

TABULATION OF DEVIATION TESTS

A. L. ELLIOTT "E" NO. 1
AMOCO PRODUCTION COMPANY

DEPTH

282'
773'

DEVIATION

1/4°
1/2°

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
501 Airport Drive Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
880' FNL x 935' FWL, Section 14,
AT SURFACE: T-29-N, R-9-W
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐

(other) Completion-Perf & Frac

5. LEASE

SF 080099

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

A. L. Elliott "E"

9. WELL NO.

10. FIELD OR WILDCAT NAME

Blanco Pictured Cliffs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4 NW/4 Section 14, T-29-N, R-9-W

12. COUNTY OR PARISH San Juan 13. STATE NM

14. API NO.

30-045-22929

15. ELEVATIONS (SHOW DF, KDB, AND WD)

5989' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Completion operations commenced on 4/3/78. Ran tubing and bit; cleaned out to 2747' PBD. Pressure tested to 3400 psi; held OK. Perforated 2566-2680'. Foam fraced with 100,000 lbs. sand and 50,000 gallons frac fluid. Tripped in with tubing and cleaned out frac sand and fluid to 2747'. Production tubing landed at 2686'.

Completion rig released on 4/6/78.

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED E. E. SVOJODA TITLE Area Adm. Supvr. DATE 4/10/78

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

APR 11 1978

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-17-78									
Company Amoco Production Company		Connection El Paso Natural Gas									
Pool Blanco		Formation Pictured Cliffs									
Completion Date 4-9-78		Total Depth 2770									
Csg. Size 4.50		Set At 2770									
Tbg. Size 2.375		Set At 2686									
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Plug Back TD 2747									
Producing Thru Tubing		Elevation 3989									
Reservoir Temp. °F 65		Mean Annual Temp. °F None									
H		Baro. Press. - P _g San Juan									
G _g		State New Mexico									
% CO ₂		Meter Run									
% N ₂		Taps									
% H ₂ S		Prover									
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	Duration of Flow
SI	8 days						911		911		
1.	2.375	0.750					105	60	195		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	12.365		117	1.000	.9608	1.011	1405				
2.											
3.											
4.											
5.											
NO.	P _t	Temp. °R	T _r	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						
F _c 923 P _c ² 851929					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0530$						
NO	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0448$						
1		207	42849	809080							
2											
3											
4											
5											
Absolute Open Flow 1468 Mcfd @ 15.025					Angle of Slope @ _____		Slope, n .85				
Remarks:											
Approved By Commission:		Conducted By: T.M. Oliver		Calculated By: TMO/EWT		Checked By: J.L. Krupha					

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

5. LEASE DESIGNATION AND SERIAL NO.

SF 080099

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

A. L. Elliott "E"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Blanco Pictured Cliffs

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREANW/4 NW/4 Section 14,
T-29-N, R-9-W12. COUNTY OR
PARISH

San Juan

13. STATE

NM

1a. TYPE OF WELL:

OIL
WELL ☐GAS
WELL ☒DRY ☐

Other _____

b. TYPE OF COMPLETION:

NEW
WELL ☒WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
ENVIR. ☐

Other _____

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

501 Airport Drive Farmington, NM 87401

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

At surface

880' FNL x 935' FWL, Section 14, T-29-N, R-9-W

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

3/28/78

16. DATE T.D. REACHED

3/31/78

17. DATE COMPL. (Ready to prod.)

4/9/78

18. ELEVATIONS (DF, RKB, RT, OR, ETC.)*

5989' GL

19. ELEV. CASINGHEAD

5989'

20. TOTAL DEPTH, MD & TVD

2770'

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

2747'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

O-TD

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

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN
2566-2680', Pictured Cliffs

27. WAS WELL CORED

No

Induction Electric, Compensated Density Logs

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#	280'	12-1/4"	260 sx	
4-1/2"	10.5#	2770'	7-7/8"	635 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	2686'	

31. PERFORATION RECORD (Interval, size and number)

2566-74, 2601-12, 2622-28, 2674-80,
with 1 SPF of size .4"

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2566-2680	100,000# SN x 50,000 gallons frac fluid

33.*

PRODUCTION

33.

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/9/78	3	.75"	→		176		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (COM)	
105	195	→		1405			

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

To Be Sold

35. LIST OF ATTACHMENTS

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

SIGNED

R. L. HATT

TITLE

Adm. Supervisor

DATE

4/19/78

*(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 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	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Fruitland	2256	2571			
Pictured Cliffs	2571	2770			