IN REPLY REFER TO:

COPY TO O.C.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 965
Farmington, New Mexico

June 14, 1956

Northwest Production Corporation
520 Simms Building
Albuquerque, New Mexico

Re: Jicarilla Contract 119

Gentlemen:

Receipt is acknowledged of your "Notice of Intention to Drill" dated June 11, 1956 covering your well No. L-8 "N" in NW¼ SW¼ sec. 8, T. 26 N., R. 4 W., N. M. P. M., Rio Arriba County, New Mexico, Tapacito-P.C. ext.

Your proposed work is hereby approved subject to compliance with the provisions of the "Oil and Gas Operating Regulations" revised May 25, 1942, a copy of which will be sent to you on request, and subject to the following conditions:

1. Drilling operations so authorized are subject to the attached sheet for general conditions of approval.

2. Furnish copies of all logs.

Very truly yours,

(Orig. Sgd.) P. T. McGRATH

P. T. McGrath
District Engineer

PTMcGrath:ac
cc - Jicarilla Agency

RECEIVED
JUL 16 1956
OIL CON. COM.
DIST. 3

Form 9-331 b
(April 1952)

[redacted]
[redacted]

Budget Bureau No. 42-R-359.3.
Approval expires 12-31-55.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____
[redacted]
Allottee [redacted]
Lease No. _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	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)

[redacted], 19[redacted]

Well No. [redacted] is located [redacted] ft. from {S} line and [redacted] ft. from {W} line of sec. [redacted]

[redacted] (¼ Sec. and Sec. No.) [redacted] (Twp.) [redacted] (Range) [redacted] (Meridian)

[redacted] (Field) FC ext. [redacted] (County or Subdivision) [redacted] (State or Territory)

The elevation of the [redacted] above sea level is [redacted] 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)

[redacted]

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

Company [redacted]

Address [redacted]

[redacted]

By [redacted]

Title [redacted]

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-7

NEW MEXICO
OIL CONSERVATION COMMISSION

Form C-128

Well Location and/or Gas Proration Plat

Date June 11, 1956

Operator NORTHWEST PRODUCTION COMPANY Lease "B"

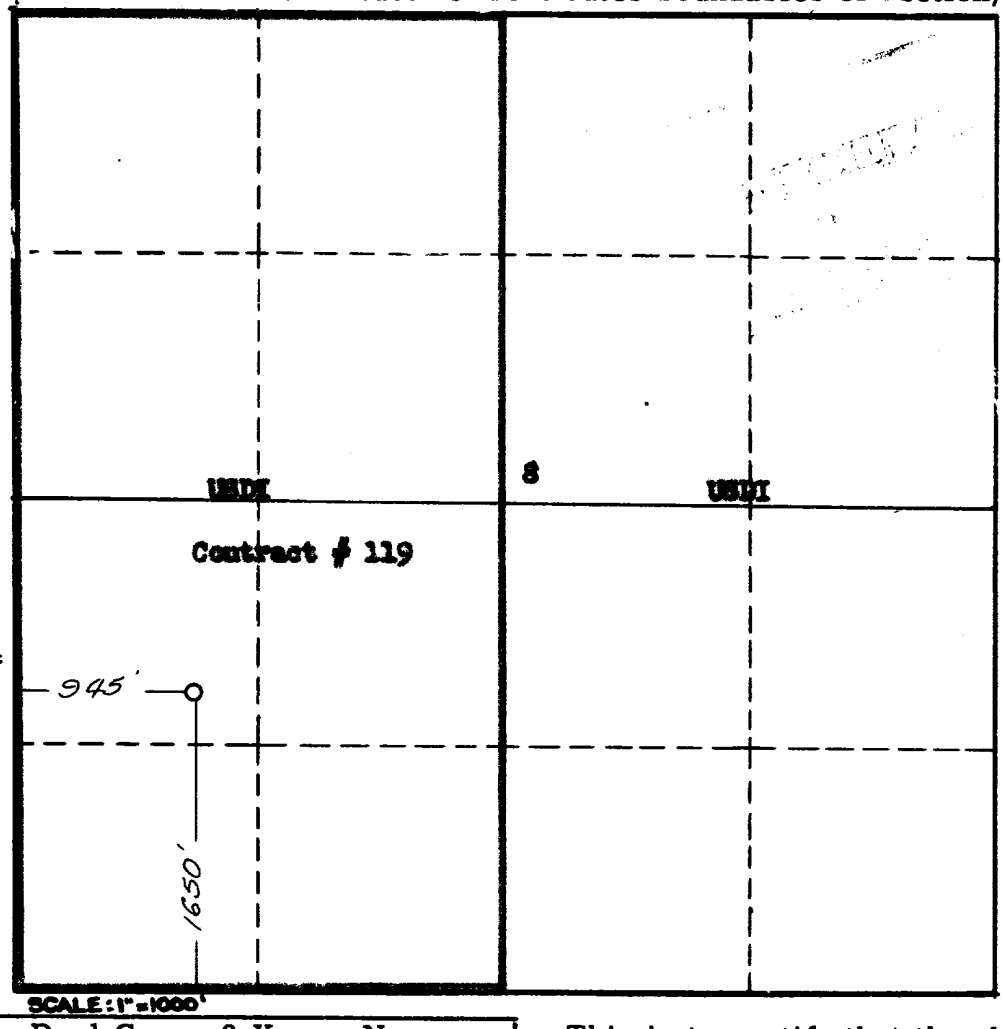
Well No. 1-8 Section 8 Township 26 NORTH Range 4 WEST, NMPM

Located 1650 Feet From the SOUTH Line, 945 Feet From the WEST Line,

RIO ARRIBA County, New Mexico. G. L. Elevation 6805.8 UNGRADED GROUND

Name of Producing Formation Pictured Cliffs Pool Tapacitos Dedicated Acreage 320

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



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

1. Is this Well a Dual Comp.? Yes ___ No X.

2. If the answer to Question 1 is yes, are there any other dually completed wells within the dedicated acreage? Yes ___ No ___.

Name Ray Phillips, Jr.
Position Asst Mgr, Production Operations
Representing NORTHWEST PRODUCTION CORPORATION
Address 520 Simms 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 8 JUNE 1956

James P. Leese
Registered Professional Engineer and/or Land Surveyor James P. Leese
N. Mex. Reg. No. 1463

Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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)

Pool: Tapacito PC Formation: Pictured Cliffs County: Rio Arriba

Purchasing Pipeline: Pacific Northwest Pipeline Corp. Date Test Filed: 6-3-57

Operator: Northwest Production Corp. Lease: "H" Well No.: 1-8

Unit: L Sec.: 8 Twp.: 26N Rge.: 4W Pay Zone: From: 3492 To: 3510

Casing: OD: 4½ WT.: 9.5 Set At: 3672 Tubing: OD: 1½ WT.: 2.3 T. Perf.:

Produced Through: Casing: X Tubing: Gas Gravity: Measured: Estimated: .670

Date of Flow Test: From: 4-17-57 To: 4-25-57 * Date S.I.P. Measured: 8-8-56

Meter Run Size: Orifice Size: Type Chart: Type Taps:

OBSERVED DATA

Flowing casing pressure (Dwt)		psig + 12 =		psia	(a)
Flowing tubing pressure (Dwt)		psig + 12 =		psia	(b)
Flowing meter pressure (Dwt)		psig + 12 =		psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:					
Normal chart reading		psig + 12 =		psia	(d)
Square root chart reading (_____)^2 x spring constant		=		psia	(d)
Meter error (c) - (d) or (d) - (c)	±	=		psi	(e)
Friction loss, Flowing column to meter:					
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=		psi	(f)
Seven day average static meter pressure (from meter chart):					
Normal chart average reading	582	psig + 12 =	594	psia	(g)
Square root chart average reading (_____)^2 x sp. const.		=		psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=		psia	(h)
P_t = (h) + (f)		=	594	psia	(i)
Wellhead casing shut-in pressure (Dwt)	1031	psig + 12 =	1043	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	1031	psig + 12 =	1043	psia	(k)
P_c = (j) or (k) whichever well flowed through		=	1043	psia	(l)
Flowing Temp. (Meter Run)	73 °F + 460	=	533	°Abs	(m)
P_d = ½ P_c = ½ (l)		=	522	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{2{,}310} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_ = \_\_\_ \right)^{*} = \_\_\_ \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 2{,}310 \left[\frac{(P_c^2 - P_d^2) = 815.365}{(P_c^2 - P_w^2) = 732.991} \right]^n\ 1.0944 = 2528 \text{ MCF/da.}$$

SUMMARY

P_c =	1043	psia
Q =	2310	Mcf/day
P_w =	595.7	psia
P_d =	522	psia
D =	2528	Mcf/day

Company: Northwest Production Corp.
By: Ray Phillips RAY PHILLIPS
Title: Asst Mgr. Prod Operations
Witnessed by:
Company:

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
2340	0.156	13.169	2.054	352.836	354.890	595.7

RECEIVED JUN 4 1957 OIL CON. COM. DIST. 3