

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Form Approved.

Land Office New Mexico
Lease No. 013634
Unit Rincon Unit

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 RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING 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
OCT 1 1962
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

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

September 27, 19 62

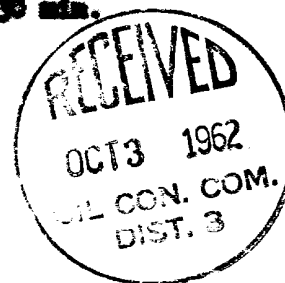
Well No. 161 is located 1450 ft. from N line and 1450 ft. from E line of sec. 17
NE Section 17 27-N 6-W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Basin Substa Rio Arriba New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6284 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)

Spud date 9-22-62. On 9-22-62 T.D. 325'.
Run 11 joints 9 5/8" 40# N-40 casing (314')
set at 325'. Cemented w/205 sacks regular, 1/4 cu. ft. Strato-
crete 6"/sk., 2 1/2 A-6. Circulated to surface. Held 600#/30 min.



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

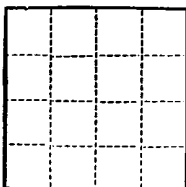
Company El Paso Natural Gas Company

Address Box 990

Farmington, New Mexico

By ORIGINAL SIGNED H.E. McANALLY

Title Petroleum Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office New Mexico
Lease No. 013654
Unit Rincon Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	X
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 RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING 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)

October 15, 1962

Well No. 161 is located 1450 ft. from N line and 1450 ft. from E line of sec. 17

NE Section 17

(¼ Sec. and Sec. No.)

27-N

(Twp.)

6-W

(Range)

N.M.P.M.

(Meridian)

Basin Dakota

(Field)

Rio Arriba

(County or Subdivision)

New Mexico

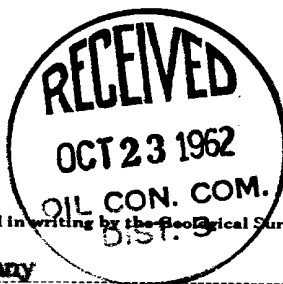
(State or Territory)

The elevation of the derrick floor above sea level is 6524 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)

On 10-10-62 T.D. 7740'. Ran 245 jts. 5 1/2" J-55 casing (7730') set at 7740'. (124' of 17# on bottom, 6510' 15.5# in middle, 96' 17# on top). 2 stage tool @ 5516', 3 stage tool @ 3305'. Cemented 1st stage w/232 sacks regular, 1/8# floccs, 13# salt. 2nd stage cemented w/200 sacks El Toro "35", 2# calcium chloride, 16# salt. 3rd stage cemented w/225 sacks El Toro "35", 2# calcium chloride, 16# salt. Held 1500#/30 minutes.



RECEIVED
OCT 22 1962

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

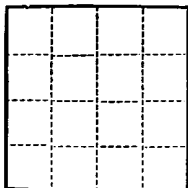
Company El Paso Natural Gas Company

Address Box 990

Farmington, New Mexico

ORIGINAL SIGNED H.E. McANALLY
By _____

Title Petroleum Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Form Approved.

Land Office **New Mexico**
Lease No. **013654**
Unit **Rincon Unit**

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 RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING 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.....	Water Frac.	X

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

October 15, 1962

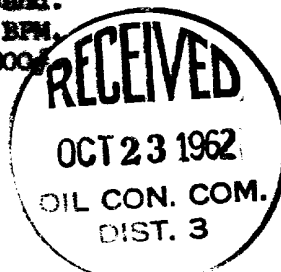
Well No. 161 is located 1450 ft. from N line and 1450 ft. from E line of sec. 17
NE Section 17 **27-N** **6-W** **N.M.P.M.**
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Basin Dakota **Rio Arriba** **New Mexico**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6524 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)

On 10-12-62, T.D. 7745. C.O.T.D. 7707'.
 Perf 7642-46; 7600-04; (3 SFF); 7552-64 (1 SFF);
 7464-68; 7440-44; (3 SFF);
 Frac w/73,000 gallons water, 70,000# sand.
 Flush w/12500 gallons water. I.R. 39 BPM.
 Max pr 3900#, BDP 2600#, tr pr 2700-3900#
 3 drops of 12 balls.



RECEIVED

OCT 23 1962

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

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

Company El Paso Natural Gas Company

Address Box 990

Farmington, New Mexico

ORIGINAL SIGNED H.E. McANALLY

By _____

Title Petroleum Engineer

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 23, 1962

Operator El Paso Natural Gas Company		Lease Rincon No. 161	
Location 1450'N, 1000'E, Sec. 17-27-6		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5-1/2	Set At: Feet 7740	Tubing: Diameter 2.375	Set At: Feet 7639
Pay Zone: From 7440	To 7646	Total Depth: 7740	Shut In 10-13-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365	Shut-In Pressure, Casing, PSIG 2478	PSIA 2490	Days Shut-In 10	Shut-In Pressure, Tubing, PSIG 2261	PSIA 2273
Flowing Pressure: P, PSIG 329	PSIA 341	Working Pressure: Pw, PSIG 884	PSIA 896			
Temperature: T, F 74	F _r .9868	F _{pv} (From Tables) 1.029	Gravity .635	F _g	.9721	

CHOKER VOLUME $Q = C \times P_r \times F_r \times F_g \times F_{pv}$

$$Q = (12.365)(341)(.9868)(.9721)(1.029)$$

4162 MCF/D

OPEN FLOW $Aof = Q \left(\frac{P_r^2}{P_c^2 - P_w^2} \right)^n$

$$Aof = \left(\frac{6,200,100}{5,397,284} \right)^n$$

$$(4162)(1.1487)^{.75} = (4162)(1.1095)$$

Aof 4618 MCF/D

NOTE: Unloaded large slug of water about 5 min. after opening, then blew heavy spray of water throughout remainder of test.

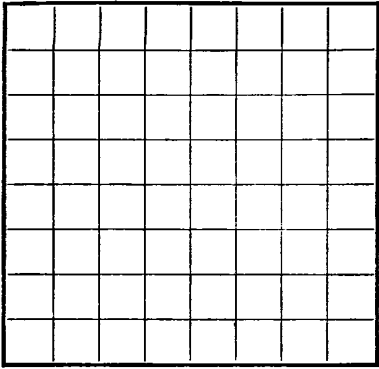
W. D. Dawson

W. D. Dawson

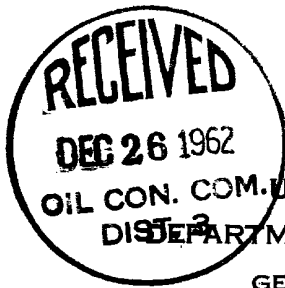
Checked by T. B. Grant

Lewis D. Galloway
Lewis D. Galloway *by J.A.H.*

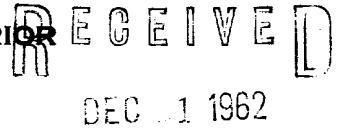




LOCATE WELL CORRECTLY



U. S. LAND OFFICE **New Mexico**
SERIAL NUMBER **01394**
LEASE OR PERMIT TO PROSPECT _____



U. S. GEOLOGICAL SURVEY
SANDHILL, NEW MEXICO

LOG OF OIL OR GAS WELL

Company **El Paso Natural Gas Company** Address **Box 990, Farmington, New Mexico**
Lessor or Tract **Rincon Unit** Field **Basin Dakota** State **New Mexico**
Well No. **161** Sec. **17** T. **27N** R. **6W** Meridian **N.M.P.M.** County **Rio Arriba**
Location **1450** ft. **NE** of **N** Line and **1450** ft. **NE** of **E** Line of **Section 17** Elevation **6524**
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.
Signed **ORIGINAL SIGNED H.E. McANALLY**

Date **December 21, 1962** Title **Petroleum Engineer**

The summary on this page is for the condition of the well at above date.

Commenced drilling **9-22-**, 19 **62** Finished drilling **10-9-**, 19 **62**

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from **7404** to **7520 (G)** No. 4, from _____ to _____
No. 2, from **7520** to **7710 (G)** No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
9 5/8"	40	8-14	J-55	210	Baker	7404			Surface casing
5 1/2"	17.5	8-14	J-55	710	Baker	7520			Production casing
2 3/8"	4.6	8-14	J-55	708	Baker	7710			Production tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	324	205	circulated		
5 1/2"	740	657	3 stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Perf 7642-46; 7600-04 (3 SHF); 7552-64 (1 SHF); 7464-68; 7440-44 (3 SHF); Frac w/73,000 gallons water, 70,000# sand. Flush w/12,500 gallons water, 70,000# sand. Flush w/12,500 gallons water. In 39 SHF. Max pr 3900#, SHF 2400#, tr pr 2700-3900#. 3 drops of 12 balls						

TOOLS USED

Rotary tools were used from **0** feet to **7740** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

10-23-, 19 **62** Put to producing _____, 19 _____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours **4,162,000** Gallons gasoline per 1,000 cu. ft. of gas _____

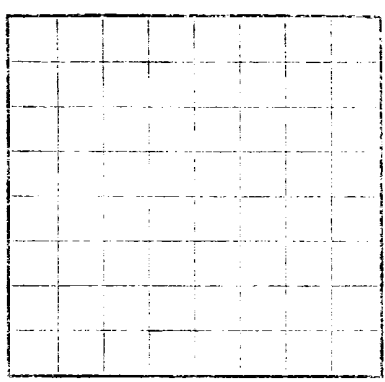
Rock pressure, lbs. per sq. in. **2490 avg.** A.O.F. **4618 MCF/D**

EMPLOYEES

_____, Driller

_____, Driller

U.S. LAND OFFICE
SPECIAL NUMBER
LEASE OR PERMIT TO PROSPECT



DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UNITED STATES

LOG OF OIL OR GAS WELL

Company: _____
Lessor or Trust: _____
Well No.: _____
Location: _____
The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.
Signed: _____
Title: _____
Date: _____

The summary on this page is for the condition of the well at above date.
Commenced drilling: _____
Finished drilling: _____

OIL OR GAS SANDS OR ZONES

No.	From	To	Depth (ft.)
No. 1	from	to	
No. 2	from	to	
No. 3	from	to	

IMPORTANT WATER SANDS

No.	From	To	Depth (ft.)
No. 1	from	to	
No. 2	from	to	

CASING RECORD

Casing	Perforated	Kind of shoe	Amount	Make	Threads per foot	Weight per foot	Notes

HISTORY OF OIL OR GAS WELL

Depth (ft.)	Remarks

MUDDING AND CEMENTING RECORD

Depth (ft.)	Amount of mud used	Method used	Remarks

PLUGS AND ADAPTERS

Depth (ft.)	Remarks

SHOOTING RECORD

Shot	Depth (ft.)	Date	Quantity	Remarks

TOOLS USED

Tool	Depth (ft.)	Remarks

DATES

Date	Remarks

EMPLOYEES

Name	Position	Remarks