

undelivered

OIL CONSERVATION COMMISSION
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO

December 30, 1965

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

Re: Annual Deliverability Test
Shar-Alan Oil Company Abraham
Federal #8, J-20-24N-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

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

OIL CONSERVATION COMMISSION
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO

December 30, 1965

Mr. J. H. Kopp
Geophysical, Inc.
Box 100
Aztec, New Mexico

Re: Annual Refractive Index Survey
Thompson Oil Company, Aztec
Federal No. 1-20-21-14, 2001
Clasificación 011731 2001
To: Completed January 31, 1966

Dear Mr. Kopp:

Refractive Index Survey was advised by letter dated December 17, 1965 that the
above referenced test was not acceptable.

The test report for the subject test received in the office December
17, 1965 was returned herewith.

Yours very truly

W. J. Kopp
Director, District 8

WJK:10

cc: Mr. A. H. Kopp, Aztec, N.M.
Mr. J. H. Kopp, Aztec, N.M.

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 Sher-Alan Oil Company Lease Abraham Federal Well No. 8
Unit J Sec. 20 Twp. 24 Rge. 1 Pay Zone: From 3410 To 3430
Casing: OD 4 1/2 WT. Set At 3447 Tubing: OD 1 WT. T. Perf. 3400
Produced Through: Casing Tubing X Gas Gravity: Measured .668 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) 411 psig + 12 = 423 psia (a)
Flowing tubing pressure (Dwt) 252 psig + 12 = 264 psia (b)
Flowing meter pressure (Dwt) 252 psig + 12 = 264 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading psig + 12 = psia (d)
Square root chart reading 7.00 $\times$ spring constant = 245 psia (d)
Meter error (c) - (d) = 19 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (d) - (c) Flow through casing = 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = psia (g)
Square root chart average reading 7.06 $\times$ sp. const. = 249 psia (g)
Corrected seven day ave. meter press. (pf) (g) + (e) = 268 psia (h)
 $P_t = (h) + (f)$ = 268 psia (i)
Wellhead casing shut-in pressure (Dwt) 447 psig + 12 = 459 psia (j)
Wellhead tubing shut-in pressure (Dwt) 435 psig + 12 = 447 psia (k)
 $P_c = (j)$ or (k) whichever well flowed through = 459 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
 $P_d = \frac{1}{2} P_c + \frac{1}{2} (l)$ = 367 psia (n)

FLOW RATE CALCULATION

$Q = \frac{473}{(\text{Integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.0776}{1.0381} = 1.0381 \right) = 491$ MCF/day

DELIVERABILITY CALCULATION

$D = Q \frac{491}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{75,992}{45,775} \right]^n} = 755$ MCF/day

SUMMARY

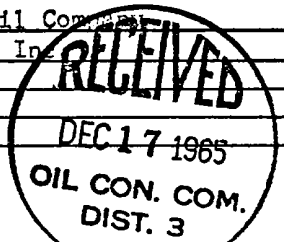
$P_c = 459$ psia
 $Q = 491$ Mcf/day
 $P_w = 406$ psia
 $P_d = 367$ psia
 $D = 755$ Mcf/day

Company Sher-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 1)	$P_t^2 + R^2$	P_w
2271	.152	612.384	93.082	71,824	164,906	406



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