

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

(See other instructions on reverse side)

Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____				5. LEASE DESIGNATION AND SERIAL NO. 11/10/76																									
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME NONE																									
2. NAME OF OPERATOR Palmer Oil & Gas Company				7. UNIT AGREEMENT NAME NONE																									
3. ADDRESS OF OPERATOR P. O. Box 2564, Billings, Montana 59103				8. FARM OR LEASE NAME FEDERAL 1																									
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 820' FEL, 1525' FSL At top prod. interval reported below SAME At total depth SAME				9. WELL NO. 1																									
14. PERMIT NO. _____ DATE ISSUED _____				10. FIELD AND POOL, OR WILDCAT Basin Dakota-Blanco MV																									
15. DATE SPUDDED 9/22/76 16. DATE T.D. REACHED 10/6/76 17. DATE COMPL. (Ready to prod.) _____				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 1: T31N-R13W																									
18. ELEVATIONS (DF, RKB, ET, GR, ETC.)* 5797 RKB				12. COUNTY OR PARISH San Juan 13. STATE New Mexico																									
19. ELEV. CASINGHEAD 5785		20. TOTAL DEPTH, MD & TVD 6909' KB 21. PLUG, BACK T.D., MD & TVD 6857' KB 22. IF MULTIPLE COMPL., HOW MANY* TWO																											
23. INTERVALS DRILLED BY →		ROTARY TOOLS ALL CABLE TOOLS NONE		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Dakota: Top - 6642', Bottom - 6786' Mesa Verde: Top - 4465' Bottom - 4705'																									
25. WAS DIRECTIONAL SURVEY MADE NO				26. TYPE ELECTRIC AND OTHER LOGS RUN Induction -- Gamma Ray, Sidewall Neutron, CNL - Density																									
27. WAS WELL CORED NO				28. CASING RECORD (Report all strings set in well)																									
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33.* PRODUCTION																													
DATE FIRST PRODUCTION SI		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing Dakota and Mesa Verde		WELL STATUS (Producing or shut-in) W. O. Connection - SI																									
DATE OF TEST 11/7/76 Dak 11/14/76 MV		HOURS TESTED 3		CHOKE SIZE .750"																									
PROD'N. FOR TEST PERIOD →		OIL—BBL. ---- GAS—MCF. ---- WATER—BBL. 0 GAS-OIL RATIO ----		FLOW. TUBING PRESS. 81 Dak. 216 MV CASING PRESSURE 1016																									
CALCULATED 24-HOUR RATE →		OIL—BBL. ---- GAS—MCF. 1077 WATER—BBL. ---		OIL GRAVITY-API (CORR.) Not measured Not measured																									
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Will be sold				TEST WITNESSED BY Joe F. Elledge																									
35. LIST OF ATTACHMENTS None																													
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																													
SIGNED Robert Ballantyne		TITLE Drilling Superintendent		DATE 11/8/76																									

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

U. S. GEOLOGICAL SURVEY

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: 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			38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
				T Menefee	3920		
				Point Lookout	4400		
				T Mancos	4900		
				T Gallup	6090		
				Base Greenhorn	6575		
				T Dakota	6640		
				T Morrison	6900		

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11/14/76	
Company Palmer Oil Company				Connection EPNG		
Pool Blanco Mesaverde				Formation Mesaverde		Unit None
Completion Date 10/31/76		Total Depth 6909' KB		Plug Back TD 6857' KB		Elevation 5797' KB
Farm or Lease Name Federal 1		Well No. 1				
Csg. Size 7 5/8	Wt. 14.0	d 5.012	Set At 6895	Perforations: From 4465 To 4705		Unit I
Tbg. Size 2 3/8	Wt. 4.7	d 1.049	Set At 4406	Perforations: From open ended To		Sec. 1
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At 6610' KB		Twp. 31N
Producing Thru tubing		Reservoir Temp. °F 100 at 4705 est		Baro. Press. - P _a 12 psia - est.		Rge. 13W
State New Mexico		County San Juan				
L	H	Gg .650	% CO ₂	% N ₂	% H ₂ S	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.	Temp. °F	
SI	14 days						1014		1016		
1.	2"	0.750	216				216	60°	919	60°	3 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		228	1.000	.9608	1.022	2768
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons <td>Deg.</td>	Deg.
2					Specific Gravity Separator Gas <td>XXXXXXX</td>	XXXXXXX
3					Specific Gravity Flowing Fluid <td>XXXXXX</td>	XXXXXX
4					Critical Pressure <td>P.S.I.A.</td>	P.S.I.A.
5					Critical Temperature <td>R</td>	R

P _c 1028	P _c ² 1,056,784	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 5.5613$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 3.6214$
NO	P _t ²	P _w	R _w ²
1		931	866,761
2			
3			
4			
5			

Absolute Open Flow 10,024 Mcfd @ 15.025		Angle of Slope θ	Slope, n .75
Remarks:			

Approved By Commission:	Conducted By: Harold W. Elledge	Calculated By: Joe F. Elledge	Checked By: Harold W. Elledge
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