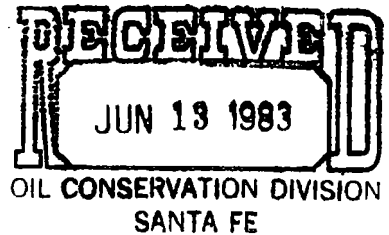




Mark K. Mosley  
Division Manager  
Production Department  
Hobbs Division  
North American Production

Conoco Inc.  
P. O. Box 460  
726 E. Michigan  
Hobbs, NM 88240  
(505) 393-4141



June 8, 1983

Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501



Attention: Joe D. Ramey

Gentlemen:

N. E. Haynes No. 14, Unit Letter D, Sec. 22, T-24N, R-5W, Rio Arriba  
County

Administrative Order TX-100, authorized by your letter dated October 18, 1982, allowed us to produce the above referenced well through the casing. This is to advise you that we now intend to run 1-1/4-inch tubing in this well to unload liquids.

Yours very truly,

MEG:cyg

cc: NMOCD - Aztec  
WAB - Hobbs  
Leon Grant - Farmington

PVZV2004437140

ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
P. O. BOX 2088  
Santa Fe, New Mexico 87501

October 18, 1982

Conoco Inc.  
P. O. Box 460  
Hobbs, New Mexico 88240

Attention: Mr. W. K. Mosely

Administrative Order TX-100

Gentlemen:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d)(3) for the below-named well.

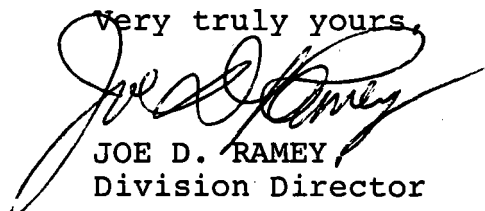
Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized to produce the following well through the casing from a depth of approximately 2560 feet:

<u>LEASE NAME</u>	<u>WELL NO.</u>	<u>UNIT</u>	<u>S-T-R</u>
N. E. Haynes	14	D	22-24N-5W

It is our understanding that this well produces no liquids; further, that in the event it should start significant production of liquids, Conoco would run a string of 1 1/4-inch tubing to unload the liquids.

The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

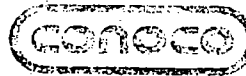
Very truly yours,



JOE D. RAMEY  
Division Director

JDR/DSN/dr

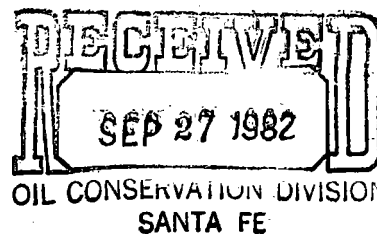
cc: Oil Conservation Division - Aztec



Mark K. Mosley  
Division Manager  
Production Department  
Hobbs Division  
North American Production

Conoco Inc.  
P. O. Box 460  
726 E. Michigan  
Hobbs, NM 88240  
(505) 393-4141

July 14, 1982



New Mexico Oil Conservation Division  
Department of Energy & Minerals  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attn: Joe Ramey

Gentlemen:

Conoco Inc. respectfully requests administrative approval to produce N. E. Haynes No. 14 as a tubingless completion.

The N. E. Haynes No. 14 is currently being drilled as a proposed gas well in the Pictured Cliffs formation. It is located 1090' FNL & 820' FWL of Section 22, T-24N, R-5W in Rio Arriba County.

We propose to drill this well to a total depth of 2560' with the following casing and cementing programs:

Casing:

Surface - 8-5/8" 24#, K-55 set at 308'  
Production - 3-1/2", 9.3#, J-55 8-rd set at 2560'

Cement:

Surface - cemented with 210 sx Class "B" to surface  
Production - cemented with 300 sx Class "B" light  
and 100 sx Class "B" neat to surface.

This well is expected to produce an average daily rate of 170 MCF with little or no fluid production. In the event the well begins significant production of liquids, Conoco intends to run 1-1/4", 1.7#, I.J. tubing to unload the well.

In our opinion, no loss of production and/or reserves due to the above well completion will result, therefore, we respectfully request administrative approval to produce this well as a tubingless completion.

Yours very truly,

MEG:jlj  
cc: NMOCD - Aztec

## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GASRECEIVED  
SEP 27 1982  
OIL CONSERVATION DIVISION  
SANTA FE

NAME OF OPERATOR	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.S.	
LAND OFFICE	
TRANSPORTER	OIL
	NATURAL GAS
OPERATION	
REGISTRATION OFFICE	
Operator	

Conoco Inc.

Address

P. O. Box 460, Hobbs, New Mexico 88240

Reason(s) for filing (Check proper box)

New Well	<input checked="" type="checkbox"/>	Change in Transporter of:	
Recompletion	<input type="checkbox"/>	Oil	<input type="checkbox"/>
Change in Ownership	<input type="checkbox"/>	Casinghead Gas	<input type="checkbox"/>
		Dry Gas	<input type="checkbox"/>
		Condensate	<input type="checkbox"/>

Other (Please explain)

If change of ownership give name  
and address of previous owner

## II. DESCRIPTION OF WELL AND LEASE

Lease Name Northeast Haynes	Well No. 14	Pool Name, including Formation Ballard Pictured Cliffs	Kind of Lease State, Federal or Fee Indian	Lease No. C-36
Location Unit Letter <u>D</u> : <u>1,090</u> Feet From The <u>North</u> Line and <u>820</u> Feet From The <u>West</u> Line of Section <u>22</u> Township <u>24N</u> Range <u>5W</u> NMPM, <u>Rio Arriba</u> County				

## III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
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)	
Conoco Inc.	P. O. Box 460, Hobbs, New Mexico 88240	
If well produces oil or liquids, give location of tanks.	Unit	Sec.
	Twp.	Rge.
	Is gas actually connected? When	
	Yes 9-15-82	

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

## IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 6-14-82	Date Compl. Ready to Prod. 9-2-82	Total Depth 2,560'	P.B.T.D. 2,478'					
Elevations (DF, RKB, RT, GR, etc.) GL 6,684'	Name of Producing Formation Pictured Cliffs	Top Oil/Gas Pay 2,381'	Tubing Depth					
Perforations 2,381', 83', 85', 87', 89', 91', 93', 98', 99', 2,401', 29', 31', 33'		Depth Casing Shoe 2,560'						
TUBING, CASING, AND CEMENTING RECORD 2435'								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
12-1/4"	8-5/8"	308'	210					
6-1/2"	3-1/2"	2,560'	300					

## V. 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 allowable for this depth or be for full 24 hours)

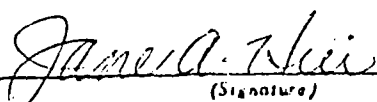
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

## GAS WELL

Actual Prod. Test-MCF/D 1,499 AOF	Length of Test 24 hrs.	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.) Flow	Tubing Pressure (Shut-in) N/A	Casing Pressure (Shut-in) N/A	Choke Size N/A

## I. CERTIFICATE OF COMPLIANCE

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

Administrative Supervisor  
(Title)September 20, 1982  
(Date)

## OIL CONSERVATION DIVISION

APPROVED \_\_\_\_\_, 19\_\_\_\_

BY \_\_\_\_\_

TITLE \_\_\_\_\_

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 deviated 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 multiple completed wells.

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

Form C-122  
 Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 9/14/82	
Company Conoco Inc.				Connection New		
Pool Ballard				Formation Picture Cliff		Unit d
Completion Date 9/2/82		Total Depth 2560		Plug Back TD 2529		Elevation 6684
Csg. Size 3 1/2		Wt. 9.3 #	d 2.992	Set At 2560	Perforations: From 2381 To 2435	
Tbg. Size None		Wt.	d	Set At	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas				Packer Set At None		Farm or Lease Name N.E. Haynes
Producing Thru Casing 2402		Reservoir Temp. °F 94° @ 2402		Mean Annual Temp. °F 55°		Baro. Press. - P <sub>a</sub> 12.2
L 2402		H 2402	G <sub>g</sub> .640	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S
				Prover 3/4" C.N.	Meter Run	Taps

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	7 DAYS										S.I.
1.	3/4" x 6" Choke Nipple								612 #	67°	3 hours
2.											
3.											
4.											
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11.00		109.2	.9933	1.250	n/a.	1491.4
2.							
3.							
4.							
5.							

NO.	P <sub>t</sub>	Temp. °R	T <sub>g</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P <sub>c</sub> 224.2	P <sub>c</sub> 224.2	P <sub>w</sub> 25.64	
NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>
1			25.64
2			
3			
4			
5			

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.006$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1498.85$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.005$

Absolute Open Flow	1498.85	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
Remarks:				

Approved By Commission:	Conducted By: R.A. Farmer	Calculated By: R.A. Farmer	Checked By:
-------------------------	------------------------------	-------------------------------	-------------