NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
OCT 9 1969
OIL CON. COM.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 8/22/69	
Company: ~~J. Gregory Merrion &~~ ~~R. L. Bayless~~	Connection: El Paso Natural Gas Company			
Pool: Undesignated	Formation: Chacra			Unit
Completion Date: 8/7/69	Total Depth: 3350 KB		Plug Back TD: 3281 KB	Elevation: 6226 KB
Farm or Lease Name: Fields Com				
Csg. Size: 2 7/8" / Wt.: 6.5 / d: / Set At: 3325	Perforations: From 3170 To 3190			Well No.: 1
Tbg. Size: None / Wt.: - / d: - / Set At: -	Perforations: From - To -			Unit: C / Sec.: 31 / Twp.: 26N / Rge.: 6W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Tubingless		Packer Set At: None		County: Rio Arriba
Producing Thru: Casing	Reservoir Temp. °F: 110 @ 3180	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 12	State: New Mexico
L: 3180	H: 3180	Gg: 0.7 est	% CO_2:	% N_2:
% H_2S:	Prover:	Meter Run:	Taps:	

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	8 days								727		
1.	2"		3/4	190					190	60° est	3 hrs
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		202	1.000	0.9258	1.025	2775
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 739 P_c^2 546121

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{546,121}{469,945} = 1.162^{(2)}$ $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.119$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3105$

Absolute Open Flow _____ Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.75

Remarks: Pc=5.551 GL=2226 1-e-s = .149 Pw @ 276

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Merle Ellsaesser	J. G. Merrion	R. L. Bayless

J. Gregory Merrion

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I.

Operator
MERRION & BAYLESS

Address
Box 1541, Farmington, New Mexico

Reason(s) for filing *(Check proper box)*
- New Well [X]
- Recompletion [ ]
- Change in Ownership [ ]

Change in Transporter of:
- Oil [ ]
- Dry Gas [ ]
- Casinghead Gas [ ]
- Condensate [ ]

Other *(Please explain)*

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Lease No.	Well No.	Pool Name, Including Formation	Kind of Lease
Fields Com	**(NM 014058)**	**1**	**Undesig Chacra**	State, Federal or Fee **Federal**

Location
Unit Letter **F** ; **1430** Feet From The **W** Line and **1700** Feet From The **N**

Line of Section **31** Township **26 N** Range **6W** , NMPM, **Rio Arriba** County

II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [ ] or Condensate [ ]	Address *(Give address to which approved copy of this form is to be sent)*	
El Paso Natural Gas Company (Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [X])	**Farmington, New Mexico**	
If well produces oil or liquids, give location of tanks. Unit:	Sec.:	Twp.: Rge.:
Is gas actually connected? **Yes**	When **October 30, 1969**	

If this production is commingled with that from any other lease or pool, give commingling order number: _____

V. COMPLETION DATA

Designate Type of Completion – (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X						

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
July 10, 1969	**August 10, 1969**	**3321**	**3293**
Elevations *(DF, RKB, RT, GR, etc.)*	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
6216 GL	**Chacra**	**3170**	**none**
Perforations			Depth Casing Shoe
3170 - 90			**3325**

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
9 7/8	7 5/8	100	100
6 3/4	2 7/8	3325	450

V. TEST DATA AND REQUEST FOR ALLOWABLE

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method *(Flow, pump, gas lift, etc.)*	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

RECEIVED
NOV 3 1969
OIL CON. COM
DIST. 3

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
1533	**24**	**none**	**-**
Testing Method *(pitot, back pr.)*	Tubing Pressure	Casing Pressure	Choke Size
back pressure	**-**	**190**	**3/4**

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

(Signature)
Operator
(Title)
11/3/69
(Date)

OIL CONSERVATION COMMISSION

APPROVED NOV 4, 1969

BY Original Signed by Emery C. Arnold

TITLE SUPERVISOR DIST. #3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.