

NEW-TEX LAB

PHONE 505/393-3581

P. O. BOX 1161

611 W. SNYDER

HOBBS, NEW MEXICO 88240

ANALYSIS CERTIFICATE

CLIENT: JARREL WELL TESTING INC.
ADDRESS: BOX 1457
CITY, STATE: HOBBS NM 88240

ANALYSIS NUMBER : 7257
DATE OF RUN : 4/28/82
DATE SECURED : 4/27/82

SAMPLE IDENT: HARVEY E. YATES CO. - McDONALD UNIT #1
SAMPLING PRESS: SAMPLING TEMP:

REMARKS: 4 PT.

***** GAS ANALYSIS *****

	MOLE PERCENT	GAL/ MCF
NITROGEN	8.011	
CARBON DIOXIDE	1.848	
METHANE	74.314	
ETHANE	8.993	2.398
PROPANE	3.833	1.052
ISO-BUTANE	0.684	0.223
NORMAL BUTANE	1.025	0.322
ISO-PENTANE	0.383	0.140
NORMAL PENTANE	0.276	0.100
HEXANES	0.219	0.090
HEPTANES PLUS	0.414	0.191
TOTAL	100.000	4.516

PROPANE GPM: 1.05 BUTANES GPM: 0.55
ETHANE GPM: 2.40 PENTANES PLUS GPM: 0.52

SPECIFIC GRAV (CALC): 0.7391
MOLE WEIGHT: 21.45

HHV-BTU/CU FT	PRESSURE (PSIA)	WET	DRY
14.696		1102	1122
14.650		1099	1118
14.730		1105	1124
14.735		1105	1125

R.H. HAMILTON

ANALYZED BY

RECEIVED
MAR 15 1983
O.C.D.
HOBBS OFFICE

SECTION: Unit 2 Section 22 Township 2 Range 10

d 1598 F_1 1018231 GH 11.338
 P 649 T 429
FACTS IN A B FACTS IN A B

P_{CR} 649 T_{CR} 429
TACTIC IN & S TACTIC IN & S

NE	PH I	PH II	PH III	PH IV	PH V	PH VI	PH VII	PH VIII	PH IX	PH X	PH XI	PH XII
Q_m	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260
T_w (W.H. °R)	534	534	534	534	534	534	534	534	534	534	534	534
T_s (B.H. °R)	634	634	634	634	634	634	634	634	634	634	634	634
$T = \frac{T_w + T_s}{2}$	584	584	584	584	584	584	584	584	584	584	584	584
Z (Est.)	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668
TZ	390	409	406	390	436	403	463	432	432	432	432	432
CH/TZ	29.663	27.695	27.894	29.063	25.955	28.096	24.482	26.205	26.205	26.205	26.205	26.205
e^s (Table XIV)	2.9739	2.8252	2.8463	2.9739	2.4467	2.8679	2.5014	2.6747	2.6747	2.6747	2.6747	2.6747
$g1-e^s$ (Table XIV)	.663743	.646040	.648674	.663743	.622171	.651521	.607116	.62661	.62661	.62661	.62661	.62661
OP_1	2044.2	2044.2	1552.2	1552.2	1212.2	1212.2	962.2	962.2	962.2	962.2	962.2	962.2
$1P_1/2/1000$	4178.7	4178.7	2412.4	2412.4	1471.9	1471.9	925.8	925.8	925.8	925.8	925.8	925.8
F_1 (Table XV)	.018231	.018231	.018231	.018231	.018231	.018231	.018231	.018231	.018231	.018231	.018231	.018231
$3F_c = F_1 TZ$	7.1121	7.4635	7.4102	7.1121	7.9431	7.3607	8.4430	7.6787	7.6787	7.6787	7.6787	7.6787
$4F_c Q_m$	1.8492	1.9405	4.2164	4.0460	11.2208	3.5992	7.2187	6.7363	6.7363	6.7363	6.7363	6.7363
$5L/H(F_c Q_m)^2$	3.4194	3.7655	17.778	16.377	17.5156	15.204	52.110	45.378	45.378	45.378	45.378	45.378
$6F_w = L/H(F_c Q_m)^2(1-e^s)$	2.2696	2.4327	11.532	10.869	11.0513	9.9026	31.304	28.412	28.412	28.412	28.412	28.412
$7P_w^2 = P_1^2 + F_w$	4181.0	4181.0	24123.9	24123.9	1480.7	1481.8	957.1	957.1	957.1	957.1	957.1	957.1
$18P_s^2 = e^s P_w^2$	12.7340	11.8124	6.8994	7.5115	3.4204	4249.6	2397.1	2552.3	2552.3	2552.3	2552.3	2552.3
$19P_s$	3526.2	3436.9	2626.7	2651.5	1981.1	2061.5	1548.3	1597.6	1597.6	1597.6	1597.6	1597.6
$20P = \frac{P_1 + P_s}{2}$	2785.2	2740.6	2039.9	2115.4	1597.2	1637.3	1255.2	1279.9	1279.9	1279.9	1279.9	1279.9
$21P_1 = (P/P_c)$	4.29	4.23	3.22	3.26	2.46	2.52	1.93	1.97	1.97	1.97	1.97	1.97
$22T_1 = (T/T_c)$	1.36	1.36	1.36	1.36	1.31	1.36	1.36	1.36	1.36	1.36	1.36	1.36
$23T$ (Table XII)	.701	.698	.665	.667	.661	.687	.703	.746	.746	.746	.746	.746

DATE May 4 19 82

ADVICE ON WELLS TIED INTO GAS GATHERING SYSTEMS

Name of Producer Harvey E. Yates (9842)

Well Name and Number McDonald Unit #1

Location 990'FEL, 660'FSL, Sec. 33, T-13-S, R-36-E, Lea Co., NM

Pool Name McDonald Atoka

Producing Formation Atoka

Top of Gas Pay 12,740'

Oil or Gas Well Gas

Gas Unit Allocation 320 Acres (S 1/2)

Date Tied Into Gathering Systems 4/27/82

Date of First Delivery 4/27/82

Gas Gathering System Plains to San Juan G/S

Processed through Gasoline Plant (yes or no) No

Station Number 58-601-01

Remarks: _____

Site Code: 35758-8-01By: James R. Elliott, Dispatching

RECEIVED

MAY 7 1982

C.C.S.
HOBBS OFFICE