

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

C/SF
File
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-26-82		SEP 29 1982	
Company MESA PETROLEUM CO.				Connection UNCONNECTED			
Pool PECOS SLOPE ABO				Formation ABO		Unit ARTESIA, OFFICE	
Completion Date 7-26-82		Total Depth 3150'		Plug Back TD 2925'		Elevation 3978'	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 3089'		Perforations: From 2845' To 2967'	
Trq. Size 2 3/8"		Wt. 4.7#		Set At 2910'		Perforations: From OPEN ENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple - SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 95° @ 3150'		Mean Annual Temp. °F 60		Baro. Press. - P ₀ 13.2	
L		H		G _g .65		% CO ₂ 1	
				% N ₂ 1		% H ₂ S	
				Prover 2" ORIFICE WELL TESTER		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
5!							910		910		72 HRS SI
1.	2" ORIFICE		1½"	18.5		72	800	86	805		1 HR
2.	WELL		1½"	20		83	575	89	595		1 HR
3.	TESTER		1½"	21		85	385	92	420		1 HR
4.			1½"	22		86	245	95	290		1 HR
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 _{sp}	Rate of Flow Q, Mscf
1	649	2" ORIFICE		.9887	.9608		617
2	1160	WELL TESTER		.9786	.9608		1091
3	1270	"		.9768	.9608		1192
4	1300	"		.9759	.9608		1219
5							

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

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	923	852	818	669	183	1.1211	1.0588
2			608	370	482		
3			433	187	665		
4			303	92	760		
5							

ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,300$

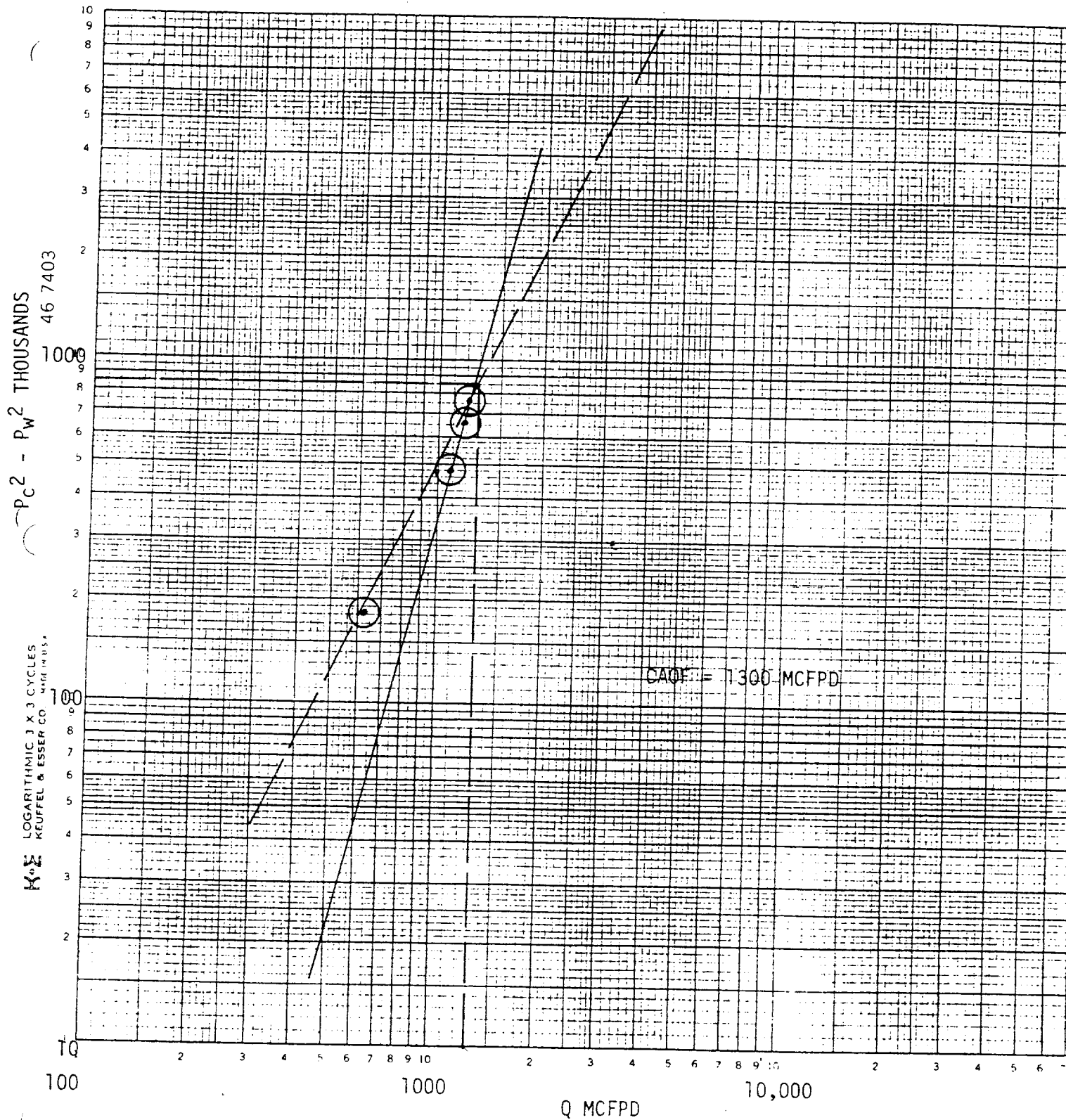
Posted IO-2
10-1-82
Comp & RK

Absolute Open Flow _____ 1,300 _____ Mscf @ 15.025	Angle of Slope θ _____ 63.5°	Slope, n _____ .5
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Remarks: Plot of P_c² - P_w² vs Q yielded a straight line with a θ greater than 63.5°. Drew 63.5° line through highest point.

Approved By Commission:	Conducted By: JAMES CRAIG	Calculated By: E.L. BUTTROSS, JR	Checked By:
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MESA PETROLEUM CO.
CHINA FEDERAL NO. 10
CHAVES CO., NM
7-26-82



ASSUMED $N = .5$ AND $\theta = 63.5^\circ$.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

C/SF

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		2. NAME OF OPERATOR MESA PETROLEUM CO.		3. ADDRESS OF OPERATOR 1000 VAUGHN BUILDING/MIDLAND, TX 79701-4493		4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1550' FNL & 2080' FEL At top prod. interval reported below At total depth SAME		14. PERMIT NO. DATE ISSUED 6-25-82		5. LEASE DESIGNATION AND SERIAL NO. NM-36648		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		7. UNIT AGREEMENT NAME		8. FARM OR LEASE NAME CHINA FED COM		9. WELL NO. 10		10. FIELD AND POOL, OR WILDCAT UNDESIGNATED ABO		11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA SEC 17, T7S, R23E		12. COUNTY OR PARISH CHAVES		13. STATE NEW MEXICO	
15. DATE SPUDDED 6-30-82		16. DATE T.D. REACHED 7-3-82		17. DATE COMPL. (Ready to prod.) 7-26-82		18. ELEVATIONS (DF, REB, RT, GE, ETC.)* 3978' GR, 3991' RKB		19. ELEV. CASINGHEAD 3978'		20. TOTAL DEPTH, MD & TVD 3150'		21. PLUG, BACK T.D., MD & TVD 2925'		22. IF MULTIPLE COMPL., HOW MANY* -		23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS ALL -		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 2845' --- 2967'; ABO		25. WAS DIRECTIONAL SURVEY MADE NO		26. TYPE ELECTRIC AND OTHER LOGS RUN GR-CLL/GR-CNL-FDC		27. WAS WELL COBED NO			
29. CASING RECORD (Report all strings set in well)																											
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED																	
8 5/8"		24#		1514'		12 1/4"		700/200/1250																			
4 1/2"		10.5#		3089'		7 7/8"		350																			
29. LINER RECORD																											
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		TUBING RECORD																	
										SIZE		DEPTH SET (MD)		PACKER SET (MD)													
										2 3/8"		2910'															
31. PERFORATION RECORD (Interval, size and number)																											
2845', 46', 47', 48', 49', 50', 51', 60', 61', 62', 65', 66', 77', 78', 2910', 13', 55', 58', 62', 65', 67'; total of 21 holes 3 1/8" csg gun 1 JSPF																											
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.																											
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED																											
2845' --- 2967' A/3250 gals 7 1/2% HCL + 52 BS																											
2845' --- 2967' F/41,000 gal X-link gel KCL &																											
CO2 + 70,000# 20/40 sd +																											
72,000# 10/20 sd																											
33. PRODUCTION																											
DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or Shut-TN)																											
- - - - - FLOWING - - - - - ACCEPTED FOR RECORD																											
DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS—OIL RATIO																											
7-26-82 4 - - - - - 172																											
FLOW. TUBING PRES. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. GAS—OIL RATIO																											
501 528 - - - - - 1030																											
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)																											
VENTED																											
35. LIST OF ATTACHMENTS																											
C-122, RECORD OF INCLINATION																											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																											
SIGNED R.E. Mosh TITLE REGULATORY COORDINATOR DATE 8-4-82																											

*(See Instructions and Spaces for Additional Data on Reverse Side)

XC: MMS (7), TLS, CEN RCDS, ACCTG, MEC, MAH, D&M, MTS (3), LMC, CTY, ROSWELL, EEB, REM, K, TW, FILE, PARTNERS

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion); so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:				38. GEOLOGIC MARKERS	
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES					
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH
					TRUE VERT. DEPTH
	NOT LOGGED			GLORIETA	532'
				YESO	750'
				TUBB	2128'
				ABO	2776'

MESA PETROLEUM CO.
CHINA FEDERAL #10
1550' FNL & 2080' FEL, SEC 17, T7S, R23E
CHAVES COUNTY, NEW MEXICO

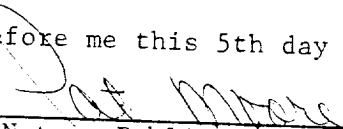
RECORD OF INCLINATION

<u>DEPTH</u>	<u>DEVIATIONS</u>
490'	3/4°
980'	3/4°
1540'	3/4°
2640'	1½°
3150'	1½°



R. E. MATHIS, REGULATORY COORDINATOR

Subscribed and sworn to before me this 5th day of August, 1982.



Notary Public in and for Midland
County, Texas.

Commission Expires: JUNE 26, 1985