

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 2-11-81			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company			
Pool Tapacito				Formation Pictured Cliff		Unit San Juan 28-5	
Completion Date 1-27-81		Total Depth 5946		Plug Back TD 5925		Elevation 6487 GL	
Farm or Lease Name San Juan 28-5 Unit				Well No. #38A			
Csg. Size 7.000	Wt. 20	d 6.456	Set At 3662	Perforations: From 3296 To 3356			
Tbg. Size 1.660	Wt. 2.33	d 1.380	Set At 3336	Perforations: From To		Unit Sec. Twp. Rge. 0 32 28 5	
Type Well - Single - Broadhead - G.C. or G.O. Multiple G. G. Dual				Packer Set At 3494		County Rio Arriba	
Producing Thru Csg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12	
State New Mexico							
L	H	Gg 0.630	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run
Taps							

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							982		988		15 Days
1.	Choke		0.750	4		49	118				
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor F _{sc}	Rate of Flow Q, Mcfd
1	12.365		16	1.0108	0.9759		195
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R	Mcf/bbl.	Deq.
1.												
2.												
3.												
4.												
5.												

FEB 17 1981
OIL CON. COM.
DIST. 3

P _c 1000	P _c ² 1000000		
NO.	P _i ²	P _w	P _w ²
1		130	16900
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0172$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 198$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0146$

Absolute Open Flow 198 Mcfd @ 15.025	Angle of Slope @	Slope, n .85
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Remarks: Gas Vented - 44 MCF. The Well Blew Dry Gas During The Test.

Approved By Division	Conducted By: Mel Mileman	Calculated By: H. E. McAnally	Checked By:
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THE APPLICATION OF EL PASO NATURAL GAS
COMPANY FOR A DUAL COMPLETION

ORDER NO. MC-2732

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 112-A, El Paso Natural Gas Company made application to the New Mexico Oil Conservation Division on October 23, 1980, for permission to dually complete its San Juan 28-5 Unit Well No. 38A located in Unit 0 of Section 32, Township 28 North, Range 5 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to permit production of gas from the Tapacito Pictured Cliffs Pool and the Blanco Mesaverde Pool.

Now, on this 30th day of October, 1980, the Division Director finds:

1. That application has been filed under the provisions of Rule 112-A of the Division's Rules and Regulations;
2. That satisfactory information has been provided that there are no other operators of offset acreage.
3. That the proposed dual completion will not cause waste nor impair correlative rights; and
4. That the mechanics of the proposed dual completion are feasible and consonant with good conservation practices.

IT IS THEREFORE ORDERED:

That the applicant herein, El Paso Natural Gas Company, be and the same is hereby authorized to dually complete its San Juan 28-5 Unit Well No. 38A located in Unit I of Section 32, Township 28 North, Range 5 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to permit production of gas from the Tapacito Pictured Cliffs Pool and the Blanco Mesaverde Pool through parallel strings of tubing.

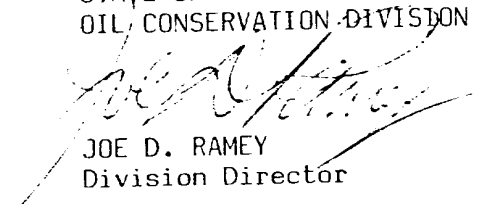
PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A.

PROVIDED FURTHER, That applicant shall take packer-leakage tests upon completion and annually thereafter.

IT IS FURTHER ORDERED: That jurisdiction of this cause is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Division Director

MC 2732

OIL CONSERVATION COMMISSION

Carter DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE October 23, 1980

RE: Proposed MC α
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated October 22, 1980
for the E.P.M.D.C. 81-28-5 Unit #38A I-37-28N-5W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

Frank S. Chang

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator El Paso Natural Gas Company		County Rio Arriba		Date October 16, 1980
Address PO Box 289, Farmington, NM 87401		Lease San Juan 28-5 Unit		Well No. 38A
Location of Well I	Unit 32	Section 28N	Township 5W	Range 5W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐
2. If answer is yes, identify one such instance: Order No. ☒ ; Operator Lease, and Well No.: ☒ Re: NMOCC Memo #18-58

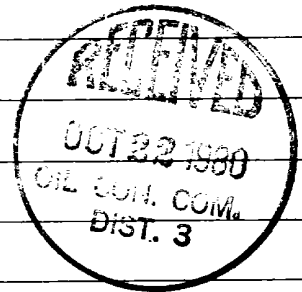
3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Tapacito PC Ext.		Blanco Mesa Verde
b. Top and Bottom of Pay Section (Perforations)	3297-3422'		5127-5932'
c. Type of production (Oil or Gas)	gas		gas
d. Method of Production (Flowing or Artificial Lift)	flowing		flowing

4. The following are attached. (Please check YES or NO)

- | | | |
|---|-------------------------------------|---|
| Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

This is an inside unit well and El Paso Natural Gas Company operates all offsets to this well.



6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☐ NO ☐ . If answer is yes, give date of such notification _____.

CERTIFICATE: I, the undersigned, state that I am the Drilling Clerk of the El Paso Natural Gas (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

A. G. Busco
Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

SCHEMATIC DIAGRAM OF INTENDED DUAL COMPLETION
El Paso Natural Gas Company San Juan 28-5 Unit #38A (PM)
Section 32, T-28-N, R-5-W

Dual String
Xmas Tree

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

9 5/8", 40.0# K-55 casing set at approximately 200'
with sufficient cement to circulate to surface.

Pictured Cliffs formation will be selectively
perforated and sandwater fractured

1 1/4", 2.3# IJ Pictured Cliffs tubing set at 3485'
Production packer

4 1/2" liner hanger

7", 20# J-55 casing set at approximately 3625' with
sufficient cement to fill to 3200' (top Ojo Alamo)

Cliff House formation will be selectively perforated
and sandwater fractured.

Point Lookout formation will be selectively
perforated and sandwater fractured
2 3/8", 4.7#, EUE Mesa Verde tubing set at 5942'

4 1/2", 10.5# J-55 liner will be set from approxi-
mately 3475' to 5932' with sufficient cement to
circulate top of liner at 3475'