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NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 76

Form C122-A
Revised 1-1-66

POOL NAME	POOL SLOPE	FORMATION	COUNTY
BLANCO	n= .75	MESA VERDE	SJ

COMPANY			WELL NAME AND NUMBER		
GREAT LAKES CHEMICAL CORP.			GRAHAM No. 1		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
A	4	T-27-N	8-W	EPNG	
CASING O.D. – INCHES	CASING I.D. – INCHES	SET AT DEPTH – FEET	TUBING O.D. – INCHES	TUBING I.D. – INCHES	TOP – TUBING PERF. – FEET
5 1/2		4455	1 1/4		4532
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 4444 TO 4532		CASING	TUBING XX	.739	3349
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 9/23/76 TO 10/1/76			10/8/76		

PRESSURE DATA – ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading 8.00	(e) Meter Error (Item c – Item d)	(f) Friction Loss (a – c) or (b – c)	(g) Average Meter Pressure (Integr.)
265	~~265~~	256	256	0	+9	236

(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. P_t = (h + f)	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure P_d = 80 %P_c 410	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
236	245	512	512	512		———

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume – MCF/D	Quotient of Item c / Item d	$\sqrt{\text{Item c} / \text{Item d}}$	Corrected Volume
335	1.000	1.000	Q = 335 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c\,Q_m)^2(1000)$	$R^2 = (1-e^{-s})(F_c\,Q_m)^2(1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.216	68.025	14.693	~~233~~ 54.289	19.113 ~~68.982~~	~~265~~ 263.1

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 335\left[\left(\frac{94.044}{193.162}\right)^n = \left(\frac{.4869}{.5018}\right)^n = .5829\right] = 195 \text{ MCF/D}$$

REMARKS: 24.62 = F_c 187436

SUMMARY

Item h	236	Psia
P_c	512	Psia
Q	335	MCF/D
P_w	~~263~~ 273	Psia
P_d	410	Psia
D	195	MCF/D

Company GREAT LAKES CHEMICAL CORP.
By J. J. Smith
Title
Witnessed By
Company

RECEIVED
OCT 26 1976
OIL CON. COM.
DIST. 3