

075-05819



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17-8N-530

UNITED CORE INC.

PETROLEUM RESERVOIR ENGINEERING  
HOUSTON, TEXAS

WELL Luft No. 6 COUNTY Logan STATE Colorado  
COMPANY Plains Exploration DATE January 15, 1953 FILE NO. PR-247--A-1187  
FIELD Luft TYPE CORES Diamond ANALYST SH-BP

ANALYSIS DATA AND INTERPRETATIONS

SAM. No.	DEPTH	PERMEABILITY MILLIDARCYs		POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	PROBABLE PRODUCTION	REMARKS
		Horz.	Vert.					
1.	4858 $\frac{1}{2}$	183.5	215.0	17.7	32.6	17.5	Oil	
2.	4862	423.0	338.0	14.2	38.8	31.0	Oil	
3.	4863	424.0	375.0	19.7	29.9	20.3	Oil	
4.	4864	204.0	260.0	19.8	35.0	16.7	Oil	
5.	4865	177.0	127.0	18.7	31.0	13.4	Oil	
6.	4866	180.0	89.5	21.3	37.7	15.5	Oil	

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**UNITED CORE INC.**  
PETROLEUM RESERVOIR ENGINEERING

17-8N-53W

3806 SOUTH SHEPHERD  
HOUSTON 6, TEXAS

January 15, 1953

Re: Core Analysis Record  
Luft No. 6  
Luft Field  
Logan County,  
Colorado

Core No. 1

4855 to 4869 Feet

Rec. 13'

1' 6" Ringtail, gray shale. No show.

1' Sand, very fine grained, w/shale laminations.  
Spotty golden fluorescence, and stain and odor.

Vertical fracture.

1' 6" Sand, clean, tight, w/stain and odor and even  
fluorescence. (Weak) Vertical fracture.

6" Ringtail, gray shale. No show.

2' 2" Sand, fine grained, tight, w/shale laminations.  
No stain, odor, or fluorescence. Vertical fracture.

1' 8" Sand, fine grained, clean, even fluorescence.  
(Weak) Vertical fracture.

2' 8" Sand, clean, fine grained, tight, w/stain, odor,  
golden fluorescence. Vertical fracture.

2' Shaley sand, fine grained, w/shale laminations. No  
odor. (one spotty fluorescence in fracture.)

UNITED CORE INC.  
 PETROLEUM RESERVOIR ENGINEERING  
 HOUSTON 4, TEXAS

17-8N-S3W

Lult # 6

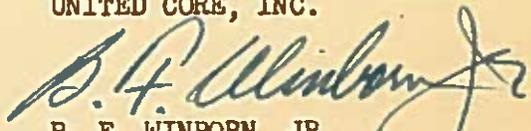
## DATA AVERAGES AND OIL RECOVERY FIGURES

DEPTH	4858 $\frac{1}{2}$ -4866			
FEET OF PRODUCTION FORMATION OF SECTION	6			
AVERAGE PERMEABILITY IN MILLIDARCYS	265.2			
AVERAGE POROSITY, PER CENT	18.6			
AVERAGE TOTAL WATER % OF PORE SPACE	34.2			
AVERAGE RESIDUAL OIL % OF PORE SPACE	19.1			
AVERAGE CONNATE WATER CALCULATED % OF PORE SPACE	29			
GRAVITY OF RESIDUAL OIL A.P.I.				
ESTIMATED FORMATION VOLUME FACTOR—USED IN CALCULATING RECOVERABLE OIL	1.20			
PRODUCTIVE CAPACITY—PRODUCTIVE FEET X AVERAGE PERMEABILITY IN MILLIDARCYS	1,591.5			
RECOVERABLE OIL BY WATER DRIVE—BBLs. PER ACRE FOOT	577.6			
RECOVERABLE OIL BY GAS EXPANSION—BBLs. PER ACRE FOOT	346.6 *			
CU. FT. OF GAS RECOVERABLE FROM GAS PHASE RESERVOIR				

\* From estimated original bottom hole pressure to zero.

Yours very truly,

UNITED CORE, INC.

  
 B. F. WINBORN, JR.