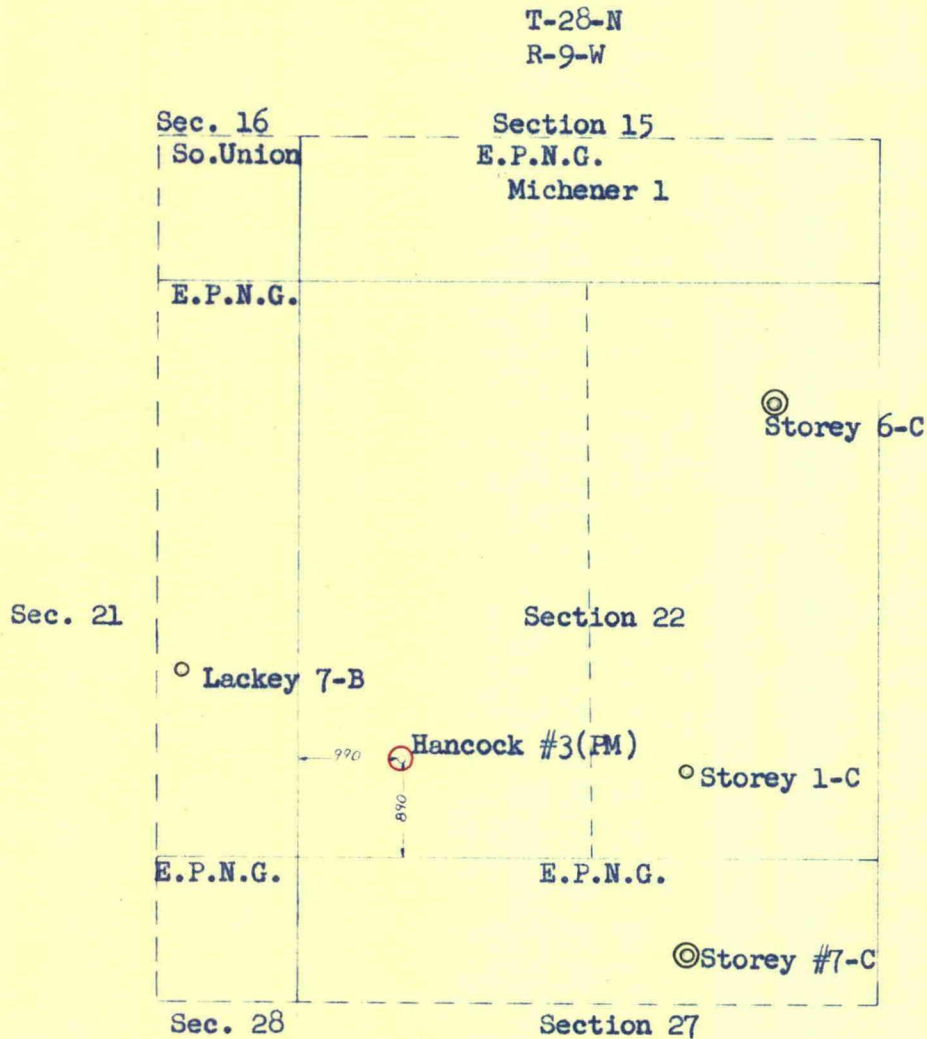


Plat Showing Location of Dually Completed
El Paso Natural Gas Co. Hancock No. 3 (FM)
and Offset Acreage



○ Single Completion--Pictured Cliffs

◎ Dual Completion--Pictured Cliffs and Mesa Verde

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EP EXHIBIT NO. 1
CASE NO. 1713

EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	

SCHEMATIC DIAGRAM OF DUALY COMPLETED
El Paso Natural Gas Co. Hancock No. 3 (PM)
SWSW Section 22, T-28-N, R-9-W

Dual String
Xmas Tree

Zero reference point 10.0' above top flange
of tubing hanger.

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	✓
CASE NO.	1713

*390-480
578
900-100
4850*

10 3/4", 32.75# S. W. casing set at 171' with 108 sacks cement circulated to surface.

Top of cement by B & R Temperature Survey at 2660'.

Pictured Cliffs perforations 3258-3266; 3270-3290 (2 SPF) fractured with water and sand.

1 1/4", 2.4#, Grade "A" tubing landed at 3308' as a siphon string.

2", 4.7#, J-55 tubing landed at 5686' with perforations at 5651-5654'.

Top of liner hanger at 3388'. Top of cement by B & R Temperature Survey at 3700'. Top of liner squeezed with 100 sacks cement.

7 5/8", 26.4#, J-55 casing set at 3453' with 110 sacks cement.

Baker Model "EGJ" packer set at 3488'.

Menefee perforations 5274-5284; 5322-5338; 5428-5438; 5444-5454 (2 SPF) fractured with water and sand.

Point Lookout perforations 5546-5556; 5604-5618; 5654-5664; 5696-5706 (2 SPF) fractured with water and sand.

5 1/2", 15.50#, J-55 liner set from 3388' to 5774' with 213 sacks cement.

T.D. 5776'

*After
Relief on
annular cement
by hydraulic
fracturing*

*2956
3300
161'*

*2194
5274-5284
5322-5338
5428-5438
5444-5454*

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 20, 1959

Operator El Paso Natural Gas		Location Hancock No. 3 (M)	
Location 8908, 990W; 22-28-9		State San Juan New Mexico	
Formation Mesa Verde		Blanco	
Casing Diameter 7-5/8	Set At Feet 3353	Casing Diameter 2"	Set At Feet 5677
Pay Zone (Feet) 5274	5706	5776 c/o 5726	Shut In: 5/13/59
Stimulation Method Sand Water Frac.		Flow Through Tubing X	

Surface Pressure (PSIG) .75		Surface Pressure (PSIG) 12.365		5-1/2 liner 3388 - 5774	
Flowing Pressure (PSIG) 677 (PC)		Flowing Pressure (PSIG) 689		Flowing Pressure (PSIG) 949 (MV)	
Temperature (°F) 177		Temperature (°F) 189		Temperature (°F) Calc. 379	
Gravimetric 61		Gravimetric .75		Gravimetric 1.021	

Initial SIPT (PC) = 675 psig

Packer at 3488

Final SIPC (PC) = 679 psig

CHOKER VOLUME $Q = C \times R \times T \times P \times F \times H$

$$12.365 \times 189 \times .9990 \times .9225 \times 1.021$$

$$2199 \times MCF/D$$

$$\left(\begin{array}{l} 923521 \\ 779880 \end{array} \right)$$

$$1.1841^{.75} \times 2199 = 1.1352 \times 2199$$

$$2496$$

Unloaded heavy spray after 4 min. continued slugging liquid through-out test.

M. W. Rischard

Lewis D. Galloway
L. D. Galloway

ILLEGIBLE

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **May 27, 1959**

Operator	El Paso Natural Gas	Hancock No. 3 (P)	
Location	890S, 990W; 22-28-9	San Juan	New Mexico
Format	Pictured Cliffs	Aztec	
Casing Diameter	7-5/8	Set At, Feet	3298
Perforation Depth	3258	3290	5776 c/o 5726
Shut In Date			Shut In 5/13/59
Flow Through Tubing			
Sand Water Frac.		X	

Perforation Depth	Perforation Length	Perforation Width	Perforation Area	Perforation Volume	Perforation Weight
12.365	5-1/2 liner	3388-5774			
714	726	14	714	726	
230	242	241	230	253	
65	.85	1.021		.638	

Initial SIPT (MV) = 894 psig
Final SIPT (MV) = 906 psig

Packer at 3488

CHOKE VOLUME $Q = C \times R \times A \times F_g \times T$

$$12.365 \times 242 \times .9952 \times .9721 \times 1.021$$

2956

MCF D

527076
463067

$$1.1382^{.85} \times 2956 = 1.1163 \times 2956$$

3300

Jesse B. Goodwin

Checked By M. W. Rischard

Lewis D. Galloway
L. D. Galloway

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



ELECTRICAL LOG
GAMMA RAY-NEUTRON LOG
INDUCTION LOG

COUNTY <u>SAN JUAN</u> , N.M. FIELD or <u>AZTEC PC</u> LOCATION <u>BLANCO MV</u> WELL <u>HANCOCK #3 PM</u> COMPANY <u>EL PASO NATURAL</u> <u>GAS COMPANY</u>	COMPANY <u>EL PASO NATURAL</u>	Location of Well 890' FR S/L 990' FR W/L SEC. 22-28N-9W ES-GRN-IND 9ML TEMP) Elevation: D.F.: <u>7014'</u> K.B.: _____ or G.L.: <u>7005'</u>
	GAS COMPANY _____	
	WELL <u>HANCOCK #3 PM</u>	
	FIELD <u>AZTEC PC</u> <u>BLANCO MV</u>	
	LOCATION <u>SEC. 22-28N-9W</u>	
COUNTY <u>SAN JUAN</u>	STATE <u>NEW MEXICO</u>	FILING No. _____

RUN No.	ONE ES	ONE GRN	ONE IND
Date	4-29-59	5-4-59	5-4-59
First Reading	3445	5784	5778
Last Reading	176	3100	3469
Feet Measured	3379	2684	2309
Csg. Schlum.	176	--	--
Csg. Driller	173	--	--
Depth Reached	3446	5785	5784
Bottom Driller	3458	5776	5776
Depth Datum	KB	KB	KB
Mud Nat.	GEL CHEM	GAS DRILLED	
" Density	9.3	--	--
" Viscosity	51	--	--
" Resist.	1.5 @ 60°F	-- @ °F	--
" Res. BHT	0.9 @ 105°F	-- @ °F	--
" pH	-- @ °F	-- @ °F	--
" Wtr. Loss	-- CC 30 min.	-- CC 30 min.	--
Max. Temp. °F	105	--	--
Bit Size	9 5/8"	6 3/4"	6 3/4"
SPCGS	AM 16"		
TYPE EQUIP.	AM 64"	GNAM-4	IND 27"
TYPE PANEL	AO 18'8"	GNP-C	
Opr. Rig Time	1 HR	3 1/2 HRS	1 HR
Truck No.	1588FARM	2516FARM	2516FARM
Recorded By	HANDLEY	HAMILTON	HAMILTON Ex #3
Witness	MR. COLEMAN		

FOLD HERE