

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

NM 12275

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal #12

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Hat Mesa Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Section 12, T21S-R52E

12. COUNTY OR
PARISH

Lea

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

EELCO PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

10,000 Old Katy Road - Suite #100, Houston, Texas 77055

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1980' FSL, 1980' FWL Section 12

At top prod. interval reported below

same

At total depth

same

14. PERMIT NO.

DATE ISSUED

12/2/76

15. DATE SPUDDED

12/10/76

16. DATE T.D. REACHED

1/30/77

17. DATE COMPL. (Ready to prod.)

4/14/77

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

GR 3817

KE 3835

19. ELEV. CASINGHEAD

3836

20. TOTAL DEPTH, MD & TVD

14,370'

21. PLUG, BACK T.D., MD & TVD

-

22. IF MULTIPLE COMPL.,
HOW MANY*

-

23. INTERVALS
DRILLED BY

→

ROTARY TOOLS

0-14,370

CABLE TOOLS

-

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

13,958-14,056' overall from selective perforations in Morrow

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Porro-Guard; Acoustic Val. 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	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	46#	500'	17-1/2"	600 sx Class "C"	None
9-5/8"	35 & 40#	5,140'	12-1/4"	3410 sx Lite S Class "C"	None
5-1/2"	17 & 20#	14,370'		1210 sx Class "h"	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

13,958 - 67 w/2 SPF
13,974 - 85 "
13,989 - 93 "
14,022 - 34 "
14,034 - 56 "

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
13,989-93	6,000 gals 75% HCl
14,022-34	
14,034-56	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
-	Flowing	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/14/77	18.5	25/64	→	TSTM	222.6	71	49,800
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
100 psi	-	→	Tr	360	121	N.A.	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be sold into Llano, Inc. sales line

TEST WITNESSED BY

J. West Eng. Co.—Robbs, NM

35. LIST OF ATTACHMENTS

Deviation Report; duplicate logs to be sent under separate cover

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Administrative Geologist

DATE

5/13/77

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

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 58, 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

FORMATION		TOP	DESCRIPTION, CONTENTS, ETC.		NAME		MEAS. DEPTH	TOP
Quaternary	Surface	100	Alluvium		Base Salt	3,215	3,215	
Deasey Lake-Rustler	100	1,650	Red beds & anhydrite		Delaware Sand	5,606	5,606	
Salado-Castile	1,650	3,370	Salts & anhydrite		Bone Springs	8,834	8,834	
Delaware Mtn. Grp.	3,370	8,834	Limestones, Dolomites, Sands & Shales		Wolfcamp Shale	11,756	11,756	
Bone Springs	8,834	11,756	Limestones & Shales		Strawn	12,982	12,982	
Wolfcamp	11,756	12,982	Shale & Limestone		Morrow	13,739	13,739	
Upper Penn	12,982	13,739	Limestones & Shales					
Morrow	13,739	14,370	Sands & Shales					
				No DST's; all testing through perforations.				

MAY 10 1977

MULTIPOINT OFFICE

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

Form C-122
Revised 9-1-65

PAGE 1 OF 2

Type Test		☒ Initial ☐ Annual ☐ Special		Test Date		4-14-77					
Company				Connection							
BELCO PETROLEUM CORP.				TO AIR							
Pool				MORROW							
Completion Date		Total Depth		Plug Back TD		Elevation					
4-14-77						3817					
Casing Size				Well No.							
5 1/2" 17.0# 4.892				1							
Tubing Size				Well No.							
2 3/8" 4.6# 1.995 13,921				1							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At							
SINGLE				13,887							
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a					
TUBING		208° 14000		60		13.2					
L		H		G _g		Prover					
14007		14007		0.6765		4"					
				% CO ₂		Taps					
				0.94		FLANGE					
				% N ₂							
				0.55							
				% H ₂ S							
				-0-							
				Prover							
				Meter Run							
				4"							
				Taps							
				FLANGE							
FLOW DATA											
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	Duration of Flow
1.	4" x 1.50"			62.0	13.0	83	1490.0	54			60 MIN
2.	4" x 1.50"			62.0	8.0	93	355.0	56			60 MIN
3.	4" x 1.50"			57.0	4.0	72	280.0	60			60 MIN
4.	4" x 1.50"			57.0	6.0	71	285.0	62			60 MIN
5.	4" x 1.50"			57.0	8.0	70	225.0	63			60 MIN
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	EST Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd				
1.	10.84	31.27	75.2	.9786	1.216	1.008	406.6				
2.	10.84	24.53	75.2	.9697	1.216	1.008	316.1				
3.	10.84	16.76	70.2	.9887	1.216	1.008	220.2				
4.	10.84	20.52	70.2	.9896	1.216	1.008	269.8				
5.	10.84	23.70	70.2	.9905	1.216	1.008	311.9				
NO.	P _f	Temp. °R	T _f	Z EST	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1.	0.11	543	1.43	.985	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.	0.11	553	1.45	.985	Specific Gravity Separator Gas _____						
3.	0.10	532	1.40	.985	Specific Gravity Flowing Fluid _____						
4.	0.10	531	1.39	.985	Critical Pressure _____ P.S.I.A.						
5.	0.10	530	1.39	.985	Critical Temperature _____ °R						
P _f 5662.2 P _s 32061					(1) $\frac{P_f^2}{P_f^2 - P_s^2} = 1.1042$						
NO.	P _f	P _s	P _f ²	P _f ² - P _s ²	(2) $\left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 1.1042$						
1.	4933.2	24336	7725								
2.	3711.2	13773	18288								
3.	1979.2	3917	28144								
4.	1942.2	3772	28289								
5.	1829.2	3346	28715								
Absolute Open Flow _____ Mcfd @ 15.025					Angle of Slope @ _____ 45.0 LIMIT		Slope, n _____ 1.000 L				
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAGE @ 14000'											
FPV FACTOR LESS THAN THOSE LISTED IN TABLES - ESTIMATED FOR CALCULATIONS											
SLOPE TOO FLAT. DREW 1,000 LIMITED SLOPE THROUGH 6TH RATE OF FLOW											
Approved By Commission:		Conducted By:		Calculated By:		Checked By:					

RECEIVED

MAY 16 1977

CIL
HOBBS, H. M.