2.64	FS SILTY GLASSY VF SH/BKS
13	4662.4-63.4	1.0	2.64	1.29	2.97	2.64	6.1	6.10	2.49	2.65	FS SILTY GLASSY VF BIT/BKS
14	4663.4-64.2	0.8	*	81.26	4.94	65.01	6.6	5.28	2.47	2.64	FS SILTY GLASSY VF SH/BKS
15	4664.2-65.2	1.0	1.58	0.44	0.36	1.58	5.6	5.60	2.50	2.65	FS SILTY GLASSY VF HF SH/BKS
16	4665.2-66.5	1.3	0.64	0.36	-0.01	0.83	5.1	6.63	2.52	2.65	FS SILTY GLASSY BIT/BKS
17	4666.5-67.6	1.1	5.46	2.80	-0.01	6.01	4.1	4.51	2.52	2.64	FS SILTY GLASSY HF VF BIT/BKS

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 WELL CHEVRON SOBC GULF RIDGE YT F-48

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SAMPLE NUMBER	INTERVAL REPRESENTED, FEET		PERMEABILITY TO AIR, MILLIDARCYS			PERMEABILITY FEET	POROSITY PER CENT	POROSITY FEET	DENSITY, gm./cc.		VISUAL EXAMINATION
	DEPTH	THICK	KMAX	K90°	KV				BULK	GRAIN	

CORE NO. 1 (Cont'd)

18	4667.6-68.7	1.1	2.26	1.56	-0.01	2.49	4.9	5.39	2.52	2.65	FS SILTY GLASSY HF SH & BIT/BKS
19	4668.7-70.0	1.3	4.57	0.04	-0.01	5.94	4.4	5.72	2.52	2.64	FS SILTY GLASSY HF BIT/BKS
20	4670.0-72.5	2.5	0.98	0.29	-0.01	2.45	5.2	13.00	2.51	2.65	FS SILTY GLASSY VF
-	4672.5-74.0	1.5	-	-	-	-	-	-	-	-	LOST CORE
-	4674.0-79.0	5.0	-	-	-	-	-	-	-	-	DRILLED

CORE NO. 2 4679' - 4699' (REC. 19.3') (5 BOXES)

21	4679.0-80.0	1.0	0.02	0.02	-0.01	0.02	6.9	6.90	2.46	2.64	FS GLASSY VF
22	4680.0-82.2	2.2	0.05	0.01	-0.01	0.11	6.6	14.52	2.47	2.65	FS SILTY GLASSY
23	4682.2-84.3	2.1	0.78	0.51	-0.01	1.64	5.9	12.39	2.49	2.64	FS SILTY GLASSY VF
24	4684.3-85.7	1.4	3.10	0.05	-0.01	4.34	6.2	8.68	2.47	2.64	FS SILTY GLASSY VF HF
25	4685.7-86.7	1.0	0.04	0.04	-0.01	0.04	6.5	6.50	2.47	2.64	FS SILTY GLASSY
26	4686.7-88.0	1.3	0.04	0.01	-0.01	0.05	3.2	4.16	2.55	2.64	FS SILTY GLASSY
27	4688.0-89.3	1.3	0.02	0.01	-0.01	0.03	5.3	6.89	2.51	2.65	FS SILTY GLASSY HF
28	4689.3-91.3	2.0	2.55	0.19	-0.01	5.10	5.7	11.40	2.50	2.65	FS SILTY GLASSY VF HF
29	4691.3-92.8	1.5	0.14	0.01	-0.01	0.21	4.4	6.60	2.52	2.64	FS SILTY GLASSY
30	4692.8-95.1	2.3	0.02	0.01	-0.01	0.05	5.5	12.65	2.49	2.64	FS SILTY GLASSY
31	4695.1-98.3	3.2	0.44	0.07	-0.01	1.41	4.7	15.04	2.50	2.63	FS SILTY GLASSY VF
-	4698.3-99.0	0.7	-	-	-	-	-	-	-	-	LOST CORE.

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WELL: CHEVRON SOBC GULF RIDGE YT F-48

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FORMATION:

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SUMMARY INTERVAL: 4647.0 - 4699.0

TOTAL FOOTAGE: 52.0

FOOTAGE ANALYZED 44.8

FOOTAGE NOT ANALYZED: TOTAL: 7.2 DENSE .0 LOST 2.2 DRILLED 5.0 *NABR .0 RUBBLE .0

SUMMARY
OF
ANALYZED CORE:

	FOOTAGE	% OF ANALYZED CORE	WEIGHTED AVERAGE POROS. %	POROSITY FEET	WEIGHTED AVERAGE PERM. MD	PERM. FEET	WEIGHTED AVERAGE RESID. OIL %	WEIGHTED AVERAGE TOT. WATER %
TOTAL	44.8	100.00	5.37	240.38	5.60	250.92	.00	.00
BY PERM RANGES:								
LESS THAN 0.10 Md.	10.6	23.66	5.41	57.32	.03	.37	.00	.00
0.10 0.49 Md.	8.0	17.86	5.26	42.10	.30	2.44	.00	.00
0.50 0.99 Md.	5.9	13.17	5.43	32.02	.83	4.92	.00	.00
1.00 9.99 Md.	14.0	31.25	5.15	72.12	4.11	57.50	.00	.00
GREATER THAN 9.99 Md.	6.3	14.06	5.84	36.82	29.48	185.70	.00	.00

*NOT ANALYZED BY REQUEST



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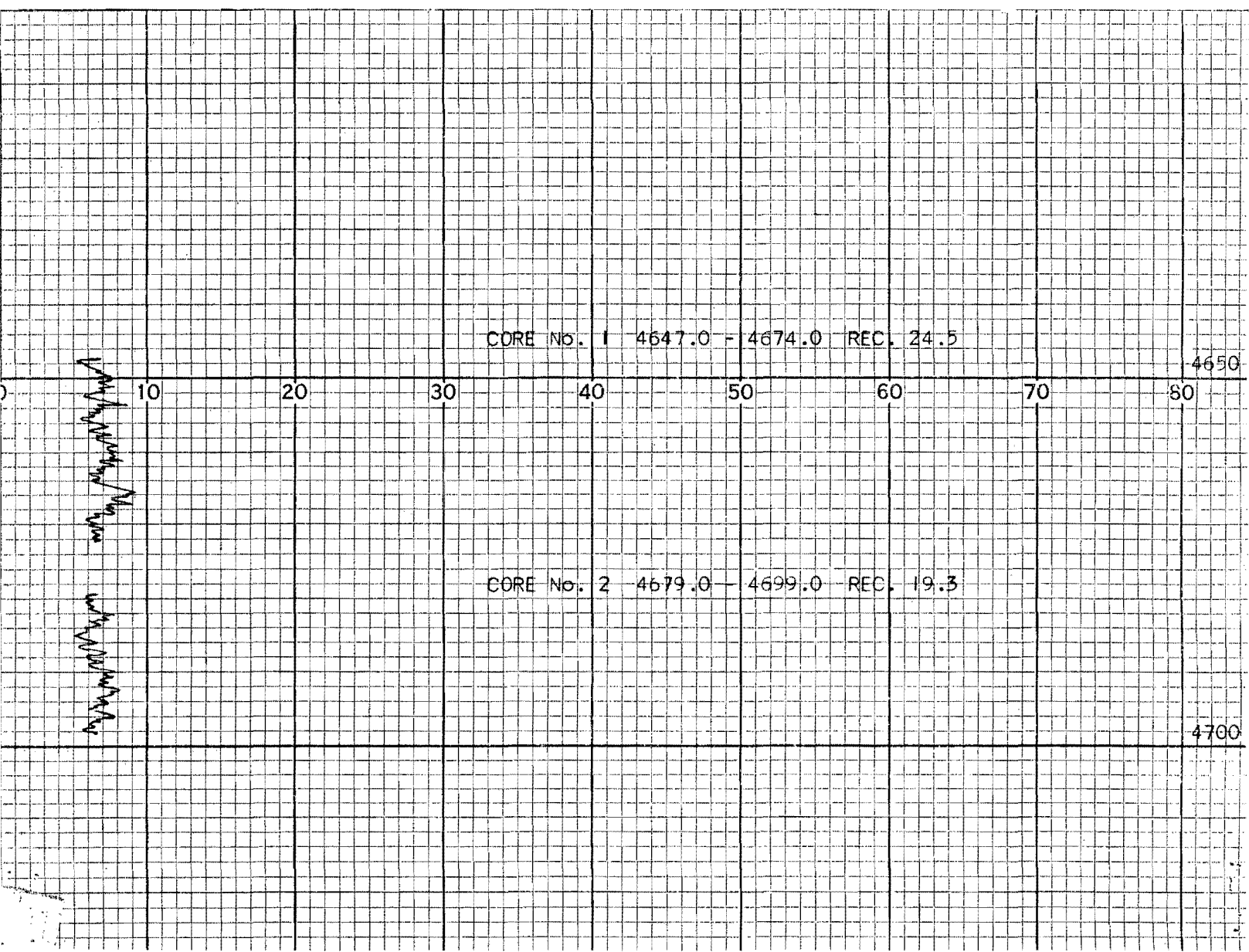
Petroleum Reservoir Engineering

COMPANY CHEVRON STANDARD LIMITED FIELD WILDCAT, RIDGE AREA FILE 911-369
 WELL CHEVRON SOBC GULF RIDGE YT F-48 DATE FEB 24/73.
 LOCATION 67 17' 23.00, 137 53' 35.00 PROV YUKON TERRITORY ELEV. _____

CORE-GAMMA CORRELATION

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TC. 11 SECS. VERTICAL SCALE: 5" = 100' SENS. 5000 CPM.



GAS
 CONDENSATE
 CONCURRENT PRODUCTION

GROUP SAMPLE
 TEST SAMPLE
 RECOMBINED

- SAMPLE ANALYSIS -

OPERATOR NAME AND ADDRESS
 Chevron Standard Limited

SAMPLE CONTAINER ID.
 CONTAINER OWNER
 Core Laboratories
 CONTAINER MATERIAL
 Stainless Steel
 CONTAINER NUMBER
 5C-27

67 17' 23.00 N.L.
 137 53' 35.00 W.L.

WELL OR SAMPLE LOCATION NAME
 Chevron SOBC Gulf Ridge YT F-48

ELEVATIONS
 KD GPD
 1041
 DATE SAMPLED
 DAY MO YR

FIELD OR AREA CODE POOL OR ZONE CODE NAME OF SAMPLER
 Yukon Territory Johnston Testers

DST. NO. FT. OF H₂O CUSH. MUD TYPE MUD RESISTIVITY DST RECOVERY
 2

SAMPLE INTERVAL SAMPLE DEPTH ABOVE TOOL OR PRODUCTION SAMPLE POINT PRODUCTION TYPE PUMP FLOW GL SWAB WATER BBL/D PRODUCTION RATE OIL BBL/D GAS MCF/D
 3950 - 4230 Flareline

PRESSURES - PSIG CONTAINER TEMPERATURE (°F)
 SEPARATOR TREATER LINE RESERVOIR WHEN SAMPLED WHEN RECEIVED SEPARATOR TREATER LINE
 10 @ 77°F

LABORATORY NAME LABORATORY NO. NAME OF ANALYZER DATES RECEIVED ANALYZED
 Core Laboratories-Canada Ltd. 921-3209 B. Khan
 DAY MO YR DAY MO YR
 3 3 73 6 3 73

COMP	- GAS -			- CONDENSATE -		
	MOL% AIR FREE AS RECD	MOL% AIR FREE ACID GAS FREE	CON GPM AIR FREE AS RECD	MOL %	WEIGHT %	LIQUID VOL%
H ₂	0.00					
He	0.00					
N ₂	1.38					
CO ₂	0.00					
H ₂ S	0.00					
C ₁	98.26					
C ₂	0.36					
C ₃	Trace					
C ₄	0.00					
C ₄	0.00					
C ₅	0.00					
C ₅	0.00					
C ₆	0.00					
C ₇₊	0.00					
TOTAL	100.00					

- GAS -
 GROSS HEATING VALUE BTU FT³ @ 60°F and 14.65 PSIA
 (MOISTURE AND ACID GAS FREE)
 MEASURED CALCULATED
 995.8
 SPECIFIC GRAVITY
 MOISTURE FREE AS SAMPLED MOISTURE AND ACID GAS FREE
 MEASURED CALCULATED MEASURED CALCULATED
 0.561
 PSEUDO CRITICAL PROPERTIES (CALCULATED)
 AS SAMPLED ACID GAS FREE
 PPC PTC PPC PTC
 670.7 psia 343.3°R
 DEW POINT
 CALCULATED MEASURED
 + - + -

MISCELLANEOUS SULPHUR COMPOUNDS - %

MERCAPTANS CARBONYL SULPHIDE THIOPHENE
 DISULPHIDE RESIDUAL SULPHUR TOTAL SULPHUR

- CONDENSATE -
 PROPERTIES OF C₇+ () RESIDUE AT 60°F
 SPECIFIC GRAVITY API GRAVITY MOLECULAR WEIGHT (GMS/MOL)
 OBSERVED CALCULATED CALCULATED OBSERVED CALC
 PROPERTIES OF TOTAL SAMPLE AT 60°F
 SPECIFIC GRAVITY API GRAVITY MOLECULAR WEIGHT
 DETERMINED CALCULATED CALCULATED DETERMINED CALC

Received: Feb. 26, 1973 Reported: Feb. 27, 1973

Well: Location: Chevron SOBC Gulf Ridge YT-F-48 67-20-137-45

Operator: CHEVRON STANDARD LIMITED

Field or Area:

Elev.: K.B. Grd. 1039' Zone/Formation: Johnson Creek

Sample Interval: 4609' - 4699'

Method of Production: D.S.T. #1

Sampled from: Center of Fluid

Sampled by: Johnston Testers Date: Feb. 23, 1973

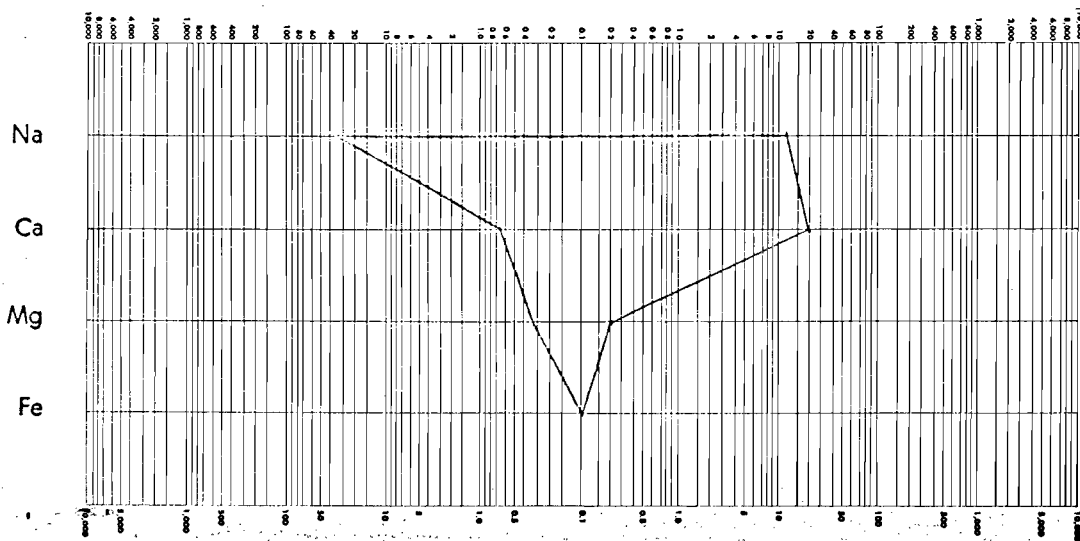
OTHER PERTINENT DATA

Recovered: 540' muddy water, 3709' water.

(Signed)

	Na & K	Ca	Mg					SO ₄	Cl			CO ₃	HCO ₃		
Mg./L	779	13	4					10	490			---	1270		
Meq./L	33.88	0.65	0.33					0.21	13.82			---	20.83		
Meq. %	48.59	0.93	0.47					0.30	19.82			---	29.88		

Total Solids Mg/L: By Evaporation 1936 Fe Present Specific Gravity 1.004 @60°F Observed pH 7.8 @ 74 °F
 Calculated 2566 After Ignition 1804 H₂S Nil Refractive Index 1.3334 @25°C Resistivity 3.10 ohm meters @ 68 °F
 Pattern Unit Meq./L Organic matter - Trace



Remarks and Conclusions

Analysis determined on a clear colorless filtrate recovered from clear colorless water containing approximately 10% sediment.

C73-6209-2: Top of Tool. Resistivity determined on a clear colorless filtrate recovered from clear colorless water containing a thin layer of sediment.
 RESISTIVITY: 3.12 OHM meters at 68°F.