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TRANSPORTER GAS		
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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

(Marathon is Operator of the Indian Basin Gas Plant and Gathering System. Natural Gas Pipeline Company of America is purchaser of the gas under contracts providing for delivery of residue gas at the Plant.)

RECEIVED
JAN
O. C. D.
ARTESIA, OFFICE

I.

Operator: JOHN H. TRIGG

Address: Post Office Box 520, Roswell, New Mexico 88201

Reason(s) for filing *(Check proper box)*

New Well	X	Change in Transporter of:			
Recompletion		Oil		Dry Gas	XX
Change in Ownership		Casinghead Gas		Condensate	

Other *(Please explain)*

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

I. DESCRIPTION OF WELL AND LEASE

New Mexico 05699

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease State, Federal or Fee
FEDERAL "IB"	1	INDIAN BASIN, upper PENN-~~CISCO~~	FEDERAL

Location

Unit Letter D ; 660 Feet From The NORTH Line and 400 Feet From The WEST

Line of Section 6 , Township 22 SOUTH Range 24 EAST , NMPM, EDDY County

I. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate XX	Address *(Give address to which approved copy of this form is to be sent)*
MARATHON OIL COMPANY, OPERATOR, INDIAN BASIN GAS PLANT AND GATHERING SYSTEM	P. O. Box 1324, Artesia, New Mexico
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas XX	Address *(Give address to which approved copy of this form is to be sent)*
MARATHON OIL COMPANY, OPERATOR, INDIAN BASIN GAS PLANT AND GATHERING SYSTEM	P. O. Box 1324, Artesia, New Mexico

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
	D	6	22S.	24E.	NO	

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.
		XX	XX					

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
5/30/63	4/11/64	9476	7931
Pool	**Name of Producing Formation**	**Top Oil/Gas Pay**	**Tubing Depth**
INDIAN BASIN	PENN-CISCO	7414	7344
Perforations	7430 - 7486 - 1 11/16" - 112		**Depth Casing Shoe**
	7504 - 7554 - 1 11/16" - 100 (2/ft.)		7981

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
	20"	26	6 YDS READY MIX
	13"	626	200
10 3/4"	9 5/8"	2427	1437
8 3/4"	7"	7981	725
	2 3/8"	7344	TUBING

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**

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
151,349 MCFGPD	36 HRS.	91,483 - 1	59.0°
Testing Method *(pitot, back pr.)*	**Tubing Pressure**	**Casing Pressure**	**Choke Size**
Back Pressure Meter	2357	--	2.0 - 2.25"

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.

John H. Trigg
(Signature)

OWNER
(Title)

DECEMBER 30, 1965
(Date)

OIL CONSERVATION COMMISSION

APPROVED JAN 26 1966, 19 _____

BY M L Armstrong

TITLE ~~OIL GAS INSPECTOR~~

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 Sections I, II, III, and VI only 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.

Well file

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED
MAY 1 1964
O. C. C.
ARTESIA, OFFICE

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool **Undesignated** Formation **Cisco Dolomite** County **Eddy**

Initial **XXXXXX** Annual _____ Special _____ Date of Test **Apr. 22-27, 1964**

Company **John H. Trigg Company** Lease **Federal "IB"** Well No. **1-6**

Unit **B** Sec. **6** Twp. **22-S** Rge. **24-E** Purchaser **None**

Casing **7"** Wt. **20** I.D. **6.456"** Set at **7981** Perf. **7430** To **7554**

Tubing **2-3/8"** Wt. **4.7#** I.D. **1.995"** Set at **7344** Perf. **Open End** To _____

Gas Pay: From **7430** To **7554** L **7430** xG _____ -GL _____ Bar.Press. **13.2**

Producing Thru: Casing _____ Tubing **XXXX** Type Well **Single**
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: **April 17, 1964** Packer **7154** Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~(Prover)~~/~~(Choke)~~ (Meter) Type Taps **Flange**

No.	Flow Data (Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						2357				
1.	3"	2.000"	910	46	84	1953	72			24
2.	3"	2.250"	905	101	80	990	76			3
3.	3"	2.250"	905	72¼	77	1450	76			3
4.	3"	2.250"	900	39	77	1774	74			3
5.	3"	2.250"	890	33	86	1954	73			3

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	27.52	206.1	923.2	.9777	.9721	1.076	5,800
2.	37.15	304.5	918.2	.9813	.9721	1.076	11,811
3.	37.15	258.0	918.2	.9840	.9721	1.081	9,911
4.	37.15	188.7	913.2	.9840	.9721	1.081	7,249
5.	37.15	172.6	903.2	.9759	.9721	1.074	6,533

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio **104,129** cf/bbl.
Gravity of Liquid Hydrocarbons **59** deg.
F_c _____ $(1-e^{-s})$ _____

Specific Gravity Separator Gas **.635**
Specific Gravity Flowing Fluid **.7428**
P_c **2965.2** P_c^2 **8792.4**

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	2939.2					8638.9	153.5		
2.	2849.2					8117.9	674.5		
3.	2864.2					8203.6	588.8		
4.	2883.2					8312.8	479.6		
5.	2885.2					8324.4	468.0		

Absolute Potential: **151,349** MCFPD; n **1.00000**

COMPANY **John H. Trigg Company**

ADDRESS **Post Office Box 106 - Maljamar, New Mexico**

AGENT and TITLE **Connie W. Snow, Ass't. Eng.** --- Connie W. Snow

WITNESSED Jack R. McGraw

COMPANY **John H. Trigg Company**

REMARKS

Bomb Coeff. 1552 lbs./sq. in. **Bomb set @ 7283'**

Curve #1 represents slope drawn through actual data as measured. Absolute potential obtained from slope of 1.00000 drawn through highest rate of flow.

Bomb shut-in - 2952 psig

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia

P_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t.