Airl

ELPASO PRODUCTS COMPANY

POST OFFICE BOX 3986, ODESSA, TEXAS 79760

July 13, 1966

ADDRESS REPLY TO:
POST OFFICE BOX 1560
FARMINGTON, NEW MEXICO 87401

Frontier E No. 1 SW SE Section 4, Township 27N, Range 11W San Juan County, New Mexico

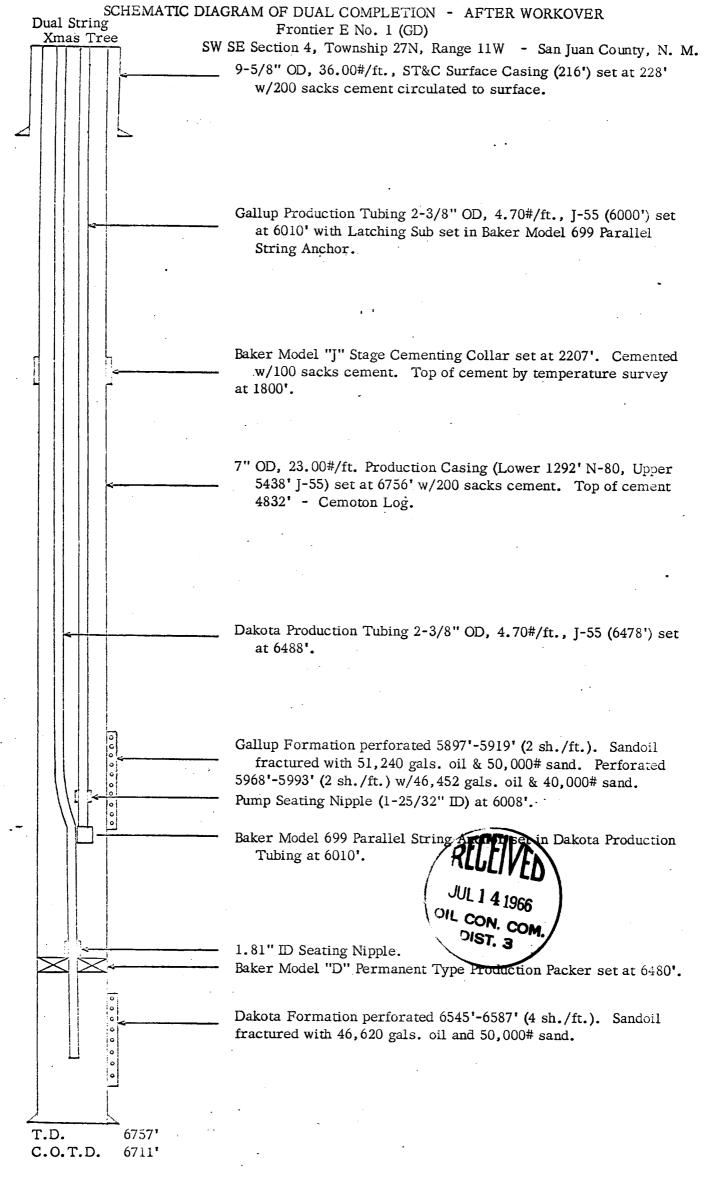
There had been no Dakota gas production from this well for the past 18 months. A leak had been detected in the Dakota Tubing String and an attempt to set a packoff assembly inside the tubing string resulted in the loss of several strings of wireline tools.

Basically, both Gallup and Dakota tubing strings were pulled from this well, all tools were retrieved and the Baker Model "D" Production Packer at 6490* was drilled out. A new Baker Model "D" Production Packer was set at 6480* and the Dakota string - Hydro-Tested to 4000 psi, was run and latched into the production packer and the Gallup string was rerun and landed as before.

Both zones were subsequently put on production.

The form (-105)

EL PASO PRODUCTS COMPANY



EL ASO NATURAL GAS PRODUCTS CLAPANY SCHEMATIC DIAGRAM OF DUAL COMPLETION - Prior to Workover FRONTIER POOL UNIT NO. 1-E (GD)

Dual String Xmas Tree

9-5/8" O.D., 36.00#/fr., ST & C Surface Casing (216') set at 228' w/200 sacks cement circulated to surface.

Gallup Production Tubing 2-3/8" O.D., 4.70#/ft., J-55 (5002°) set at 6014° with Latching Sub set in Baker Model 699 Parallel String Anchor. 5947° Integral Joint (Hardy Griffin), EUE Tbg. with 56° accessories.

Baker Model "J" Stage Cementing Collar set at 2207°. Cemented with 100 sacks cement. Top of cement by temperature survey at 1800°.

7" O.D., 23.00#/ft. Production Casing (Lower 1292' N-80, Upper 5438' J-55) set at 6756' w/200 sacks cement. Top of cement 4832' - Cemoton Log.

Dakota Production Tubing 2-3/8" O.D., 4.70#/ft. J-55 (6487°) set at 6497°. 9° Accessories, 6477' J-55, EUE Tubing.

Gallup Formation perforated 5897° - 5919° (2 shots/ft.). Sandoil fractured with 51,240 gals. oil and 50,000# sand. Perforated 5968° - 5993° (2 sh./ft.) w/46,452 gals. oil & 40,000# sand.

Pump seating nipple (1 - 25/32" I.D.) at 6012'.

Baker Model 699 Parallel String Anchor se Production Tubing at 6014°.

Baker Model "D" Permanent Type Production Packer set at 6490".

Dakota Formation perforated 6545'-6587' (4 shots/ft.). Sandoil fractured with 46,620 gals. oil and 50,000# sand.

T.D. - 6757° C.O.T.D. - 6711°

OPEN FLOW TEST DATA

| DUAL | CONFLETION |
|------|------------|
| | |

DATE July 23, 1960

| Operator El Paso Matural | Gas Products Co. | Frontier Peol Unit So. 1-E (D) | | |
|------------------------------|------------------|--------------------------------|----------------------|--|
| ocation SW 4-27-33 | | County Sen Juan | State New Mexico | |
| ormation Bakota | | Pool Unde signated | | |
| Casing: Diameter | Set At: Fee 6756 | Tubing: Diameter | Set At: Feet 6497 | |
| Pay Zone: From 6545 | f° 6587 | Total Depth: 6 756 | #mut-In 7/13/60 | |
| Stimulation Method Sand O11 | | Flow Through Casing | Flow Through Tubing | |

| Pt= .9822 | - | | 75 | 1.039 | | .681_ | Fg= .979 |
|---------------------------|-------|-----------------|--------------|--------------------------|------|-------------|----------|
| Temperature: T | 79 'F | n - | • | Fpv (From Tables) | | Gravity | |
| 373 | | | 35 | Calc. | | 619 | |
| Flowing Pressure; P | PSIG | - 12 = PSIA | _ | Working Pressure: Pw | PSIG | - 12 = PSIA | |
| 1061 (0) | | 1073 | 15 | 2017 (D) | | 2029 | |
| Shut-In Pressure, Casing, | P\$13 | - 12 = PSIA | Doys Shut-In | Shut-In Pressure, Tubing | PSIG | + 12 = PSIA | |
| .75 | | 12 | 2.365 | | | | |
| Choke Size, Inches | | Choke Constant: | : C · | | | | • |

Initial SIPT (G) = Tak psig Final SIPC (G) = 1084 psig Packer at 6490

CHOKE VOLUME = Q - C x P, x F, x Fg x Fpv

/

12.365 x 385 x .9822 x .9393 x 1.039

4563 MCF/D

OPEN FLOW Act $Q = \begin{pmatrix} 2 & P_c & P_w \end{pmatrix}$

Ac' (4116841 _)n

1.1026^{.78} x 4563 = 1.0759 x 4563



Elight Paraffin Nist.

Act . 4909 MCF D

WITNESSED BY Van Dykes
Checked By R. Hickell

L. D. Gallower