

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R3555

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. SF-079185	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Pubco Petroleum Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 869, Albuquerque, New Mexico 87103		8. FARM OR LEASE NAME Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1850' FSL & 1650' FWL, Sec. 21, T. 26 N., R. 6 W. At top prod. interval reported below Same At total depth Same		9. WELL NO. 13	
14. PERMIT NO.		DATE ISSUED	
15. DATE SPIDDED 6/27/67		16. DATE T.D. REACHED 7/14/67	
17. DATE COMPL. (Ready to prod.) 7/31/67		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6682 GR 6694 KB	
19. ELEV. CASINGHEAD 1'		20. TOTAL DEPTH, MD & TVD 7480' MD	
21. PLUG BACK T.D., MD & TVD 7450' MD		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY ROTARY TOOLS 0 - 7480		CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7220-50 (Graneros) 7310-7400' (Dakota)		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray - Neutron		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8-5/8	24.0	424	12-1/4
4-1/2	10.5	7480	7-7/8
		CEMENTING RECORD	
		210 sx Class "C"	
		1st stage 330 cu. ft.	
		2nd stage 820 cu. ft.	
		3rd stage 1420 cu. ft.	
		AMOUNT PULLED	
		0	
		0	
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8	7409		
31. PERFORATION RECORD (Interval, size and number)			
7380-7400'	0.46"	2 jpf	
7310-50'	0.46"	2 jpf	
7220-50'	0.46"	2 jpf	
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
7380-7400		30,000 gal. wtr. & 22,500# sd.	
7310-50		60,000 gal. wtr. & 45,000# sd.	
7220-50		20,000 gal. wtr. & 15,000# sd.	
33. PRODUCTION			
DATE FIRST PRODUCTION W/O Pipeline		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	
DATE OF TEST 8/14/67		HOURS TESTED 3	
CHOKE SIZE 3/4		PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO	
FLOW. TUBING PRESS. 249 psi		CASING PRESSURE 702 psi	
CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)		3233	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented			
35. LIST OF ATTACHMENTS Gamma Ray - Neutron Log			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED CHARLES E. Ramsey, Jr. Charles E. Ramsey, Jr.		TITLE Area Production Manager	
DATE Sept. 7, 1967			

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

in a State agency,
of cases to be
be local Federal
to, etc., form
All attachments
Sub local State
agents,
x the producing
ately identified,
tool.

REVERT DEPTH

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-55

Pool Basin		Formation Dakota		County Rio Arriba	
Initial XX	Annual		Special	Date of Test 8-14-67	
Company PURCO PETROLEUM CORP.		Lease Federal		Well No. 13	
Unit K	Sec. 21	Twp. 26 North	Range 6 West	Purchaser El Paso Natural Gas Company	
Casing 4.5	Wt. 10.5#	I.D. 4.052	Set at 7480 KB	Perf. 7220	To 7400
Tubing 2.375	Wt. 4.7#	I.D. 1.995	Set at 7409	Perf.	To
Gas Pay:	From 7220	To 7400	L 7409	G .650	GL 4816
Producing Through:			Casing	Tubing XX	Type Well - Single - Braden head - G.G. or G.O. Dual Single
Date of Completion 7-31-67		Packer		Reservoir Temp.	

OBSERVED DATA

Tested Through: Prover ☐ Choke ☒ Meter ☐								Type of Taps		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. P_w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.						1496		2378		
2.		0.75				398	77°	961		1
3.		0.75				274	79°	756		2
4.		0.75				249	79°	702		3
5.										

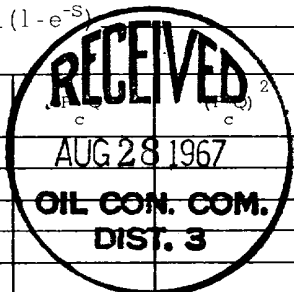
FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_t}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCF P.D. @ 15.025 psia
1.	12.365		261	0.9822	1.000	1.020	
2.			3027.265	3169.820	3169.820	3233.216	3033
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas-Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 P_c _____ (1-e^{-S}) P_c **2390** P_c^2 **5,712,100**

No.	P_w P_t psia	P_t^2	$(F_c Q)^2 (1-e^{-S})$	P_w^2	$P_c^2 - P_w^2$	Cal P_w	$\frac{P_w}{P_c}$
1.				505,756	5,206,304		
2.							
3.							
4.							
5.							



ABSOLUTE POTENTIAL: **3,468** MCFPD; n **0.75**

COMPANY **PURCO PETROLEUM CORP.** WITNESSED **Jack Dunning**

ADDRESS **P.O. Box P, Antec, New Mexico** COMPANY **Purco Petroleum Corp.**

AGENT AND TITLE *Elmer O. Rhodes*
Field Foreman