NEW MEXICO OIL CONSERVATION COMMISSION GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

DELIVERABILITY CALCULATION DELIVERABILITY CALCULATION	Pool	Klanco		_Formation	Mees Yerde	Coun	y Sen J	itent.
The content of the	urchasing Pi	peline R1 Pa	so Natural Ga	<u> </u>	Date	e Test Filed_	<u> </u>	
To Tick		1 Dans Volume	3 Ann		Boloak		14	e (M)
Costing	perator				· · · · · · · · · · · · · · · · · · ·		en No	
Tubing Gas Gravity: Measured 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 1	****					1	10	
To 10/20/58 Date S.I.P. Measured 5/15/58 Lik days 10/20/58 Date S.I.P. Measured 5/15/58 Lik days 17/20 Type Tops Type Tops OBSERVED DATA Type Tops OBSERVED DATA Paid 12 = paid p	-							
Summary Summ								_
Description								
lowing cosing pressure (Dwt)	leter Run Size	e	Orific	e Size	Туре	Chart	Туре Т	aps
Lowing tubling pressure (Dwt)				OBSERV	ED DATA			
owing meter pressure (lower)	owing casing	pressure (Dwt)			psig	+12 =	····	psia
Summar S								•
Normal chart reading						+ 12 =		psia
Square root chart reading (ng when Dwt. meas			1:10 -		
Summary Summ) ² x spring co					
(b) - (c) Flow through tubing: (a) - (c) Flow through casing ven day average static meter pressure (from meter chart): Normal chart average reading Square root chart average reading (a) + (b) - (c) Flow through tubing: Square root chart average reading (b) + (c) - (c) Flow through tubing: Square root chart average reading (c) T-65 - (c) x sp. const. (c) - (c) Flow Raight 12 =						=		
Normal chart overage static meter pressure (from meter chart); Normal chart diverage reading T-05 2 x sp. const. D psiq + 12 =	iction loss, F	lowing column to me	eter:					
Normal chart everage reading	(b) - (c) Flow	v through tubing: (a)	- (c) Flow through	casing		=	 -	psi
Square root chart average reading (-	•	sure (from meter cho	rrt):		+ 10 -		
Corrected seven day arge, meter press. (p _f) (g) + (e)	Sauare root o		7.05 2xs	p. const.	10 psig	T 12 =	497	-
						=	497	•
100	= (h) + (f)		•			=	497	psia
SUMMARY Summ		= :	7.	4.4	內義權		1100	psiα
SUMMARY SUMARY SUMMARY SUMARY					psig	+ 12 =		
SUMMARY SUMARY SUMMARY SUMARY	-		a unough 61	●F + 46	n	=		=
SUMMARY SUMARY SUMMARY SUMMA						=	550	
SUMMARY Summary				<u> </u>	=	= -	320	MCF/do
SUMMARY	. 32	20 [(F		ERABILITY	CALCULATION		שמים	
Psia Company R1 Pase Natural Gas	= Q		2 - P w/=		-9579	= <u> </u>		_ MCF/da.
Mcf/day By Original Signed psia Title Harold L. Kendrick psia Witnessed by Mcf/day Company This is date of completion test. Meter error correction factor REMARKS OR FRICTION CALCULATIONS GL (1-e ^{-s}) (F _c Q)2 (F _c Q)2 (1-e ^{-s}) Pt ² R ² (Column i) Pt ² + R ² Pw This is date of completion test. Meter error correction factor REMARKS OR FRICTION CALCULATIONS Alto Pt ² + R ² Pw This is date of completion test. REMARKS OR FRICTION CALCULATIONS				neia	Comingnu 1	Li Paso Net	aral Cas	
psia Title Harold L. Kendrick psia Witnessed by Company This is date of completion test. Meter error correction factor REMARKS OR FRICTION CALCULATIONS GL (1-e-s) (FcQ)2 (1-e-s) Pt2 Pt2 Pt2 Pw R2 (Column i) 3446 .222 9.654 2006 2007 2007 2007 2007 2007 2007 2007				-				<u></u>
Mcf/day Company					•	Harold	L. Kendrick	·
This is date of completion test. Meter error correction factor REMARKS OR FRICTION CALCULATIONS GL (1-e^-5) (F _C Q)2 (F _C Q)2 (1-e^-5) Pt ² Pt ² + R ² Pw R2 (Column i) 3446 .222 9.654 2016 847009 checking by		•		psia	Witnessed by			
REMARKS OR FRICTION CALCULATIONS GL (1-e ⁻⁵) (F _c Q)2 (F _c Q)2 (1-e ⁻⁵) Pt ² Pt ² + R ² Pw 3446 .222 9.654 2016 247009 checking by Dat 500 - 516				Mcf/day	Company			
GL (1-e-5) (F _c Q)2 R2 (Column i) P _t 2+R2 P _w 3446 .222 9.654 2016 247009 240019 49		=	REMARKS	OR FRICTI	on calculations			
D at 500 - 516	GL	(1-e ⁻⁵)	(F _c Q)2	(FcQ)	_ ` `		P _t ² + F	P _w
D at 500 - 316	3446	.222	9.054	2	010	24 7009	CCC	9 49
reference to the second of the	D at 500	- 316	.V			R	CLIVEL	

welle

NEW MEXICO OIL CONSERVATION COMMISSION AZTEC. NEW MEXICO

June 26, 1958

Mr. N. L. Kendrick El Paso Netural Ges Co. Bex 997 Ferminaten, New Mexico

> Re: EPNG #13 Bolack "C" (PM) Dual Completion SW/4 29, 27N, 8W

Beer Sirs

This letter will serve as your authorization to produce the Pictured Cliffs zone of the subject well into a gathering system for a period of five days during remedial action for repair of zone separation equipment in the well bore.

Such production is in the interest of conservation by the elimination of flaring the gas.

All such production shall be accountable against the future allowable of subject well in the South Blanco-Pictured Cliffs Pool.

Subject well is to be shut-in at the completion of such remedial action for communications tests.

Yours very truly,

ce: N.H.O.C.C Signta Fe. N. M

EPNG (Fermingen)
% W N Rodgers

A. R. Kendrick Engineer, District #3

ARK/mp

NEW MEXICO

OIL CONSERVATION COMMISSION

AZTEC, NEW MEXICO

June 30, 1955

Fr H L Kendelec El Pase Natural Gas Co Box 997 Farmington, New Hexico

Ray EPNG #13 Botack "C" (PM)

Dual Completion
SW'4 29, 274, 8W

Dear Sir:

This letter will serve as your authorization to produce the Pictural Cliffs zone of the subject well into a gathering system for a period of five days during remedial action for resair of zone senaration couloment in the well bore

Such production is in the interest of conservation 2: The minimarion of flaring the gas

All such production shall be accountable against the future allowands of subject wall in the South Blanco-Pictured Milife Boot.

Subject well is to be shut in at the completion of such renefal aution for communications costs

YOURS VERY TREETY.

A. R. Kendrick Engineer, Bistrict #3

ec; **H.**H.B.E.C **Sin**te Fe, 8, 6

EPRE (Familiages)
% W M Rodgers

om\X84

El Paso Natural Gas Company

El Paso, Texas

DIRECT REPLY TO: P.O. BOX 997 FARMINGTON, NEW MEXICO

June 26, 1958



Mr. E. C. Arnold Oil Conservation Commission 1000 Rio Brazos Road Aztec, New Mexico

Re: El Paso Natural Gas Company Well Bolack 13-C, SW 29-27-8.

Dear Mr. Arnold:

The above captioned well has been dually completed in the Mesa Verde and Pictured Cliffs zones. Tests that have been conducted on this well indicate there is leakage in the Mesa Verde tubing string, which permits Mesa Verde gas to flow into the Pictured Cliffs zone.

Presently an attempt is being made to seal the Mesa Verde tubing to stop this leak. In the process of sealing the tubing we need to produce the Pictured Cliffs zone. In order to prevent waste of gas (by flaring) we request permission to produce Pictured Cliff gas into our gathering system for this "work-over" period.

Very truly yours,

I. L. Kendrick

Gas Engineer

HLK/nb

New Mexico OIL CONSERVATION COMMISSION Aztec, New Mexico

April 11, 1958

21 Pasc Hatural Gas Company Dox 997 Paratagion, New Heales

Ass: Mr. Z. S. Oberly

Res Il Paso Kat. Gas #13-C Belack Sig Section 29-278-88 San Juan County

Centlemen!

This letter will serve as your tentative approval for the dual completion of the above well as a gas-gas dual in the Pictured Cliffs and Mesaverds Formstions.

It is understood the well will be equipped as set out in your application. Upon final completion, application for administrative approval should be unde to Hr. A. L. Porter in Santa Fe, as provided in Rule 112.

Yours very truly

Emery C. Arnold Supervisor, District #3

ECA I ke

ec: Mr. A. L. Porter Jr OCC, Santa Fe, N.M.

El Paso Natural Gas Company

El Paso, Texas

April 3, 1958

DIRECT REPLY TO: P. O. BOX 997 FARMINGTON, NEW MEXICO

Mr. Emery Arnold Oil Conservation Commission 1000 Rio Brazos Road Aztec, New Mexico

Dear Mr. Arnold:

This letter is to inform you that El Paso Natural Gas Company is in the process of drilling and dually completing the following well:

Bolack No. 13-C (PM)

SW 29-27-8

This well will be dually completed in the Pictured Cliffs and Mesa Verde formations as a gas-gas dual. A production packer will be installed on 2" EUE tubing between the two zones, and a $1\ l/4$ " siphon string will be landed opposite the upper zone. The Mesa Verde gas will be produced through the 2" tubing and the Pictured Cliffs gas will be produced through the casing. Upon final successful completion a formal application for administrative approval will be submitted to the Oil Conservation Commission in Santa Fe.

Yours very truly,

Division Petroleum Engineer

ESO:dgb

cc: U. S. G. S. (Phil McGrath)

D. N. Canfield

