

CORE ANALYSIS RESULTS

Company EL PASO NATURAL GAS COMPANY Formation DAKOTA File RP-3-1045
Well SAN JUAN 29-5 # 32-29 Core Type DIAMOND CONV. Date Report 7/30/59
Field BLANCO MESA VERDE DAKOTA WILDCAT Drilling Fluid OIL EMULSION MUD Analysts ENGLISH
County RIO ARriba State N. MEXICO Elev 6531 Location Sec 29 29N 5W

Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			

1	7780-81	<0.01	5.0	4.0	94.0	Vertical Fracture
2	81-82	<0.01	0.6	0.0	66.6	Vertical Fracture
3	82-83	<0.01	1.4	0.0	57.1	Vertical Fracture
4	83-84	<0.01	1.3	0.0	61.5	Vertical Fracture
5	84-85	<0.01	1.2	0.0	83.5	Vertical Fracture
6	85-86	0.01	2.5	8.1	24.0	Vertical Fracture
7	86-87	0.01	6.0	3.3	20.0	Vertical Fracture
8	87-88	0.01	4.8	0.0	8.3	Vertical Fracture
9	88-89	0.04	6.5	3.1	12.3	Vertical Fracture
10	89-90	<0.01	3.5	0.0	17.2	Vertical Fracture
11	90-91	0.01	3.1	0.0	21.6	Vertical Fracture

7780-7785 Low porosity (1.9% average) and high total water saturations (72.5% average) show this interval to have no commercial value . Other properties are : saturation of residual oil 0.8% average ; and permeability <0.01 md./ft. average .

7785-7791 This interval has low porosity (4.4% average) and low permeability (0.01 md./ft. average) . The saturations (residual oil 2.4% average and total water 17.2% average) show the interval to be capable of producing gas . The vertical fractures should increase the effective permeability . The productive capacity (0.09 md. ft.) is low and a formation treatment will be required to establish and maintain commercial rates of production .

CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

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Well	SAN JUAN 29-5 # 32-29	Core Type	DIAMOND CONV.	Date Report	7/31/59
Field	BLANCO MESA VERDE DAKOTA WILDCAT	Drilling Fluid	OIL EMULSION MUD	Analysts	ENGLISH
County	RIO ARriba	State	NEW MEXICO	Elev	6531 DF
			Location	SEC29 29N 5W	

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
12	7791-92	0.01	2.5	0.0	32.0	Vertical Fracture
13	92-93	<0.01	1.4	0.0	57.1	Vertical Fracture
14	93-94	<0.01	1.0	0.0	40.0	Vertical Fracture
15	94-95	<0.01	3.7	0.0	10.8	Vertical Fracture
16	95-96	0.02	3.5	0.0	25.6	Vertical Fracture
17	96-97	0.02	4.7	0.0	21.3	Vertical Fracture
18	97-98	0.02	3.2	0.0	18.7	Vertical Fracture
19	98-99	<0.01	3.5	0.0	40.0	Vertical Fracture

7791-7792 This one-foot interval has low porosity (2.5%) and low permeability (0.01 md.) . The saturations (residual oil 0.0% and total water 32.0%) show the interval to be capable of producing gas . The productive capacity (0.01 md.ft.) is low and a formation treatment would be required . There is evidence of a fracture system , which should increase the effective permeability .

7792-7794 The porosity of this interval (1.2% average) is low . The high saturation of total water (48.5% average) and low permeability (<0.01 md./ft. average) show this interval to have no commercial value . The saturation of residual oil is 0.0% average . Further testing should be done to evaluate the fracture system .

7794-7799 Although the porosity (3.7% average) and the permeability (0.01 md./ft. average) are low , the saturations (residual oil 0.0% average and total water 23.3% average) show the interval to be capable of producing gas . The productive capacity (0.08 md. ft.) is low and a formation treatment to increase permeability will be required . There is evidence of a fracture system , which should increase the effective permeability .