

AMOCC-3
Leppin-1
Truby-1
File-1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Gallup County Rio Arriba
Initial XX Annual _____ Special _____ Date of Test 4-25-57
Company Northwest Production Corp. Lease "NE" Well No. 1-16
Unit L Sec. 16 Twp. 27N Rge. 2W Purchaser Not connected
Casing 5 1/2 Wt. 14.15.5 M.D. _____ Set at 7364 Perf. 7264 To 7346
Tubing 2-3/8 Wt. 4.7# I.D. _____ Set at 7320 Perf. _____ To _____
Gas Pay: From 7264 To 7346 L _____ xG Est. .70 -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing XX Type Well Single-Gas
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: 4-12-57 Packer No Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Packer) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1148		1317		SI
1.										
2.										
3.		3/4				70	61	307		3 hrs.
4.										
5.										

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.							
2.							
3.	12.3650		82	.9990	.9258	1.0	838
4.							
5.							

PRESSURE CALCULATIONS

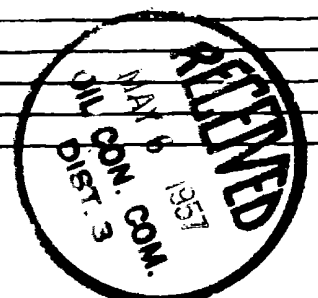
Gas Liquid Hydrocarbon Ratio 12.096 cf/bbl.
Gravity of Liquid Hydrocarbons 43 deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1329 P_c² 1766

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.									
2.									
3.						102	1664		1.0613
4.									
5.									

Absolute Potential: 981 w/49.12 BOPD MCFPD; n .75/1.0456

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405 1/2 W. Broadway, Farmington, New Mexico
AGENT and TITLE C. R. Wagner, Well Test Engineer
WITNESSED _____
COMPANY _____

REMARKS





LTR



Job separation sheet

(SUBMIT IN TRIPLICATE)

	16	
2		

2000-6
Superior-1
File-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Allottee Continental Oil
Lease No. _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL _____	SUBSEQUENT REPORT OF WATER SHUT-OFF _____
NOTICE OF INTENTION TO CHANGE PLANS _____	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING _____
NOTICE OF INTENTION TO TEST WATER SHUT-OFF _____	SUBSEQUENT REPORT OF ALTERING CASING _____
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL _____	SUBSEQUENT REPORT OF REDRILLING OR REPAIR _____
NOTICE OF INTENTION TO SHOOT OR ACIDIZE _____	SUBSEQUENT REPORT OF ABANDONMENT _____
NOTICE OF INTENTION TO PULL OR ALTER CASING _____	SUPPLEMENTARY WELL HISTORY _____
NOTICE OF INTENTION TO ABANDON WELL _____	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Well No. "NE" 1-16 is located 1200 ft. from NE line and 900 ft. from W line of sec. 16
NE/4 SW/4 16 (1/4 Sec. and Sec. No.) 17E (Twp.) 2N (Range) 100W (Meridian)
Wildcat - Gallup & Wildcat (County or Subdivision) New Mexico (State or Territory)

The elevation of the well head above sea level is 7272 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

WD 7205'. NW 7205'. Well completed in Gallup formation from 7204-7206 on April 25, 1957 with an absolute open flow potential of 901 MW gas and 40.12 bbl oil. Purpose to NE compl rig. isolate the Gallup with a temp bridge plug. perforate the 5" casing opposite the Mancosha formation from 7200 to 7204' and fracture with 100,000 gal water. Clean out to 7205', hang 2-1/2" OD tubing at 7205' and set production packer at 7204' w/ side-door choke w/weight then cement at 7204'. Complete well to produce the Gallup thru the tubing and the Mancosha thru the tubing-casing annulus. The NW/4 of Section 16, containing 160 acres is dedicated for both the Mancosha and Gallup formations.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

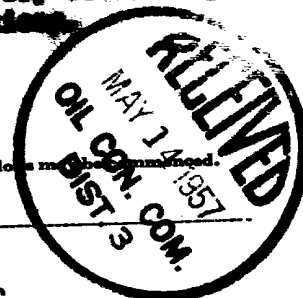
Company Continental Production Corp.

Address 300 Glass Bldg

Albuquerque, N.M.

By RAY PHILLIPS
Ray Phillips

Title Asst Mgr. Prod Ops



NEW MEXICO
OIL CONSERVATION COMMISSION

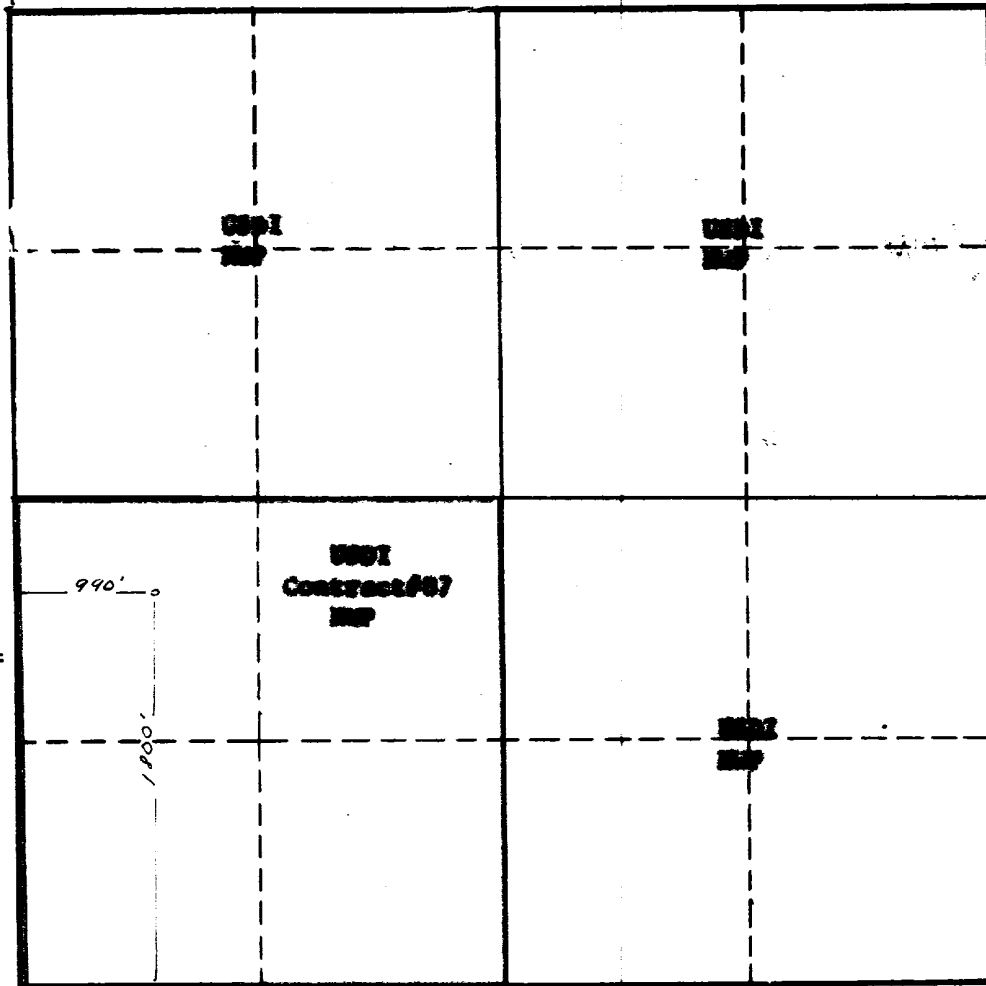
Form C-128

Well Location and/or Gas Proration Plat

Date May 18, 1937

Operator Northwest Production Corporation Lease "N"
Well No. 1-16 Section 14 Township 27 North Range 2 West NMPM
Located 1000 Feet From South Line, 930 Feet From West Line,
Rio Arriba County, New Mexico. G. L. Elevation 7272
Name of Producing Formation Masovada Pool Wildcat Dedicated Acreage 160

(Note: All distances must be from outer boundaries of Section)



NOTE

This section of form is to be used for gas wells only.



SCALE: 1"=1000'

1. Is this Well a Dual Comp. ? Yes X No .
2. If the answer to Question 1 is yes, are there any other dually completed wells within the dedicated acreage ? Yes No X.

RAY PHILLIPS

Name Ray Phillips
Position Asst. Mgr., Prod. Operations
Representing Northwest Production Corp.
Address 300 Stone Bldg., Albuquerque, N.M.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed December 2, 1936
/s/ Ernest V. Schuchman
Registered Professional Engineer and/or Land Surveyor



LTR



Job separation sheet

NORTHWEST PRODUCTION CORPORATION

ALBUQUERQUE, NEW MEXICO

May 15, 1957

REPLY TO:
520 SIMMS BUILDING
ALBUQUERQUE, NEW MEXICO

New Mexico Oil Conservation Commission
120 East Chaco
Aztec, New Mexico



Attention: Mr. Emery C. Arnold

Re: Application for Dual Completion of
Northwest Production Corporation's
Well "NE" 1-16.

Gentlemen:

Northwest Production Corporation requests tentative approval to dually complete Well "NE" 1-16 in the Mesaverde and Gallup formations. The well is located 1800 feet from the South line and 990 feet from the West line in the NW/4 of the SW/4 of Section 16, Township 27 North, Range 2 West, Rio Arriba County, New Mexico. It will be classified as a wildcat in both the Mesaverde and Gallup formations.

In accordance with Rule 112-A of the Commission Rules and Regulations, notice of this application is being furnished by registered mail to Magnolia Petroleum Company, P. O. Box 900, Dallas, Texas, owner of mineral rights on offsetting acreage as indicated on the attached plat.

Well "NE" 1-16 was drilled to 4008 feet where 7-5/8 inch OD casing was cemented. A 6-3/4 inch hole was drilled to 7365 feet and 5-1/2 inch OD casing was cemented at 7364 feet. The Gallup formation was fractured through perforations in the 5-1/2 inch casing from 7264 feet to 7346 feet in two stages and the well was completed in the Gallup formation on April 25, 1957, with an absolute open flow potential of 981 MCFD. During the three hour test, 6.14 barrels of oil were produced with the gas.

The procedure for dually completing Well "NE" 1-16 would be as follows:

1. Move in and rig up completion unit, kill well and pull 2-3/8 inch OD tubing.
2. Set a temporary bridge plug to isolate the Gallup formation.
3. Perforate the 5-1/2 inch casing opposite the Mesaverde formation from 5668 feet to 6102 feet and fracture with approximately 150,000 gallons of water.

Page 2 - NMOCC

Re: "NE" 1-16

4. Retrieve the bridge plug and clean out to the plugged back depth of 7360 feet.
5. Set a production packer at approximately 7234 feet.
6. Run 2-3/8 inch OD tubing with side door choke set at approximately 7204 feet.
7. Install straight through mandril in side door choke to produce the Gallup formation through the tubing and the Mesaverde formation through the tubing-casing annulus.

Should you desire additional information before approving the proposed work, please advise.

Very truly yours,

NORTHWEST PRODUCTION CORPORATION



W. R. Johnston, Manager
Production Operations

WRJ/RP/nt

In triplicate

cc: USGS, Farmington, N.M.
Magnolia Petroleum Co.

May 15, 1957



New Mexico Oil Conservation Commission
120 East Chase
Artec, New Mexico

Attention: Mr. Emery C. Arnold

Re: Application for Dual Completion of
Northwest Production Corporation's
Well "NE" 1-16.

Gentlemen:

Northwest Production Corporation requests tentative approval to dually complete Well "NE" 1-16 in the Mesaverde and Gallup formations. The well is located 1800 feet from the South line and 990 feet from the West line in the NW/4 of the SW/4 of Section 16, Township 27 North, Range 2 West, Rio Arriba County, New Mexico. It will be classified as a wildcat in both the Mesaverde and Gallup formations.

In accordance with Rule 112-A of the Commission Rules and Regulations, notice of this application is being furnished by registered mail to Magnolia Petroleum Company, P. O. Box 900, Dallas, Texas, owner of mineral rights on offsetting acreage as indicated on the attached plat.

Well "NE" 1-16 was drilled to 4008 feet where 7-5/8 inch OD casing was cemented. A 6-3/4 inch hole was drilled to 7345 feet and 5-1/2 inch OD casing was cemented at 7364 feet. The Gallup formation was fractured through perforations in the 5-1/2 inch casing from 7264 feet to 7346 feet in two stages and the well was completed in the Gallup formation on April 25, 1957, with an absolute open flow potential of 981 MCFD. During the three hour test, 6.14 barrels of oil were produced with the gas.

The procedure for dually completing Well "NE" 1-16 would be as follows:

1. Move in and rig up completion unit, kill well and pull 2-3/8 inch OD tubing.
2. Set a temporary bridge plug to isolate the Gallup formation.
3. Perforate the 5-1/2 inch casing opposite the Mesaverde formation from 5888 feet to 6102 feet and fracture with approximately 150,000 gallons of water.

Page 2 - ENECCC
Re: "NE" 1-16

4. Retrieve the bridge plug and clean out to the plugged back depth of 7363 feet.
5. Set a production packer at approximately 7234 feet.
6. Run 2-3/8 inch OD tubing with side door choke set at approximately 7294 feet.
7. Install straight through mandril in side door choke to produce the Gallup formation through the tubing and the Mesaverde formation through the tubing-casing annulus.

Should you desire additional information before approving the proposed work, please advise.

Very truly yours,

NORTHWEST PRODUCTION CORPORATION

ORIGINAL SIGNED BY
W. R. JOHNSTON

**W. R. Johnston, Manager
Production Operations**

WRJ/EP/nt

In triplicate

cc: USGS, Farmington, N.M.
Magnolia Petroleum Co.

May 15, 1957

New Mexico Oil Conservation Commission
130 East Chaco
Alto, New Mexico



Attention: Mr. Emory C. Arnold

Re: Application for Dual Completion of
Northwest Production Corporation's
Well "NE" 1-16.

Gentlemen:

Northwest Production Corporation requests tentative approval to dually complete Well "NE" 1-16 in the Mesaverde and Gallup formations. The well is located 1800 feet from the South line and 900 feet from the West line in the NW/4 of the SW/4 of Section 16, Township 37 North, Range 2 West, Rio Arriba County, New Mexico. It will be classified as a wildcat in both the Mesaverde and Gallup formations.

In accordance with Rule 112-A of the Commission Rules and Regulations, notice of this application is being furnished by registered mail to Magnolia Petroleum Company P. O. Box 900, Dallas, Texas, owner of mineral rights on offsetting acreage as indicated on the attached plat.

Well "NE" 1-16 was drilled to 4008 feet where 7-5/8 inch OD casing was cemented. A 6-3/4 inch hole was drilled to 7305 feet and 5-1/2 inch OD casing was cemented at 7304 feet. The Gallup formation was fractured through perforations in the 5-1/2 inch casing from 7294 feet to 7346 feet in two stages and the well was completed in the Gallup formation on April 25, 1957, with an absolute open flow potential of 961 MCFD. During the three hour test, 6.14 barrels of oil were produced with the gas.

The procedure for dually completing Well "NE" 1-16 would be as follows:

1. Move in and rig up completion unit, kill well and pull 2-3/8 inch OD tubing.
2. Set a temporary bridge plug to isolate the Gallup formation.
3. Perforate the 5-1/2 inch casing opposite the Mesaverde formation from 5668 feet to 6108 feet and fracture with approximately 150,000 gallons of water.



LTR



Job separation sheet

RESUBMITTAL

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR ~~(GAS)~~ - (GAS) ALLOWABLE

New Well
~~REOPENING~~

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Albuquerque, New Mexico

March 28, 1958

(Place)

(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Northwest Production Corp.

"NK"

1-16

NW

SW

, Well No. _____, in _____ 1/4 _____ 1/4,

(Company or Operator)

(Lease)

L

Sec. 16

T. 27W

R. 2W

NMPM.

Wildcat

Pool

Unit Letter

Rio Arriba

County. Date Spudded 1-27-57

Date Drilling Completed 4-12-57

Elevation 7272 ungr grnd

Total Depth 7365

PBTD 7360

Please indicate location:

Top Oil/Gas Pay 7264

Name of Prod. Form. Gallup

PRODUCING INTERVAL -

Perforations 7310-7346, 7264-7276

Open Hole _____

Depth 7364

Depth 7320.44

Tubing

OIL WELL TEST -

Natural Prod. Test: _____ bbls. oil, _____ bbls. water in _____ hrs, _____ min. Size _____

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): _____ bbls. oil, _____ bbls. water in _____ hrs, _____ min. Size _____

GAS WELL TEST -

Natural Prod. Test: _____ MCF/Day; Hours flowed _____ Choke Size _____

Method of Testing (pitot, back pressure, etc.): _____

Test After Acid or Fracture Treatment: 938 MCF/Day; Hours flowed 3

Choke Size 3/4 Method of Testing: Back pressure

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): treated parts w/1000 gals. Howco HCA acid, frac w/17,010 gals. crude and 10,000# sand. frac w/26,040 gals. crude, 15,000# sd.

Casing _____ Tubing _____ Date first new _____
Press. _____ Press. _____ oil run to tanks _____

Oil Transporter _____

Gas Transporter Pacific Northwest Pipeline Corporation

Remarks:

This well produces no oil.

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved MAR 31 1958 _____, 19____

OIL CONSERVATION COMMISSION

By: Original Signed Emery C. Arnold

Title Supervisor Dist. # 3

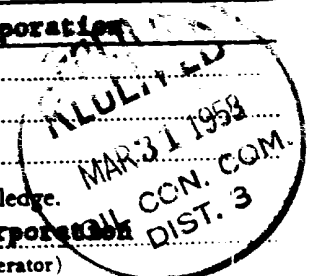
RAY PHILLIPS (Company or Operator)
By: Ray Phillips
(Signature)

Title Manager, Production Operations

Send Communications regarding well to:

Name Ray Phillips

Address 520 Sims Building, Albuquerque, N.M.





LTR



Job separation sheet

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form O-119
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator NORTHWEST PRODUCTION CORPORATION Lease NE

Well No. 1-16 Unit Letter L S 16 T 27N R 2W Pool WILDCAT (GALLUP)

County RIO ARriba Kind of Lease (State, Fed. or Patented) FEDERAL

If well produces oil or condensate, give location of tanks: Unit L S 16 T 27N R 2W

Authorized Transporter of Oil or Condensate EL PASO NATURAL GAS PRODUCTS CO.

Address BOX 1565, FARMINGTON, N.M.

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas EL PASO NATURAL GAS CO.

Address BOX 997, FARMINGTON, N. M. Date Connected JAN 1 1960

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well ()

Change in Transporter of (Check One): Oil () Dry Gas (X) C'head () Condensate ()

Change in Ownership () Other ()

Remarks: (Give explanation below)

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the day of FEB 3 1960 19

Approved MAR 29 1960 19

OIL CONSERVATION COMMISSION
By Original Signed Emery C. Arnold

Title Supervisor Dist. # 3

By RAY PHILLIPS
RAY PHILLIPS

Title MAN., PROD. OPER.

Company NORTHWEST PRODUCTION CORPORATION

Address 520 SIMMS BUILDING
ALBUQUERQUE, NEW MEXICO

