

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF MINES

REGION V

MORGANTOWN RESEARCH CENTER

P. O. BOX 880 COLLINS FERRY ROAD MORGANTOWN, WEST VIRGINIA

May 4, 1961

Memorandum

To:

William E. Eckard, Assistant Chief, Morgantown

Petroleum Research Laboratory

From:

William M. Nabors, Petroleum and Natural Gas Engineer,

Morgantown Petroleum Research Laboratory

Subject: Coring operation at the Eastern Interior Oil Company's

Well No. 2-A on the W. B. Wright farm in the Spruce Creek Field near Newburn, West Virginia. (Reservoir

Evaluation Well No. 3)

The following information is for record:

Company - Eastern Interior Oil Company

Well location and number -

State - West Virginia

County - Ritchie

District - Union

Field - Spruce Creek

Farm - W. B. Wright

Well No. - 2-A

Rig floor elevation - 1130.7

Reference datum

Coring operation - rig floor

Logging operation - rig floor

Top of rig floor to ground level - 1.67'

Depth of 10-3/4 inch csg. - 245'

Depth of 8-5/8 inch csg. - 1125'

Interval cored (4" core)

2015.67 - 2128.02

2256.33 - 2351.62

2424.55 - 2444.20

T. D. 8 inch hole (reamed) - 2424.55

T. D. cored hole - 2444.20

T. D. when logged (after cave) - 2427

1975.19

1819.60

Interval cored:

Run	From	То	Total	Recovery	Percent
1 2 3 4 5 6	2015.67 2034.09 2052.55 2072.38 2091.25 2108.67	2034.09 2052.55 2072.38 2091.25 2108.67 2128.02	18.42 18.46 19.83 18.87 17.42 19.35	18.00 18.02 20.1 18.74 17.68 19.0	99.28
8 9 10 11 12	2256.33 2275.53 2292.21 2309.45 2328.31 2347.62	2275.53 2292.21 2309.45 2328.31 2347.62 2351.62	19.20 16.68 17.24 18.86 19.31 4.0 95.29	17.4 14.8 19.16 19.3 20.0 2.5	07.77
13 14	2424.55 2444.20	2444.20	19.65 19.65	19.15 .50 19.65	97.77

Total cored - 226.29
Total recovered - 224.35
Total percent recovered - 99.14

Remarks:

Run made before No. 1 run, barrel partially plugged, circulation pressure too high (700-900 p.s.i.), pulled out to clean barrel.

Run 14 - Broken cavings in bottom of hole, twisted core lifter, couldn't penetrate, hole then caved in, pulled out when circulation wouldn't clean hole time - 4 hrs.

Description of core material:

Run 1 2015.67-2019.25 - 1.s., light grey in color, very fine grained with black laminations

2019.25-2019.85 - 1.s., light grey in color, fine to med. grained, small vugs

2019.85-2020.9 - l.s., light grey in color, with dark grey laminations

2020.9 - 2024.0 - l.s., light grey in color, with dark grey laminations, med. grained, small vertical fractures, 1/4" to 1" white fossils (may be crynoid stems) scattered throughout

2024.0-2025.0 - 1.s., light grey in color, with fossils

2025.0-2029.2 - l.s., light grey in color, fine grained

2029.2-2029.4 - shale, dark grey

2029.4-2034.09 - 1.s., light grey in color, with dark grey laminations, fine to med. grained, small vertical and horizontal fractures

Run 2 2034.09-2035.0 - Shaley l.s., light grey in color with green shale streaks, fine grained, some fossils

2035.0-2037.65 - l.s., light grey in color, fine to med. grained, green shale streaks

2037.65-2043.75 - l.s., light grey in color with black stylolites, slight oil bleeding (dark brown oil)

2043.75 - shale break, thin

2043.75-2048.1 - 1.s., light grey in color, fine grained, gritty, oil bleeding (dark brown oil)

2048 - top of Keener

2048.1-2052.55 - sandy ls., light grey in color, fine to med. grained, shale breaks 2048.1 & 2050.25

Run 3	2052.5-2052.8	
		clade, dark grey in color
	2052.8-2056.4	 sandy l.s., light grey in color, fine to med. grained, green shale 2056 //
	2056.4-2069.0	 sandyl.s., light grey in color, fine to med. grained
	2069.0-2072.38	- sandy l.s., light grey in color, med.
Run 4	2072.38-2080.1	- limey ss., light grey in color, fine grained, hard, oil show 2072.3-2078.5 (light yellow)
	2080.1-2082.3	shaley ss., grading to shale then to sandy shale, light to dark grey in color, fine to med. grained
	2082.3-2085.4	- ss., light grey in color, fine grained, hard, thin shale streaks
	2085.0	- top Big Injun sand
	2085.4-2086.3	shaley ss., light grey in color, coarse grained
	2086.3-2086.85	ss., light grey in color, fine to med. grained
	2086.5-2087.0	shale break, dark grey in color
	2087.0-2091.25 -	ss., light grey in color, fine to med.
Run 5 & 6	2091.25-2116.65 -	
		ss., light grey grading to light tan in color, fine to med. grained, random shale pebbles 3/16" diameter, oil show 2092.2 - 2108.67, slight bleeding, good show with oil bleeding 2108.67-2116.65 (light yellow oil)
Run 6	2116.65-2116.97 -	shaley ss. grading to sandy shale, light to
:	2117 _	bottom Big Injun
2	2116.97-2128.02 -	shale, black in color, dense, clean

Run 7	2256.33-2275.53	 shale, dark grey, gritty grading into shaley sand 		
_	2273	- top of Weir sand		
Run 8	2275.53-2292.21	- shaley ss., light to med. grey color, random laminations and shale streaks darker in color, fine grained, hard, dirty ss., random horizontal bedding fractures, show of oil and gas bubbling 2077-2292		
Run 9	2292.21-2309.45	- same as run 8		
Run 10.	11, & 12			
	, u 12	 shaley, dirty ss., random laminations and shale streaks, random horizontal bedding fractures, becoming more shaley at a depth of 2345 		
D		bottom of Weir ss. 2345		
Run 13	2424.55-2433.5			
	2433.5	 shale, dark grey in color, dense, clean top of Berea to ss 		
	2433.5-2444.2	ss., light grey in color, fine to med. grained, oil shows and bleeding 2433.5-2434.4 2436.2-2439.5 2440-2444.2 Estimated bottom of sand 2446		
		- DULLOW OF Sand 2///		

Estimated bottom of sand 2446 Some random shale pebbles dark grey. Considered moderate clean sand

William M. Nabors

William M. Malora

cc: Marchant Allamong