

STATE OF NEW MEXICO)
)
COUNTY OF SAN JUAN)

I, Mack M. Mahaffey, being first duly sworn upon my oath
depose and say as follows:

I am an employee of Baker Oil Tools, Inc., and that on
December 11, 1958, I was called to the location of the El Paso
Natural Gas Company Huerfano Unit No. 105 (GD) Well located in the
SESE/4 of Section 29, Township 27 North, Range 10 West, N.M.P.M.,
for advisory service in connection with installation of a production
packer. In my presence, a Baker Model "D" Production Packer was set
in this well at 5706 feet in accordance with the usual practices and
customs of the industry.

Mack M. Mahaffey

Subscribed and sworn to before me this 27th day of February,
1959.

Don Michael
Notary Public in and for San Juan
County, New Mexico

My commission expires February 24, 1960

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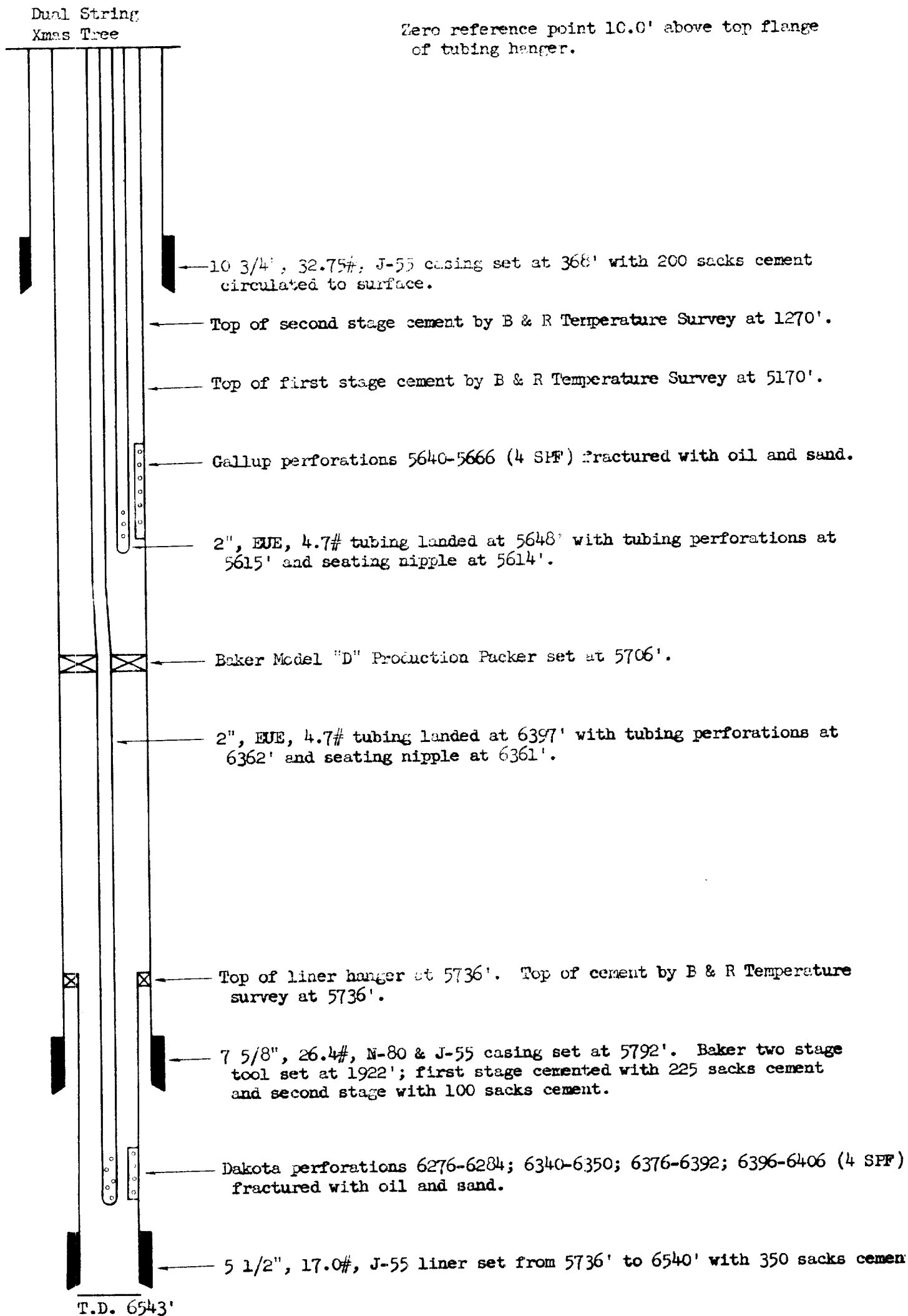
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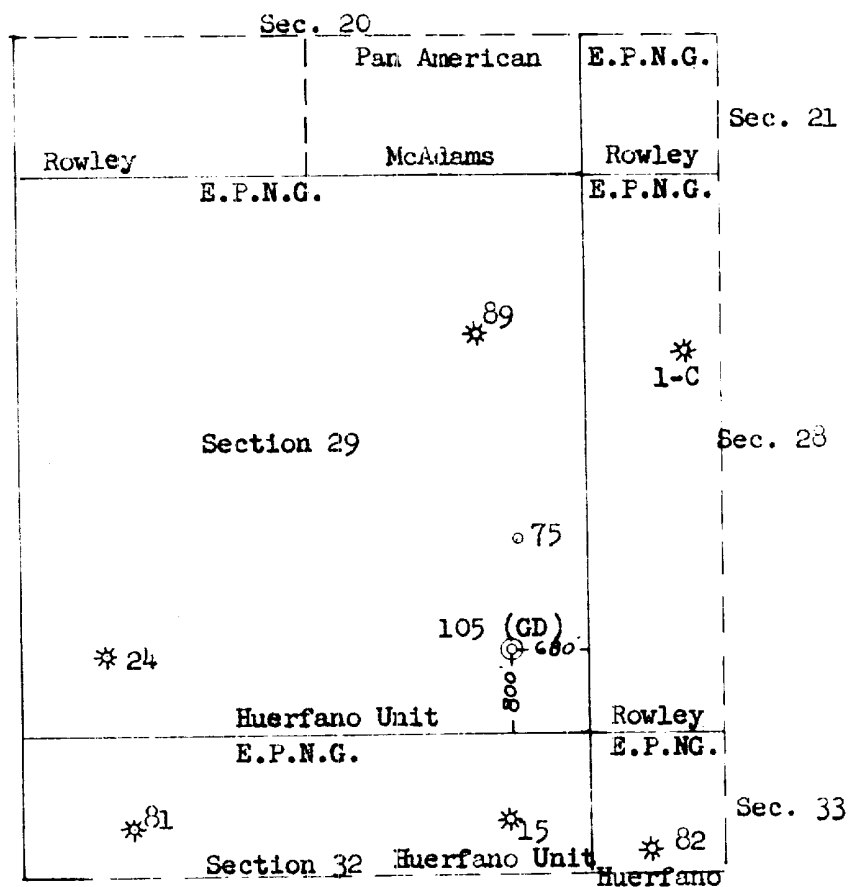
SCHEMATIC DIAGRAM OF DUALY COMPLETED
El Paso Natural Gas Co. Huerfano Unit No. 105 (GD)
SE/4 Section 29, T-27-N, R-10-W



2

PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. Huerfano Unit No. 105 (GD)
and Offset Acreage

T-27-N
R-10-W



Legend

- ⊙ - Gallup (Oil) Dakota (Gas)
- * - Pictured Cliffs

EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	



NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

will file

2 7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Wildcat Dakota and Angel Peak Gallup Ext.		County San Juan	Date February 25, 1959
Operator El Paso Natural Gas Company		Lease Huerfano Unit	Well No. 105 (GD)
Location of Well	Unit F	Section 29	Township 27N
			Range 10W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☐ NO ☒
2. If answer is yes, identify one such instance: Order No. _____ ; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Gallup	Dakota
b. Top and Bottom of Pay Section (Perforations)	5640-5666	6276-6406
c. Type of production (Oil or Gas)	Oil	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing

4. The following are attached. (Please mark YES or NO)

- Yes** a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes** b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- No** c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- No** d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

El Paso Natural Gas Company Unit Operator

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐ . If answer is yes, give date of such notification _____ .

CERTIFICATE: I, the undersigned, state that I am the **Div. Petroleum Engineer** of the **El Paso Natural Gas Co.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

ORIGINAL SIGNED E. S. OBERLY

Signature

- * Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

OPEN FLOW TEST DATA

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DUAL COMPLETION

January 27, 1959

El Paso Natural Gas Company		Huerfano Unit 105 (G)	
800S, 680E; 29-27-10		San Juan	New Mexico
Gallup		Undesignated	
7-5/8	5792	2"	5638
5614	5666	6548 c/o 6497	Shut in 12/13/58
Sand Oil Frac.		X	

.75	12.365	5-1/2 liner 5736 - 6540
(G) 1336	1348	(G) 1326
150	162	552
74	.75	1.019

Initial (D) SIPT = 1972 psig
Final (D) SIPT = 1988 psig

Packer at 5706

CHOKE DOWNING

$$12.365 \times 162 \times .9868 \times .9129 \times 1.019$$

1839

Well was flowed through high pressure separator with .75" choke downstream of separator. Liquid production was then measured in a stock tank. Well produced 71.4 bbls of oil during the three hour test. This would indicate a production rate of 571.2 bbls/day, or a G.O.R. of 3,283.

1817104
1499008

$$1.2122^{.75} \times 1839 = 1.1558 \times 1839$$

2126

Jess Goodwin and D. Mortensen

Checked By M. W. Rischard

L. D. Galloway

OPEN FLOW TEST DATA

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DUAL COMPLETION

DATE December 30, 1958

Owner El Paso Natural Gas	Lease Huerfano Unit 105 (D)
Location 8008, 680E; 29-27-10	County San Juan State New Mexico
Dakota 1-5/8	Undesignated 2"
Set At Feet 5792	Set At Feet 6387
Flow Rate 6276	Flow Rate 6548 c/o 6497
Shut In Sand Oil Frac.	Shut In Shut in 12/13/58
	Flow Through Tubing X

Initial Pressure .75	Initial Pressure 12.365	5-1/2 liner 5736 - 6540
Pressure (G) 1334	Pressure 1346	Pressure (D) 1924
Pressure 342	Pressure 354	Pressure Calc.
Temperature 77	Temperature .75	Temperature 1.029
		Gravity .630

Initial SIPT (G) = 1318 PSIG

Packer at 5706

Final SIPT (G) = 1351 PSIG

CHOKED OFF MEASUREMENTS: $Q_1 \times F_1 \times F_2 \times F_3 \times F_4$

$$12.365 \times 354 \times .9840 \times .9759 \times 1.029$$

4325

MCF/D

CHOKED OFF MEASUREMENTS

3748096
3204927

$$1.1694^{.75} \times 4325 = 1.1246 \times 4325$$

4864

Frank Clark

Checked by: R. Davis

Lewis D. Galloway
L. D. Galloway

