

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

Form C-122  
Revised 9-1-6

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 2-23-81		<b>APR 23 1981</b>							
Company Yates Petroleum Corporation			Connection Transwestern Pipeline Co.								
Pool <del>Unders. Abo</del> <i>Pecos Slope - Abo Gas</i>			Formation Abo		Unit ARTESIA, OFFICE						
Completion Date 10-2-80		Total Depth 4150 KB		Plug Back TD 4122 KB							
		Elevation 3819 KB		Form or Lease Name Thorpe MI Fed. <i>2</i>							
Cas. Size 5 1/2"	Wt. 14#	d 5.012"	Set At 4125 KB	Perforations: From 3958 To 3964							
Thg. Size 2 7/8"	Wt. 6.5#	d 2.441"	Set At 3885 KB	Perforations: From To							
Type Well - Single - Bradenhead - G.C. or G.O. Multiple single			Packer Set At 3885		County Chaves						
Producing Thru Tubing		Reservoir Temp. °F 100#3961		Mean Annual Temp. °F 62							
				Baro. Press. - P <sub>g</sub> 13.2							
L 3960		H 3960		C <sub>g</sub> 0.648							
		% CO <sub>2</sub> 0.71		% N <sub>2</sub> 9.43							
		% H <sub>2</sub> S N.7		Prover --							
		Meter Run 2		Taps Flanged							
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1005	74			Weeks
1.	2.067	X	0.875	430	11	66	958	76			20 hrs.
2.	2.067	X	0.875	430	20	66	904	77			24
3.	2.067	X	0.875	430	37	66	809	78			24
4.	2.067	X	0.875	430	61	66	665	79			24
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd				
1	3.729	69.82	443.2	.9943	1.242	1.0412	335				
2	3.729	94.15	443.2	.9943	1.242	1.0412	451				
3	3.729	128.06	443.2	.9943	1.242	1.0412	614				
4	3.729	164.42	443.2	.9943	1.242	1.0412	788				
5											
NO.	P <sub>t</sub>	Temp. °R	T <sub>t</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1	0.801	526	1.514	.9225	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2	0.801	526	1.514	.9225	Specific Gravity Separator Gas 0.648						
3	0.801	526	1.514	.9225	Specific Gravity Flowing Fluid XXXXX						
4	0.801	526	1.514	.9225	Critical Pressure 656.5 P.S.I.A.						
5					Critical Temperature 347.5 R						
F <sub>c</sub> 1126.2    F <sub>c</sub> <sup>2</sup> 1268											
NO	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub> <sup>2</sup>	R <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - R <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_t^2 - R_w^2} = 1.7910$	(2) $\left[ \frac{P_t^2}{P_c^2 - R_w^2} \right]^n = 1.3556$					
1			1152	116							
2			1027	241							
3			824	444							
4			560	708							
5											
Absolute Open Flow 1068 Mcfd @ 15.025					Angle of Slope @ 50.37 deg.						
Slope, n 0.5221											
Remarks: Static pressures extrapolated from Bennett Wireline BHP survey, flowing pressures from Dead Weight Tester. Calculations worksheet C122D attached.											
Approved By Commission:		Conducted By: David Weaver		Calculated By: Eddie Mahfood		Checked By:					





FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

Authorization to Transport Oil and Natural Gas

OCT 9 1980

O. C. D. ARTESIA OFFICE

Operator Yates Petroleum Corporation ✓ Address 207 South 4th St., Artesia, NM 88210

Reason(s) for filing (Check proper box)		Other (Please explain)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of Oil <input type="checkbox"/>		
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>	
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>	

If change of ownership give name and address of previous owner

DESCRIPTION OF WELL AND LEASE *Pecos Slope - Abo Gas*

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
Thorpe MI Federal Com.	2	<del>Wildcat</del>	Federal State, Federal or Fee	USA-NM-28162

Location Unit Letter L : 1980 Feet From The South Line and 660 Feet From The West

Line of Section 3 Township 7S Range 25 , NMPM, Chaves County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Navajo Crude Oil Purchasing Co.	North Freeman, Artesia, NM 88210
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Transwestern Pipeline Company	P.O. Box 2521, Houston, TX 77001

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rgn.	Is gas actually connected?	When
	L	3	7S	25E	Yes	<del>Approx 2-4 weeks</del> 2-23-81

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

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same flow	Diff. Res
		X	X					

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
8-25-80	9-12-80	4150'	3892'
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
3812' GR	Abo	3958'	3892'
Perforations			Depth Casing Shoe
3958-64'			4125'

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8"	280'	350
12-1/4"	8-5/8"	1524'	1976
6-1/4"	5-1/2"	4125'	450
	2-7/8"	3892'	

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top oil)

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/MCF	Gravity of Condensate
1240	24		
Sealing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
Back Pressure	185#	Packer	1/2"

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.

*Albert R. Stall*  
(Signature)  
Albert R. Stall, Engineer  
(Title)  
October 8, 1980  
(Date)

OIL CONSERVATION COMMISSION

APPROVED FEB 27 1981, 19\_\_

BY W. A. Grasset

TITLE SUPERVISOR, DISTRICT II

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 cement tests taken on the well in accordance with RULE 111. All sections of this form must be filled out completely for all wells on new and recompleted wells. Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter, or other such change of condition.

NEW MEXICO OIL CONSERVATION DIVISION

P. O. DRAWER "DD"

ARTESIA, NEW MEXICO 88210

RECEIVED

FEB 25 1981

O. T. D.  
ARTESIA OFFICE

AIR MAIL

NOTICE OF GAS CONNECTION

DATE February 24, 1981

This is to notify the Oil Conservation Division that connection for the purchase of gas from the Yates Petroleum Corporation Operator

Thorpe "MI" Federal *Conn*  
Lease

Well #2 - Unit Letter "L"  
Well Unit

3-7S-25E, Chaves County  
S.T.R.

*Wildcat*  
Wildcat (Abo)  
Pool

Transwestern  
Name of purchaser

was made on February 23, 1981

Transwestern Pipeline Company  
Company

*H. N. Aicklen*  
H. N. Aicklen  
Representative

Supervisor Gas Purchase Contract Administration  
Title

cc: Operator  
Oil Conservation Division - Santa Fe