

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

47 File
Form C-122
Revised 1-1-85
0.1 18 85

Type Test 4-POINT ☐ Initial ☐ Annual ☒ Special				Test Date 9-13-85		C.O.D. 9-13-85	
Company TEXAS AMERICAN				Location TO HOLE			
Pool B.S. SAND DUNES				Formation ATOKA		Unit -	
Completion Date 9-11-85		Total Depth 15120		Perforations 15003 to 15005		Elevation 3430	
Perf. Size 7.625		Wt. 39.0		Perf. Depth 6.625		Perf. Interval 14165 To 14172	
Perf. Size 2.375		Wt. 4.7		Perf. Depth 1.995		Perf. Interval open To ended	
Type Well - Single - Horizontal - G.O. or G.O. with G.O.				Perforation 13895		County EDDY	
Producing thru TUBING		Reservoir Temp. °F 226 @ 14169		Perforation Temp. °F 60		Depth, ft. - 14 13.2	
L 14169		H 14169		G 0.579		Motor Run 31068	
R 14169		S 1.29		T 0.95		Flange FLANGE	

FLOW DATA							TUBING DATA		B.H.P. DATA		Duration of Flow
NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. Proving	Temp. °F	Press. p.s.i.g.	CHOKED	
1	3.068	x	.750	510	1.2	76	5883	77	8169	1.5/64	60
2	3.068	x	.750	510	1.2	76	5726	76	8022	1/64	60
3	3.068	x	.750	525	1.7	76	5410	76	7723	1.5/64	60
4	3.068	x	.750	542	16.2	76	4915	75	7311	2/64	60

DATE OF FLOW CALCULATIONS							
NO	Coefficient (24 Hour)	$\sqrt{h_w p_m}$	Pressure P_m	Flow Temp. Factor F_L	Gravity Factor F_G	Super Compress. Factor, F_{sp}	Rate of Flow Q, Mgd
1	2.67	25.56	522.7	0.9850	1.3142	1.0364	92
2	2.67	40.90	522.7	0.9859	1.3142	1.0367	147
3	2.67	64.35	538.7	0.9850	1.3142	1.0375	231
4	2.67	94.81	566.9	0.9850	1.3142	1.0387	341

NO	R	Temp. °R	γ	γ_g	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.77	536	1.54	0.921	0	0	0.579	XXXXXX	678	347
2	0.77	535	1.54	0.920				XXXXX		
3	0.80	536	1.54	0.920						
4	0.82	536	1.54	0.927						

1.7018×10^4 49253		$\frac{P_1^2}{P_2^2 - P_1^2} = 3.1877$		$\frac{P_2^2}{P_2^2 - P_1^2} = 3.1877$	
NO	P_1^2	P_2^2	$P_2^2 - P_1^2$	$\frac{P_1^2}{P_2^2 - P_1^2}$	$\frac{P_2^2}{P_2^2 - P_1^2}$
1	6587	43392	36805	0.1817	1.1817
2	6454	41650	35196	0.1834	1.1834
3	6184	38238	32054	0.1931	1.1931
4	5815	37809	31994	0.1818	1.1818

Measured Open Flow 1036		Measured Flow 41%		Measured Flow 1,000	
Remarks: B.H.P. MEASURED AT 14169 PRESSURE 14165					
Approved by Commission: _____					

Post FD-2
10-25-85
Comp. Atto.

TYPE TEST: 4 POINT
: INITIAL
TEST DATE: 7/13/85

[illegible]

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CONNECTION:  NGPL
RESERVOIR:  ATOKA
PID = 15003.  ELEV = 3430.
SET AT 14.45.  PERF:14165.-14172.
SET AT 13895.  PERF:      0.-      0.
PACKER SET AT:      13895.
DARG.PRESS = 13.20 PSIA
MEAN GROUND TEMP., F = 60.

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L	H	G	% CO2	% H2	% H2S	PROVER	HI-RUN	TAPS
14162.	14167.	0.579	1.07	0.96	0.	0.	3.1	FLANGE

NO.	LINE SIZE	ORI. SIZE	FLOW PSIG	HW IN.	FLOW TEMP	TBO. PSIG	TBO. TEMP	BHP PSIG	BH TEMP	FLOW HRS.
SI								8642.	226.	281.7
1	3.07 X	0.750	510.	1.2	76.	0.	0.	8169.	226.	1.0
2	3.07 X	0.750	510.	3.2	75.	0.	0.	8022.	226.	1.0
3	3.07 X	0.750	525.	7.7	76.	0.	0.	7723.	226.	1.0
4	3.07 X	0.750	542.	16.2	76.	0.	0.	7311.	226.	1.0

NO.	COEFFICIENT (24 - HOUR)	SERT. (HWP1)	PHASE (°)	T-FACTOR F(T)	G-FACTOR F(G)	SC-FACTOR F(PV)	FLOW MOED
1	2.67	25.56	522.7	0.9850	1.3142	1.0364	92.
2	2.67	40.90	522.7	0.9859	1.3142	1.0367	147.
3	2.67	64.35	530.7	0.9859	1.3142	1.0375	231.
4	2.67	94.81	554.9	0.9850	1.3142	1.0387	341.

NO.	P(R)	TEMP. R	T(R)	Z		
---	----	-----	----	----	GAS LIQ RATIO, MOL/BNL 0.	
1	0.77	536.	1.54	0.731	API G OF HYDROCARBONS 0.	
2	0.77	535.	1.54	0.976	0.579	XXXXX
3	0.80	536.	1.54	0.929	XXXXX	0.579
4	0.82	536.	1.54	0.927	CRITICAL PRES., PSIA 678.	678.
					CRITICAL TEMP., R 347.	347.

NO.	PW	PW&PW	PC&PC (PW & PW)	
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1	4587.	43392.	5072.	PC = 7918.5
2	6454.	41650.	7503.	PC&PC = 49283.
3	6134.	30238.	11004.	PC, PC, (PC, PC, PC, PC) = 3.1077
4	5015.	33809.	15402.	(PC&PC/ (PC&PC, PC&PC)) * PC = 3.1077
				AGP (100/200) = 1096.

UNIT :
LEASE : TODD FED 23
WELL : 3
S/T/R : 23 23S 31E
COUNTY: EDDY
STATE : NEW MEXICO

TEST: 4 POINT
: INITIAL
TEST DATE: 9/13/85

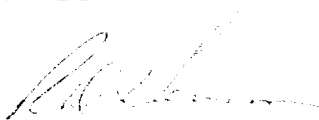
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PAGE 2

CALC WH OPEN FLOW= 1036. MCFD @ 15.025, CLOSURE ANGLE= 45.0, N= 1.000

APPROVED BY
COMMISSION: CONDUCTED BY: CALCULATED BY: CHECKED BY:

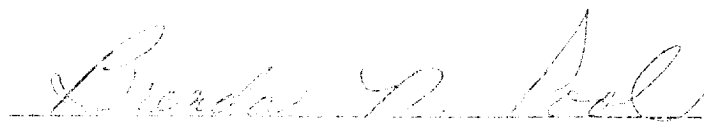
I, E. D. Hester, BEING FIRST DULY SWORN ON OATH, STATE THAT
I AM FAMILIAR WITH FACTS AND FIGURES SET FORTH IN THIS REPORT,
AND THAT THE REPORT IS TRUE AND CORRECT.

 Members Dist. Mgr.
SIGNATURE AND TITLE OF AFFIANT

Texas American Oil Corporation
COMPANY

SUBSCRIBED AND SWORN TO BEFORE ME THIS 29 DAY OF September, 19 85

MY COMMISSION EXPIRES 7-13-89


NOTARY PUBLIC