

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)

7290901

Pool Basin Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Bridge Well No. 19
Unit A Sec. 17 Twp. 31 Rge. 11 Pay Zone: From 7044 To 7184
Casing: OD 5-1/2 WT. 17.00 Set At 7653 Tubing: OD 2-3/8 WT. 4.70 T. Perf. 7118
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .672 Estimated _____
Date of Flow Test: From 6/6/61 To 6/14/61 Date S.I.P. Measured 9/22/60
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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 497 psia (h)
P_t = (h) + (f) _____ = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 1945 psig + 12 = 1957 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1935 psig + 12 = 1947 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1947 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 974 psia (n)

Q = 470 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} - \sqrt{(d)}} \right) = \underline{470}$ MCF/da
(Integrated)

D = Q 470 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{399}$ MCF/da.
 $\frac{2.142133}{3.738099} = \underline{.8033}$
 $\frac{.8033}{.8488} = \underline{.9464}$

SUMMARY

P_c = 1947 psia
Q = 470 Mcf/day
P_w = 503 psia
P_d = 974 psia
D = 399 Mcf/day

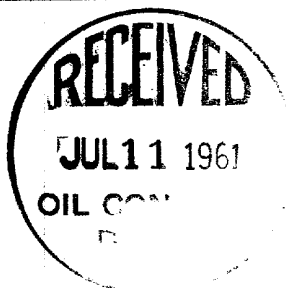
Company El Paso Natural Gas Co.
By _____ Original signed by
Title _____
Witnessed by H. L. Kendrick
Company _____

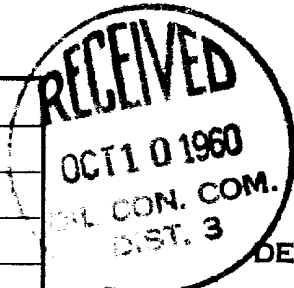
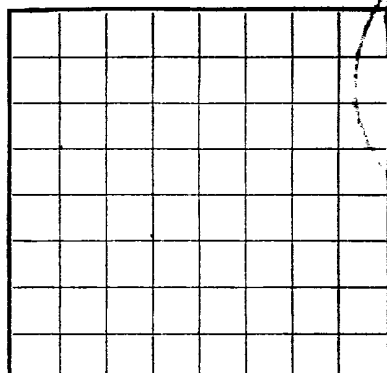
- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-s})	(F _c Q) ²	(F _c Q) ² (1-e ^{-s}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
4783	.294	19.528	5.741	247009	252750	503

D at 500 = 468



U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT _____
SF - 078096UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Delhi-Taylor Oil Corporation** Address **Drawer 1198, Farmington, N. M.**
Lessor or Tract **Delhi-Madge** Field **Undes. Dakota** State **New Mexico**
Well No. **4** Sec. **17** T. **31N** R. **11W** Meridian **NMPM** County **San Juan**
Location **990** ft. **(N)** of **N** Line and **1090** ft. **(E)** of **E** Line of **Sec. 17** Elevation **6033**
(Derick 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 *J. B. Howell*
J. B. Howell
Title **District Superintendent**Date **October 6, 1960**

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

Commenced drilling **8/7/60**, 19____ Finished drilling **8/24/60**, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **7044'** to **7294' G** No. 4, from _____ to _____
No. 2, from _____ to _____ 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—	
10-3/4	210	8	Halliburton	200	Halliburton	Perf. 7288-94, 7250-84, 7268-74			Production
7-5/8	2696	8	"	300	"	7238-52 w/6 jets			"
5-1/2	7653	8	"	180	"	7164-84 w/6 jets			"
2-3/8	7148	8	"	7152	"	712-42 w/6 jets			"

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	210	200	Halliburton	Perf. 7288-94, 7250-84, 7268-74	
7-5/8	2696	300	"	7238-52 w/6 jets	
5-1/2	7653	180	"	7164-84 w/6 jets	
2-3/8	7148		"	712-42 w/6 jets	

PLUGS AND ADAPTERS 7076-84, 7053-70, 7044-50 w/6 jets

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

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Frac	36,000 gals water, 18,000# sand					
	40,200 gals water, 20,000# sand					
	70,800 gals water, 62,000# sand					
	39,500 gals water, 30,000# sand					

Rotary tools were used from **0** w/mud feet to **2710** feet, and from **2710** w/gas feet to **7663** feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ 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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____**C. C. Smith**_____, Driller _____**B. C. Harbor**_____, Driller
_____**L. Waymire**_____, Driller _____**F. Mathews**_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2633	2633	Sand & shale (coal)
2633	2692	59	Pictured Cliffs ss
2692	4096	1404	Lewis shale
4096	4224	128	Mesa Verde Transition zone (silty-sd)
4224	4373	149	Cliffhouse ss
4373	4869	496	Mesa Verde sh & coal
4869	5002	133	Point Lookout ss
5002	6265	1263	Mancos shale
6265	6587	322	Gallup ss & sh
6587	6936	349	Lower Mancos shale
6936	6987	51	Greenhorn silty-lm.
6987	7043	56	Graneros shale
7043	7121	78	Graneros ss
7121	7339	218	Dakota ss & sh
7339	7663	324	Morrison sh & ss

FROM—

TO—

TOTAL FEET

FORMATION

FORMATION RECORD—Continued

16-43004-4

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

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 _____
 Location of _____ at _____ of _____ and _____ E. of _____ Line of _____ of _____
 Well No. _____ Sec. _____ T. _____ R. _____ Meridian _____
 Lessor or Tract _____
 Address _____
 County _____ State _____
 Company _____

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

Completed drilling _____ 10 _____
_____ 10 _____

OFFICE OF GAS SANDS OF ZONES

(b) *and* *or* *not*

No. 3 from	to	No. 4 from	to
No. 2 from	to	No. 5 from	to
No. 1 from	to	No. 6 from	to

IMPROVED WATER SAVING

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

CASINO RECORD

[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reconditioning, the reasons for the work, and its results. If there were any changes made in the casing, state fully, and if any casing was "backpacked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If piers or bridges were put in to test for water, state kind of material used, position, and results of pumping or boring.

HISTORY OF OIL OR GAS WELL

10-8904-2 U. S. GOVERNMENT PRINTING OFFICE

MILKING AND CEMENTING RECORD

[illegible]

PLUGS AND ADAPTERS

[illegible]

SHOOTING RECORD

[illegible]

FOOTNOTES USED

Rotary tools were used from	feet to	feet and from	feet to
Caliche tools were used from	feet to	feet and from	feet to

ZETA

It was well cut per 24 hours	10	Not to produce	10
emulsion; and	25 sediment	parcels of fluid of which	25 was oil
Gravimetric	Gravimetric		
1,000 cut of gas			

EMPLOYEES

[illegible]

FORMATION RECORD

FORM-1	TO-	TOTAL FEES	FORMATION
1	1000	1000	1000
2	1000	1000	1000
3	1000	1000	1000
4	1000	1000	1000
5	1000	1000	1000
6	1000	1000	1000
7	1000	1000	1000
8	1000	1000	1000
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84	1000	1000	1000
85	1000	1000	1000
86	1000	1000	1000
87	1000	1000	1000
88	1000	1000	1000
89	1000	1000	1000
90	1000	1000	1000

FORMATION RECORD—Continued

1. *Explain the importance of the following factors in the development of a country's economy:*