Form 9-331b
(April 1952)

Section 14

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _Jicarilla Tribal_

Contract #59, Tract #172

Allottee _____

Lease No. _Jicarilla "F"_

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			

RECEIVED
JUN 30 1958
U. S. GEOL...
FARMINGTON

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

_____ June 25, 1958

Well No. _5_ is located 1099.1 ft. from [N] line and 1099.1 ft. from [E] line of sec. _14_

NE¼ NE¼ Sec. 14	27N	3W	N.M.P.M.
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)

Blanco W & Undesig. PC	Rio Arriba	New Mexico
(Field)	(County or Subdivision)	(State or Territory)

The elevation of the derrick floor above sea level is __6916__ ft. **KB.**

DETAILS OF WORK

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

We propose to drill the above well to a total depth of 6300' w/rotary tools. We propose to test the following sones at the following approximate depths.

Pictured Cliffs	3665'
Mesa Verde	4481'

We expect to test any other zones which appear productive of oil or gas. CASING PROGRAM: Propose to set approx. 350' of 10-3/4" surface Csg. w/approx. 300 sks. cement. To set approx. 4100' of 7-5/8" intermediate Csg. w/approx. 200 sks. cement. To set approx. 2300' of 5-1/2" liner on bottom @ 6300' w/approx. 200 sks. cement on bottom & will squeese top of 5-1/2" liner w/approx. 200 sks. cement. We propose to perforate & sand-water frac the Pictured Cliffs & Mesa Verde zones for completion.

RECEIVED
JUL 1 1958
OIL CON. COM.
DIST. 3

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

Company __Magnolia Petroleum Company__

Address __P. O. Box 2406__

__Hobbs, New Mexico__

OK (...)

By _____

Title __District Superintendent__

5A

Jicarilla "E"

Registered Professional
Engineer and/or Land Surveyor.

Certificate No. _2490_

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

Date June 26, 1958

Operator MAGNOLIA PETROLEUM COMPANY   Lease   JICARILLA "E"

Well No. 5   Unit Letter   Section 14   Township 27N   Range 3W   NMPM

Located 1039.1 Feet From North Line, 1032.1 Feet From East Line

County Rio Arriba   G. L. Elevation 6906   Dedicated Acreage 160 Acres

Name of Producing Formation Pictured Cliffs   Pool Undesignated Natural Gas

1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below?
   Yes X   No _____.

2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes ___ No ___. If answer is "yes," Type of Consolidation _____

3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner   Lease Description

_____

_____

_____
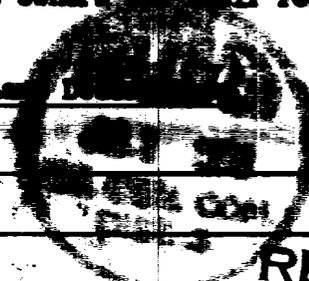
Section B.

S 89°59' W (Call) 79.84 Ch

Magnolia Petroleum Co.

1032.1'

1039.1'

Loc. #5

T27N-R3W

14

Jicarilla "E"

N 0°01' W (Call) 80 Ch
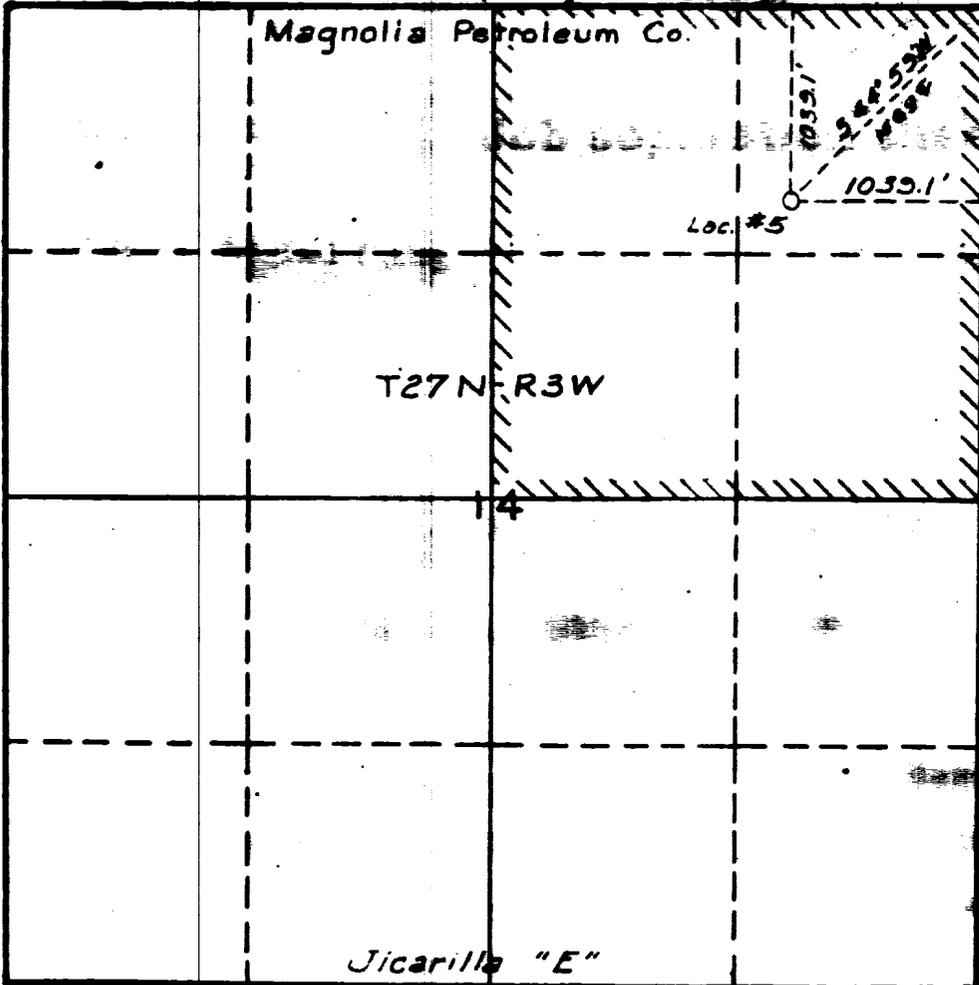
This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

MAGNOLIA PETROLEUM COMPANY
(Operator)

_____
(Representative)

Box 2406, Hobbs, New Mexico
Address

This is to certify that the well location shown on the plat in Section B was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed June 18, 1958

Carl E. Turner

Registered Professional Engineer and/or Land Surveyor.

Certificate No. 2490

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 **Blanco** _____ Formation **Mesaverde** _____ County **Rio Arriba**

Purchasing Pipeline **Pacific Northwest Pipeline** _____ Date Test Filed ___**-**___

Operator **Magnolia Petroleum Co.** ___ Lease **Jicarilla "E"** ___ Well No. **5 LT MV**

Unit **A** ___ Sec. **14** ___ Twp. **27N** ___ Rge. **3W** ___ Pay Zone: From **5540'** ___ To **5998'**

Casing: OD **5"** ___ WT. **15#** ___ Set At **6060'** ___ Tubing: OD **2 3/8"** ___ WT. **4.7#** ___ T. Perf. **5986'**

Produced Through: Casing **-** ___ Tubing **X** ___ Gas Gravity: Measured **0.714** ___ Estimated **-**

Date of Flow Test: From **2/7/59** ___ To **2/15/59** ___ *Date S.I.P. Measured **10/3/58**

Meter Run Size **4.026"** ___ Orifice Size **1.250"** ___ Type Chart **Sqr. Rt.** ___ Type Taps **Flange**

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 **493** psig + 12 = **505** psia (g)

Square root chart average reading (**7.1**)^2 x sp. const. **10** = **505** psia (g)

Corrected seven day avge. meter press. (p$_f$) (g) + (e) = **505** psia (h)

P_t = (h) + (f) = **505** psia (i)

Wellhead casing shut-in pressure (Dwt) **-** psig + 12 = **-** psia (j)

Wellhead tubing shut-in pressure (Dwt) **1331** psig + 12 = **1343** psia (k)

P_c = (j) or (k) whichever well flowed through = **1343** psia (l)

Flowing Temp. (Meter Run) **57** °F + 460 = **517** °Abs (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) = **671** psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\textbf{367}} \times \left(\frac{\sqrt{\text{(c)} \; 1} = \textbf{-} = \textbf{1}}{\sqrt{\text{(d)} \; 1}} \right) = \textbf{367} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \; \textbf{367} \left[\frac{\left(P_c^2 - P_d^2 \right) = \textbf{1,353,408}}{\left(P_c^2 - P_w^2 \right) = \textbf{1,545,444}} \right]^n \; \textbf{0.75} \quad \textbf{0.9055} = \textbf{332} \text{ MCF/da.}$$

SUMMARY

P_c = **1343** psia

Q = **367** Mcf/day

P_w = **508** psia

P_d = **671** psia

D = **332** Mcf/day

Company **Magnolia Petroleum Company**

By **William A. Morgan** *William A. Morgan*

Title **Jr. Gas Engineer**

Witnessed by _____

Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e^{-S})	(F$_c$Q)2	$\dfrac{(F_cQ)^2 \quad (1-e^{-S})}{R^2}$	$\dfrac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
4274	0.267	11.9	3.18	255.025	258.205	508