



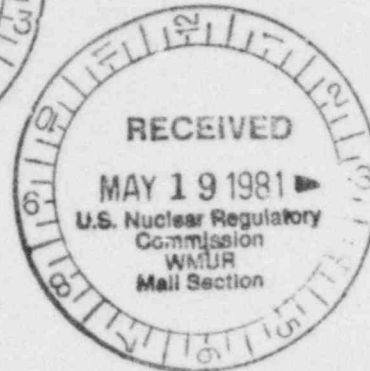
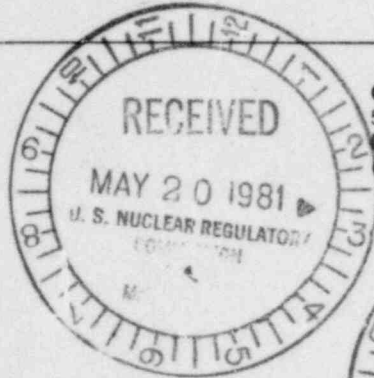
Docket NO:  
40-8743

T. W. Quigley  
Environmental Project Leader  
Sand Rock Mill  
Minerals Department

Conoco Inc.  
555 Seventeenth Street  
Denver, CO 80202  
(303) 575-6069

PDR

rt. to: Andre  
Tibbs  
396-SS



May 13, 1981

Ms. Catherine Kraeger-Rovey  
Ott Water Engineers, Inc.  
2701 Alcott Street, #262  
Denver, Colorado 80217

Re: Drill Hole Logs for Sand Rock Project - NRC Docket No. 40-8743

Dear Ms. Kraeger-Rovey:

As per Tom Fleming's telephone request of May 3, 1981, I am forwarding to you 14 drill hole logs (electric and lithologic) from the Sand Rock area. Please refer to John Bahr's listing on the attached memo of May 11, 1981.

Under separate cover, a duplicate set of this material is being forwarded to Tom Fleming at the NRC.

If you have any questions regarding this data, please contact me.

Sincerely,

*T. W. Quigley*  
T. W. Quigley

kr

Enclosures

cc: J. E. Cearley w/o enc.  
D. W. Bollig w/o enc.  
T. Fleming - NRC w/enc.



FEE EXEMPT

8107230220 810513  
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Add'l info

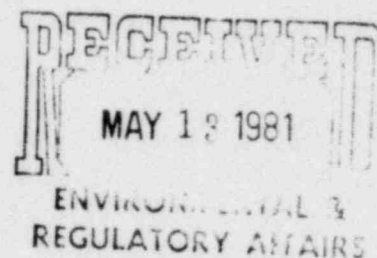
Original not rec'd BF

## Interoffice Communication

To T. W. Quigley  
From John Bahr  
Date May 11, 1981  
Subject Drill Data for NRC Evaluation of the Sand Rock Mill Project

Enclosed are three (3) copies each of 1"=50' electric logs and lithology logs for 14 holes in the Moore Ranch - Sand Rock Mill permit area. The holes requested and enclosed are:

KM 2-2-41-75  
KM 2-3-41-75  
8-26-42-75  
KM 7-33-42-75  
9-33-42-75  
70-34-42-75  
78-34-42-75  
103-34-42-75  
82-35-42-75  
199-35-42-75  
384-35-42-75  
890-35-42-75  
925-35-42-75  
1284-35-42-75



If you have any questions, please contact me.

*John Bahr*

John Bahr  
Project Geologist

pr

10079















DEPTH	SAMPLE TYPE	ALTERATION	MINERALOGY	COLOR (WRITTEN DESCRIP'N & GSA CHART)	GRAIN SIZE	ANIMAL ACIDUS	POX & SEM	SODIUM	AMPHIBOL	HEMATITE	LIMONITE	AMT	ALT. FELDSPAR	PYRITE			CARBON MATERIAL			MICA		CALCAREOUS	TUFFACEOUS	PAGE 1 of 1	T D 280	REV 8/73	REMARKS
														HABIT	ALT	NUMIC	INTBD	FRAGS	LUSTER	AMT	ALT						
0				clay Dusky Yel. sylv	3P																						
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clay Dusky Yel. sylv 3P

med. dk. gray 1/4

Sand Yel. Gray sylv 3P GM T 2 1/2

Coal @ 115'

Sand @ 142'

37.03-176

calcareous 170-5

clay jets

clay break @ 230-33

calcareous 256-60

Drilled TD 280  
 Log TD 280  
 Fluid level 60'



INENTAL OIL CO - URANIUM

County \_\_\_\_\_ Proj. \_\_\_\_\_ State \_\_\_\_\_ Hole No. 389 Elev. \_\_\_\_\_  
 Acc't No. \_\_\_\_\_ Sec. 35 Twp 42N Rge 75W  
 Loc \_\_\_\_\_ Geol. BOBERG

DEPTH	SAMPLE TAKEN	COLOR (WRITTEN DESCR'N & SSA CHART)	GRAIN SIZE	AMPHIBOLIC	PORE & VESIC.	SORTING	ANGULARITY	HEAVIEST	LIMONITE	AMT.	ALY.	FELDSPAR	PYRITE		CARBON MATERIAL			MICA		CALCAREOUS	TUFTACEOUS	REMARKS		
													INTD.	FRAG.	LUST.	AMT.	TYPE	ALY.						
60		sd 914 N7																						
65		914 N7 56461																						
70																								
75																								
80																								
85		Lignite 31K N1																						
90		clay 914 N7 56461																						
95																								
100		Drilled = 700'																						
105		Lagged = 700'																						
110		Fluid Level: 99'																						

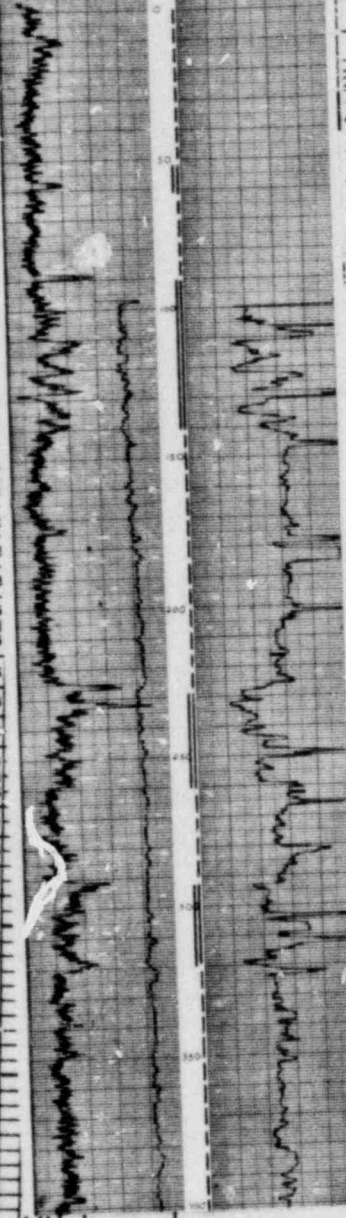
KER MAC  
SE SE  
3950' FNL  
300' FEL

TRNCRST  
# 384  
35-42N 75W  
EL 5350'

BANIUM Hole No 384 Elev 5350' 0  
VERCEEST Acc't No. UM 1576 Sec 35 Twp 42N Rge 75W  
State WYO Loc SESE 8950 FNL BOBERG Coal BOBERG

COR DESCRIP (HART)	GRAIN SIZE	ANGULARITY	FOR. & PERM	SPORING	ANGULARITY	HEMATITE	LIMONITE	AMT. FELDSPH	AMT.	HABIT	ALY.	HUMIC	INTRO.	FRAGS	LUSTY	AMT.	TYPE	ALY.	CALCAREOUS	TUFACEOUS	PAGE 1 OF 2	
																					T.D. 700'	REV. 2/73

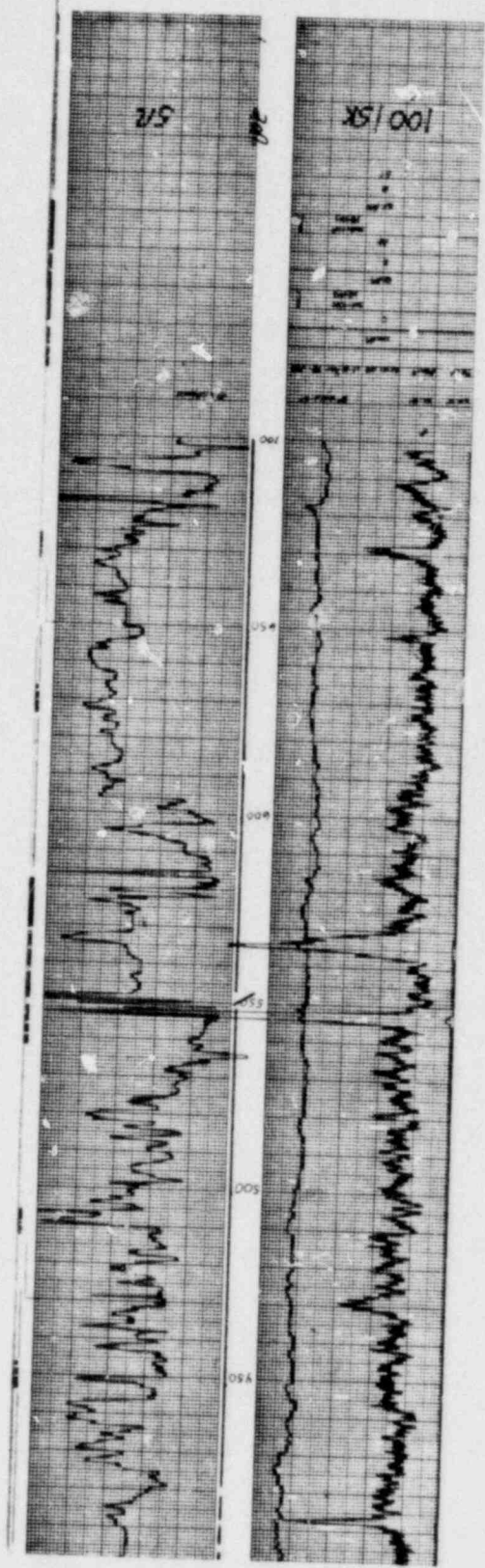
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sd. rest of samples  
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10079











MENTAL OIL - URANIUM

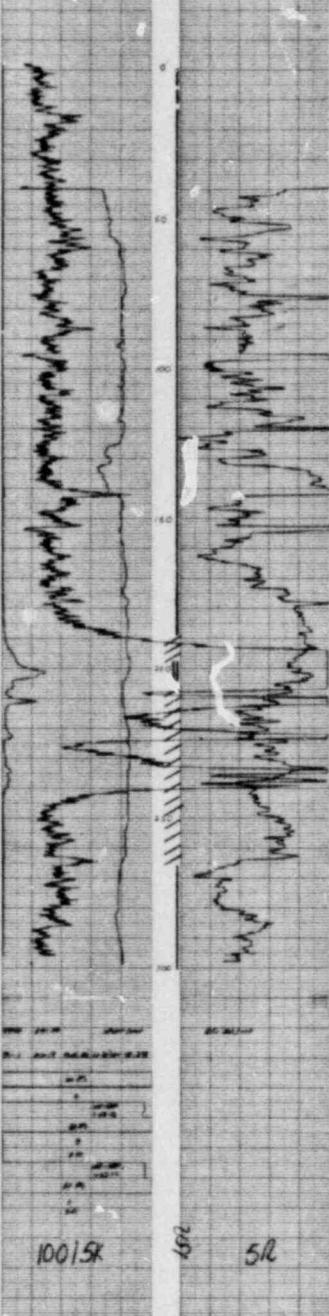
KERMAC-TURNER CREST Acct no. UL 1585 Hole no. 199 Elev. 5352  
 Junty CAMPBELL State WYO Sec. 35 T 42N R 75W  
 Loc. NW 36 3690'UL 990'EL Geol. BOBERG

DEPTH	SAMPLE TAKEN	ALTERATION	LITHOLOGY	COLOR	GRAIN SIZE	SORTING	ANGULARITY	POP & HDW	HEMATITE	LIMONITE	CALCAREOUS	AMPHIBOLIC	FELDSPARS	MAGNETIZATION	PYRITE	COAL TYPE	CARBON MATERIAL	MICA	HEAVY MIN.	TUFTACEOUS	PAGE 1 OF 1	REMARKS
10																						
20																						
30			clay	yel 5Y 5/6					P	T	3											
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50																						
60																						
70																						
80			clay	gray 5Y 6/1					P		3											
90																						
100																						
110			sd	gray 5Y 6/1					P		3											
120			silt																			
130			limonite	gray 5Y 6/1					P		3											
140			coal	gray 5Y 6/1					P		3											
150									P	P	M											
160																						
170																						
180			sd	yel 5Y 5/6					P	T	3											
190																						
200																						
210																						
220																						
230			clay	gray 5Y 6/1					P		3											
240																						
250																						
260			sd	red 5R 5/9					P	T	3											clay matrix w/ mica sd/clay ball devel.
270																						
280																						
290																						
300																						
310			clay	gray 5Y 6/1					P		3											
320																						
330			sd	red 5R 5/9					P	T	3											signif. clay matrix & med. strong sd/clay ball devel.
340			DRILLED = 340'																			
350			LOGGED = 340'																			
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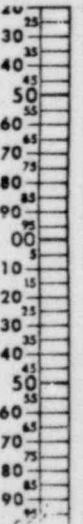


KERNAC TRNCRST  
 SW NE # 82  
 1860' FNL 35-42N-75W  
 2090' FEL EL. 5360'

URANIUM Hole no. 82 Elev. 5360'  
 Acc't no. 4M1576 Sec. 35 T 42 R 75  
 State Wyo Loc. SWNE 1860N 2090E Geol. Reno



GRAIN SIZE	SORTING	ANGULARITY	POR & FRM	HEMATE	LIMONITE	CALCAREOUS	AMPHIBOLIC	FELDSPARS	MAGNETIZATION	PYRITE	CARBON MATERIAL			MICA		PAGE 1 OF 1 TO 300'	REMARKS	
											DISSEM	TRAGS	LUTER	AMT	TYP			AMT
MAG			2															
FMRP				3														
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FGAM																		
EPAG																		
																		41-.06-195
																		10.05-210
KLG																		
LUGRP																		
SIMP																		











CONTINENTAL OIL CO - URANIUM

Prop. CONOCO Proj. TURKEY Acc't No U1814 Sec 34 Twp 42 Rge 75  
 County Campbell State Wyoming Loc SH5E 3710N 2390E Geol G. Copenhagen

Well No 103 Elev 5320

DEPTH	SAMPLE TAKEN	ALTERATION	LITHOLOGY	COLOR (WRITTEN DESCAPIN & GSA CHART)	GRAIN SIZE	MILLICENTIMETERS	SORTING	ANGULARITY	HEMATITE	LIMONITE	AMT.	AMT.	AMT.	PYRITE	CARBON MATERIAL	MICA	CALCAREOUS	TUFACEOUS	REMARKS	
																				GRAIN SIZE
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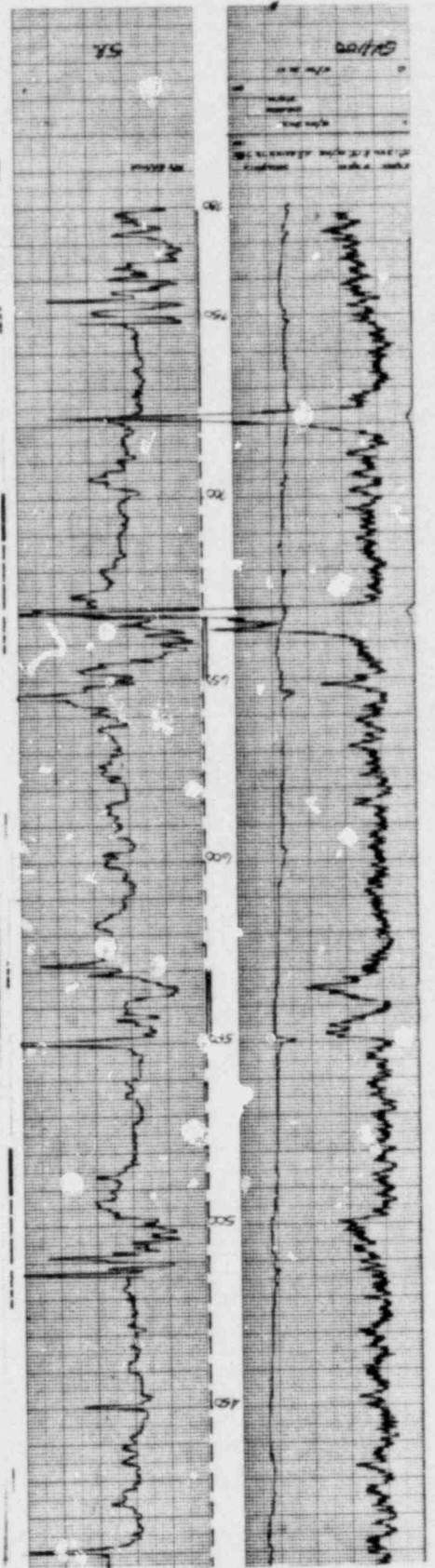
KERMAC  
 CONTINENTAL OIL - URANIUM  
 Proj. Turnercrest Acc. no. UM 1575  
 County Campbell State Wyoming

Hole no. 70 Elev. 5425  
 Sec. 34 T 42 R 75  
 Loc. NWNE 20th 2160ft Geol. G.C.

DEPTH	SAMPLE TYPE	LITHOLOGY	COLOR	GRAIN SIZE	SORTING	ANGULARITY	POOR & PERMS	NEBULITE	LIMONITE	CALCAREOUS	ARGILLACEOUS	FELDSPARS	MOLYBDENUM	PYRITE	COAL TYPE	CARBON MATERIAL	MICA	TUFFACEOUS	REMARKS
0-10		clay	1072-64 1/4" m. - yell. brn.						2/3										
10-20		clay	N5-565-11 m. grn. gray						P										
20-30		silt	"						KMA-M- F B T G										1 sp. cal. T A-J 1/4" dia
30-40		clay	"						P										
40-50		silt	"						F P H S										
50-60		clay	"						P										
60-70		silt	"						F P H S										
70-80		clay	"						P										
80-90		silt	"						F P H S										
90-100		clay	"						P										
100-110		silt	"						F P H S										
110-120		clay	"						P										
120-130		silt	"						F P H S										
130-140		clay	"						P										
140-150		silt	"						F P H S										
150-160		clay	"						P										
160-170		silt	"						F P H S										
170-180		clay	"						P										
180-190		silt	"						F P H S										
190-200		clay	"						P										
200-210		silt	"						F P H S										
210-220		clay	"						P										
220-230		silt	"						F P H S										
230-240		clay	"						P										
240-250		silt	"						F P H S										
250-260		clay	"						P										
260-270		silt	"						F P H S										
270-280		clay	"						P										
280-290		silt	"						F P H S										
290-300		clay	"						P										
300-310		silt	"						F P H S										
310-320		clay	"						P										
320-330		silt	"						F P H S										
330-340		clay	"						P										
340-350		silt	"						F P H S										







CONTINENTAL OIL CO - URANIUM Hole No. 2 Elev 5385  
 Prop. Kordoc Proj. Turnersport Acc't No. DM1575 Sec 33 Twp 42 Rge 75  
 County Campbell State Wyoming Loc DEE 394DFNL 73DFSL Geol Plichta

DEPTH	GRAIN SIZE	ALTERATION	LITHOLOGY	COLOR (WRITTEN DESCR'N & SSA CHART)	GRAIN SIZE	AMPHIBOLIC	POX & FEIN	SODIUM	ANNUALITY	HEMATTITE	LIMONITE	ALU	FELDSPAR	PYRITE	CARBON MATERIAL	MICA	CALCAREOUS	TUFTALOUS	REMARKS	
																				MINI
600																				
650			clay	med gray NS																
700			sand	Psched R. med gray NS																250cfs
750			sand	med gray NS																200cfs
800			clay	med gray NS																
800																				780' LOGGED 780' 50'

10079





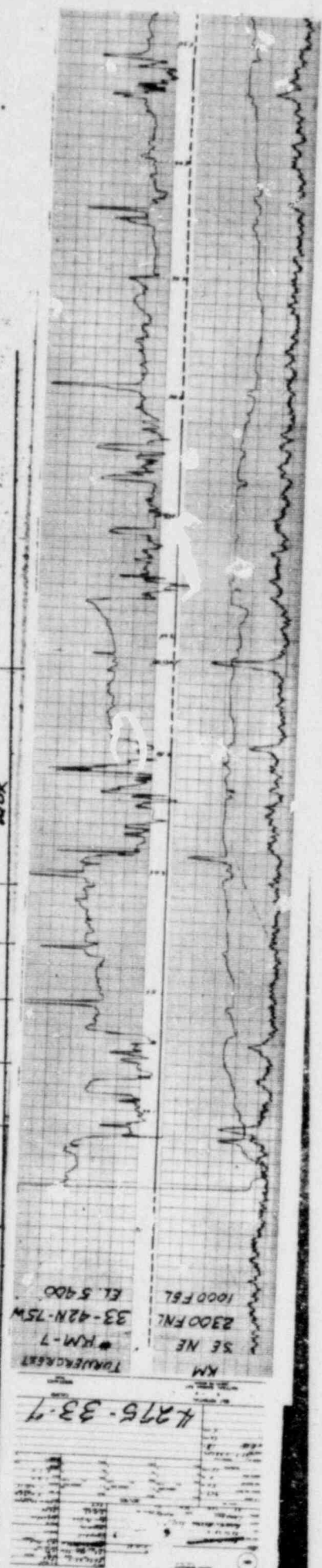
10079

# LITHOLOGY LOG

Area Raw Area AT Dix. 21  
 Claim 333 Sec 33 Twp 42 Rge 76  
 Logged by URW

Drill hole no. 4276-33-7  
 Total depth 955'

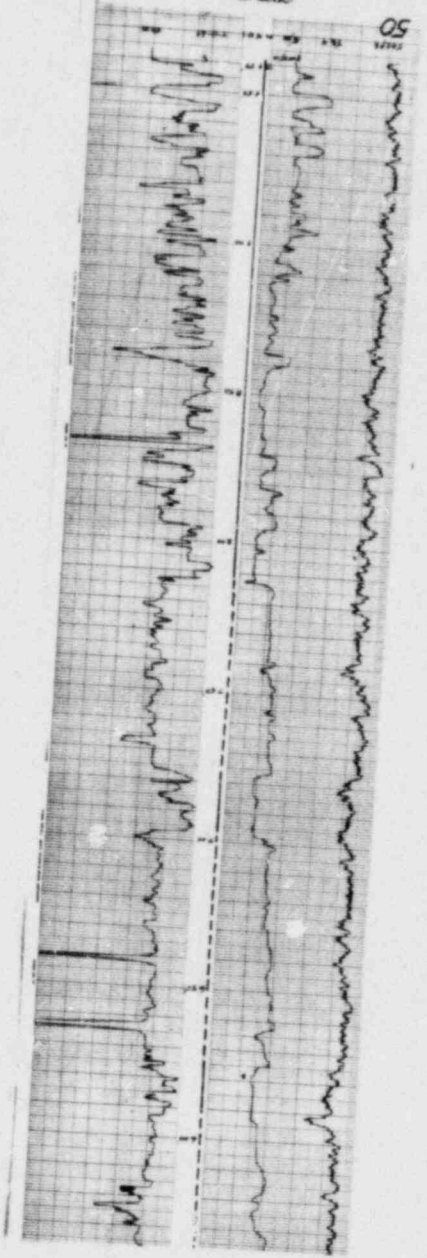
DEPTH		DESCRIPTION							
From	To	Rock Type	Color	Grain Size	Sand / Sh	Carbon	Pyrite	Ox. here and color	Remarks
0	20	SS	tan	f. m.	90% sand			OX	
20	40	SATS + SD	tan					OX	
40	65	SATB	gray					max	
65	85	SS	tan	f				OX	
85	105	SS	gray	f. m.	90% sand			max	well sorted, clean; coarse to fine
105	115	SM	gray					max	lenses @ 75' - 105'
115	120	SS	gray	f. m.	80% sand			"	
120	140	SA	gray					"	
140	215	SS	gray	f. m.	90% sand		✓	"	
215	225	SM	gray					"	
225	260	congl. SM	gray					"	
260	295	SS	tan	f. m.	90% sand			OX	
295	315	SP	gray	f. m.	80% sand	✓		max	
315	345	congl. SM	gray					max	



4275-33-7

Time	Temp	Pressure	Humidity	Wind	Clouds
0800	22.0	1013.0	75%	10	0
0900	22.5	1013.0	75%	10	0
1000	23.0	1013.0	75%	10	0
1100	23.5	1013.0	75%	10	0
1200	24.0	1013.0	75%	10	0
1300	24.5	1013.0	75%	10	0
1400	25.0	1013.0	75%	10	0
1500	25.5	1013.0	75%	10	0
1600	26.0	1013.0	75%	10	0
1700	26.5	1013.0	75%	10	0
1800	27.0	1013.0	75%	10	0
1900	27.5	1013.0	75%	10	0
2000	28.0	1013.0	75%	10	0
2100	28.5	1013.0	75%	10	0
2200	29.0	1013.0	75%	10	0
2300	29.5	1013.0	75%	10	0
0000	30.0	1013.0	75%	10	0

Time	Temp	Pressure	Humidity	Wind	Clouds
0100	30.5	1013.0	75%	10	0
0200	31.0	1013.0	75%	10	0
0300	31.5	1013.0	75%	10	0
0400	32.0	1013.0	75%	10	0
0500	32.5	1013.0	75%	10	0
0600	33.0	1013.0	75%	10	0
0700	33.5	1013.0	75%	10	0
0800	34.0	1013.0	75%	10	0
0900	34.5	1013.0	75%	10	0
1000	35.0	1013.0	75%	10	0
1100	35.5	1013.0	75%	10	0
1200	36.0	1013.0	75%	10	0
1300	36.5	1013.0	75%	10	0
1400	37.0	1013.0	75%	10	0
1500	37.5	1013.0	75%	10	0
1600	38.0	1013.0	75%	10	0
1700	38.5	1013.0	75%	10	0
1800	39.0	1013.0	75%	10	0
1900	39.5	1013.0	75%	10	0
2000	40.0	1013.0	75%	10	0
2100	40.5	1013.0	75%	10	0
2200	41.0	1013.0	75%	10	0
2300	41.5	1013.0	75%	10	0
0000	42.0	1013.0	75%	10	0



66079

LITHOLOGY LOG

Area Road Area

Drill hole no. 427633-7

Total depth 650

AT Dix. 21

Clain. Chart Sec. 33 Twp. 42 Rge. 76

Logged by URW

DEPTH		DESCRIPTION									
From	To	Rock Type	Color	Grain Size	Sand / Sh	Carbon	Pyrite	Ox. state and color	Remarks		
0	20	SS	tan	f-f	20/100			OX			
20	40	SATS. SD	tan					OX			
40	65	SATS	gray					max			
65	65	SS	tan	f				OX			
65	105	S	gray	f-f	20/100			max	well porous; clean; calc. in sh		
105	115	SH	gray					max	lens @ 95' - 105'		
115	120	S	gray					max			
120	140	SA	gray	f-f	20/100			"			
140	215	SS	gray	f-f	20/100			"			
215	225	SH	gray					"			
225	260	carbon. sh	gray					"			
260	295	SS	gray					"			
295	315	S	tan, yellow, red	f-f	20/100			OX			
315	345	carbon. sh	gray					max			
345	395	S	gray					max			
395	540	SS	gray					max			
540	545	SH	gray					OX			
545	595	SS	gray					max			
595	610	SS	gray					OX			
610	660	SS	gray					max			
660	690	S	gray					max			
690	730	S	gray					max			
730	750	S	gray					max			

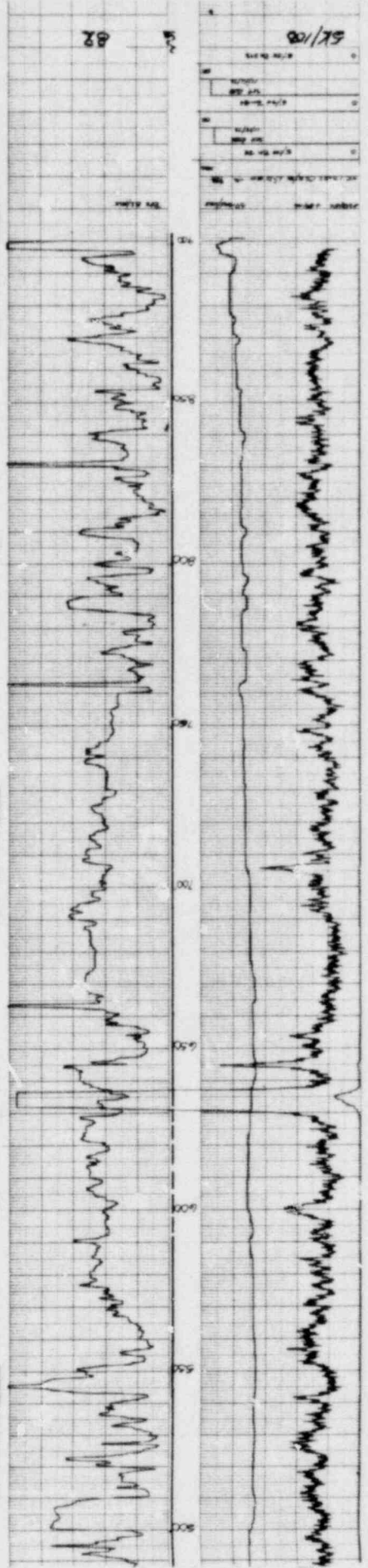






02/75

DATE	02/75
TIME	
NO.	
BY	
REMARKS	



82





# MENTAL OIL - URANIUM

Hole no. 8 Elev.           

Acc't no.           

Sec. 26 T 42N R 75W

County           

State           

Loc.            Geol. BORG

DEPTH	SAMPLE TAKEN	COLOR	GRAIN SIZE	SORTING	ANGULARITY	OR. FORM	HEMIPHYTE	LIPONITE	CALCAREOUS	SHELLACEOUS	FELDSPARS	MAGNIFICATION	PYRITE	COAL TYPE	CARBON MATERIAL	SICA	TYPE	REMARKS
60																		
10		sd	10/546/4	VE														
15			red SR 6/2	VE														
20																		
30																		
35																		
40			q/NB	VE														
45			4.44/554/1	VE														
50																		
55																		
60			clay															
65			4.44/554/1															
70																		
75																		
80																		
85			964 N6															
90			4.44/564/1															
95																		
100			sd	VE														
105																		
110																		
115																		
120																		
125																		
130																		
135																		
140																		
145																		
150																		
155																		
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505																		
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520																		
525																		
530																		
535																		
540																		
545																		
550																		
555																		
560																		

18081

LITHOLOGY LOG

Area Ross AT Dix. 95

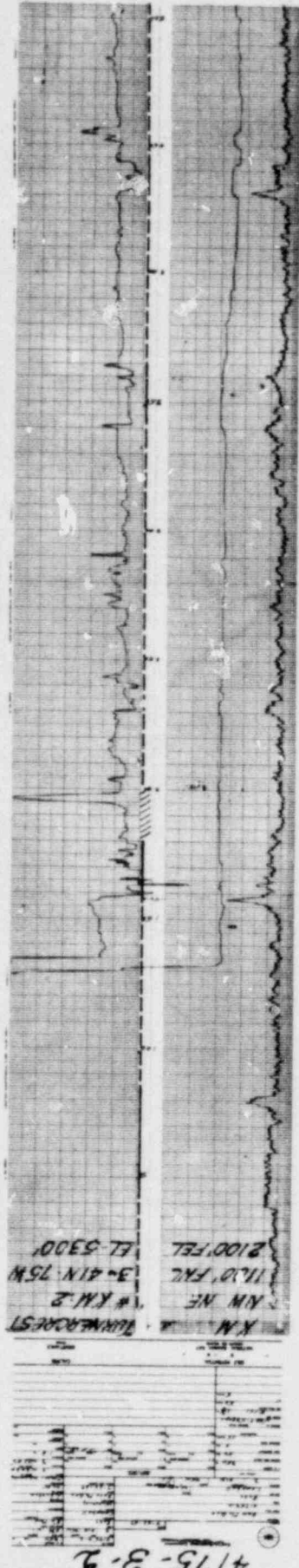
Claim Cree Sec. 3 Tsp. 42 Rge. 75

Drill hole no. 4275-3-2

Total depth 950'

Logged by VPW

DEPTH		DESCRIPTION									
From	To	Rock Type	Color	Grain Size	Sand / Sh	Carbon	Pyrite	Ox. state and color	Remarks		
0	40	SS	BN	M-C 90/100				OX			
40	85	SATS-SH	GRY	M-C 90/100				WTR			
85	120	SS	BN	M-C 90/100				OX			
120	150	SATS	BN	M-C 90/100				OX			
150	160	SS	BN	M-C 90/100				OX			
160	185	SH	GRY DRK					MAX			
185	200	SS	WTR BN	M-C 80/200				Fe. 1/2 OX			
200	340	SS	YLL. BN	CX 100				OX			
340	365	SATS	GRY					MAX			
365	435	SS	YEL. BN					OX			
435	495	SH	GRY DRK					MAX			
495	490	SS	LT. GRN	M-C 90				OX			
490	510	SS	OR. BN	M-C 90/100				OX			
510	510	CS	LT. WTR	M-C 90/100				OX			





4175-3-2

1000  
500  
0  
-500  
-1000

100  
50  
0  
-50  
-100

10  
5  
0  
-5  
-10

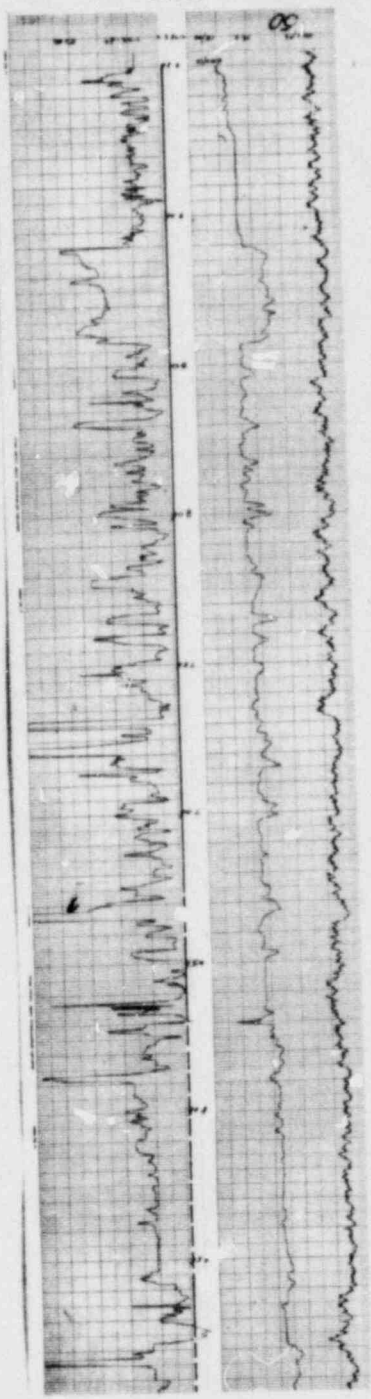
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0.5  
0  
-0.5  
-1

1000  
500  
0  
-500  
-1000

100  
50  
0  
-50  
-100

10  
5  
0  
-5  
-10

1  
0.5  
0  
-0.5  
-1



18879

LITHOLOGY LOG

Area Ross

Drill hole no. 42753.2

Claim Cree Sec 3 Tsp 42 Rge 7S

Logged by VPW

Total depth 950'

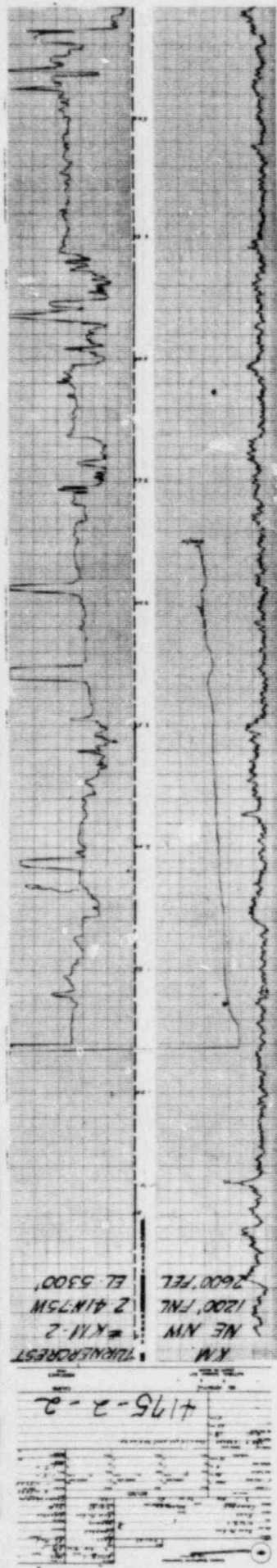
DEPTH		DESCRIPTION										Remarks
From	To	Rock Type	Color	Grain Size	Sand / Sh	Carbon	Pyrite	Ox. state and color				
0	40	SS	BN	M-C 90/100				CK				
40	85	SATS-SH	GRY					W.B.N				
85	120	SS	BN	M-C 90/100				CK				
120	150	SATS	BN					CK				
150	160	SS	BN	M-C 90/100				OX				
160	185	SH	GRY Bk.					W.B.N				
185	200	SS	W.B.N	M-C 80/20				Precipitated				
200	340	SS	YR.BN	C-X 100				OX				
340	365	SATS	GRY					W.B.N				
365	435	SS	YEL.BN					OX				
435	495	SH	GRY Bk.					W.B.N				
495	490	SS	LT YR.BN	M-C 90				OX				
490	500	SH	OX.BN	M-C 50/50				OX				
500	510	SS	LT YR.BN	M-C 90/100				OX				
510	545	SH	GRY					W.B.N				
545	600	SS	GRY BU	C-X 100				OX				
600	625	SS	LT.RD.BN	" "				OX				
625	655	SH	GRY					W.B.N				
655	670	SS	BN	M-C 90				OX				
670	860	SH-SATS	GRY Bk.					W.B.N				
860	885	SS	GRY	F 90/10				"				
885	950	SH	GRY					"				

18079

# LITHOLOGY LOG

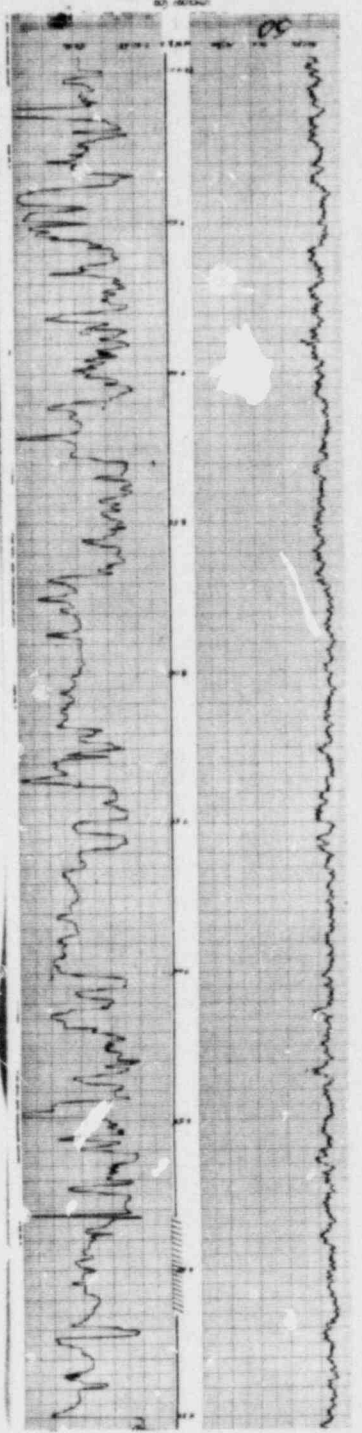
Drill hole no. KB-2 Area Ross At Dix. 114 Claim C.R.E. Sec. 2 Twp. 41 Rge. 25  
 Total depth 1000' Logged by V.P.

DEPTH		DESCRIPTION									
From	To	Rock Type	Color	Grain Size	Sand %	Carbon	Pyrite	Ox. state and color	Remarks		
0	40	SATURD	TM					OX			
40	60	SAND-SH	GRY					MAX			
60	65	GRAVEL									
65	75	SAND	TM					OX			
75	100	SS	GRAY	C-VE 90-100				OX			
100	125	SH	GRY					MAX			
125	205	SS	LT. GRAY	F-M 90/				OX			
205	285	SH-SAT	GRY					MAX			
285	355	SS	YEL BRN	C-VE 90-100				OX			
355	370	SH	BURDY					MAX			
370	400	SS	PINK BRN	A-C 90/				OX			
400	450	SH-SAT	GRY					MAX			
450	455	SS	GRAY	F-M 90/				MAX?			
455	475	SS	RD. BR	F-M 90-100				OX			
475	570	SS	WT. BR	F-M 90-100				OX			
570	585	SS	MAX					MAX			





4175-2-2



10079

LITHOLOGY LOG

Area Rees As Dix. 114 Claim Rees Sec. 3 Twp. 41 Rce. 75  
 Logged by W.P.W.

Drill hole no. 11072-2  
 Total depth 1000'

DEPTH		DESCRIPTION									
From	To	Rock Type	Color	Grain Size	Sand / Sh	Carbon	Pyrite	Ox. state and color	Remarks		
0	40	SANDST	TM					OX			
40	60	SAND-SH	GRY					max			
60	65	Lignite									
65	75	SANDS	TM					OX			
75	120	SS	GRAYBN	C-Vc 90/100				OX			
120	125	SH	GRY					max			
125	285	SS	LT. GRAY BN	F.M 90/				OX			
285	385	SH-SANDS	GRY					max			
385	455	SS	GRAY	C-Vc 90/100				OX			
455	570	SH	GRAY					max			
570	600	SS	Pink BN	M-C 90/				max			
600	650	SH-SANDS	GRY					max			
650	685	SS	GRAY BN	F.M 90/				max?			
685	725	SS	RD. BN	F.M 90/100				OX			
725	750	SH	WT. BN	F.M 90/100				OX			
750	775	SH	GRAY					max			
775	795	SS	GRY	F 90/100				max	SH / max		
795	820	SS	WT. GRAY	C-Vc 90/				max?	leached w/TS		
820	900	SH-SANDS	GRAY					max			
900	950	SANDS	GRY	F 90/				max			
950	1000	SANDS	GRY					max			