

OIL CONSERVATION COMMISSION
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO

December 30, 1965

Mr. B. H. Keyes
Gelectric, Inc.
Box 842
Aztec, New Mexico

Re: Annual Deliverability Test,
Shar-Alan Oil Company Crane #1
N-28-24N-1W, South Blanco
Pictured Cliffs Pool. Test
completed January 26, 1965

Dear Mr. Keyes:

Shar-Alan Oil Company was advised by letter dated April 22, 1965 that the above referenced test was not acceptable.

The test reports for the subject test, received in this office December 17, 1965, are returned herewith.

Yours very truly

A. R. Kendrick
Engineer, District #3

ARK:ks

Encls.

cc: Shar-Alan Oil Co., Denver, Colo.
OCC, Santa Fe, N.M.

WILSON CONSTRUCTION COMPANY
1000 BIRCH STREET
ALBANY, NEW YORK

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NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(To Be Used For Fruitland, Pictured Cliffs, Mesa Verde & All Dakota
Except Barker Dome Storage Area)

Pool South Blanco Formation EC County RA
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 12-13-65
Operator Shar-Alan Oil Company Lease Crane Well No. 1
Unit N Sec. 28 Twp. 24 Rge. 1 Pay Zone: From 3107 To 3126
Casing: OD 4 1/2 WT. Set At 3136 Tubing: OD 1 WT. T. Perf. 3077
Produced Through: Casing Tubing X Gas Gravity: Measured .677 Estimated
Date of Flow Test: From 1-11 To 1-18 *Date S.I.P. Measured 1-26-65
Meter Run Size Orifice Size Type Chart Type Taps

OBSERVED DATA

Flowing casing pressure (Dwt) 297 psig + 12 = 309 psia (a)
Flowing tubing pressure (Dwt) 277 psig + 12 = 289 psia (b)
Flowing meter pressure (Dwt) 277 psig + 12 = 289 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 7.40 psig + 12 = 274 psia (d)
Square root chart reading (7.40)² x spring constant 15 = 274 psia (d)
Meter error (c) - (d) ± = 15 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 7.25 psig + 12 = 263 psia (g)
Square root chart average reading (7.25)² x sp. const. 278 = 263 psia (g)
Corrected seven day average meter press. (p_g) (g) + (e) = 278 psia (h)
P_t = (h) + (f) = 278 psia (i)
Wellhead casing shut-in pressure (Dwt) 397 psig + 12 = 409 psia (j)
Wellhead tubing shut-in pressure (Dwt) 382 psig + 12 = 394 psia (k)
P_c = (j) or (k) whichever well flowed through = 409 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 327 psia (n)

FLOW RATE CALCULATION

Q = 306 x (1.0547) = 1.0270 = 314 MCF/day
(Integrated)

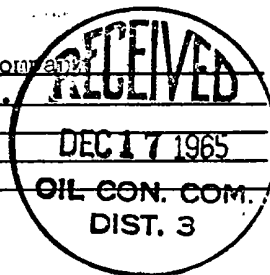
DELIVERABILITY CALCULATION

D = Q 314 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ 1.1037 1.0875 = 341 MCF/day

SUMMARY

P_c = 409 psia
Q = 314 Mcf/day
P_w = 335 psia
P_d = 327 psia
D = 341 Mcf/day

Company Shar-Alan Oil Company
By GeoElectric, Inc.
Title Agent
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	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
2083	.141	250.450	35.313	77.284	112.597	335

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