

N MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED 123
MAR 31 1995
OIL CON. DIV.
DIST. 2

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12/14/1994	
Company Yates Petroleum Corp			Connection Transwestern Pipeline Co		
Pool Abo			Formation Pecos Slope		
Completion Date 11/07/1994		Total Depth 4250		Plug Back TD 4145	
				Elevation 3805	
Farm or Lease Name Thorpe MI Federal Com					
Csg Size 4.500	Wt 10.500	d 4.052	Set At 4250	Perforations: From 3666 To 3938	
Tbg Size 2.375	Wt 4.700	d 1.995	Set At 3616	Perforations: From 3666 To 3938	
Type Well Single				Packer Set At 3619	
Producing Thru Tubing				Baro. Press - Pa 13.2	
Resv. Temp °F 102 @ 4150				Mean Temp. °F 62	
L 3616				H 3616	
Gg 0.645		%CO ₂ 0.022		%N ₂ 5.890	
%H ₂ S 0.000		Prover 0.000		Meter Run 2.000	
Taps Flange					

FLOW DATA						TUBING DATA			CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	0.000	x	0.000	0	0.0	0	645	0			0
1	2.067	x	1.375	480	11.0	42	560	62			24
2	2.067	x	1.375	480	16.0	40	533	62			24
3	2.067	x	1.375	464	20.3	41	507	62			24
4	2.067	x	1.375	480	27.0	43	480	62			24
5		x									

RATE OF FLOW CALCULATIONS

NO	Coefficient (24 Hour)	$\sqrt{hwP_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	10.200	73.7	493.2	1.0178	1.246	1.049	999
2	10.200	88.8	493.2	1.0198	1.246	1.050	1208
3	10.200	98.3	476.8	1.0188	1.246	1.048	1334
4	10.200	115.4	493.2	1.0168	1.246	1.049	1563
5							

NO.	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
					0	
					A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.
1.	0.75	502	1.42	0.909	Specific Gravity Separator Gas	0.645
2.	0.75	500	1.41	0.907	Specific Gravity Flowing Fluid	XXXXXXXXXX
3.	0.72	501	1.41	0.911	Critical Pressure	661 P.S.I.A.
4.	0.75	503	1.42	0.909	Critical Temperature	354 °R
5.						

Pc	658.2	Pc²	433.2		(1) $\frac{Pc^2}{Pc^2 - Pw^2} = 3.719$	(2) $\left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 2.940$
NO.	Pt²	Pw	Pw²	Pc² - Pw²		
1	328.6	584.0	341.1	92.1		
2	298.3	562.8	316.7	116.5		
3	270.6	541.4	293.1	140.1		
4	243.2	523.7	274.3	158.9		
5.						

Absolute Open Flow	3552	Mcf @ 15.025	Angle of Slope	39	Slope, n	0.821
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Remarks

Approved By Commission:	Conducted By: David Weaver	Calculated By: Andrea Carpenter	Checked By:
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WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-122D

DATE 12/14/1994

COMPANY Yates Petroleum Corp LEASE Thorpe MI Federal Com WELL NO. 11

LOCATION: Unit J Section 3 Township 7S Range 25E

L 3616 H 3616 L / H 1.000 G 0.645 %CO₂ 0.022 %N₂ 5.890 %H₂S 0.000

d 1.995 Fr 0.017777 GH 2330.9 Pcr 660.7 Tcr 354.2

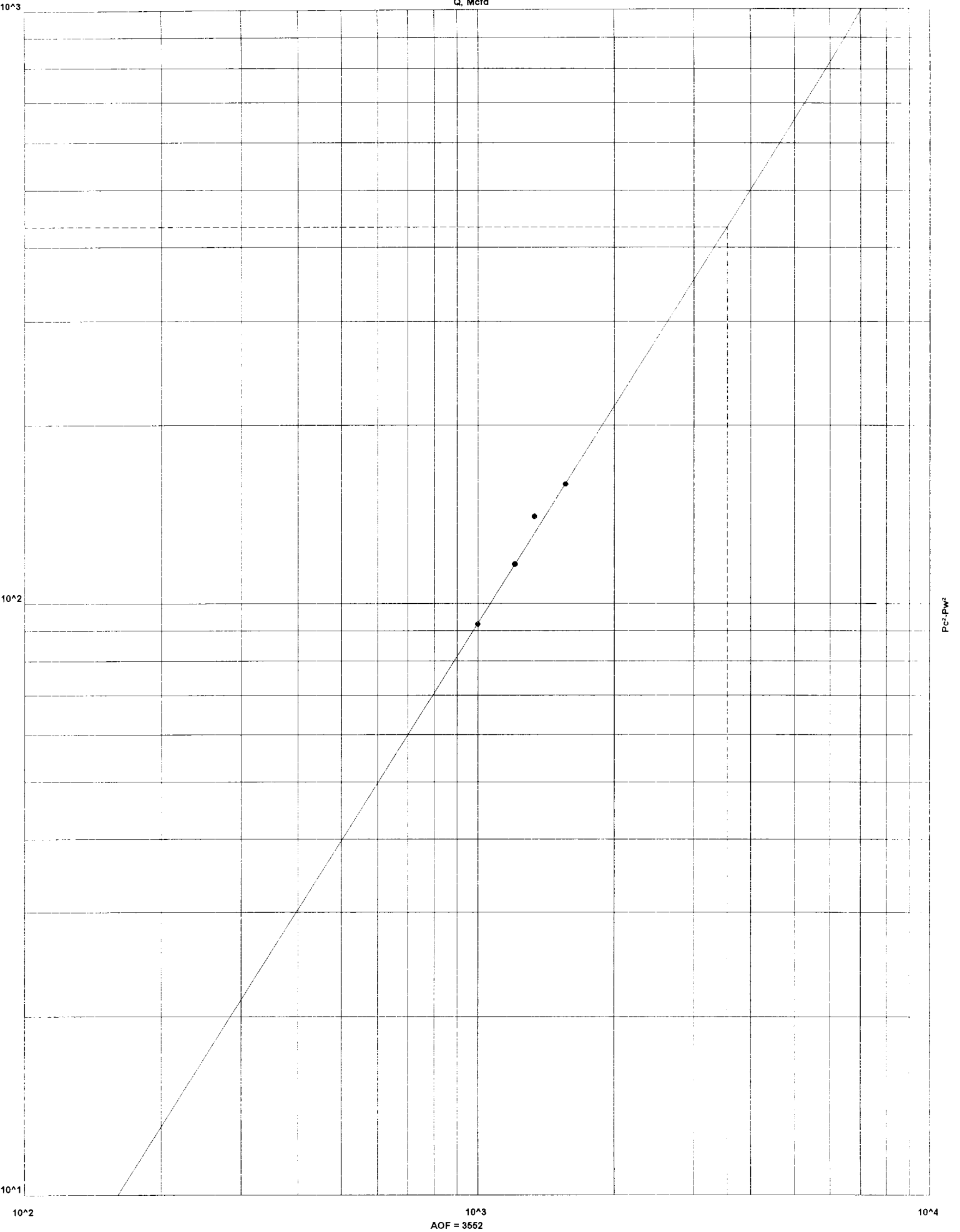
LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	0.999	1.208	1.334	1.563	
2 Tw(W.H.°R)	522	522	522	522	
3 Ts(B.H.°R)	562	562	562	562	
4 T = (Tw+Ts) / 2	541.7	541.7	541.7	541.7	
5 Z (Est.)	0.916	0.919	0.922	0.926	
6 TZ	496.1	497.9	499.6	501.3	
7 GH / TZ	4.699	4.682	4.665	4.649	
8 e ^{As} (Table XIV)	1.193	1.192	1.191	1.190	
9 1-e ^{As} (Table XIV)	0.162	0.161	0.160	0.160	
10 Pt	573.2	546.2	520.2	493.2	
11 Pt ² / 1000	328.6	298.3	270.6	243.2	
12 Fr (Table XV)	0.017777	0.017777	0.017777	0.017777	
13 Fc = FrTZ	8.819	8.850	8.882	8.912	
14 FcQm	8.81	10.69	11.85	13.93	
15 L / H(FcQm) ²	77.6	114.4	140.3	194.1	
16 Fw = L / H(FcQm) ² (1-e ^{As})	12.54	18.41	22.52	31.05	
17 Pw ² = Pt ² +Fw	341.1	316.7	293.1	274.3	
18 Ps ² = e ^{As} Pw ²	406.8	377.5	349.2	326.5	
19 Ps	637.8	614.4	590.9	571.4	
20 P = (Pt+Ps) / 2	605.5	580.3	555.6	532.3	
21 Pr = (P / Pcr)	0.92	0.88	0.84	0.81	
22 Tr = (T / Tcr)	1.53	1.53	1.53	1.53	
23 Z (Table XI)	0.916	0.919	0.922	0.926	

Company
Well
Location

Yates Petroleum Corp
Thorpe MI Federal Com #11
J 3-7S-25E

County
Date

Chaves
12-14-1994



13160-5
(1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM Oil Cons. Com. 12102
Drawer DD
Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

CISF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

Name of Operator
YATES PETROLEUM CORPORATION (505) 748-1471

Address and Telephone No.
105 South 4th St., Artesia, NM 88210

Location of Well (Footage, Sec., T., R., M., of Survey Description)

Section 3-T7S-R25E

1650 FSL 1980 FEL
(5)

JAN 17 '95

O.C.D.

5. Lease Designation and Serial No.
NM-28162

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Thorpe MI Fed. Com. #11

9. API Well No.
30-005-63019

10. Field and Pool, or Exploratory Area
Pecos Slope Abo

11. County or Parish, State

Chaves, New Mexico

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☒ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Yates Petroleum Corporation is submitting application for produced water from the above well pursuant to NTL -2B, Section II, and requests your approval. The well produces approximately 0 bbls of water per day from the Pecos Slope Abo formation. The water will be stored in a 200 bbls stock tank and trucked by Jim's Water Service to the Federal HJ SWD permitt # R-5455. If at any time the above well does produce water at any time Yates will submit a water analysis.

I hereby certify that the foregoing is true and correct

Signed Shannon Campbell

Title Production Clerk

Date 1/16/95

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

APPROVED
PETER W. CHESTER
Date

JAN 11 1995

18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side