



00252688

## BASIN CORE, INC.

STERLING, COLORADO

COMPANY Plains Exploration Company DATE February 14, 1954 FILE NO. 54-453  
 WELL No. C-1 State TYPE CORES Diamond ANALYST RW-PB  
 FIELD Liberty Hill COUNTY Logan STATE Colorado

## ANALYSIS DATA AND INTERPRETATIONS

SAMPLE NO.	DEPTH FEET	PERMEABILITY MILLIDARCYs		POROSITY %	LIQUID SATURATIONS PER CENT PORE SPACE		PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL		WATER	OIL		
1	5305-06	47.1	9.3	15.6	41.0	1.3	Gas	Hard, dense, fine grain, light gray sand, carbonaceous laminae, odor, and light stain.
2	5306-07	79.3	9.8	13.8	33.4	1.5	Gas	Hard, dense, fine grain, light gray sand, carbonaceous laminae, odor and light stain, vertical fractures.
3	5307-08	247.0	193.9	19.5	58.5	1.0	Gas	Hard, dense, fine grain, light gray sand, carbonaceous laminae, odor and light stain, vertical fractures.
4	5309-10	4.2	0.0	12.6	36.5	4.0	Low Perm	Hard, dense, fine grain, light gray sand, carbonaceous laminae, odor and light stain, vertical fractures.
5	5310-11	20.4	10.6	15.3	32.7	4.6	Gas-Cond	Hard, dense, fine grain, light gray sand, carbonaceous laminae, good odor and stain (light) vertical fractures.
6	5311-12	70.7	65.6	11.5	20.9	4.3	Gas-Cond	Hard, dense, fine grain, light gray sand, carbonaceous laminae, good odor and light stain, vertical fractures.
7	5312-13	11.6	9.3	11.5	32.2	6.1	Gas-Cond	Hard, dense, fine grain, light gray sand, carbonaceous laminae, good odor and light stain, vertical fractures.
8	5313-14	296.0	217.0	13.4	26.9	9.0	Oil	Firm, medium grain, gray sand, good stain and odor, vertical fract.
9	5314-15	1155.0	700.0	20.2	45.5	14.8	Oil	Firm, medium grain, gray sand, good stain and odor, vertical fract.

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 FIELD Liberty Hill COUNTY Logan STATE Colorado

**ANALYSIS DATA AND INTERPRETATIONS**

SAMPLE NO.	DEPTH FEET	PERMEABILITY MILLIDARCYs		POROSITY %	LIQUID SATURATIONS PER CENT PORE SPACE		PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL		WATER	OIL		
10	5315-16	204.0	187.0	18.4	22.8	11.4	Oil	Firm, medium grain, gray sand, good stain and odor, vertical fract.
11	5324-26	645.0	604.0	26.6	39.1	4.9	Water	Frim, friable, argillaceous sand, medium grain, good odor and light stain.



## BASIN CORE, INC.

RESERVOIR CORE ANALYSIS

STERLING, COLORADO

COMPANY Plains Exploration Company WELL State C-1

## ANALYSIS DATA AVERAGES AND RECOVERY FIGURES

TYPE OF PRODUCTION	Gas-Cond	Oil			
DEPTH, FEET	5305-5313	5313-5316			
PRODUCTIVE, FEET	6	3			
PRODUCTIVE FEET ANALYZED	6	3			
AVERAGE PERMEABILITY, MILLIDARCY	79.4	551.7			
AVERAGE POROSITY, PER CENT	14.5	17.3			
AVERAGE TOTAL WATER SATURATION, % PORE SPACE	36.4	31.7			
AVERAGE RESIDUAL OIL SATURATION, % PORE SPACE	3.1	11.7			
AVERAGE CONNATE WATER CALCULATED % PORE SPACE	27.0	29.0			
RESIDUAL OIL GRAVITY, °API		40.0			
FORMATION VOLUME FACTOR, ESTIMATED	$z = 0.83^{(1)}$	1.29			
CUMULATIVE PRODUCTIVE CAPACITY					
_____MILLIDARCY _____ FEET	476.1	1,655.0			
_____POROSITY _____ FEET	87.2	52.0			
_____AVERAGE POROSITY, BARRELS PER ACRE-FOOT	$6,316.2^{(2)}$	1,342.1			
OIL IN PLACE BARRELS PER ACRE-FOOT		952.9			
RECOVERABLE OIL — BARRELS PER ACRE-FOOT					
BY GAS EXPANSION	45.5 <sup>(3)</sup>	387.0 <sup>(4)</sup>			
BY EFFECTIVE WATER DRIVE		582.0			
RECOVERABLE GAS — MCF PER ACRE-FOOT					
RECOVERABLE GAS	0.793				

REMARKS: (1) Natural gas with gas-condensate separator ratio 34,300:1  
 (2) Cubic feet/acre foot  
 (3) Barrels of condensate  
 (4) After reduction from original bottom-hole pressure to atmospheric.