

F 30-031-20490 9-20-76

F. Loc. 2210/N; 1650/W Elev. 6588 GL Spd. 7/28/76 Comp. 10-31-76 TD 5390 PB 5214
 Casing S. 34 W 500 Sx. Int. 3 W 7 Sx. Pr. 7 @ 5242W ²¹⁰⁰500 Sx. T. 278 3002
 Csg. Perf. 5160-5169 natural Prod. Stim. 1.50

BO'D I.P. 360 After 11-1-76 Hrs. SICP 33.6° PSI After 11-1-76 Days GOR 11-1-76 Grav. 33.6° 1st Del. 11-1-76 s

TOPS		NITD	Well Log	TEST DATA						
Kirtland		C-103 ✓ ✓ ✓ ✓	Plot X	Schd.	PC	Q	PW	PD	D	Ref. No.
Fruitland		C-104 ✓ 11-16-76 ✓	Electric Log ✓ ✓ ✓	DATE GOR	BOLS	DATE GOR	BOLS			
Pictured Cliffs		1°	C-122	12/21/76	TSM	378				
Cliff House		Ditr	Dfa	5/24/77	"	178				5-8-3085 D
Lower Menefee	1134	Datr	Dac	5/16/78	"	270				5-8-3005 R
Point Lookout	1994			5/31/79	"	92				5-8-3025 R
Mancos	2112			5/28/80	"	15				5-13-32 3024 R
Gallup	2928			8/17/81	TSM	22				
Sanostee				8/14/82	"	22				
Greenhorn	3917									
Dakota	4140									
Morrison	4257									
Entrada	5161									

40

Papers Wash Ent Co. McK S 15 T19N R5W U F Oper Texaco, Inc.

Lse. Federal 15

No. 1

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h)	Feet
$D.R.$	= Damage Ratio	Feet
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	md
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h)	psi/cycle
F	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	MCF/D
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Feet
P_{oi}	= Potentiometric Surface (Fresh Water)	bbls/day
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= Theoretical Production w/Damage Removed	MCF/D
Q_g	= Measured Gas Production Rate	bbls
R	= Corrected Recovery	Feet
r_w	= Radius of Well Bore	Minutes
t	= Flow Time	Minutes
t_o	= Total Flow Time	°R
T	= Temperature Rankine	
Z	= Compressibility Factor	CP
μ	= Viscosity Gas or Liquid	
$\log$	= Common Log	

• Permeability Surface Reference is given in terms of N_1 & G_{v1}
 through Well Log & Core Log

000222-2033

TIME

PRESSURE

000222-2032

Each Horizontal Line Equal to 1000 p.s.i.

000222

Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. _____
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

Gauge No. 2033		Depth 5137'		Clock No. 10444		12 hour		Ticket No. 000222	
First Flow Period		Closed In Pressure		Second Flow Period		Third Flow Period		Closed In Pressure	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0 .0000	184	.0000		.0000	447	.0000		.0000	895
1 .2010	425	.0205	1918*	.0725	537**	.0529		.0529	1946
2		.0479	1979	.1384	614	.1059		.1059	1987
3		.0752	2005	.2043	693	.1588		.1588	2012
4 PLUGGING		.1026	2022	.2702	767	.2117		.2117	2029
5		.1299	2034	.3361	832	.2647		.2647	2043
6		.1573	2043	.4020	895	.3176		.3176	2054
7		.1846	2051			.3705		.3705	2063
8		.2120	2058			.4235		.4235	2071
9		.2393	2064	PLUGGING...		.4764		.4764	2079
10		.2667	2070			.5293		.5293	2084
11		.2940	2074			.5823		.5823	2088
12						.6352		.6352	2093
13						.6881		.6881	2097
14						.7411		.7411	2100
15						.7940		.7940	2103

Gauge No. 2032		Depth		5166'		Clock No. 13840		24 hour	
0	.0000	593	680	.0000	593	.0000	1104		
1	.1000	680	1947*	.2010	1104	.0263	1960		
2			2000			.0527	2001		
3			2022			.0790	2028		
4	PLUGGING...		2038	PLUGGING...		.1053	2045		
5			2050			.1317	2061		
6			2061			.1580	2072		
7			2068			.1843	2082		
8			2075			.2107	2089		
9			2082			.2370	2096		
10			2087			.2633	2101		
11			2092			.2897	2107		
12						.3160	2111		
13						.3423	2114		
14						.3687	2117		
15						.3950	2120		
Reading Interval		4		10		8		Minutes	

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	2"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4"	3.340"	4400'	
Drill Collars	6"	2"	717'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	8'	5124'
Hydro-Spring Tester	5"	.75"	5'	5132'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	-	-	-	5137'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	8 3/4"	1.53"	6'	5149'
Distributor				
Packer Assembly	8 3/4"	1.53"	6'	5155'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	3.50"	10'	
Blanked-Off B.T. Running Case	5 3/4"	3.50"	4'	5166'
Total Depth				5170'