

# FIELD LOG OF BORING

PROJECT NO. 74 - 068

BORING NO. P-2 CORE

DATE 10-15-74 TITLE SUN PHILLIPS SONG

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE (FALLING)

LOGGED BY MATT TURNER

MIKE NOVAK  
PAGE 1

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
90							
						CORING BEGAN 94 FEET $\downarrow$	
94						SANDSTONE, 5/1 5y GRAY, MEDIUM	17 FT/HR
95						GRAIN, SUBANGULAR, MODERATELY	
						WELL SORTED, MOD. HARD TO	
						HARD, MASSIVE, VERY SLIGHTLY	
						CALCAREOUS TO CALCAREOUS	
100							
						DARK	
105						LAMINATIONS PRESENT IN	
						ABUNDANCE - HEAVY MINERAL	
						CONCENTRATION AT 105-105.2	
						106 - 106.1	
120							

## NOTES:

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10-15 TITLE SUN Phillips Soltia  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE - FAILING

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY MATT TURNER  
MIKE NOVAK

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
110						SANDSTONE, HOMOGENEOUS,	17 ft.
						AS ABOVE WITH FAINT	
						CONVOLUTE STRUCTURES	
115							
120						CONVULUTED BANDING AND	
						LAMINATIONS, HEAVY MINERAL	END OF
						CONCENTRATION 121 - 121.5	CORE 122
122-146	2	CORE		100%		FINER	GRAINED
						SANDSTONE, 5/1 SY GREY,	17 ft.
125						FINE TO MEDIUM, MOD. WELL	
						SORTED, SUBANGULAR, NON	
						CALCAREOUS, MASSIVE	↑ FINE
						ABUNDANT PLANT FOSSILS 126'	↑ FINE
							127'
130							

NOTES:

# FIELD LOG OF BORING

PROJECT NO. 24 068

BORING NO. D-2 CORE

DATE 10/15 TITLE SON PHILLIPS

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE, FALING

LOGGED BY MATT TURNER

MIKE NOBLE  
PAGE 3

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
130						SANDSTONE, 5/1 SY GRAY	
						FINE TO MEDIUM GRAIN, MOD.	
						WELL SORTED, SUBANGULAR	
						NON CALCAREOUS, MASSIVE,	
135						FAINT CONVOLUTE STRUCTURES	
						PRESENT.	
140							
						AS ABOVE; HOMOGENEOUS SS	FILLED
						WITH MINOR CONVOLUTE	141
						STRUCTURES	2.2
							SWP
145							END
							123
146	3	CORE		100%		SANDSTONE, 7/1 SY LIGHT	20 FEET
						GRAY, FINE TO MEDIUM GRAIN	
						DENSE MASSIVE, LAMINATED AND	
150						BANDED, HARD	

NOTES:

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BORING NO. P. Z CORE

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

LOGGED BY MATT TURNER

150

155

160

165

170

NOTES: PREDOMINANTLY LOW ANGLE FRACTURES

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/16 TITLE SUN Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE FILLING

BORING NO. P.2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY M. TURNER

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:		
170	4	CORE		100%	SANDSTONE, FINE GRAIN, 5/1 5y	11 FT/12	
					LIGHT GRN, MASSIVE, DENSE,		
					FAINT LAMINATIONS, SLIGHTLY		
					CALCAREOUS		
175							
180							
					SILTSTONE, 5/3 5Y OLIVE,		
					HARD TO VERY HARD, MICACEOUS,		
					SOMETIMES SANDY, CALCAREOUS		
185							END OF CORE RUN
					FRACTURE ZONE	185.5	
					185 - 185.5		
190							

NOTES:

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/16/74 TITLE San Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke, Failing 7500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
185.0-186.1	5	Core		100%	Siltstone, $\frac{5}{8}$ Sy, olive, hard- very hard, micaceous, thinly bedded Horizontal parting plane 186.1' Gradational contact 186.1'	
186.1-188.1		Core		100%	Silty Sandstone, $\frac{5}{8}$ Sy, olive vf-f grain, subangular, med sorted hard w/ lenticular pods of pyrite and biotite, non calcareous	
<del>188.1-190.1</del>		Core		100%	Siltstone-sandy siltstone, $\frac{5}{8}$ Sy, olive hard, thinly bedded, slightly calcareous w/ lenticular pods of biotite and pyrite, carbonized fossil remnants Parting planes at 190.8, 193.1, 193.9 Also, some .2 inch thick beds of convoluted carbonized material.	
188.1-215					195' lenticular veg of sandstone olive med grain, subangular, poorly sorted	

## NOTES:

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/16/14 TITLE San Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke

BORING NO. P-6 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
<del>188.1-216.5</del> (cont)	5	Core		100'	siltstone - sandy siltstone, as above	
188.1-215					199 parting plane, horiz	
					199.3' parting plane horiz	
					202.4' parting plane horiz	
					205.6 parting plane horiz	
					207.2 parting plane due to lenticular body part of pyrite and biotite	
					208.1 parting plane, horiz	
					210.1 parting plane horizontal	
209.1-209.3					Siltstone as above but change in color $\frac{3}{2}$ Sgr, dark reddish brown	
					210.1 parting plane horizontal	
					212.7 parting plane horizontal	
					213.1 parting plane horizontal	
					214.2 - 214.8 fracture zone	
					217-217.5 fracture zone	End of core
						run 216.5

## NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/16/74 TITLE San Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
215-218.8	6	Core		100%	Siltstone, 5/3 5y. olive, hard thinly bedded, slightly calcareous w/ biotite, pyrite, carbonized mat'l and several convoluted 1/2" beds of carbonized mat'l Fracture zone 215.6-215.10 217.5 Parting plane horiz.	
218.8-219.1		Core		100%	Siltstone, as above but 5YR 3/2 dark reddish brown w/ no convoluted structures	
219.1-220.5					dark red brown - yellowish red Siltstone: 3/4 5YR ^ hard thinly bedded - massive. massive w/ biotite, pyrite, carbonized mat'l, slightly micaceous, slightly calcareous	
					220.8 Parting plane horizontal	
					221.1 " " "	
					221.5 " " "	
					223.1 " " 30°	
					223.9 " " horizontal	

## NOTES:

NOVAK



# FIELD LOG OF BORING

PROJECT NO. 74.068  
 DATE 10/16/14 TITLE Sop Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED \_\_\_\_\_

BORING NO. P-2 Core  
 ELEVATION \_\_\_\_\_ DATUM M.S.L.  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION		REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:		
226.5-235				100%	Siltstone <sup>predominantly</sup> 5/3 Sy olive <sup>w/ some</sup> 2 1/4	inter-bedded	
					5YR reddish brown, hard, slightly calcareous, thinly bedded, w/ convoluted		
					beds biotite, mica and carbonized matly		
					227.48 Parting Plane Horizontal		
					227.8 " " "		
					229 " " "		
					230.5 " " "		
					231 " " "		
					232.5 " " "		
					233.2 " " "		
					233.8 " " "		
					235 " " "		
					gradational contact		
235 <del>2402</del> 2396				100%	Sandstone 5/3 Sy olive, of-med grain, med-well sorted, subangular		
					slightly calcareous w/ pyrite biotite		
					carbonized matly		

## NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-064  
 DATE 10/16/74 TITLE Sgt Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Fairing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY Novak

Page 10

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
<del>237.6</del>		Core		100	Siltstone: 5/3 Sy, olive hard	
239.6-242.5	2				massive slightly calcareous massive	
					10/ < 15% pyrite biotite	
					carbonized mat'l	
					239.6 Parting plane horizontal	
					240.15 " " 20%	
					240.55 " " horizontal	
					242.65 " " "	
					244.6-245.7 fracture zone	end of
					246.2-247 " "	core Run
					<del>247.3-248.5</del> loose 1% rec between	247
				→	244.6 and 247	
	7				250.5 Parting plane horizontal	
					250.15 " " "	
					251.25 " " "	
					253.75 " " 30%	
					255.95 " " " and	
					lenticular nod of pyrite, biotite	
257-258.5				100	Siltstone: Ag above but reddish brown	
					of lenticular bodies of pyrite biotite	

NOTES:

7-11

# FIELD LOG OF BORING

PROJECT NO. 14-068  
 DATE 12/11/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Feeling 1500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVAK  
Rogert

DEPTH	SAMPLES				DESCRIPTION		REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:		
254.5-274	7	Core		100	Siltstone 5/8 Sy, shiny, hard		
					massive, slightly calcareous w/ 170		
					white pyrite		
					254.55 Parting Plane horizontal		
					255.2 " " "		
					256.3 " " V shape		
					256.7 " " horizontal		
					257.15 " " V shape		
					257.55 " " horizontal		
					258.15 " " "		
					259.7 " " "		
					260.55 " " "		
					261.1 " " "		
					261.55 " " "		
					2' interval of reddish brown		
					siltstone interbeds as desc.		
					262.35 Parting Plane horizontal		
					263.1 " " "		
					263.7 " " "		
					263.25 " " "		

## NOTES:

f-100

# FIELD LOG OF BORING

PROJECT NO. 4-143  
 DATE 10/11/74 TITLE S. A. Hill Jr  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Pauling 7500

BORING NO. P 2 CASE  
 ELEVATION \_\_\_\_\_ DATUM MGL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY 15-14K

Page 17-

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
254.5-274	7	0.2		100	Siltstone, 5/8 5, olive, hard massive, slightly color dark w/ 1/2 5/8 to 1/2 5/8, unbedded	
269.2-273					Siltstone as above but dark	
270.5-271					Siltstone as above but 5/2 5	End of Run
272-274					Parting plane, 272' missing 15ft	274'
					rec.	
274					Siltstone, 4/4 10 YR DARK BROWN, 22 FT/HR	
					DENSE, HARD TO VERY HARD, MASSIVE, MICACEOUS, NON-CALC.	
275.2					PARTING PLANE, 5" FROM HORIZONTAL	
275.6					" " HORIZ.	
275.7					LENSE OF PYRITE & BIOTITE	
276.2					PARTING PLANE HORIZ.	

NOTES:

1-11-74

# FIELD LOG OF BORING

PROJECT NO. 74 062  
 DATE 10/17/74 TITLE Son Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED FALLING 2500

BORING NO. P2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY MATT TURNER

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
276.4		CORE		100%	PARTING PLANE HORIZ.	22 FT/HR
279.3					PARTING PLANE HORIZ.	
277.5					SILTSTONE, SOFTER AND MORE	
					FRIABLE THAN ABOVE	
280.5					PARTING PLANE HORIZ	
281.2					" " 5° FROM HORIZ	
281.5					" " HORIZ	
282.5					" " "	
286					" " "	
286.7					PARTING PLANE 6° HORIZ.	
287.2					" " HORIZ	
288.5					" " "	
290.5					PARTING PLANE 5° HORIZ	
291.3					" " HORIZ	
291.5					" " "	
291.9					" " "	
293					" " "	
294					" " "	
292.5					DARK BROWN COLOR SPOTS IN	
					SILTSTONE	

NOTES:

TURNER

# FIELD LOG OF BORING

PROJECT NO. 74 068  
 DATE 10/17/74 TITLE SUN PHILLIPS  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED FALLING 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY MATT TURNER

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
294.1						CALCITE VEIN, .1 CM IN	22 FT/LR
						SILTSTONE MATRIX, 5° FROM	
						HORIZ	
294.4						PARTING PLANE HORIZ.	
294.6						" " "	
294.8						" " "	
295.5						" " "	
295.8						" " "	↑
297						SILTSTONE AS ABOVE BUT	FRACTURE
296.8						HARDER - PARTING PLANE	ZONE
297.6						PARTING PLANE HORIZ	
298.1						" " "	
298.6						" " "	
299.1						" " "	
299.5						" " "	
299.8						" " "	
300.1						" " "	
300.5							↓
						END CORE RUN	
						300.5	

NOTES:

1-1000

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10-17-74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVA

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	
300.5 - 303	9	Core		100	Siltstone, 3/4 10YR, dark yellowish brown, hard, slightly calcareous, laminated w/ < 1% mica, lenticular pod containing calcite crystals	
					300.8 Parting plane horiz.	
					301.5 " " "	
					301.6 healed fracture 60° filled w/calcite	
					302.25 Parting plane horiz.	
					302.4 Fracture 10°	
303-304.8				100	Sandy Siltstone 5/3 5Y olive hard slightly calcareous massive w/ vf sand, carbonized mat'l, < 5% mica	
					303.55 Fracture 20°	
					304.8 Fracture horiz.	
304.8 - 307.55					Siltstone, as above but no sand and is laminated w/ convoluted structures	
					306.1 Parting plane horiz.	

## NOTES:

T-1000

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 9-17-74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P. 2 Core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
307.55 - 312	9			100	Siltstone 3/2 5K dark olive gray hard, slightly calcareous, thinly bedded w/interbeds of gilsonite, some micaceous organic material from ~ 308 is interbedded with reddish brown siltstone, thinly bedded and w/convoluted structures. Parting plane horizontal 307.35'	
					308.95 " " "	
					309.55 " " "	
					309.7 " " "	
					309.85 " " "	
					310.25 " " 3°	
					311.4 " " horizontal	
					312.	
312 - 320	9			100	Siltstone, 3/2 7.5 yr dark brown hard, mod calcareous thinly bedded w/organic carbonized mat'l takes on greenish hue. Near 315.3	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 7-17-74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NovaK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
312 —	9	Core		100	312.25 Parting plane horizontal	
320 cont					312.7 " " "	
					w/ calcite and platy mineral	
					312.75 Parting plane horizontal	
					313.75 " " "	
					314.65 " " "	
					315.3 " " "	
					316.4 <sup>Mech</sup> Fracture horizontal	
					316.85 " "	
					317.2 Mech Fracture "	
					318.2 " " "	
					319.1 " " "	
					319.8 " " "	
320 -					Siltstone As above but 5/3 Sy	
321.3					olive colored	
					320.4 Mech Fracture horizontal	
					320.8 .1 ft bed white siltstn	
					321.25 Mechanical fracture	
321.3 -					Siltstone, as above but <del>redish</del>	
329					dark brown and w/micq, pyrite	
					321.75 mech fracture	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/17/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P. 2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
321.3 -	9	Core		<del>100</del>		Siltstone 3/2 7.5yr, dark	
329 core						brown, hard, mod calcareous	
						thinly bedded w/ w/organic carbonized	
						mat'l, mica, pyrite	
						322.1 Mech Fracture horizontal	
						322.5 Parting plane horizontal	
						322.6 " " "	2mm beds
						322.6 becomes pred laminated	gilsonite
						322.95 Parting plane horizontal	fore 8'
						323.35 " " "	interval
						324 Mechanical Fracture	2mm bed
						324.55 " " Horizon	gilsonite
						324.95 " " "	
						325.85 - 328.7 Fracture zone	
						Gravel. Missing 1.75 feet	
						of recovery here	
							End of
							core run
							329.1

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/12/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
329	10	Core			Siltstone: 5YR 2.5/2 dark reddish brown	
					hard, laminated, some color banding, slightly calcareous, non-fossiliferous, some pyrite (pyrite pod at 343.55'), some gilsonite stringers present, very homogeneous. Very-fine grained sandstone bed at 346.3' (Possible Tuff), parting planes at 330.10	
					330.33, 331.35, 332.8, 332.95	
					334.05, 334.60, <del>335.00</del> 335.00	
					335.90, 336.85, 337.68, 337.78	
					337.93, 338.43, 338.83	
					340.05, 340.65, 341.9	
					343.00, 343.30, 343.75, 344.40	
					344.43, 345.07, 345.66	
					345.95, 346.32, 346.43,	
					346.70, 346.90, 348.10, 348.40	

NOTES:

7-23-73 1-213

# FIELD LOG OF BORING

PROJECT NO. 74 OGB  
 DATE 10/18 TITLE SUN PHILLIPS  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED FALLING

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY TURNER

P20 P 20

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
Cont <sup>n</sup>					348.70, 348.96, 349.12,	
					349.70, 350.00, 350.40, 350.85	
					from 350.9 → 355.4 gravel	END
					possible parting	CORE
355.4					SILTSTONE, 3/2 IOR DUSKY	8 FT/HR
					RED TO 2.5/2 IOR V. DUSKY	
					RED, V. SLIGHTLY CALCAREOUS,	
					FAINT LAMINATIONS, HARD,	
					V SLIGHTLY MACEOUS, SOME	
					CARBONACEOUS DEPOSITS,	
					FES <sub>2</sub> PRESENT - PYRITE OR MARCASITE	
355.55					PARTING SURFACE HORIZ.	
355.72					" " "	
356.52					" " "	
356.87					" " "	
357.03					" " "	
357.79					" " "	
358.03					" " "	
358.36					" " "	
358.56						

NOTES:

10/18/18

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P-2

DATE \_\_\_\_\_ TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED FALLING

LOGGED BY TURNER

P 21

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
358.60					PARTING SURFACE. HORIZ	
.90					" SILTSTONE 3/2 10R	VERT.
359.39					" DUSKY RED TO 2/5/2	FRACT. 357.12-
.58					" 10 R, V. DUSKY RED	358.90
.78					" V. SLIGHTLY CALCAREOUS	
360.12					" FAINT LAMINATIONS, HARD	
.55					" V. SLIGHTLY MICACEOUS	
.90					" SOME CARBON	VERT FRACT
361.18					" DEPOSITS	80° FROM VERT
.75					" ↑	
362.19					" ROCK - HOMOGENEOUS	
.82					" ↓	
363.33					"	
.67					"	
364.50					"	
365.05,					"	
365.20					"	
365.05					"	
366.20					"	
.47					"	

NOTES:

Hand

U057  
17-105-24E

# FIELD LOG OF BORING

PROJECT NO. 74.068  
DATE \_\_\_\_\_ TITLE \_\_\_\_\_  
START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
EQUIPMENT USED \_\_\_\_\_

BORING NO. P-2 CORE  
ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
LOGGED BY TURNER

P. 22

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:		
366.75					PARTING SURFACE HORIZ	8 FT/H	
.97					"		
367.08					"		
.35					"		
.69					"	↑	
.92					"	ROCK HOMOGENEOUS	
368.35					"	↓	
369.04					"		
.23					"		
.81					"		
370.15					"		
.67					"		
371.31					"		
.61					"		
372.15					"		
.52					"		
.54					"		
373.20					"		
.49					"		
.90					"		

NOTES:

turner

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P-2 CORE

DATE \_\_\_\_\_ TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED \_\_\_\_\_

LOGGED BY TURNER

P 23

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	
374.31					PARTING SURFACE HORIZ	
.92					" " "	
375.40					" " ↑	
.64					" ROCK	
376.00					" HOMOGENEOUS	
.59					" ↓	
377.00					"	
.34					"	
.80					"	
378.26					"	
.65					"	
.95					"	
379.49					"	
380.10					COLOR CHANGE 4/2 7.5 YR BROWN	
.87					"	
381.19					"	
.29					"	
.35					"	
.44					"	
.57-65					FRACTURE SYSTEM	

NOTES:

7-23-73 L-C13

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P.2 CORE

DATE 10/17/74 TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED FALLING 2500  
SCHOCKE

LOGGED BY TURNER

22

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	
381.5					SILTSTONE, 3/2 S Y, DARK RED	8 FT/HR
					BROWN, THINLY LAMINATED,	
					MICK FORMING ON PLANES,	
					SLIGHTLY CALCAREOUS, SMALL	
					LENTIKULAR BEDDING;	
381.88					BEDDING PLANE	
382.80					FRACTURES AND SMALL	
382.35					CAVINITIES	
382.55					PARTING SURFACE AND	
					CONTACT	
383.10					PARTING SURFACE	
.70					" "	
384.05					" "	
.60					" "	
385.4					SILTSTONE 4/1 10 YR DARK GRAY,	CORE RUN 385-408
					HARD TO VERY HARD, PETROLIFEROUS	
					LENSE-LIKE BLIBES, THINLY	
					BEPDED, STRATIFIED	
					385.65 , 386.3 , PARTING SURFACES HORIZ	
					386.57 INCLINED 15° FROM HORIZ	

NOTES:

7-25-73



# - FIELD LOG OF BORING -

PROJECT NO. 74-068  
 DATE 10/18/74 TITLE SUN Phillips Sottio  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE Failing

BORING NO. P.2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY TURNER

P. 25

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
386.64		CORE				IRREGULAR SHAPED BED OF	6 FT/12
						PETROLIFEROUS ? SILTSTONE & FINE	SS.
387.58						PARTING SURFACE HORIZONTAL	
						388.25, 388.85, 389.22,	
						390.0	
390-390.3						PARTING SURFACE 80° FROM HORIZ.	
390.46						PARTING SURFACE - 390.58	
						390.94, 391.29	
391.29 -						SILTSTONE, WITH INTERBEDDED WITH	
392.19						IRREGULAR SHAPED PODS OF SILTY	
						SANDSTONE, 2/3 SY PALE OLIVE,	
						2/10 7.5 YR BLACK, 4/4 10 YR	
						DARK YELLOW BROWN, MOD. STRONG	
						CALCAREOUS, HARD.	
393.41						THIN BAND OF WHITE CALCAREOUS	
						FINE SS, .04 FEET THICK	
394						PARTING SURFACE - 394.47	
						394.56, 394.95	
395.25						395.50 PARTING SURFACES	
						396.12, 396.57, 396.9	

NOTES:

T

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P2 CORE

DATE 10 18 TITLE SUN PHILLIPS SOTTO

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHLICK

LOGGED BY MATT TURNER

P. 26

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
397.41						397.64, 398.35, HORIZONTAL PARTING SURFACE	
						398.66, 398.83, 399.2	6 FT / NR
						— 399.35 - 399.55 PARTING PLANE	
						80° FROM HORIZONTAL, —	
						399.73 - PARTING SURFACE HORIZONTAL	
						400.40 400.78	
401.35						LIGHT COLORED SILTSTONE, VERY	
						CALCAREOUS	
401.65						PARTING SURFACE, SEAM LOST? .2	
					↕	OF CLAYEY SILT .2 INCH LOST?	
402.5						PARTING SURFACE	
402.15						PARTING SURFACE 402.4,	
						403.07 TO 403.37 - .3	
						CLAYEY SILT SEAM .3 INCH LOST?	
						PARTING PLANE 403.59	
						404.1 FRACTURE ZONE - .3 INCH LOST?	
						404.4, 404.52, 404.62	
						404.71, 404.18 - 60° FROM HORIZ.	
						405.38 - .2 LOST FRACTURE ZONE	
						405.78, 406 - FRACTURED - 408	

NOTES:

TURNER

# FIELD LOG OF BORING

PROJECT NO. 74 OGB

BORING NO. P-2 CORE

DATE 10/18 TITLE SUN Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE

LOGGED BY ~~MAIT~~ TURNER NOVAK

Page 27

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
408 -		CORE		1 1/2	Siltstone, 3/3 SYR, dark reddish brown, hard, slightly calcareous w/ < 1% pyrite; 3" void containing nacolite; black stringers	5ft/hr
410.05					Missing 1.7' of rec possibly due to avoid, Mechanical Fracture, 10.05'	
410.05 -		Core			Siltstone, 3/3 SYR, dark reddish brown, hard, slightly calcareous laminated-thinly bedded w/ black siltstone stringers, < 5% pyrite	
414.28					412.8 Solution cavity; 3" diameter filled w/calcite	
					Parting plane horizontal 412.8 413.4	
414.25					Gradational contact	
414.25 -					Sandy Siltstone as above but w/ 20% .5 cm calcite filled voids, 2% carbonized matl, vf sand	
416.5					Fracture 45° at 214.25	
416.5					Gradational contact	

## NOTES:

7-28-73 L-C13

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10-18-74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

Page 28

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
416.5 -				100	Siltstone: 3/3 5yr, dark reddish brown, hard, slightly calcareous, laminated w/ black silty stringers and convoluted .5" beds of gray brown siltstone at 418.3, 418.7, and 418.9	
425.9					color change 5/3 5Y olive at 417.5	
					color change 2/2 10yr, vdk brown at 421	
					Parting plane horiz 416.55, 417.7	
					418.5, 419.55, 419.66	
					Fracture 30° 417.45, 421.8	
					Mechanical fracture 424.55	
					Solution cavity parting fracture 425.8	← could have lost recovery here, too
425.9					gradational color change	
<del>425.9</del>						
425.9 -					Siltstone: 3/2 10YR, v. dk grayish brown, hard, mod calcareous, laminated w/ black siltstone with calcite, looks mottled, pyrite	end of core run
431					Parting plane 426.3, 426.4, 427, 429.6	
					430.5, 430.6, 428.75	

50° Fracture 428.4; 45° Fracture

## NOTES:

vertical fractures 429.6 - 431 possibly responsible for jamming core barrel

found

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/18/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_

Page 29

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
431		Core		100%		SILTSTONE $3\frac{1}{2}$ 10Y/R V. DARK GRAYISH BROWN, MASSIVE, HARD TO VERY HARD, SLIGHTLY CALC. PARTING PLANE AT 431, 431.3 432.25, 432.65, 433, 433.25 434.1, 434.25, 435.1, 435.15 435.75, 436.2, 436.85	6 FT/HR
437.55 To 439.3						Silty SANDSTONE, $3\frac{1}{2}$ 7.5 YR DARK BROWN, FINE GRAIN, VUGGY, SUGARY, SLIGHTLY MICACEOUS, MOD HARD TO HARD, POROUS, FRACTURED PARTING PLANE, 438.3, 438.5 439.5, 439.9	
440.45 To 440.92						VUGGY ZONE	
441.1						PARTING SURFACE	
441.35						" "	
441.6 - 441.75						VUGGY ZONE	
						PARTING SURFACE 441.85, 441.95, 442.2 442.55	

## NOTES:

fuero

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P-2 CORE

DATE 10/19 TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 168 AFTER 10/19

EQUIPMENT USED SCHOCKE

LOGGED BY TURNER

P. 31

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
453		CORE			SILTSTONE 5/1 10 R, REDDISH GRAY, HARD TO VERY HARD, NON CALCAREOUS EXCEPT FOR VUGS CONTAINING <sup>W</sup> CALCITE (CALCITE OR NAHCOLITE) CALCITE IN BETWEEN PARTING SURFACES - PARTING AT 453, 453.1, 453.4, 453.5, 453.8, 453.90, 454.05, 454.64, 455.65, 456.13, 456.93	4.6 FT/HR
455 - 455.4					EXTREMELY JUGGY	
					PARTING SURFACES - 457.41	
					457.59, 458, 458.82	
458 - 460.5					CALCITE VUGS ABUNDANT, FORM IRREGULAR, ELONGATE VEINS OF ~ .03 IN WIDTH	
					PARTING SURFACES AT - 459.55	
					460.7, 462.5, 463.32, 464.1	
463 - 463.5					CALCITE ELONGATE VUGS ABUNDANT AND PARALLEL TO HORIZ. LESS THAN INCH IN LENGTH	

NOTES:

7-23-73 L-013

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/19 TITLE \_\_\_\_\_  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE, FALLING

BORING NO. D-2  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY TURNER

PAGE 30

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
442.9						PARTING SURFACE, 443.15	6 FT/HR
						443.4, 443.55, 443.66	
						443.7, 444.45, 444.7, 444.85	
						445.45, 445.55, 445.75, 446.15	
						446.45, 446.7, 446.95,	
						447.05, 447.3, 447.55, 447.7,	
447.7 to	449.15					ROCK INTENSELY FRACTURED IN	
						THIS ZONE, ROCK IS VERY	
						VUGGY AND BROKEN UP	
						PARTING SURFACE, 449.15	
						449.55, 449.7, 449.9	
						450.0, 450.1 - 450.75 ROCK IS	
						VERY FRACTURED,	
450.75						SILTSTONE 3/2 10 YR, V. DARK	
						REDDISH BROWN, MASSIVE,	
						VUGGY, SLIGHTLY CALC, HARD	
						TO V HARD.	
452.76						PARTING SURFACE	
453						"	

## NOTES:

Turner

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P. 2

DATE 10/19 TITLE SUN Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 158 AFTER \_\_\_\_\_

EQUIPMENT USED S-HOCKE FALLING

LOGGED BY TURNER

P. 32

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
464.38						SILTSTONE 5/1 10R REDDISH	4.6 FT/HR
						GRAY, HARD TO VERY HARD	
						NON CALCAREOUS TO SLIGHTLY	
						CALCAREOUS EXCEPT FOR YUGS	
						W/ CALCITE, CALCITE IN PARTING	
						SURFACES	
						PARTING SURFACES AT- 464.38,	
						465.1, 466.46, 466.6, 466.65	
						466.9, 468.08, 468.91, 469.92	
471-		Pyrite -				471, 471.32, 471.51, 472.3	End of
						473.58	core Run
473.6 to						FRACTURE ZONE - LOST RECOVERY	477'
477						3.4 FEET	
477 -						Siltstone 2/2 10yr, hard, mod.	
488.8						calcareous, laminated w/ < 1% pyrite; possibly tar stringers	
						Parting plane 477.25 lined with	
						3mm calcite crystal	
						Section very homogeneous	

## NOTES:

fuoro



# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/19/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 165 AFTER \_\_\_\_\_  
 LOGGED BY Nowak

• Page 33

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
477-						Vertical joint 477.25-477.5 lined	
488.8(cont)						with tar	
						Parting plane horizontal. 481.25	
						484.15, 486.25, 487.25, 488.05	
						Convolute bed of <del>gray</del> 5/6 2.5y	
						siltstone 484.3-484.43	
						4° fracture 487.8	
488.5						Possible solution cavity, lower surface	
						horizontal and lined w/ calcite. Upper	
						surface very chipped where core was	
						rotated w/ barrel. Same at 488.8	
488.5-						Siltstone 3/3 10yR dark brown	
493.6						very hard slightly calcareous, laminated	
						tar blebs increasing toward bottom	
						Parting plane horizontal 489.55	
						489.65, 490.5, 491.73	
						55° fracture 493.4	

## NOTES:

fuero

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/19/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 165 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

Page 34

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
493.6						Gradational contact	
493.6-						Siltstone 2/2 10yr, very dark	
493.8						brown, hard slightly calcareous,	
						laminated - thinly bedded w/ tar blebs,	
						1mm calcite <sup>filled cavities</sup> inclusions which gives mottled	
						appearance to siltstone decreasing downward	
						Parting plane horizontal 494.15, 495.3	
						50° fracture 494.5. lined w/calcite	
495.8						Gradational contact	
495.8						Siltstone 2/2 10yr very dark brown	
495.85						hard, slightly calcareous laminated	
						w/ tar blebs	
						Parting plane 498.95 horizontal	
						50° fracture lined w/calcite 498	
						Mechanical Fracture 496.75	
						Solution cavity lined 3mm thick calcite layer	
						498.6, 498.95	
498.95						Change in lithology, Sharp at	
						lined solution cavity	

## NOTES:

fuoro

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/19/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

Page 3S a

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
498.95 - 503					Siltstone 3/3 5yr dark reddish brown, hard, slightly calcareous, laminated, highly weathered w/ calcite filled <del>and</del> cavities inclusions looks mottled.	
					Vertical and horizontal healed fractures	
					498.95 - 499.2 w/ calcite	End of
				→	Missing 2 feet of recovery between 498.95 499.2 and 503	core Run 503'
503 - 509				4.3/6	SILTstone 3/2 5YR, dk reddish brown, v hard, slightly calcareous & homogeneous laminated	
					Parting plane horizontal 503.15	
					506.35, 506.75, 506.95, 507.3	
					507.4, 507.55, 507.95, 508.15	
					Vertical fractures 506.5 - 506.75, calcite lined	
					506.95 - 507.3, 507.4 - 507.55, 507.55 - 507.95	
					507.95 - 508.15	
				→	1.0' rubble <sup>between</sup> 503.3 - 506 Missing	
					1.7 ft recovery here	

## NOTES:

fuano

FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/20 TITLE Sun Phillip  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 158 AFTER \_\_\_\_\_  
 LOGGED BY TURNER

Page 35 b

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
509-531						SILTSTONE 3/3 5YR DARK	3.7 FT/HR
						REDDISH BROWN, HARD to	
						VERY HARD, MASSIVE, VERY	
						HOMOGENEOUS, SLIGHTLY	
						LAMINATED, CALCAREOUS,	
						OCCASSIONALLY VUGGY, W/CALCITE	
						PARTING PLANES IRREGULAR	
						AND CALCITE FILLED	
509-509.5						FRACTURE ZONE	
						PARTING PLANE HORIZ. - 510.28	
						511.9	
514-514.3						VUGGY, FRACTURED	
						514.7 PARTING PLANE	
514.9						CALCITE VEIN - NEARLY HORIZ.	
515.3						VUG W/CALCITE	
						PARTING PLANE - 516.4,	
						518.45, 518.95, 521.47	
523.3						CALCITE INCLUSIONS	
						PARTING PLANE - 523.64, 524.35	
						527.73, 528.1, 528.33, 529.22, 530.25	
						530.58	

NOTES:

TURNER

10/21

## FIELD LOG OF BORING

PROJECT NO. 74 068  
 DATE 10/20 TITLE SUN PHILLIPS  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE FALLING  
2500

BORING NO. P.2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY TURNER

P: 36.

DEPTH	SAMPLES				DESCRIPTION Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
531 TO -		CORE			SILTSTONE, 3/1 5YR VERY DARK	3.6 FT/HR
532.67					GRAY, MASSIVE, HARD TO VERY HARD DENSE, FAINTLY LAMINATED SLIGHTLY CALCAREOUS PARTING SURFACES-531.28, 531.8 531.9, 532.4, 532.5, 532.6 532.67 - HORIZONTAL	
531.35 - 531.5					(2) PARTING SURFACES AT 70° FROM HORIZONTAL ONE INCH SPACING	
532.6 - TO -					WEATHERED ZONE BETWEEN PARTING SURFACES	
532.67						
532.73 TO -					SILTSTONE - AS ABOVE BUT -	
535.75					PETROLIFEROUS "OIL SHALE" *	
532.95 TO -					SILTSTONE, 6/2 10YR LIGHT BROWNISH	
533.07					GRAY, CONVOLUTE STRUCTURE W/ SMALL CAVITIES	
535.75 TO -					SILTSTONE, SLIGHTLY PETROLIFEROUS	
536.41					"OIL SHALE" *	
536.41					SILTSTONE 4/2 10YR DARK	
					GRAYISH BROWN, REST AS ABOVE	

NOTES: TERM SUGGESTED BY CLEVELAND CLIFFS

furno

# FIELD LOG OF BORING

10/21

PROJECT NO. 74 068

BORING NO. P-Z CORE

DATE 10/20 TITLE SUN PHILLIPS SOHIO

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE, FALLING 2500

LOGGED BY TURNER

P 387

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
536.6 TO						FRACTURE ZONE - MAIN FRACTURE	3.6 FT/HR
537.2						70° FROM HORIZONTAL	
537.95						HORIZONTAL PARTING SURFACE	
540.95						.3" LENSE OF LIGHT COLORED,	
						NON CALCAREOUS, FINE SS	
541.46						.35" LENSE OF LIGHT COLORED,	
						NON CALCAREOUS, FINER SS	
542.27						.4" LENSE OF LIGHT COLORED	
						NON CALCAREOUS FINE SS	
545.1						.4" LENSE OF LIGHT COLORED	
						SLIGHTLY CONVOLUTE, NON	
						CALC, FINE SS.	
547.2 TO							
547.56						FRACTURE 80° FROM HORIZONTAL	
547.56 TO						FRACTURES ABUNT - LOST	
548.1						.7" OF RECOVERY HERE → 548.1-548.8	
548.1 TO						TOTAL LENGTH OF CORE RUN	
548.8 — LOST						17.8 FEET, RECOVERY 17.1	
						FEET	

NOTES:

# FIELD LOG OF BORING

517 10/21

PROJECT NO. 74 068

BORING NO. P-2 CORE

DATE 10/20 TITLE Sun Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE, FAIRING 2500

LOGGED BY NOVAK

P. 38

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
549.8-				100%	Siltstone, 2.5/4 2.5yr dark	
562.3					reddish brown 3/3 5yr dark reddish	
					brown, hard, slightly calcareous, laminated	
					w/ 1% pyrite; and occasional	
					tar blebs or carbonized mat'l	
					very homogeneous.	
					Fossilized leaf .5" x 3" at 550.4	
					552.85, 555.8. Probably highly	
					fossiliferous but owing to high RQD	
					no others to be seen	
					Mechanical break at 555.5 is along	
					3mm bed very dark reddish brown siltstone	
					Fractured zone 558.7 - 559.6	
					Parting plane horizontal 561.27, 561.45	
562.3					Gradational contact	
562.3-				100%	8" zones of siltstone, 2.5/15yr, black	
565.5					hard, non-calcareous, laminated w/ < 1% pyrite	
					with siltstone above. Interbedded. Zones are gradational	
565.5					Gradational contact	

NOTES:

Page

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/20/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 156' AFTER \_\_\_\_\_  
 LOGGED BY NOXAK

Page 39

DEPTH	SAMPLES				DESCRIPTION		REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:		
565.5-				100%	Siltstone, 3/3 5yr, dk reddish brown		
571.0					hard, slightly calcareous, laminated		
					w/ 1% pyrite, blebs of tar and/or carbonized matl. Fossilized leaf →		
					at 575.7		
					80° fractures 576.7-578.6		
					Pyrite blebs .02' x .05' at 578.4		End of
				Not	Approximately 1 foot of core was		core run
					left over. Will box separately		579
579-					SILTSTONE, 3/1 5YR VERY DARK		
					GRAY, CALCAREOUS TO VERY		
					CALCAREOUS, HARD TO VERY		
					HARD, BRITTLE, MASSIVE,		
					LAMINATED, SLIGHTLY PETROLIFEROUS		
579.579.4					FRACTURE 45° TO HORIZONTAL		
					PARTING PLANES - 579.9, 580.45		
579.9-580.45					VERTICAL FRACTURE		
581.66-582.3					20° FROM VERTICAL FRACTURE OR 70° FROM HORIZ.		
582.08					PARTING PLANE, HORIZ		
582.55					PARTING PLANE, HORIZ		

NOTES:

from



(5A) 10/21

# FIELD LOG OF BORING

PROJECT NO. 74 068  
 DATE 10/21/74 TITLE SUN PHILLIPS SOTTO  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE, FALLING ZSSO

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 156' AFTER \_\_\_\_\_  
 LOGGED BY MATT TURNER

P. 40'

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
583.14					HORIZONTAL PARTING PLANE - 583.54	
584.05 - 584.19					SANDSTONE, 8/2 7.5 YR PINKISH	
					WHITE, FINE GRAIN, CALCAREOUS TO	
					VERY CALCAREOUS, MOD. HARD	
584.19 - 584.28					SILTSTONE, SAME AS SILTSTONE ABOVE	
					SANDSTONE	
584.28 - 584.4					SANDSTONE, 8/2 7.5 YR PINKISH	
					WHITE, FINE GRAIN, CALC. TO V. CALC.	
					MOD. HARD	
584.4					SILTSTONE, SAME AS SILTSTONE ABOVE	
					THE TWO SMALL SS BEDS BUT MORE PETROLIFEROUS	
585.38					PARTING PLANE HORIZ.	
					586.04, 587.1, 588.27	
					(Note) Lost $\approx$ 20.4' of recovery down	
					hole. Recovery from next interval	
					588.6 - 610.5 reflects attempted	
					core recovery <del>and</del> of lost section	

## NOTES:

		FIELD
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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10-21-74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 154.2 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

• Page 41

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
				Note:	See preceeding page	
588.6 -					Siltstone, 3/2 5YR, dark reddish	
610.5					brown, hard-v. hard, laminated w/<1% (calcareous)	
					pyrite, bleb of marchisite? .05' found	
					in rubble, petroliferous. Attempted	
					recovery of lost core produced a	
					phosphorescent blue weathering which wiped	
					off easily	End of
					609.63 - 610.2 vertical fractures	core Run
					Parting plane horizontal 610.2	610.5
610.5 -				No Rec.	Defective core catcher	End of
625.02						Core Run 640.36
					Recovered lost core	
610.5 -				+100%	Siltstone 2.5/2-5YR, dark reddish	
<del>620.34</del>					brown - 2.5/2 2.5YR very dusky red,	
625.02					hard, slightly <sup>mod</sup> calcareous, laminated	petroliferous
					w/<1% pyrite, infrequent carbonized	
cont					mat'l AND	

## NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/22 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 157 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

Page 42

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	
610.5 - 625.02 CONT.					(cont.) with occasional .01 - .04' interbeds of fine grain, poorly sorted subangular, porous tuffaceous sandstone.	
610.5-617.1					Siltstone as above but highly fossiliferous oil content decreasing downward	
617.3-618.7					Tuffaceous sandstone as above .07' thick bottom contact convoluted	
612.96					0.7' Sandstone, dark reddish brown, fine grain, subangular, calcareous, poorly sorted v porous, water appears on fresh surface	







# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/22 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 157 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

Page 42

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	
610.5 -					(cont.) with occasional .01 - .04' interbeds of	
625.02					fine grain, poorly sorted subangular, porous	
cont.					tuffaceous Sandstone.	
610.5-617.1					Siltstone as above but highly <sup>petroliferous</sup> fossiliferous	
					oil content decreasing downward	
612.3-612.37					Tuffaceous sandstone as above. 07' thick	
					bottom contact convoluted	
612.96					07' Sandstone, dark reddish brown,	
					f-m grain, subangular, non-calcareous, poorly sorted	
					v porous, water appears on fresh surface	
					convoluted contacts	
613.44					Parting plane horizontal	
616-617.37					Siltstone as above (highly petroliferous)	
					gradational contacts above and below	

NOTES:

fuero

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/22 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 157 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

Page 43

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
610.5-						Siltstone 2.5/2 5YR dark reddish	
625.02						brown - 2.5/2 2.5YR very dusky red	
(CONT)						hard, slightly <sup>mod</sup> calcareous, laminated	
						petroliferous w/ < 1% pyrite infrequent	
						carbonized mat'l and occasional (1/ft)	
						interbeds of f grain, poorly sorted, subangular	
						porous Tuffaceous Sandstone	
620.8						Tuffaceous Sandstone interbeds <sup>.001-.02'</sup> increasing	
						downward. Blebs .01 x .03' present and	
						increasing downward	
625.02-						Siltstone as above but tuffaceous	
→ 636.16						with 75% nacolite stringers. <sup>Increasing amt. tuffaceous stringers</sup>	
627.23- <del>627.23</del>						Tuffaceous Sandstone bed .11' thick, black	
						coarse grain, subangular, very poorly sorted	
						non calcareous w/ .02' frags of <del>tuff</del> siltstone	
						and convoluted contacts	
625.85						Parting plane horizontal	

NOTES:

f-1000



# FIELD LOG OF BORING

PROJECT NO. 74-008

DATE 10/23 TITLE Sun Phillips

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

EQUIPMENT USED Schlocke

BORING NO. P-2 core

ELEVATION \_\_\_\_\_ DATUM MSL

WATER LEVEL ~~1/2~~ AFTER \_\_\_\_\_

LOGGED BY Nov. AK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	
625.02 - 636.16					Siltstone As above	
629.48					Tuffaceous Sandstone, black, .12' thick, m. grain, subangular, very poorly sorted, non calcareous w/.03' inclusions of siltstone + convoluted contacts, petroliferous	
636.16 - 640.34					Siltstone As above but highly petroliferous	
638.8					Tuffaceous Sandstone, black, .2' thick m. grain, subangular, very poorly sorted non calcareous w/ convoluted contacts, inclusions of siltstone	End of core Run 640.34
640.34 - 641.0					Siltstone 2.5/2 5PR, dark reddish brown, hard, slightly calcareous, laminated, highly petroliferous w/ cl% pyrite, speckled w/ nacholite and	
cont						

**NOTES:**

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/22 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schacke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 157 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
640.34-					And interbedded w/ v. thin beds of grayish white	
641.0					Tuffaceous Sandstone, f-m grain subangular	
CONT					poorly sorted, slightly calcareous, porous	
641.0-					Siltstone as above but less petroliferous	
					and abundant Tuffaceous Sandstone	
					stringers and thin thin beds	
644.8					Black Tuffaceous Sandstone .05' thick	
					As previously described	
644.8					Siltstone As above but highly	
					petroliferous, gradational contacts	
648.0					Hematite blobs? .01 x .03' for .1' interval	
650.2-					Siltstone As above but v. highly	
					petroliferous	
651.0					Siltstone As above but highly petroliferous	
653.65					Sharp break in nucholite content	

## NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/22 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 157 AFTER \_\_\_\_\_  
 LOGGED BY Novak

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
653.65					Siltstone 2.5/2 5YR, dark reddish brown hard, slightly calcareous laminated, petroliferous w/ c190 pyrite w/ very thin interbeds of Tuffaceous Sandstone, grayish white, f.m. grain, subangular, poorly sorted, slightly calcareous, porous	
655.82					Gradational contact	
655.82					Siltstone as above but speckled w/ nacholite and containing abundant stringers and thin interbeds of above tuffaceous sandstone	
663.89					Gradational contact	
663.89					Siltstone as above but v. highly petroliferous	
664.37					Gradational contact	End of
664.37-					Siltstone As above but highly petroliferous	Core Run
670.43					Stringers of nacholite	670.93 3

670.47 - 670.93

Missing .46' of recovery

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/23 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158 AFTER \_\_\_\_\_  
 LOGGED BY NovAK

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
670.93-						Siltstone 2 1/2 10YR very dark brown-black	
676.1						weathered surface black and extruding blue phosphorescent residue (oil)?, hard, mod calcareous, laminated w/ 2% pyrite, occasional blebs, stringers, and v thin beds Tuffaceous sandstone, grayish white f. grain, subangular, hard, slightly calcareous, porous. Mechanical fractures have tendency to break along the very thin beds. V. Highly petroliferous	
671.2						Fracture zone .1' long	
<del>671.2</del>						Gradational contact	
675.6						Pod of Tuffaceous Sandstone .1 x .25'	
676.29-						Vertical Fractures	
677.09'							
677.09						Parting plane horizontal	

NOTES: It's raining. Very hard to examine core

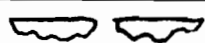
fuero

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/23 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
676.1					Gradational contact	
676.1 - 700.09					Siltstone, 3/2 7.5 YR, dark brown, hard, mod calcareous laminated w/ < 1% pyrite, occasional blebs, stringers and v thin beds of Tuffaceous sandstone as previously described. Occasionally speckled w/ nacholite. Highly petroliferous	
678.45 -					1' interval of highly petroliferous siltstone as previously described at 670.93. Gradational contacts	
680.5					Blebs of hematite? 	
684.68					<sup>1' thick</sup> Sandstone (Tuffaceous?) 3/2 5 YR, f. grain subangular, poorly sorted, thinly bedded w/ < 1% pyrite. Sharp contacts	

NOTES: Its raining Very hard to examine core

FLUORO

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/23 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158 AFTER \_\_\_\_\_  
 LOGGED BY NovAK

Page 49

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
685.68						Siltstone as previously described at 670.93 v. Highly petroliferous	
						Bottom contact gradational 1.0' thick	
686.0						Sandstone <sup>3' thick</sup> 3/2 SYR dk reddish brown	
						hard, slightly calcareous, f-m grain, subangular, poorly sorted, in pods w/ tar veins	
686.9						Blebs of hematite?	
687.45						Tuffaceous Sandstone .1' thick as previously described at 670.93	
693.42						Sandstone 3/2 SYR, dk reddish brown	
						hard slightly calcareous, f-m grain	
						subangular, poorly sorted, .17' thick	
						bed w/ sharp contacts and possible	
						Tar veins	

## NOTES:

fuoro

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/23 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

Page 50

DEPTH	SAMPLES					DESCRIPTION Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
694.7						Sandstone as above but .06' thick	
695.05						Sandstone as above but .08' thick and with convoluted lower contact	
697.7						Siltstone v. highly petroliferous as described at 670.93 gradational contacts	
698.75						Buffaceous sandstone pods, grayish white f-m grain, subangular, poorly sorted oozing oil in a few places, 0.3' interval	
699.31						3 linear strings of hematite? blebs	End of core run
							701.07

## NOTES:

fuoro

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/23 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158 AFTER \_\_\_\_\_  
 LOGGED BY Novak

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
701.07						Parting plane horizontal	
701.07-							
731.23						Siltstone, 2 1/2 10yr, very dark brown - 3 1/2 SYR dark reddish brown, hard, slightly calcareous laminated, highly petroliferous w/ 1% pyrite and w/ <sup>occasional</sup> stringers of hematite and tuffaceous sandstone and v thin beds of Tuff. ss	
704.5						Siltstone .7' thick as above but but M. highly petroliferous w/ black laminations and phosphorescent blue residue (oil?). Gradational contacts	
706.85						Siltstone as above 1.65' thick	
707.60						Tuffaceous Sandstone as above .07' thick but w/ some oil cont	
708.17						Tuffaceous Sandstone as above but in a <sup>poor</sup> .07 x .2' thick	

NOTES: Raining hard Work difficult

F-2000



# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/23 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500A

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
701.07-						Siltstone (cont.)	
731.23 (cont.)							
709.84						Sandstone 2/2 10yr, very dark brown, f-m grain, subangular, poorly sorted, <sup>slightly calcareous</sup> mod. hard, <del>fine grained</del> <sup>clayey</sup> , porous, 159' thick, sharp convoluted upper contact, sharp horizontal lower contact, mechanical fracture along upper contact	
713.28						Sandstone 3/3 10YR dark brown hard, med grain, subangular, poorly sorted, slightly calcareous, .31' thick sharp convoluted upper contact, sharp undulatory bottom contact	
718.05						Sandstone as described above at 709.84, .24' thick but sharp horiz upper contact, undulatory bottom contact	

NOTES: Still raining. Work proceeding slowly

END

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/23 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P. 2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES					DESCRIPTION Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
701.07-						(cont.) Siltstone 3/2 10YR, very dark	
731.23 (cont.)						brown - 3/2 5YR dark reddish brown	
						hard slightly calcareous, laminated, highly	
						petroliferous w/ 1% pyrite, and	
						stringers of hematite? and tuffaceous	
						sandstone and thin beds of Tuff ss	
718.10						Tuffaceous sandstone pods .05 x .3'	
719.3						Tuffaceous sandstone pods .07 x .35	
726.30						Tuffaceous sandstone <sup>bed</sup> <del>parts</del> .19' thick	
						Sharp horz. upper and lower contacts	
727.72'						Sandstone, 3/3 10YR dark brown	
						v.f. grain, subangular well sorted, hard	
						non-calcareous w/ 2% pyrite. Disturbed	
						upper contact, contains siltstone frags	End of
						bottom contact sharp. horizontal	core run
731.23							731.23

NOTES:

THIRD

# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-2 core

DATE 10/24/74 TITLE Sun Phillips

ELEVATION \_\_\_\_\_ DATUM MSL

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 158.5 AFTER \_\_\_\_\_

EQUIPMENT USED Schocke, Railing 2500

LOGGED BY NOVAK

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
* 731.00						Siltstone 2.5/2 2.5YR very dusky red	
758.26						2/2 10YR very dark brown, hard, slightly calcareous, laminated highly petraliferous w/ <1% pyrite; 1% gilsonite flecks occasionally interbedded within beds of tuffaceous sandstone f grain, subangular poorly sorted, stringers of hematite + tuffaceous sandstone, and blebs of hematite, porous	
731.0						Siltstone as above but w/ a slightly higher oil content. 3.56" thick w/ gradational lower contact	
731.27						Tuffaceous sandstone .05' thick, as described at 731.0 but with a slight oil content. Depositional upper contact Erosional bottom contact	
731.50						Tuff. Sandstone as above but and 0.05' thick	

NOTES: We had plus 100% recovery so that the end of the last run is 731 instead of 731.23

# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-2 core

DATE \_\_\_\_\_ TITLE Sun Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 158.5 AFTER \_\_\_\_\_

EQUIPMENT USED Schocke Failing 2500

LOGGED BY NovAK

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
731.0-						Siltstone (cont)	
758.6 cont							
734.20						Tuff Sandstone dark brown, hard f grain, subangular, poorly sorted non calcareous, siliceous cement? porous moderate oil content. Depositional contacts Top and bottom 0.07' <del>thick</del>	
736.30						Tuff Sandstone as above, .15' thick appears swirly, depositional upper contact erosional bottom contact	
737.30						Tuff. Sandstone as above but no oil bluish gray G/o 2.5Y. No oil content 0.03' thick	
737.74						Parting plane horizontal	
743.21						Parting plane "V" shape upward	

NOTES:	

# FIELD LOG OF BORING

PROJECT NO. Sun Phillips 74-068  
 DATE 10/24 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schlocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158.8 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
731.0 -						(cont.) Siltstone 2.5/2 25YR very dusky	
758.26						red 2 1/2 10YR very dark brown, hard	
CONT						slightly calcareous, laminated, highly	
						petroliferous w/ <1% pyrite, 1% gilsonite	
						flecks, occasionally interbedded w/	
						thin beds Tuffaceous sandstone, <sup>bluish gray</sup> grain	
						subangular, poorly sorted, siliceous cement	
						non-calcareous, stringers <sup>and</sup> blebs	
						of hematite and tuff ss.	
745.81						Tuff Sand stone as above 0.03' thick	
						erosional contacts top and bottom	
745.91						Tuff Sandstone as above 0.04' thick	
746.10						Siltstone as above but w/	
						slightly higher oil content 0.75' thick	
						gradational upper contact	
746.85						Depositional contact displaying	
						loading features	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
DATE 10/24 TITLE Sun Phillips  
START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
ELEVATION \_\_\_\_\_ DATUM MSL  
WATER LEVEL 158.5 AFTER \_\_\_\_\_  
LOGGED BY NOVAK

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:		
731.0-						(cont.) siltstone	
758.26 (cont.)							
746.85 - 748.	74					Tuffaceous Sandstone 3/2 7.5YR dark brown, f grain, subangular, poorly sorted siliceous cement, swirly 1.89' thick, hard w/ 2% gilsonite flecks, <1% pyroxenes some bitumin AT. 747.20 is 0.15' thick interbed of siltstone w/ erosional upper and lower contacts. For tuff sandstone upper contact is depositional, lower is erosional	Marker Bed
753.31						Siltstone as above 2.56' thick but slightly more petroliferous gradational contacts top and bottom.	

**NOTES:**

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# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-2 core

DATE 10/24 TITLE Sun Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 158.5 AFTER \_\_\_\_\_

EQUIPMENT USED Schlocke Failing 2500

LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
758.26					Gradational contact	
758.26-						
761.29					Siltstone 4/4 7.5YR brown - dark brown, hard, slightly calcareous, laminated, petroliferous w/ flecks of gilsonite and pyrite and mod. abundance of hematite stringers and laminations, relatively no tuff. ss.	End of core Run 761.29
761.29-						
789.25					Siltstone: 2.5/4 2.5YR dark reddish brown - 4/4 7.5YR dark brown, hard, non-slightly calcareous laminated petroliferous, w/ 1% pyrite, <1% gilsonite, occasional stringers of <sup>hematite</sup> pyrite, notable <sup>relative</sup> absence of thin beds, stringers and blebs of Tuffaceous sandstone	
767.82					Parting plane horizontal	

## NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/24 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. A-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 158.5 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
761.29-- <del>789.25</del> CONT				100	(cont.) siltstone	
767.9					Siltstone 4.12' thick as above but highly petroliferous black laminations appear to be truncated by the lighter ones. Gradational contacts top and bottom	
778.32					Top Sandstone 5/4 7.5' R, brown w/ grain, poorly sorted, subangular siliceous cement w/ < 1% gilsomite and pyrite and w/ chalcedony healed fractures, 0.12' thick, depositional contacts top and bottom.	
778.44					Parting plane horizontal	
781.32					chalcedony filled cavity .01x0.2'	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/24 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158.8 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	
761.29-					(cont.) siltstone	
789.25 cont						
782.95					Siltstone as above but highly petroliferous 1.1' thick, gradational contacts top and bottom	
783.65					Tuffaceous Sandstone pod 0.04' x 1.2' bluish gray, f grain subangular poorly sorted siliceous cement slightly calcareous	
785.6					Siltstone as above at 782.95 1.1' thick	
785.9					Tuffaceous sandstone .03' thick as above but oozing oil and water	
789.22					Parting plane horizontal at hematite lamination	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/24 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 coring  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158.8 AFTER \_\_\_\_\_  
 LOGGED BY NOUAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
789.25					Gradational lith and color contact	
789.25-					Marlstone 5/2 7.5YR brown	
791.25					mod hard, non calcareous but when powdered fisses very much, laminated	
75					w/ flecks of gilsomite and pyrite	
791.26					Linear string of smal cavities .005 x	End of
					01' lined w/ very soft <sup>white</sup> mineral non	core Run
					calcareous	791.25
						75
791.25-					Marlstone as above but	
793.79					displays grading. Bottom contact depositional	
793.79-					Sandy siltstone 3/6 10YR, dark yellowish	
794.0					brown, hard, non calcareous, w/ f grain	
					sand, grades downward, decreasing	
					in sand content. Grades into	
					claystone	
794.0					erosional contact	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/25/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158.5 AFTER \_\_\_\_\_  
 LOGGED BY Novak

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
794.0 -					Claystone 5/3 101R; brown, hard	
794.35					non-calcareous, Massive, 80% replaced	
					by chalcedony, white, hard-powdery	
					Powdery chalcedony most likely the	
					white mineral found at 791.26	
					Depositional lower contact displaying	
					loading features	
794.35 -					Siltstone, 4/2 2.5y, hard, non-	
799.86					calcareous, laminated w/c.0.5% gilsonite flecks	
794.12					Parting plane horizontal	
794.33					Parting plane along powdery chalcedony zone	
799.86					Gradational contact	

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# FIELD LOG OF BORING

PROJECT NO. 74-068-A  
 DATE 10/25/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schock Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158.5 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
799.86					Siltstone, 4/4 2.5x, hard, v. slightly calcareous, laminated w/ < 0.5% pyrite, occasional stringers of hematite and v. few tuffaceous sandstone stringers petroliferous	
805.05						
796.81					Parting plane horizontal	
797.84					Parting plane horizontal	
798.56					Parting plane horizontal	
799.36					Parting plane horizontal	
802.34					Siltstone as above but <sup>very</sup> highly petroliferous, 1.45' thick w/ frequent stringers of hematite and tuffaceous sandstone	

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# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-2 core

DATE 10/25/74 TITLE Sun Phillips

ELEVATION \_\_\_\_\_ DATUM MSL

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 158.5 AFTER \_\_\_\_\_

EQUIPMENT USED Schocke 2500 Failing

LOGGED BY NOVAK

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
805.00						Tuffaceous Sandstone 3/2 7.5YR	
805.18						f grain, subangular, poorly sorted siliceous cement w/ 1% glauconite flecks, c 1% pyrite, appears swirly, w/ bitumin and depositional upper contact, erosional lower contact	
805.20						Parting plane horizontal	
805.28-						Siltstone 6/4 - 7.5YR light brown-	
813.06						5/4 7.5YR brown, hard, non calcareous laminated w/ abundant blebs, stringers, and thin beds of Tuffaceous sandstone 5/0 2.5Y f-m grain subangular poorly sorted siliceous cement. Erosional upper contact depositional lower contact	Parting planes primary along Tuff. ss beds
806.52						Parting plane horizontal along Tuff ss bed	

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/25/74 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 158.5 AFTER \_\_\_\_\_  
 LOGGED BY NovAK

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DEPTH	SAMPLES					DESCRIPTION Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
805.28-						(cont.) Siltstone	
813.06							
CONT.							
807.5						0.5' interval of 0.05' convoluted	
						beds of black tuffaceous ss bleeding	
						oil	
808.5						Siltstone as above 2.5' but	
						black and highly petroliferous	
						Gradational contacts	
808.85						Black tuffaceous sandstone as above	
						0.15' thick bleeding oil	
808.96						Parting plane horizontal	
809.11						Black Tuffaceous sandstone 0.1' thick	
						bleeding oil	
809.45						Black tuffaceous sandstone 0.17'	
						thick bleeding oil	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. P-2 core  
 DATE 10/25 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schrocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158.5 AFTER \_\_\_\_\_  
 LOGGED BY Novak

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
805.28-					Siltstone (cont)	
813.06						
cont						
810.6					Black tuffaceous Sandstone	
					bleeding oil 0.05' thick	
810.64					Parting plane horizontal	
812.86					Parting plane horizontal	
813.06				→	Missing 0.19' of recovery here	
813.25-					Siltstone black 8/3 2.5y	
<del>813.25</del>					Hard non-calcareous v highly petro	
815.1					liferous w/ occasional stringers	
					and thin beds of tuffaceous	
					sandstone gradational lower	
					contact	
814.41					Parting plane horizontal	

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# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-2 core

DATE 10/25 TITLE SUN PH. 11, ps

ELEVATION \_\_\_\_\_ DATUM MSL

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 158.5 AFTER \_\_\_\_\_

EQUIPMENT USED Schocke Failing 2500

LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
814.41					Siltstone as above but dark	
822.38					brown-black, laminated and	End of
					only highly petroliferous	core run
					gradational upper contact	
						822.38
818.71					Parting plane horizontal	
* 822.38					Siltstone 4/3 SYR reddish brown	
853.50					hard, non-slightly calcareous	
					laminated w/c 1% pyrite, highly	
					petroliferous, tuffaceous sandstone	
					stringers and v thin beds and	
					stringers of hematite	
825.13					Tuffaceous sandstone, 3/2 7.5YR	Mahogany
					dark brown, f-m grain, poorly sorted	Marker?
					subangular, siliceous cement w/	
					2% gilsonite, <1% pyrite, minor	
					nahcolite, non calcareous and w/ truncated	
					siltstone bed in middle, 0.4' thick	
					depositional contacts top + bottom	

NOTES: 0.1' was left in hole

7-23-73 1-013



# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-2 core

DATE 10/25 TITLE Sun Phillips

ELEVATION \_\_\_\_\_ DATUM MSL

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 158.5 AFTER \_\_\_\_\_

EQUIPMENT USED Schocke Failing 2500

LOGGED BY Novak

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
822.38-					Siltstone (cont.)	
853.50 cont.						
825.19					Parting plane horizontal	
829.9					Tuffaceous sandstone as described at 825.13 but displays grading and bleeding gas + water depositional contacts top and bottom 0.05 thick	
830.05					Parting plane horizontal	
830.09					Tuffaceous sandstone as above but no grading and has cavities depositional contacts 0.03 thick	
830.09					Siltstone as described at 822.38 but highly petroliferous 1.8' thick gradational lower contact	

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/25 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P-2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158.5 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
822.38-					(cont) Siltstone 4/3 SYR reddish	
853.80					brown, hard, non-slightly calcareous	
<del>cont</del>					laminated w/ < 1% pyrite, highly	
					petroliferous Tuffaceous sandstone	
					stringers and within beds and	
					stringers of hematite	
834.16					Tuffaceous sandstone dark brown,	
					f grain, poorly sorted, subangular	
					siliceous cement non calcareous	
					bleeding water and gas 0.06' thick	
					depositional contacts top and bottom	
834.71					Parting plane horizontal	
837.0'					Tuffaceous sandstone pod. as	
					above but black w/oil 0.5x0.1	
839.3				→	Missing 0.32' recovery	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/25 TITLE Sun Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Schocke Failing 2500

BORING NO. P. 2 core  
 ELEVATION \_\_\_\_\_ DATUM MSL  
 WATER LEVEL 158.5 AFTER \_\_\_\_\_  
 LOGGED BY NOVAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
822.38 -					cont siltstone	
853.4 cont						
839.3					Parting plane horizontal	
839.68					Parting Plane horizontal	
840.6					Gradational contact	
840.6					Siltstone as above but v highly petroliferous, black 3.5' thick with large nacholite cavity at 841.6 - 842. Swirled Together w/ v highly petroliferous siltstone black	
841.36				→	Missing 0.31' of recovery	
841.65					Parting plane horizontal	
842.3					" " 15°	
843.0					" " 30°	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P. 2 core

DATE \_\_\_\_\_ TITLE San Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 158.5 AFTER \_\_\_\_\_

EQUIPMENT USED Schocke Failing 2500

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
822.38-					Siltstone cont	
853.4 cont						
844.11					Parting plane horizontal	
844.11				→	Missing 0.31 recovery here	
844.52					Parting plane horizontal	
844.52					Siltstone as above but v highly petroliferous 1.5' thick gradational lower contact	
845.65					Tuffaceous sandstone pod 0.2' thick bleeding gas and water, depositional contacts	
845.1					Parting plane horizontal	

NOTES:	

# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P. 2 core

DATE 10/25 TITLE Sun Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL 158.8 AFTER \_\_\_\_\_

EQUIPMENT USED Schlocke Failing 2500

LOGGED BY NARAK

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
822.38					cont siltstone	
853.4						
cont.						
845.76					Parting plane horizontal	
					Remaining siltstone high-v	End of
					high bleeding water and	core
					gas at 847.1 for a 1.65'	Run
					interval	853.4
853.5					SILTSTONE; brn-blk, v.f.,	
					slight-mod. calcareous, mod-petroliferous,	
					Laminated, trace Na-halite-cavities	
					mod. hard	
853.9					SILTSTONE, brn-dusky brn, v.f.	
					slightly calcareous, to slightly petroliferous	
					layers, laminations, mod. hard	
					- irregular contact -	
854.85					Tuff. SANDSTONE, brn-ltgraybrn,	
					v.f.-f., to vertical v. THIN zones -	
					petroliferous, to Na-halite cavities	
					hard, subangular	

NOTES: Drilled 853.5' but left 0.1" in hole

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/26 TITLE SUN Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED FALLING 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY C. DICKENS

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
854.5						SILTSTONE, brn - lt brn, v.f., slight-mod calcareous, laminations, slightly petriliferous, mod. hard parting plane at 854.82 horizontal	
854.85						SILTSTONE, dk blk-brn, v.f., mod. hard-hard, highly petriliferous, tr. marcasite + nacholite, laminations, slightly calcareous,	
857.80						SANDY SILTSTONE - SILTSTONE, lt brn - dusky brn., v.f., laminations, mod-calcareous, tr. buff s.s. layers - <sup>slightly</sup> non-calcareous; mod. HARD,	
860.0						Marlstone, lt brn - buff, v.f. highly calcareous, mod. hard, laminations, tr. s.s. stringers-layers, tr. nacholite cavities, tr. petriliferous layers; - Parting Plane @ 860.84	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/26 TITLE SUN Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED FAILING 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY C. DICKENS

~~P-2~~ Page 74

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
862.20					SILTSTONE - SANDY SILTSTONE, v.f., dk. red-brn - dk blk-brn, some highly petrificuous layers, slightly-mod calcareous, tr. thin S.S. layers, tr. nucholite crystals mod. HARD.	
863.4					Tuff. Sandstone, lt brn - gray brn vf.-m., poorly sorted, irregular contact - Top + bottom, mod. HARD	
863.6					SILTSTONE, dk gray brn. - brn, v.f.; highly calcareous, laminations, mod. - petrificuous, tr. tuff. S.S. zones - layers which are slightly calc. + v.f.-m. - poorly sorted Siltstone is mod. hard, S.S. is mod. Hard - hard	
865.2					(Interbedded-layered) Sandstone + Siltstone lt brn - brn, v.f. - f., highly calcareous, S.S. - mod. hard - hard. SILTSTONE - mod HARD	

## NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/26 TITLE SUN Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED FALLING 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY C. DICKENS

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
865.2						<del>CONTINUED</del> - CONTINUED -	
						Laminations, th. petriliferous layers + zones,	
						th. <sup>same</sup> nacholite crystals - cavities	
868.6						SANDY SILTSTONE, lt. brn - brn,	
						11. f., mod. calcareous, laminations,	
						th. s.s. layers - stringers, th. marcasite	
						+ nacholite, mod. - HARD P.P. - 869.37	
872.55						Tuffaceous Sandstone - lt gray brn,	
						v.f. - m., poorly sorted, th. pyrite +	
						nacholite, mod. - hard - hard, mod. calcareous	
						Parting PLANE - HORIZ. - 872.55 - irr. contact	TOP + BOTTOM
872.65						Siltstone (marlstone?), lt brn - gray brn	
						highly calcareous, some thin	
						dk petriliferous layers, mod. HARD,	
						th. s.s. layers - stringers	
874.15						SILTSTONE, brn - dk gray brn,	
						slightly calcareous, mod. HARD, mod. - slight	
						petriliferous, th. s.s. layers - stringers	

## NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/26 TITLE SUN Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SH. Failing 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY C. DICKENS

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DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
874.15						- CONTD. -	
						laminations, tr. marcasite, nacholite	
878.1						SANDSTONE + SILTSTONE, alt.	
						interlayers-beds, vf.-f., lt. brn.-brn.	
						highly Calcareous - (possibly marlstone	
						occurring) some nacholite crystals +	
						cavities, laminations, mod.-HARD.	
						Parting Plane (P.P.) - @ 880.57	
880.57						} highly fractured (evidently)	
to							
883.76						core lost	
- CORE RUN						883.76 - 913.46 -	
883.76						SILTSTONE, dk. blk-brn,	
						rf, non-fissile, laminations,	
						trace marcasite, "fractured in	
						PIECES" <del>fractured</del>	
						highly petroliferous, sl. calcareous	
						HARD - v. HARD	
						parting plane @ 883.76 + fractures	

## NOTES:

376.4 / 9.4 inches  
 15.1 / 5.1  
 34.0

TURNS

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/26 TITLE Sun-Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED Falling 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY C. Dickens

Page 77

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	
884.15					SILTSTONE, lt brn-tan, vf., highly calcareous, mod. hard, non-fissile, laminations,	
884.26					SILTSTONE, dk. blk-brn, v.f., highly petroliferous, laminations, non-fissile, Hard, sl.-mod. calcareous	
884.38					SILTSTONE, lt brn-TAN, vf., highly calcareous, plant(leaf) imprints, hard	
					- Parting plane Horiz @ 884.48 - trace of highly petroliferous layers	
884.66					SILTSTONE, dk brn - blk brn, vf., highly petroliferous, sl.-mod. calca- (thin tuff. s.s. at 894.69 - .76 - ) mod. Hard- dk gray brn, vf.-ly, sl. calcareous Hard	

Parting plane @ 884.75

Also Vert. Fracture @ 884.75

far occurring in Vert. Fract.

NOTES:

TURNS

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/26 TITLE SUN - PHILLIPS  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED FAIRING 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY C. DICKENS

PAGE 78

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition	Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	
885.02					SILTSTONE, lt brn - brn, vf., non-fissile, laminations, traces of thin petroliferous layers, sl. calcareous	
885.27					SANDY SILTSTONE, brn - dk brn, vf., vertical fracture @ 985.77 continuing down, tar occurring along fracture, water bleeding from formation, 985.27 to horiz parting plane @ 985.27 " " " 985.44 AND 985.90 " " " 985.86 AND 986.50 traces of thin buff. s.s. stringers layers traces of marcasite	
888.70					SILTSTONE, dk. blk-brn, vf., highly petroliferous, non-fissile, traces marcasite + mica flakes horiz parting plane 889.55 vertical fract. 889.55 - tar along Fract. horiz + vert. planes at 890.05	

NOTES:

turno

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/26 TITLE SUN-PHILLIP  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED FAIRING 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY C. DICKENS

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DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
890.20					SILTSTONE, dk gray blk., highly petroliferous, non-calcareous bleeding H <sub>2</sub> O, v. hard-hard vertical fract @ 890.20; tar along fract., key parting plane @ 890.20	
890.52					SILTSTONE, dk blk-brn, mod petroliferous, sl. calcareous, thin layers of higher % calc. hard-v. hard.	
					@ 892.05 Horiz Parting plane	
893.50					SILTSTONE, brn, non-sl. calc., traces of thin petrol. layers, non-fissile, hard	
					hard parting @ 895.72	
96.4						

## NOTES:

fuano

# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/26 TITLE SUN - Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED FAIRING 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY C. DICKENS

Ps- 80

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
896.90					SILTSTONE, dk gray blk, highly petrol., sl. Calcareous, non-fissile, laminations, hard	
					hard parting plane 897.30	
					" " " 897.45	
					" " " 897.60	
899.72					SILTSTONE & MARLSTONE	
					interlayers, brn - buff, -non fissile, m.s. - highly calc. + laminations	
					s.s. - sl. - mod. calc.	
					mod. hard - low hardness, traces of thin petrol., layers	
					hard parting plane @ 899.85	
904.97					SILTSTONE, dk gray brn + blk brn, highly petrol., sl. calcareous,	
					alternating zones + layers of	
					tuff sandstones - contacts are irregular.	

NOTES:

fuano

# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-7 Core

DATE 10/26 TITLE SUN Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED ~~Print~~ Failing 2500

LOGGED BY C. DICKENS

S.A. 10/26 with suggestions

pg. 81.

[illegible]

**NOTES:**

**Funway**

# FIELD LOG OF BORING

PROJECT NO. 74 068  
 DATE 10/27 TITLE SUN PHILLIPS SOHIO  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE FILLING

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY TURNER

PAGE 82

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
913-943.53					SILTSTONE $\frac{1}{2}$ 7.5 YR BROWN, HARD, LAMINATED, SLIGHTLY CALCAREOUS TO MODERATELY CALCAREOUS, DENSE MASSIVE HORIZ. PARTING PLANE 913.46, 913.58	913.92
913.58 — 913.59					VERY PETROLIFEROUS, BLEEDING	
913.7					BLACK STRINGERS - PETROLIFEROUS HORIZ. PARTING PLANE - 914.34, 914.7	
					915.38, 915.77, 916.8, 918.37	
M.B. ZONE					M.B. - 918.88 - 924.43. CAUSED BY DROPPING OF CORE.	
920 - 920.02					PETROLIFEROUS ZONE, VERY SLIGHT BLEEDING	
920.4 - 920.41					PETROLIFEROUS ZONE, VERY SLIGHT BLEEDING.	
922.85 - 922.86					PETROLIFEROUS ZONE, NO BLEEDING	
924.43 - 924.55					PETEOLIFEROUS ZONE, HEAVY BLEEDING, SILTSTONE HOMOGENEOUS AS ABOVE BUT MORE PETROLIFEROUS AND BROWNER IN COLOR.	

## NOTES:

# FIELD LOG OF BORING

PROJECT NO. 74 068  
 DATE 10/27 TITLE SUN Phillips SOHO  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE FAILING

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY TURNER

PAGE 83

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
928.8 - 929						PETROLIFEROUS ZONE, LAMINATED, SLIGHT BLEEDING	
928.5 - 928.56						PETROLIFEROUS ZONE, LAMINATED, SLIGHT BLEEDING.	
930.46 - 930.9						ZONE OF HEAVY oil ACCUMULATION, INTENSE BLEEDING	
930.9						PARTING PLANES- HORIZONTAL - IRREGULAR - 936.47, 937.9	
936.47 - 939.5						ZONE OF HEAVY oil ACCUMULATION, INTENSE BLEEDING - LAMINATIONS OF oil ACCUMULATION APPEAR TO BE DISPLACED FROM 937- 938. DISPLACEMENT < .3 INCHES. HEAVIEST oil ACCUMULATION - 937.5 - 938	
942.83						PARTING PLANE HORIZONTAL - 943.3	
943.53						ROCK VERY HOMOGENEOUS THROUGHOUT CORE RUN -	END OF RUN 943.53

## NOTES:

TURNER



# FIELD LOG OF BORING

PROJECT NO. 74 068  
 DATE 10/27 TITLE SUN Phillips SOTTO  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SHOCKE FALING

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY TURNER

PAGE '84

DEPTH	SAMPLES				DESCRIPTION Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
943.53	TD	973.5			SILTSTONE, 5/1 10 YR GRAYISH BROWN, 95% QUARTZ, 5% OTHER INCLUDING MICA AND PETROLIFEROUS CONSTITUENTS, HARD TO VERY HARD, VERY SLIGHTLY CALCAREOUS TO SLIGHTLY CALCAREOUS. LAMINATED, PETROLIFEROUS BUT NOT BLEEDING; IN SOME PARTS AS TO BE NOTED.	7.1 FT/HR
943.9 - 943.95					LAMINATIONS GENTLY UNDULATING	
947.53 -		947.86			FRACTURE ZONE - VERT & HORIZ.	
947.86 -		949.73			VERTICAL FRACTURE	
950.06 -		950.08			DARK BAND - PETROLIFEROUS?	
950.08					HORIZONTAL PARTING PLANE	
951.41					HORIZONTAL PARTING PLANES	
					953.98; 954.25; 954.45	
					954.74; 956	
958.0 -		958.2			LAMINATIONS DISFIGURED AND CURVED, POSSIBLE TURBULENT DEPOSITION -	

## NOTES:

fusco

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P-2 CORE

DATE 10/27 TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FALLING

LOGGED BY TURNER

P. 85

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
960 - 960.2	2				DARK CONVOLUTE BEDDING	7.1 FT/HR
961.42					HORIZONTAL PARTING PLANE	
964.25 - 965.8					LAMINATIONS BECOME DARKER	
					POSSIBLY MORE PETROLIFEROUS	
966.8					HORIZONTAL PARTING PLANE	
967.7					HORIZONTAL PARTING PLANE	
968.94					" " "	
968.89 - 968.94					BAND OF DARK COLORED SILTSTONE	
					PETROLIFEROUS	
971.96					HORIZONTAL PARTING PLANES	
					972.3 , 972.96 , 973.2	
973.5 - 973.7					VERY DARK SILTSTONE, POSSIBLY	
					PETROLIFEROUS, GAS BEING	
					EMITTED FROM CORE IN	
					FORM OF BUBBLES	
973.7 TO 974.29					LOST RECOVERY - POSSIBLY	
					TO BE PICKED UP ON	
					NEXT RUN FROM 974.29	
					ON -	

NOTES:

TURNER

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P-2 CORE

DATE 10/27 TITLE SUN PHILLIPS

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FAILING

LOGGED BY M. TURNER

S.A. 10/28 suggestion; composition?

P:86

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
974.29	—	START OF CORE	OF RUN		CORE FRAGMENT IS ALL THAT WAS RECOVERED FROM 973.66 TO 976.38	
976.38 —	979.02				Siltstone 5/2 10YR GRAYISH BROWN LAMINATED, LAMINATIONS MOSTLY HORIZ. BUT SOME IRREGULAR ONES EXIST, HARD TO VERY HARD, GAS EMITTED AT 977.58, SLIGHTLY TO MODERATE CALC.	
979.02 —	979.1				SANDSTONE, 7/2 10YR VERY PALE BR. MEDIUM GR. MOD. WELL SORTED	
979.1 —	983.62				Siltstone 5/2 10YR GRAYISH BROWN LAMINATED, SLUMP FEATURE .3 INCH OFFSET AT 982.5, PETROLIFEROUS BUT NOT BLEEDING - 980.55 - 980.59 - SS INTERBED ALSO FRACTURE HERE.	
983.62 —	983.79				SANDSTONE 4/2 5Y OLIVE GRAY MEDIUM GRAIN, HARD TO V. HARD	
983.79 —	992.98				Siltstone 5/2 10YR GRAYISH BROWN LAMINATED, HARD TO VERY HARD, NON-CALC. TO CALCAREOUS	

## NOTES:

fuero

# FIELD LOG OF BORING

PROJECT NO. 74068

BORING NO. PZ CORE

DATE 10/28 TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FALLING 2500

LOGGED BY MATT TURNER

S.A. 10/28 suggestion; composition?

P-87

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
984.49 -	985.10				FRACTURE ZONE	
					HORIZ. PARTING PLANES - 984.46, 985.79	
					987.96, 988.67, 990.65, 992.98	
992.98 -	993.32				4/1 SY DARK GRAY, SANDSTONE,	
					LENTICULAR AND IRREGULAR STRUCTURE	
993.32 -	998.98				SILTSTONE, 5/2 SY OLIVE GRAY	
					LAMINATED, HARD TO VERY HARD,	
					993.32 - 994.06 - HIGHLY OFFSETTED	
					BEDS AND SLIGHTLY DARKER THAN	
					REST OF SECTION - PETROLIFEROUS?	
					PARTING PLANES AT 992.96, 994.06	
					999.52, 1003.05, 1004.25, 1005.51, 1005.94	
998.98 -	999.18 -				SANDSTONE 5/2 10 YR GRAYISH BROWN	
					PETROLIFEROUS, SLIGHT BLEEDING AND	
					GAS EMITTED, MEDIUM GRAIN - HARD	
999.18 -	1005.94				SILTSTONE 5/2 SY OLIVE GRAY	
					HARD TO MOD HARD TO U. HARD, LAMINATED	
					1002.9 - 1003.02 - SS INTERBEDDED	
					SLIGHTLY CALC. TO NON CALC.	
					LAMINATIONS HORIZ.	

NOTES:

fuoro

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P-2 CORE

DATE 10/28 TITLE SUN PHILLIPS

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FALLING

LOGGED BY MATT TURNER

P. 88

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1005.99 -	1009.5				SILTSTONE 6/2 SY LIGHT OLIVE GRAY, FAINTLY LAMINATED, MOD. HARD TO VERY HARD, HORIZONTAL PARTING PLANE AT 1007.62, 1007.77	9.7 FT/HR
					1006.91 - MECHANICAL FRACTURES THROUGHOUT -	
1009.5 -	1014.0				SILTSTONE, 4/2 TO 3/2 SY OLIVE GRAY TO DARK OLIVE GRAY CONVULUTED BEDDING, LAMINATIONS IRREGULAR - PETROLIFIC? HORIZONTAL PARTING PLANE 1011.72, 1011.79	
1014.0 -	1019.2				SILTSTONE, 6/2 SY LIGHT OLIVE GRAY, FAINTLY LAMINATED, HARD TO MOD. HARD, DARK LAYER .2 INCH AT 1015' POSSIBLY PETROLIFIC, SL. CALC.	
1019.2 -	1019.6				SILTSTONE, 4/2 SY DARK OLIVE GRAY CONVULUTE BEDS, PETROLIFIC.	

NOTES:

turner

# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P-2 CORE

DATE 10/28 TITLE SUN PHILLIPS

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FAILING

LOGGED BY MATT TURNER

P. 89

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1019.6 -	1022.6				Siltstone, 6/2 SY LIGHT OLIVE GRAY, FAINTLY LAMINATED, LAMINATIONS FAIRLY HORIZONTAL AND EVEN, HARD TO VERY HARD,	
1022.6 -	1024.5				Siltstone, SAME AS ABOVE BUT LAMINATIONS ARE DARKER	
1024.5 -	1024.7				PETROLIFEROUS ZONE - OIL BLEEDING FROM CORE, SOME GAS BEING EMITTED ALSO.	
1024.7 -	1027.8				Siltstone 6/2 SY LIGHT OLIVE GRAY, LAMINATIONS DARK TO VERY FAINT, BEDDING VERY REGULAR AND STRAIGHT	
1027.8 -	1028 -				VERY DARK Siltstone - POSSIBLY PETROLIFEROUS; BUT NOT BLEEDING	
1028 -	1034.0				Siltstone 6/2 SY LIGHT OLIVE GRAY LAMINATIONS FAINT -	
					P.P. - 1016.6, 1019.9, 1022.2, 1024.6, 1027.62, 1029.1, 1032.62	

## NOTES:

Turner

# FIELD LOG OF BORING

PROJECT NO. 74068

BORING NO. P-2 CORE

DATE 10/28 TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL SS? AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FAILING

LOGGED BY MATT TURNER

90

DEPTH	SAMPLES				DESCRIPTION Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1034.85 -	10	40.5			SILTSTONE, 5/2 SY OLIVE GRAY, 98% QUARTZ 2% OTHER INCLUDING MICA & PETROLIFEROUS CONSTITUENTS HARD, LAMINATED. PARTING PLANES @ 1035.42 1036.2, 1039.95, 1040.13 FRACTURE ZONES @ 1035.42 TO 1036.2. MECHANICAL BREAKS @ 1040.13 TO 1040.5	11.1 FT/HR
1040.5 -	10	63.3			LOST RECOVERY	
1063.3	TO	1064.9			CORE FRAGMENTS - WELL ROUNDED BY CORE BARREL - POSITION UNKNOWN -	
1064.9 -	TO	1066.9			SILTSTONE, 6/4 10 YR LIGHT YELLOWISH BROWN, HARD TO MOD HARD, LAMINATED, LAMINATIONS HORIZONTAL EXCEPT FOR CONVULUTED LAMINATIONS SOME SANDY SILTSTONE AT 1066.5 - 1066.7, MOTTLED COLOR NON-CALC.	

## NOTES:

fuero

# FIELD LOG OF BORING

PROJECT NO. 74068  
 DATE 10/29 TITLE \_\_\_\_\_  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE, FAILING

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 160' AFTER 10/29  
 LOGGED BY M. TURNER

P. 91

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
1066.9 -	TD	1072	.45			SILTSTONE, 3/2 SY DARK OLIVE GRAY, HARD TO U. HARD, DARK COLOR POSSIBLY DUE TO OIL. LAMINATIONS 90% HORIZONTAL 10% CONVOLUTE, SLIGHTLY CALCAREOUS PARTING PLANES @ 1067.15, 1067.55, 1067.62	
1072.45	TD	TD	1072.6			SANDY SILTSTONE, CONVULTED STRUCTURE.	
1072.6	TD	1074	.6			SILTSTONE 6/4 BYR LIGHT YELLOWISH BROWN, LAMINATIONS HORIZONTAL TO 1073.85 AND CONVOLUTE TO 1074.6 PARTING PLANES @ 1072.75 & 1073.85	
1074.6 -	TD	1088	.2			SILTSTONE 3/2 SY DARK OLIVE TO 5/3 SY OLIVE, LAMINATIONS HORIZONTAL, HARD TO MOD HARD, SLIGHTLY CALC, HOMOGENOUS THRU OUT SECTION P.P. HORIZONTAL AND SMOOTH	GRAY

## NOTES:

TURNER



# FIELD LOG OF BORING

PROJECT NO. 74-068  
 DATE 10/29 TITLE Sun-Phillips  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE FALLING 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 160 AFTER \_\_\_\_\_  
 LOGGED BY MATT TURNER

P. 92

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1088.2	-	1092.83			SILTSTONE 7/3 10 YR VERY PALE BROWN TO 5/3 10 YR BROWN LAMINATED. HARD TO VERY HARD. OIL ZONE 0.2 INCHES 1091.1 to 1091.3 AND FROM 1091.5 to 1091.7 - OIL AND GAS BEING EMITTED FROM CORE - VERTICAL PARTING PLANE - 1092.16 - 1092.8	
					PARTING PLANES AT 1070.85, 1070.89, 1072.75, 1073.85, 1075.25, 1075.7, 1077.71, 1086.25, 1086.33, 1090.65, 1091.17, 1092.16 -	
1092.83	-	1096.7			NO RECOVERY - 3.87 FEET	
1096.7	-	1106.15			SILTSTONE, 5/3 to 4/4 5 Y OLIVE 99% Quartz, 1% OTHER (MICA, ETC.), FINELY LAMINATED, HORIZONTAL & EVEN, HARD TO VERY HARD, V. Slightly CALC., VERY HOMOGENEOUS.	11 ft/hr

NOTES:	

# FIELD LOG OF BORING

PROJECT NO. 74 068  
 DATE 10/30 TITLE SUN PHILLIPS SOTTO  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE FALLING 2500

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL 155 AFTER 1126 FEET  
 LOGGED BY MATTHEW TURNER

P. 93

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1108.15	TO	1108.	15		SANDY SILTSTONE 7/2 SY LT. GRAY	11 FT/HR
					TO 2/3 10YR DARK BROWN,	
					THICK STRINGERS OF PETROLIFEROUS	
					SANDY SILTSTONE < 1 INCH - BLEEDING OIL	
					SOME GAS, LAMINATED CONVOLUTE TO STRAIGHT	
1108.15	TO	1110.	35		SILTSTONE 7/2 SY LT GRAY, FAINTLY	
					LAMINATED, HARD TO VERY HARD	
1110.35	TO	1113.	9		4/3 SY SILTSTONE, OLIVE, IRREGULAR	
					BEDDING, CONVULUTED LAMINATIONS	
					SOMETIMES LENTICULAR, HARD,	
1113.9	TO	1116.	42		SILTSTONE 4/2 SY OLIVE, STRAIGHT	
					LAMINATIONS - HORIZ.	
1116.42	TO	.6			SILTSTONE, 7/3 SY PALE YELLOW	
					UNLAMINATED	
1116.6	TO	1123.	45		SILTSTONE 7/2 SY LT GR. LAMINATIONS HORIZ	
					- PARTING PLANES @ 1096.7, .9; 1098.01, .25, .98;	
					1099.4, .68; 1102.16, .49, .98, 1103.38, .73	
					1103.09, .33, .58; 1103.12, .62; 1104.32	
					1109.96, .18, 1112.48 1113.07; 1115.00	
					1118.27, .4; 1129.43 → 1122.37	

NOTES:

turner

# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-2 CORE

DATE 10/30 TITLE SUN-Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED Schocke FAIRING 2500

LOGGED BY MATT TURNER

P. 94'

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1123.85	to	1125.01	01		0.45' Lost RECOVERY	10.1 F+/hr
					Rubble ZONE - CORE FRAGMENTS,	
					WELL ROUNDED FROM CORE BARREL,	
					EXACT ORIENTATION UNKNOWN -	
1125.01	to	1132.75			Siltstone, 4/2 SY OLIVE GREY,	
					FAINTLY LAMINATED (HORIZONTAL),	
					HARD TO VERY HARD, S. CALC.,	
					P.P. - 1125.01, 1127, 1127.28;	
					LENTICULAR BODY OF SILTSTONE, BUFF	
					COLOR - 1131.83 - 1131.9	
1132.75	to	1136.14			Siltstone, 7/1 SY Light GREY to	
					4/4 SY, PROMINENT LAMINATIONS,	
					98% HORIZ, 2% CONVOLUTE, HARD	
					TO V. HARD, SOME INTERBEDS OF	
					SANDY SILTSTONE < .1 inch	
					thick, P.P. - 1132.91, 1134.92, 1136.14	
1136.14	to	1146.79			4/3 SY OLIVE SILTSTONE,	
					FAINTLY LAMINATED, SOME LENTICULAR	
					SANDY SILTSTONE, BEDS, BUFF COLOR	
					1146.6 - 1146.7 BLEB OF PETROLIFEROUS S.S.	

## NOTES:

Turner

# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-2 CORE

DATE 10/30 TITLE SUN-Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCK FAIRING 2500

LOGGED BY MATT TURNER

P. 95

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
						1141.92 - 1142. IRREGULAR BED	10.1 ft/hr
						OF SANDY SILTSTONE - BUFF COLOR	
						P.P. - 1136.14, 1136.37, 1139.56,	
						1141.92, 1144.93, 1146.83	
1146.83	to	1147.00				SANDSTONE, TRUFFACEOUS, 7/2 SY	
						LIGHT GREY, MOD. WELL SORTED, SUBANGULAR,	
						FINE TO MED. GRAINED, MICA & PYRITE, MINOR	
						CONSTITUENTS - MOD HARD TO V. HARD,	
						SLIGHTLY FRIABLE, IRREGULAR LAMINATIONS.	
1147 - 1147.5						SANDY SILTSTONE 6/1 SY LIGHT GREY TO	
						6/3 SY PALE OLIVE, V. FINE-GRAINED	
						LAMINATIONS HORIZONTAL BUT IRREGULAR	
						MOD HARD TO HARD.	
1147.5	to	1148.25				SANDY SILTSTONE 6/1 SY LIGHT GREY	
						LAMINATIONS CONVOLUTE.	
1148.25	to	1149.50				SANDY SILTSTONE. 6/1 SY LIGHT	
						GREY LAMINATIONS HORIZONTAL BUT	
						IRREGULAR	
1149.50	to	1155.62				6/1 SY LIGHT GREY TO 6/3 SY	
						PALE OLIVE SANDY SILTSTONE. SLIGHTLY	
						HARDER THAN ABOVE	

## NOTES:

TURNER

# FIELD LOG OF BORING

PROJECT NO. 74-068

BORING NO. P-2 CORE

DATE 10/1/74 TITLE Sun-Phillips

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED Schocke Failing 2500

LOGGED BY MATT TURNER

P. 96

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**NOTES:**

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# FIELD LOG OF BORING

PROJECT NO. 74068  
 DATE 10/31 TITLE SUN PHILLIPS SOHIO  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE FAILING

BORING NO. P-2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY MATT TURNER

97

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1155.62 -	1156.5				SILTSTONE, 3/7 SY PALE YELLOW PARALLEL LAMINATIONS, HARD TO VERY HARD, SLIGHTLY MICACEOUS	PARTING PLANES @ ↓ 1155.68 1156.04 1156.13 1158.68
1156.5 -	1156.9				SILTY SANDSTONE, COLOR VARIED FROM 3/7 SY PALE YELLOW TO VERY DARK GREY	1156.97 1157.08 1158.2 1159.42 1164.63
1156.9 -	1159.42				SANDSTONE, 7/2 LIGHT GRAY SY CONVOLUTE BANDING, SOME LAMINATIONS 5° FROM HORIZONTAL	1165.1 1171.1 1171.4 1173.6
1159.32	1164.63				SILTSTONE 5/3 SY OLIVE, HORIZ. LAMINATIONS, HARD TO V. HARD	
1164.63	1164.75				SANDSTONE, 2S/SY, FINE TO MEDIUM GRAIN, HARD	
1164.75	1170.3				SILTSTONE, 4/4 SY OLIVE LAMINATED SILTSTONE HAS LAMINATIONS - HORIZ.	
1170.3 -	1178.37				SILTSTONE, 5/2 SY OLIVE GRAY LAMINATIONS - HORIZ. SOME DARK BANDING @ 1172	
					BUFF COLOR @ 1170.3	

## NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74 068

BORING NO. P2 CORE

DATE \_\_\_\_\_ TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FALLING

LOGGED BY MATT TURNER

98

DEPTH	SAMPLES				DESCRIPTION Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1178.37 →		1183.07			SILTSTONE 5/3 SYR REDDISH BROWN, HARD TO VERY HARD LAMINATED, PARTING PLANES @ 1178.37, 1179.12, 1179.75, 1180.2 1180.35, 1180.6, 1183.07	10 FT/HR
1183.07 →		1183.1			SANDY SILTSTONE, 4/1 SYR DARK GRAY PARTING PLANE, 1183.12	
1183.1 →		1183.32			SILTSTONE 5/3 Sy REDDISH BROWN	
1183.32 →		1183.45			SANDY SILTSTONE, 4/1 SYR DARK GRAY	
1183.45 →		1183.45			SILTSTONE 5/3 Sy REDDISH BROWN	
1183.45 →		1184.12			SANDSTONE, 7/1 SYR LIGHT GRAY FINE TO MEDIUM GRAIN, 95% QUARTZ	
1184.12 →		1190.65			SILTSTONE 6/2 Sy LIGHT OLIVE GRAY, LAMINATED, HARD TO U. HARD	
1190.65 →		1194.5			SILTY SANDSTONE, 6/1 Sy GRAY CONVULUTED LAMINATIONS 95% QUARTZ PARTING PLANES 1191.2, 1192, 1196.38 1196.78, 1197.4, 1197.87, 1198.34 1198.4, 1200, 1201.42, 1203.3, 1203.48 1204, 1206.12, 1206.54, 1207.85	

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# FIELD LOG OF BORING

PROJECT NO. 74068  
 DATE 10/31 TITLE SUN PHILLIPS SOHIO  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE, FAIRING 2500

BORING NO. P2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY MATTHEW TURNER

49

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1194.5	→	1208.	SS		SANDY SILTSTONE 7/1 SY LIGHT	10 FT/HR
					GRAY, LAMINATED, SILTY SANDSTONE	
(1208.55	→	1209.	08 →	LOST)	BEDS <.1 FOOT THICK @ 1199.85	
					1200.05, 1204.05, 1204.07	END OF CORE RUN
1209.08	→	1211.2			SILTSTONE, 5/1 SG GREY GREEN,	
					LAMINATED, HARD TO U. HARD,	
					1209.41 - .42 + BAND OF GRAY SS.	10/FT. HR
					PARTING PLANE @ 1211.45	
1211.2	→	1211.72			SANDY SILTSTONE 6/1 GRAY SY	V.F.G.
					1211.62 - STRINGERS OF PETROLIFEROUS	
					S.S.; 1211.78 - PARTING PLANE	
1211.78	→	1211.9			SANDSTONE 2.5/2 SY BLACK, MED. GR.	
					PETROLIFEROUS, SOME BLEEDING,	MOD. W. SORT
1211.9	→	1212.05			SANDY SILTSTONE 6/1 GRAY SY	V.F.G.
1212.05	→	1212.38			SANDSTONE 2.5/2 SY BLACK	
					PETROLIFEROUS, BLEEDING	
					- PARTING PLANES @ 1211.78	
					1211.8, 1212.05, 1212.35	
1212.38	→	1232.9			SILTSTONE 6/2 SY LIGHT OLIVE	
					GRAY, LAMINATED, HARD TO U. HARD	

## NOTES:

TURNER



# FIELD LOG OF BORING

PROJECT NO. 74068  
 DATE 11/1/74 TITLE SUN PHILLIPS SOHIO  
 START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 EQUIPMENT USED SCHOCKE FALLING 2500

BORING NO. P2 CORE  
 ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_  
 LOGGED BY MATT TURNER

1000'

DEPTH	SAMPLES					DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
						PARTING PLANES @ 1215.2	
						1215.62, 1216.12, 1216.22,	
						1218.68, 1219.85, 1223.17,	
						1223.87, 1234.15, 1235.1	
1232.9	→	1235.1				Siltstone 4/2 Sy OLIVE GRAY,	
						HARD TO VERY HARD	
						LENTICULAR MASSES OF BUFF COLORED	
						Siltstone, LAMINATIONS IRREGULAR	END CORE RUN
1235.2	→	1238.4				NO RECOVERY	
1238.4	→	1240				Siltstone 4/3 Sy OLIVE, LAMINATED	
						HARD TO U. HARD.	
1240-	→	1243.9				Siltstone 7/3 Sy PALE YELLOW	
						FAINTLY LAMINATED, HARD.	
						MANY HORIZONTAL PARTING PLANES	
1243.9	→	1243.95				SANDSTONE, 3/2 Sy DARK OLIVE	
						GRAY, BIOTITE ABUNDANT, MOD.	
						HARD	
1243.95	→	1247				Siltstone 5/3 Sy OLIVE, HARD	
						LAMINATIONS PROMINANT AND	
						HORIZONTAL,	

NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74068

BORING NO. P2 CORE

DATE 11/1/74 TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FALING 2500

LOGGED BY MATTHEW TURNER

101

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1247 -	→	1247	.15		SANDSTONE, 2.5/1 SY. BLACK,	
					PETROLIFEROUS, MODERATELY HARD	
1247.15	→				MICACEOUS	
		1247.5			SILTSTONE, 3/2 SY DARK OLIVE GRAY	
					LAMINATED, HARD.	
1247.5	→	1250	.6		SILTSTONE 5/4 SY OLIVE, FAINTLY	
					LAMINATED	
1250.6	→	1252	.2		SILTSTONE 3/2 SY DARK OLIVE GRAY	
1252.2	→	1252	.3		SANDSTONE 2.5/1 SY BLACK	
					IRREGULARLY BEDDED, MODERATELY	
					HARD, FRIABLE	
1252.3	→	1255			SILTSTONE 3/2 SY DARK OLIVE GRAY	
					LAMINATIONS HORIZONTAL & REGULAR	
1255	→	1257			SILTSTONE 7/4 2.5 SY LIGHT BROWN	
					FAINTLY LAMINATED	
1257	→	1258	.2		SILTSTONE 3/2 5/4 DARK OLIVE	
					GRAY, LAMINATED,	
1258.2	→	1259	.1		SANDY SILTSTONE, T/1 SY LT. GRAY	
					CONVULUTED BEDDING, MOD.	
					HARD -	

NOTES:

Turner

# FIELD LOG OF BORING

PROJECT NO. 74068

BORING NO. P-2 CORE

**DATE** 10/1 **TITLE** \_\_\_\_\_

**ELEVATION** \_\_\_\_\_ **DATUM** \_\_\_\_\_

**START\_\_\_\_\_COMPLETE\_\_\_\_\_**

**WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_**

EQUIPMENT USED SCHOCKE FALLING 2500

LOGGED BY MATTHEW TURNER

102

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1259.1	→	1259.	3S		SANDY SILTSTONE, 3/2 SY DARK GRAY TO VFG	
					OLIVE GRAY, LAMINATED	
1259.3S	→	1266.	.S		SILTSTONE, 6/4 SY OLIVE,	
					LAMINATED, HARD TO U. HARD	
1266.5	→	1267.	.12		SANDY SILTSTONE, VFG, LIGHT BROWN	
				—	PARTING SURFACES @ 1238.4,	
					1238.8, 1239.5, 1240.3 TO	
					1244.39 → NUMEROUS HORIZ P.P.,	
					1246.1, 1246.6, 1247.03, 1248.46	
					1250.55, 1252.3, 1259.39,	
					1261.75, 1263.1, 1265.29	
					1266.62	
				—	HORIZONTAL SURFACES ABOVE ↑	
				—	VERTICAL FRACTURE @ 1248.76 -	
					1251.1	

**NOTES:**

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# FIELD LOG OF BORING

PROJECT NO. 74068

BORING NO. P2 CORE

DATE \_\_\_\_\_ TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FALLING 2500

LOGGED BY MATT TURNER

103.

DEPTH	SAMPLES				DESCRIPTION	REMARKS
	No.	Type	Blows or Force	Recovery, Condition		
1267.12	→	1268.1			Siltstone 7/3 PALE YELLOW <sup>5/4</sup> LAMINATED	10' / HR
					HARD TO U. HARD, SMALL BRECCIA ZONE -	
					1" THICK AT TOP OF SECTION; P.P. 1267.12, SB	
1268.1	→	1268.15			SANDY SILTSTONE 3/1 SY V. DARK	
					GRAY, IRREGULAR STRUCTURE,	
1268.15	→	1270.4			Siltstone 7/3 PALE YELLOW <sup>5/4</sup> ,	
					LAMINATED, LAMINATIONS IRREGULAR	
1270.4	→	1277.21			Siltstone 3/2 SY DARK OLIVE	
					GRAY, LAMINATED, HARD TO VERY	
					HARD. P.P. @ 1271.57, 1271.83	
					1272.66, 1274.7 1275.68	
					1277.21	
1277.21	→	1277.49			2.5/1 SY BLACK, SANDSTONE, <sup>"Tar Sand"</sup>	P.3 P.4
					MODERATELY HARD, FRIABLE, HIGHLY	CORRELATABLE
					FRACTURED, CRUMBLY. PP. @ 1277.21	
					1277.49, 1277.55	
1277.49	→	1279.92			Siltstone, 8/4 2.5 Y LIGHT BROWN	
					LAMINATED.	
1279.92	→	1285.33			Siltstone 3/2 SY DARK OLIVE	
					GRAY, LAMINATED, HARD	

## NOTES:

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# FIELD LOG OF BORING

PROJECT NO. 74068

BORING NO. P2 CORE

DATE \_\_\_\_\_ TITLE \_\_\_\_\_

ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_

START \_\_\_\_\_ COMPLETE \_\_\_\_\_

WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_

EQUIPMENT USED SCHOCKE FALLING 2500

LOGGED BY MATT TURNER

LAST PAGE

DEPTH	SAMPLES					DESCRIPTION Soil type, color, consistency, moisture condition, grain-size distribution, bedding, geologic details:	REMARKS
	No.	Type	Blows or Force	Recovery, Condition			
1285.33		→	1287.5	S		Siltstone, 7/3 Sy PALE YELLOW, IRREGULAR LAMINATIONS, HARD TO VERY HARD, PP @ 1282.25 1282.68, 1282.95, 1284.15, 1284.75 1285.33, 1285.54, 1285.6, 1285.8 1287.5	10' / HR
1287.5		→	1287.65			SANDY Siltstone, BUFF COLOR	
1287.65		→	1295.75			Siltstone 3/2 Sy DARK OLIVE GRAY TO B/4 2.5 LIGHT BROWN, LAMINATED. PP @ 1288.95, 1289.1, 1289.35, 1289.65, 1292, 1292.1, 1295, 1295.91, 1296.15, 1296.6 1296.88	
1295.75		→	1296.88			SANDSTONE, 8/3 Sy PALE yellow FINE GRAIN, TUFFACEOUS	
						TOTAL DEPTH P-2 CORE —1296.88—	

NOTES:	