

Preliminary Report

CHEMICAL & GEOLOGICAL LABORATORIES

Farmington

M-20-30-5

27

CORE ANALYSIS REPORT

Company: El Paso Natural Gas Company
 Well No.: San Juan 30-5 #27-20
 Field: Wildcat
 County: Rio Arriba
 State: New Mexico

Date: September 23, 1959 Lab. No.
 Location:
 Formation: Dakota
 Depth:
 Drilling Fluid: Water Base Mud

C—Crack
 F—Fracture
 H—Horizontal
 O—Open

LEGEND

NF—No Flow

IS—In Situ

S—Slight
 St—Stain
 V—Vertical
 Vv—Vugs

SAMPLE NO.	LEGEND	DEPTH, FEET	EFFECTIVE POROSITY PERCENT	PERMEABILITY MILLIDARIES		SATURATIONS		CONNATE WATER	SOLUBILITY	
				HORIZONTAL	VERTICAL	BOUNDARY SPACE	FREE PORE SPACE		MUD ACID	15% ACID
		Core No. 1	7649	-	7710					
1	VF	7650-51	7.7	0.01		Trace	27.3			
2	NF	7651-52	8.5	0.01		Trace	18.7			
3	VF	7652-53	6.7	0.01		Trace	12.2			
4	VF	7653-54	7.7	0.02		Trace	12.4			
5	VF	7654-55	5.2	0.01		0	21.2			
6	VF	7655-56	8.6	0.02		0	15.8			
7	VF	7658-59	8.8	0.02		Trace	12.4			
8	VHF	7661-62	10.2	0.03		0	15.2			
9	VF	7662-63	9.6	0.02		0	19.2			
10	VHF	7667-68	10.0	0.02		Trace	20.5			
11	VHF	7669-70	6.5	0.01		Trace	15.0			
12	VHF	7670-71	7.9	0.02		Trace	20.6			
13	HF	7688-89	4.9	0.01		Trace	26.1			
14	HF	7689-90	5.0	0.01		Trace	24.2			
15	HF	7690-91	5.9	0.00*		Trace	35.9			
16	HF	7691-92	3.7	0.01		Trace	24.9			
17	VHF	7692-93	7.8	0.01		Trace	24.7			
18	NF	7694-95	9.3	0.02		Trace	14.2			
19	HF	7696-97	11.4	0.05*		0	27.7			
20	NF	7697-98	6.0	0.01		0	18.6			
21	VHF	7701-02	2.6	0.01		0	62.0			
22	VHF	7707-08	2.0	0.01		0	44.5			
23	VHF	7708-09	6.1	0.02		0	16.0			
24	VHF	7709-10	5.9	0.02		Trace	38.0			

* Permeability probably closed by existing shale intercalations

C—Crack
F—Fracture
H—Horizontal
O—Open

* Permeability probably
caused by existing shale
interlamination

LEGEND
NF—No Fracture
IS—I sufficient Sample

S—Slight
St—Stain
V—Vertical
Vg—Vugs

SAMPLE NO.	LEGEND	DEPTH, FEET	EFFECTIVE POROSITY % PORESPACE	PERMEABILITY MILLIDARIES		SATURATIONS		CONNATE WATER	SOLUBILITY	
				HORIZONTAL	VERTICAL	PORE SPACE % END. JAL. OIL	PORE SPACE % TOTAL WATER		MUD ACID	15 % ACID
		Core No. 2	7710 - 7719	Recovered 9'						
		No samples analyzed								
		Core No. 3	7719 - 7727	Recovered 6'						
25	VHF	7719-20	3.8	0.01		0	30.3			
26	HF	7720-21	2.8	1.51*		0	60.7			
27	HF	7721-22	3.4	0.07		0	33.8			
28	HF	7722-23	2.4	0.25*		0	60.8			
29	HF	7723-24	4.5	0.10*		0	51.6			
30	VHF	7724-45	2.6	0.01		0	38.5			
		Core No. 4	7727 - 7736	Recovered 10'						
31	VHF	7727-28	3.0	0.02		0	16.0			
32	VHF	7728-29	3.4	0.04		0	11.8			
33	VHF	7729-30	5.4	0.02		0	11.3			
34	VHF	7730-31	1.8	0.01		0	12.2			
35	HF	7731-32	3.9	0.04		0	11.9			
36	VF	7732-33	2.5	0.02		0	12.0			
37	HF	7733-34	3.9	0.06*		0	11.0			
		Core No. 5	7738 - 7799	Recovered 61'						
38	NF	7763-69	10.1	0.04		0	39.2			
39	NF	7769-70	10.8	0.04		0	45.4			
40	NF	7770-71	10.5	0.03		0	47.1			
41	NF	7771-72	7.7	0.03		0	38.4			
		7772-73	No sample taken							
42	NF	7773-74	5.9	0.01		Trace	49.2			
43	NF	7774-75	5.9	0.01		Trace	43.1			
44	VF	7775-76	2.5	0.02		Trace	55.2			
45	VF	7776-77	5.7	1.44*		Trace	49.6			
46	NF	7777-78	6.9	0.11		Trace	53.3			
47	NF	7778-79	7.4	0.10		0	39.3			
48	NF	7779-80	7.6	0.21		0	37.9			
49	NF	7780-81	6.2	0.13		0	40.3			
50	NF	7781-82	4.6	0.10		Trace	34.1			
51	VF	7782-83	3.8	0.01		Trace	36.8			
52	HF	7783-84	4.1	0.03		Trace	73.7			
53	NF	7784-85	4.2	0.03		Trace	68.3			
54	NF	7785-86	4.6	0.09		0	41.3			
55	NF	7786-87	5.4	0.02		0	53.0			
56	NF	7787-88	7.0	1.01*		0	42.0			
57	NF	7788-89	6.6	0.05		0	45.9			
58	NF	7789-90	6.9	0.06		0	49.0			
59	NF	7790-91	6.9	0.05		0	31.2			
60	NF	7791-92	6.4	0.31		0	26.1			
61	NF	7792-93	3.2	0.03		0	26.3			
62	VF	7793-94	5.3	0.02		0	39.1			
63	VF	7794-95	4.0	0.01		0	52.3			

El Paso Natural Gas Company
San Juan 30-5 #27-20

Wildcat
Rio Arriba County, New Mexico

C—Crack
F—Fracture
H—Horizontal
O—Open

LEGEND
NF—No Fracture
IS—Insufficient Sample

S—Slight
St—Stained
V—Vitrified
V—Vugs

SAMPLE NO.	LEGEND	DEPTH, FEET	EFFECTIVE POROSITY PORESPACE	PERMEABILITY MILLIDARIES		SATURATION		CONNA F WATER	SOLUBILITY	
				HORIZONTAL	VERTICAL	PORE SPACE RESIDUAL OIL	PORE SPACE TOTAL WATER		M. O. ACID	H. C. ACID
		Core No. 5 continued								
64	NF	7795-96	8.3	0.05		0	49.9			
65	NF	7796-97	9.5	0.13		Trace	51.7			
66	NF	7797-98	9.4	0.61		Trace	50.1			
67	NF	7798-99	9.4	0.34		Trace	53.2			