

APPLICATION FOR WELLHEAD
PRICE CEILING CATEGORY DETERMINATION

1. FOR DIVISION USE ONLY:	
DATE COMPLETE APPLICATION FILED	
DATE DETERMINATION MADE	
WAS APPLICATION CONTESTED?	YES ☐ NO ☒
NAME(S) OF INTERVENOR(S), IF ANY:	

RECEIVED
MAY 16 1983
O. C. D.
ARTESIA, OFFICE

5A. Indicate Type of Lease STATE ☐ FEE ☒	
5. State Oil & Gas Lease No.	
[Hatched Box]	
7. Unit Agreement Name	
8. Farm or Lease Name Haley Com	
9. Well No. #3	
10. Field and Pool, or Wildcat West Pecos Slope	
12. County Chaves	

2. Name of Operator MTS Limited Partnership
3. Address of Operator P. O. Box 2009 Amarillo, TX 79189
4. Location of Well UNIT LETTER <u>A</u> LOCATED <u>532</u> FEET FROM THE <u>North</u> LINE AND <u>453</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>12</u> TWP. <u>7S</u> RGE. <u>22E</u> NMPM
11. Name and Address of Purchaser(s) Undetermined

WELL CATEGORY INFORMATION

Check appropriate box for category sought and information submitted.

1. Category(ies) Sought (By NGPA Section No.) 102.2 & 107.6
2. All Applications must contain:
 - ☒ a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK
 - ☒ b. C-105 WELL COMPLETION OR RECOMPLETION REPORT
 - ☐ c. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111 N/A
 - ☒ d. AFFIDAVITS OF MAILING OR DELIVERY
3. In addition to the above, all applications must contain the items required by the applicable rule of the Division's "Special Rules for Applications For Wellhead Price Ceiling Category Determinations" as follows:
 - A. NEW NATURAL GAS UNDER SEC. 102(c)(1)(B) (using 2.5 Mile or 1000 Feet Deeper Test)
 - ☒ All items required by Rule 14(1) and/or Rule 14(2)
 - B. NEW NATURAL GAS UNDER SEC. 102(c)(1)(C) (new onshore reservoir)
 - ☐ All items required by Rule 15
 - C. NEW ONSHORE PRODUCTION WELL
 - ☐ All items required by Rule 16A or Rule 16B
 - D. DEEP, HIGH-COST NATURAL GAS and TIGHT FORMATION NATURAL GAS
 - ☒ All items required by Rule 17(1) or Rule 17(2)
 - E. STRIPPER WELL NATURAL GAS
 - ☐ All items required by Rule 18

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED
HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE AND BELIEF.

C. Taylor Yoakam
NAME OF APPLICANT (Type or Print)
C. Taylor Yoakam
SIGNATURE OF APPLICANT
Title Manager Gas Sales & Contracts
Date 5-11-83

FOR DIVISION USE ONLY	
☐ Approved	The information contained herein includes all of the information required to be filed by the applicant under Subpart B of Part 274 of the FERC regulations.
☐ Disapproved	
EXAMINER _____	

457
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-3-83		MAY 09 1983	
Company Mesa Petroleum Co. ✓		Connection unconnected		O. C. D.	
Pool West Pecos Slope ABO		Formation ABO		Unit ARTESIA, OFFICE	
Completion Date 4-30-83		Total Depth 3250'		Plug Back TD 3175'	
Elevation 4117' GR		Form or Lease Name Haley Com		Well No. 3	
Ceq. Size 4 1/2"	Wt. 10.5#	Set At 3250'	Perforations: From 2837' To 2955'		Unit A
Thq. Size 2 3/8"	Wt. 4.7#	Set At 2946'	Perforations: From open ended To		Sec. 12
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single			Packer Set At none		Twp. 7S
Producing Thru Tubing		Reservoir Temp. °F 100 3250		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State New Mexico		County Chaves	
L	H	Cg .65	% CO ₂ 1	% N ₂ 1	% H ₂ S
Prover 2" critical flow prover		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							903		903	
1.	2" x 1"			33		48	730	75	750	
2.	2" x 1"			44		52	610	76	650	
3.	2" x 1"			50		54	500	78	550	
4.	2" x 1"			60		58	380	80	430	
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	17.09	Flow prover	46	1.012	1.24		986
2.	"	"	57	1.008	1.24		1217
3	"	"	63	1.006	1.24		1343
4.	"	"	73	1.002	1.24		1550
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²
1	916	839	763	582
2			663	440
3			563	317
4			443	196
5				643

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3048$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1453$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,800$

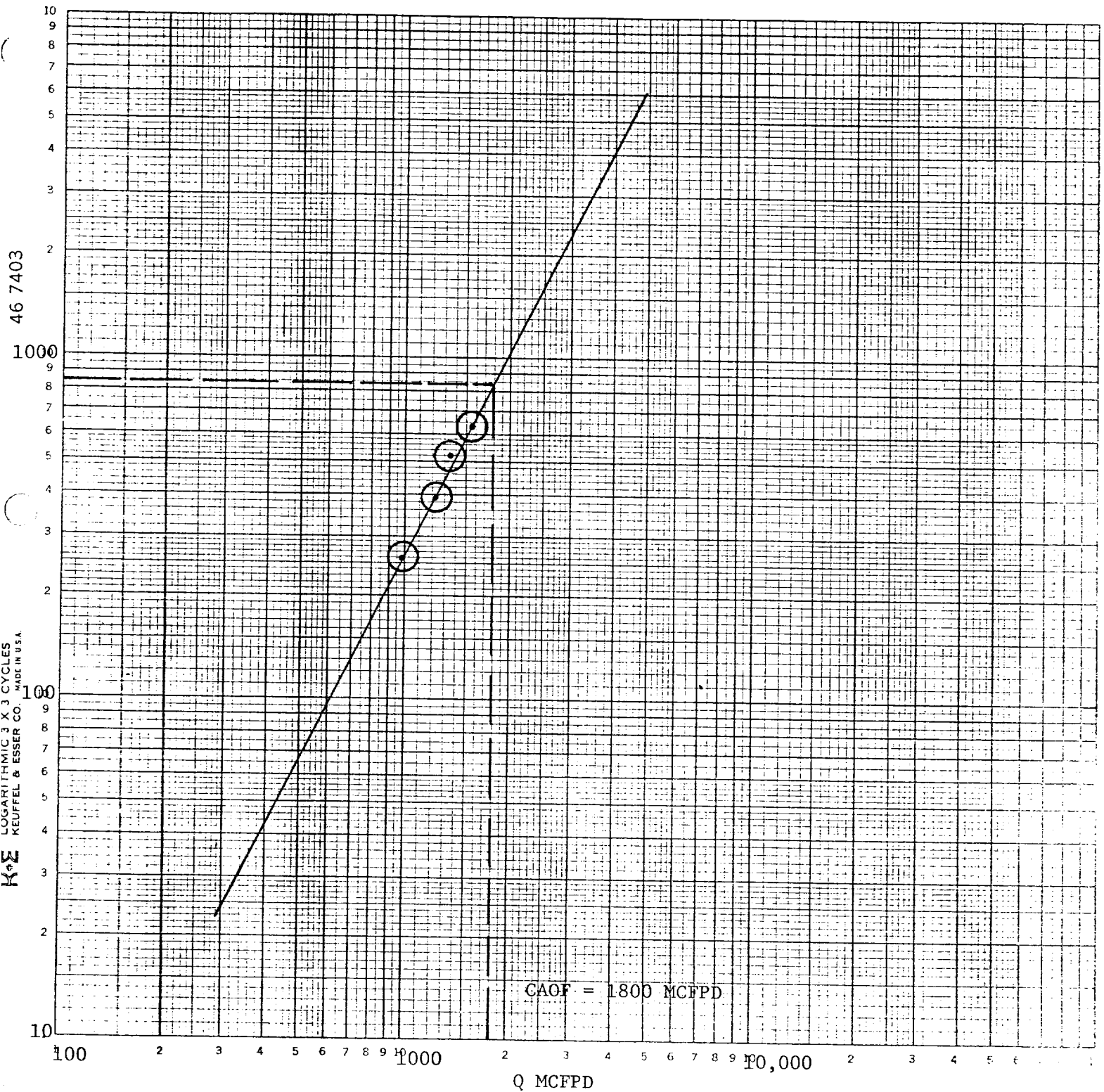
Post ID-2
5-13-83
Comp. 4 BX.

Absolute Open Flow 1,800	Mcfd @ 15.025	Angle of Slope @ 63°	Slope, n .51
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Remarks:

Approved By Division	Conducted By: James Craig	Calculated By: E. L. Buttross, Jr.	Checked By:
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MESA PETROLEUM CO.
 Haley Com No.3
 Chaves County, New Mexico
 May 3, 1983



$$N = 1/510pe = \frac{\text{Log } Q_2 - \text{Log } Q_1}{\text{Cycle}} = \frac{\text{Log } 2000 - \text{Log } 620}{\text{Cycle}} = 3.30 - 2.79 = .51$$

$$\theta = 63^\circ$$

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	☒
FILE	☒
U.S.G.S.	☒
LAND OFFICE	☒
OPERATOR	☒

5a. Indicate Type of Lease
State ☐ Fee ☒

5. State Oil & Gas Lease No.

1a. TYPE OF WELL *Oil*

OIL WELL ☐

GAS WELL ☒

DRY ☐

RECEIVED
OTHER

b. TYPE OF COMPLETION

NEW WELL ☒

WORK OVER ☐

DEEPEN ☐

PLUG BACK ☐

DIFF. RESVR. ☐

MAY 09 1983

2. Name of Operator

Mesa Petroleum Co. ☒

3. Address of Operator

P.O. Box 2009 / Amarillo, Texas 79189

O. C. D.
ARTESIA, OFFICE

4. Location of Well

UNIT LETTER A LOCATED 532 FEET FROM THE North LINE AND 453 FEET FROM

THE East LINE OF SEC. 12 TWP. 7S RGE. 22E NMPM

7. Unit Agreement Name

8. Farm or Lease Name

Haley Com

9. Well No.

3

10. Field and Pool, or Wildcat

West Pecos Slope ABO

12. County

Chaves

15. Date Spudded 4-12-83 16. Date T.D. Reached 4-17-83 17. Date Compl. (Ready to Prod.) 4-30-83 18. Elevations (DF, RKB, RT, GR, etc.) 4117' GR 4130' RKB 19. Elev. Casinghead 4117'

20. Total Depth 3250' 21. Plug Back T.D. 3175' 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools A11 Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

2837' - - - 2955', ABO

25. Was Directional Survey Made

No

26. Type Electric and Other Logs Run

GR-CNL-FDC/GR-CLL

27. Was Well Cored

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	1210'	12"	450/200/750	-
4 1/2"	10.5#	3250'	7 7/8"	400	-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8"	2946'	-

30. TUBING RECORD

31. Perforation Record (Interval, size and number)

2837'-48'; 2853',54',2953',54',55';
.40" entry total of 17 holes 1JSPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
2837' - 2955'	A/2400 gal 7 1/2% HCL + 42 BS
2837' - 2955'	F/36000 gal X Line Gel + 12000 gal CO2 + 82000 20/40 + 66000# 10/20 SD

3. PRODUCTION

Date First Production	WOPLC	Production Method (Flowing, gas lift, pumping - Size and type pump)	Flowing	Well Status (Prod. or Shut-in)	Shut-in
Date of Test	5-3-83	Hours Tested	4	Choke Size	-
Flow Tubing Press.	555	Casing Pressure	595	Calculated 24-Hour Rate	-
		Oil - Bbl.	-	Gas - MCF	1274
		Water - Bbl.	-	Oil Gravity - API (Corr.)	-

4. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

Test Witnessed By

E. L. Buttross, Jr.

5. List of Attachments

C122, Record of Inclination

6. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED R. E. Machis TITLE Regulatory Coordinator DATE May 6, 1983

XC: NMOCD-A (O+5), CEN RCDS, ACCTG, MAT CONT, GAS CONT, ENG, PROD, OPS(FILE), TW, MIDLAND, D&M, ROSWELL, PARTNERS