

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.

3004527497

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

HORTON GAS COM

8. Well No.

1

9. Pool name or Wildcat

Basin Fruitland Coal

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 "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

Amoco Production Company

Attention:

Nancy I. Whitaker

3. Address of Operator

P.O. Box 800

Denver

Colorado

80201

(303) 830-5039

4. Well Location

Unit Letter A : 1000 Feet From The NORTH Line and 900 Feet From The EAST Line

Section

28

Township

31N

Range

9W

NMPM

SAN JUAN

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

6143 GR

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: Repair ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Amoco Production Company requests permission to :

Cleanout fill, deepen rat hole, making the new TD 2994-96' which will remain within the fruitland coal formation and not create entry into the Picture Cliff, underream open hole section and run and perforate liner according to the attached
See attached logs for this well and wells on both the east and west.

For additional information contact Mike Kutas 303-830-5159.

RECEIVED
JAN 21 1997

OIL CON. DIV.
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Nancy I. Whitaker

TITLE

Staff Assistant

DATE

01-17-1997

TYPE OR PRINT NAME

Nancy I. Whitaker

TELEPHONE NO. (303) 830-5039

(This space for State Use)

APPROVED BY

ORIGINAL SIGNED BY ERNIE BUSCH

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. #3

DATE

JAN 22 1997

CONDITIONS OF APPROVAL, IF ANY:

SJOET Well Work Procedure

Horton GC 1

Version: #1
Date: January 17, 1997
Budget: Well Repair
Work Type: Deepen/ c/o /run-perf liner

Objectives:

1. C/O fill, deepen for rat hole, underream open hole section
 2. Run and perf liner
 3. Place well back on production
-

Pertinent Information:

Location:	1000' FNL x 900' FEL; 28A-T31N, R09W	Horizon:	FT
County:	San Juan	API #:	30-045-27497
State:	New Mexico	Engr:	Kutas
Lease:	Fee	Phone:	H--(303)840-3700
Well Flac:	70303501		W-(303)830-5159
			P--(303)553-6334

Economic Information:

APC WI:	50%	Prod. Before Repair:	400MCFD
Estimated Cost:	\$100,000	Anticipated Prod.:	1000MCFD
Payout:	3.5Month		
Max Cost -12 Mo. P.O.	> \$300M		
PV15:			
Max Cost PV15:			

Note: Economics will be run on all projects that have a payout exceeding ONE year.

Formation Tops: (Estimated formation tops)

Nacimiento:	Mesaverde:	
Ojo Alamo:	Point Lookout:	
Kirtland Shale:	Mancos Shale:	
Fruitland:	2617-2970'	Gallup:
Pictured Cliffs:	3006'(est'd-Horton 3 PC)	Graneros:
Cliff House:	Dakota:	
	Morrison:	

Bradenhead Test Information:

Test Date: 7/92 **Tubing:** 310 **Casing:** 360 **BH:** 0 psi

Time	BH	CSG	INT	CSG
5 min				
10 min				
15 min				

Comments:

Horton Gas Com 1
Orig. Comp. 9/90
TD = 2972', PBTD = 2972'
Page 2 of 2

Horton GC 1:

Was able to produce the casing successfully until late-December. Production has since fallen off to 400 MCFD and is steadily dropping.

Current wellbore info: 7" CSA 2754', OH at 2754-2972', 2 3/8" TSA 2861', Fill at 2901' KB

Current flow info: 400 MCFD, FTP=135 psi, FCP=1160 psi, LP=130 psi

General observations: 1. Production from well is limited by loading and 2 3/8" TBG depth
2. The well has not been recavitated or underreamed

Short term plans: 1. C/O, run liner; place on artificial lift (if needed)

1. MIRURT--to be based on rig availability.
2. ND tree, rig up BOP's w/cavitation capability. Test BOE. TOH w/2 3/8" tubing (TSA 2861' w/mule shoe on btm. and SN 1 jt off btm.) laying it down. **Note: TBG may be severely corroded and should be handled with care.**
3. Pick up 4,750" drill collars and 3,500" drill pipe with 6,250" bit and clean out fill from 2,901' to total depth (2972') using air and foam. Drill out to a total depth of 2994-96'. Underream open hole section from 6 1/4" to 9 1/4-1/2". Perform 24 hours of forced/natural cavitations. Stabilize hole as quickly as possible to allow running liner (after reaching TD, trip out to casing shoe and wait for 4-6 hours and check to determine amount of fill and how difficult it is to clean up.
4. Run a blank 4,500" flush joint liner (Hydril 511) from TD back to approx. 2,600'. Install a tricone bit on bottom with a float immediately above bit and a Baker Model SLR-P Liner Hanger Packer. Strip in hole and drill to bottom with power swivel if necessary. Hang liner, lay down drill pipe
5. RU HES, RUN GR-CCL to identify correct coal seam depths; TIH and Perforate as follows:

COAL ZONES		PERFORATIONS		
Ignacio #1	2,809 to 2,819'	2,809 to 2,819'	4 jspf	40 holes
Ignacio #2/3/4	2,827 to 2,849'	2,827 to 2,849'	4 jspf	88 holes
Cottonwood	2,879 to 2,891'	2,879 to 2,891'	4 jspf	12 holes
Cahn	2,943 to 2,977'	2,943 to 2,977'	4 jspf	136 holes
		Total		276 holes

Note: Bottom perf interval may be adjusted based on available rathole

6. Pick up and run 2 3/8" TBG as follows:
 - 1) purge valve
 - 2) 2' slotted sub
 - 3) 2 10' tbg subs; top sub w/ 5/8" hole in middle
 - 4) 2 3/8" std. SN with retrievable plug in place
 - 3) remainder 2 3/8" TBG

Land bottom of TBG at approximately 2987' (approx. 5' above liner PB). Pull retrievable plug. RDMODU.
Turn well over to production. **Note: bring well on slowly, well may need swabbing in order to RTP.**

Dependent on speed of hole stabilization, I estimate this procedure to require approximately 5-6 days and to cost approximately \$100,000 (see attached AFE form). A 320 pump jack if needed, will add \$45M and will be handled under separate AFE..

If problems are encountered, please contact:

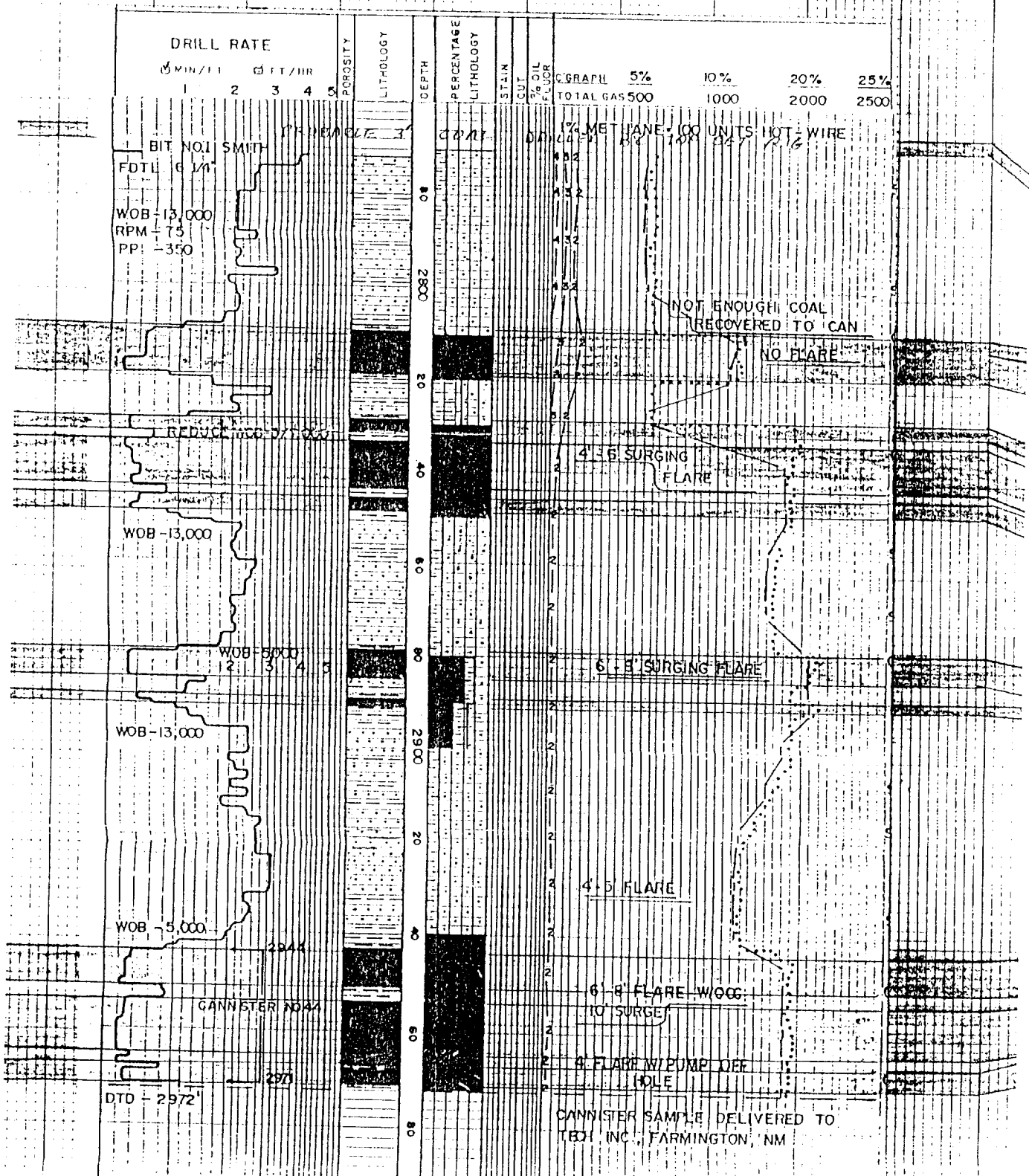
Mike Kutas

(W) (303) 830-5159

(H) (303) 840-3700

(P) (303) 553-6334

HORTON GAS COM No 1
 1000FNL 900FNL SEC 28 31N 9W
 KB 6155





```

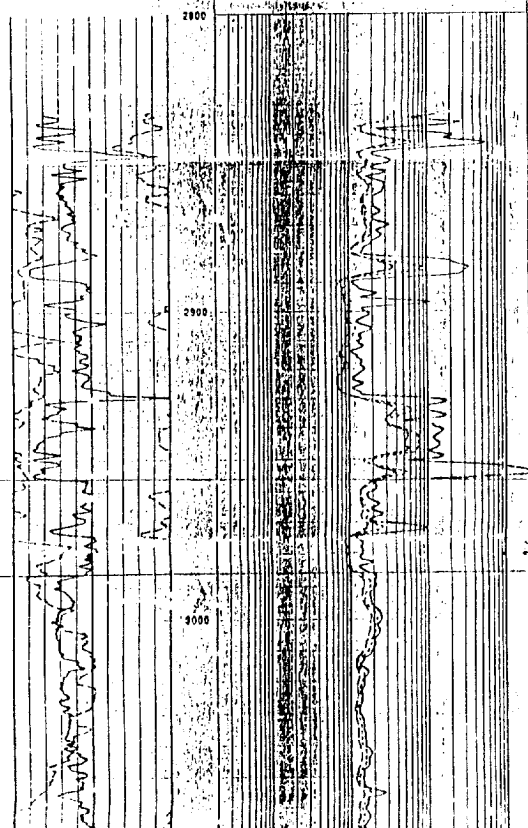
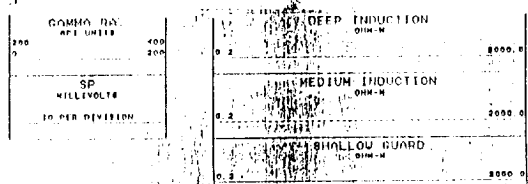
DEPRN 0 FLUIDS 0
TYPE FLUIDS IN HOLD 1 LONG
DEPRN1, 1, 0 0
WATERGAS, 1, 0 0
PH 0 0
FLUID LOSS, CF 0.3
BALANCE, WPM 500
SOURCE OF SAND?
RMI 3 000 OTHN-AI 30 DFO F
GMI 2 250 OTHN-AI 30 DFO F
WMI 0 500 OTHN-AI 30 DFO F
SOURCE INT AND WEAR 1
RMI AT INT 1 287 OTHN-AI 150 DFO F
GMI AT INT 0 018 OTHN-AI 150 DFO F
WMI AT INT 0 006 OTHN-AI 150 DFO F
WEAR AND FRICTION LOSS 150 DFO F
WEAR 1 150 DFO F
WEAR 2 250 DFO F
WEAR 3 250 DFO F

```

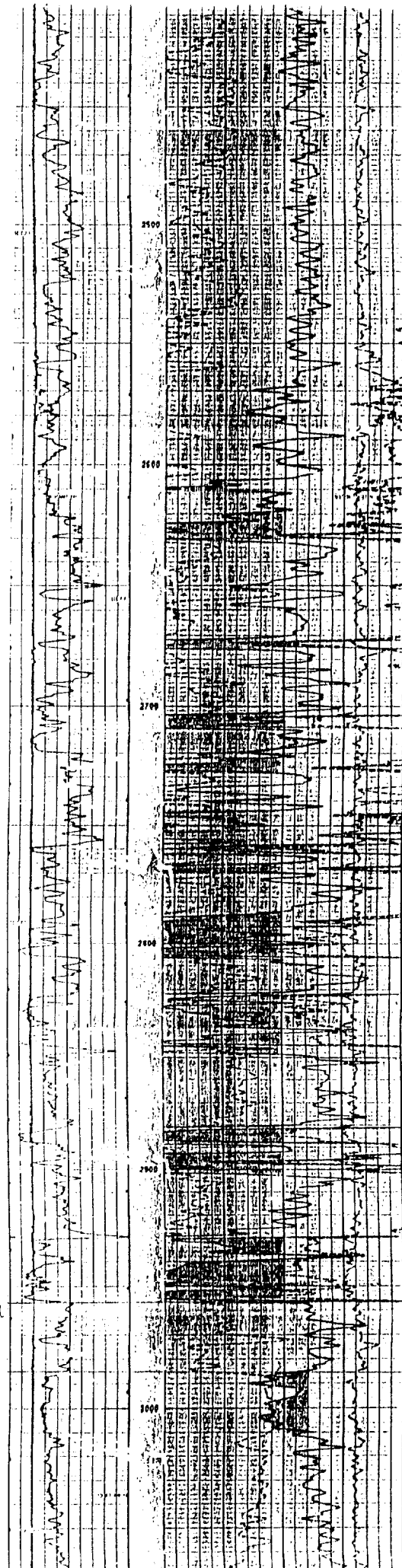
STANDARD PRINTING

CIV-600

STANDARD CURB



BFM
BASAL Cal
TOP RC



3056'		BASE FRT COAL
TOP PC 3085'		

WELL
Bounding
to the
East

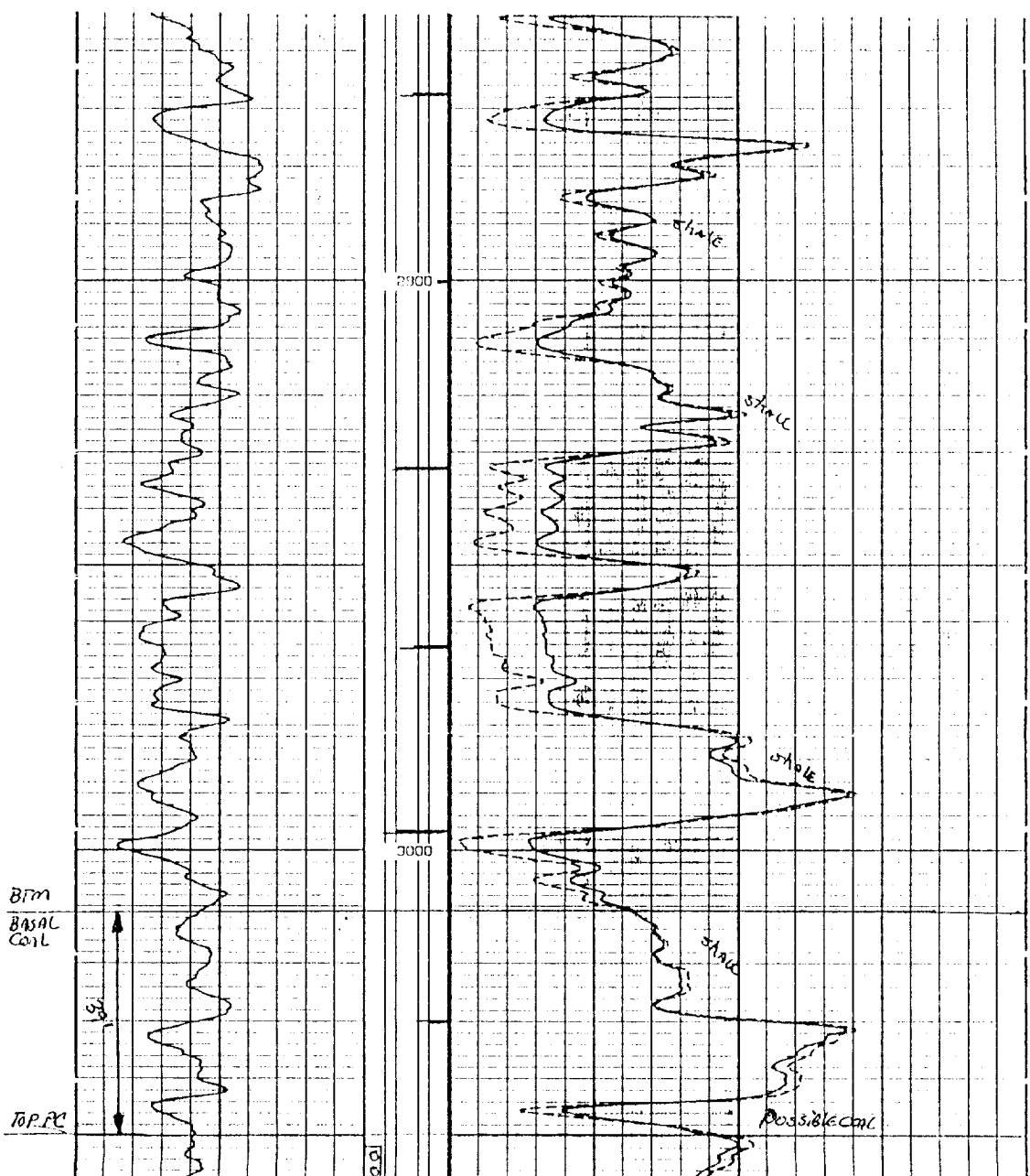


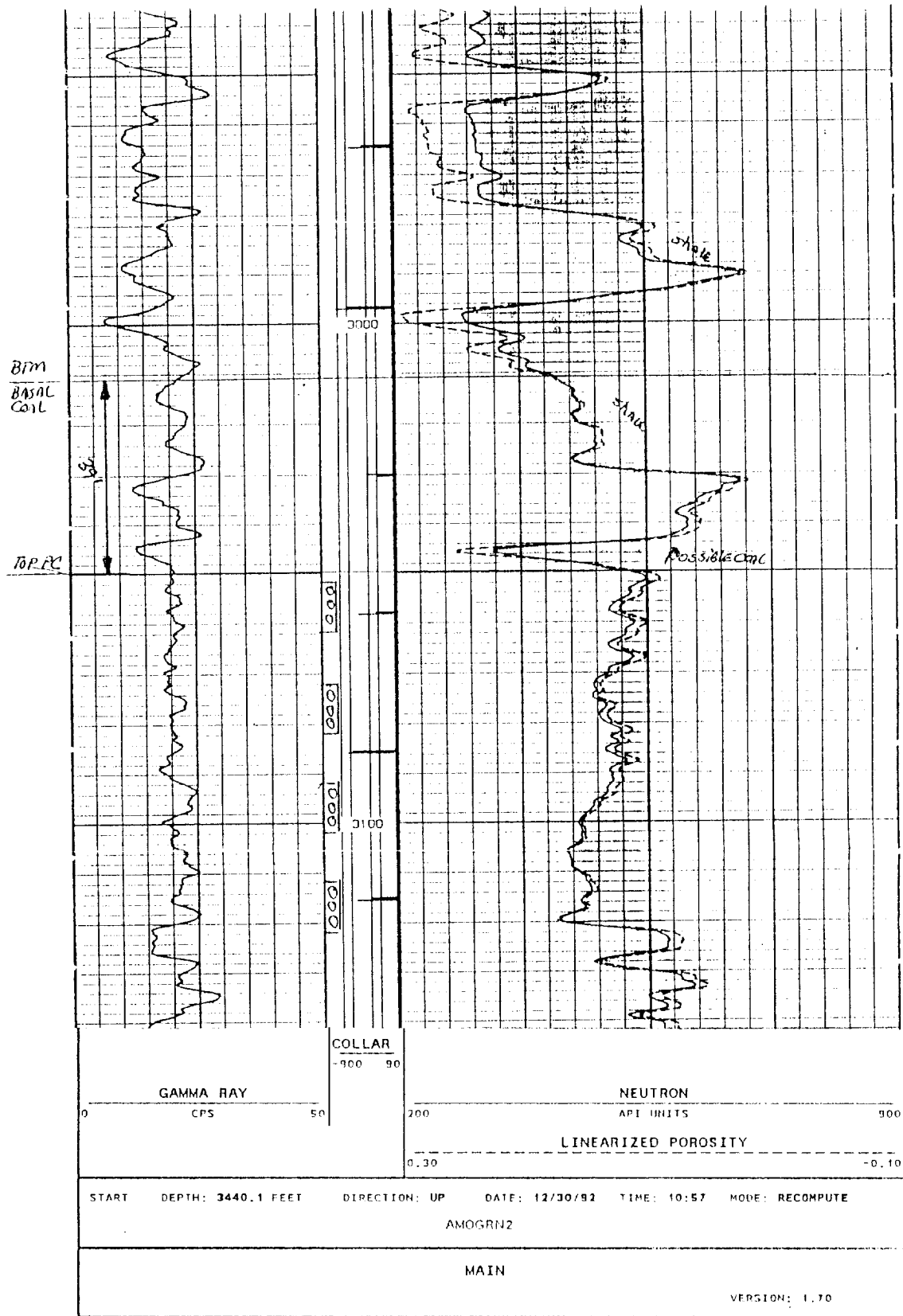
NEUTRON LOG

3-TRACK PRESENTATION

FINAL PRINT

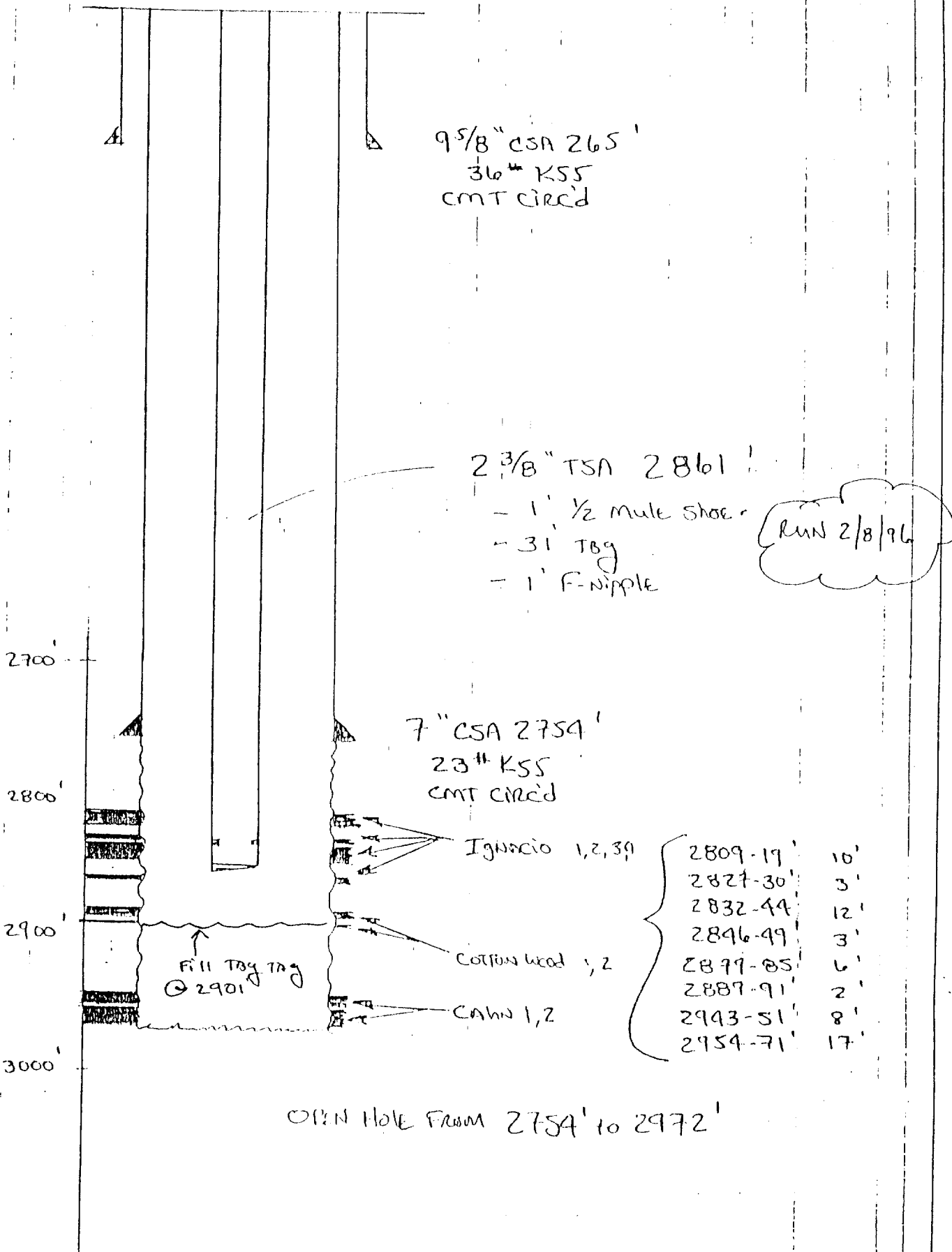
COMPANY AMOCO	
WELL RIDDLE "B" NO.001	
FIELD PICTURED CLIFFS	
CNTY SAN JUAN STATE NM	
SEC. 22	TWP. 31N RGE. 09W
COMPANY AMOCO PRODUCTION COMPANY	
WELL RIDDLE "B" NO.001	
FIELD PICTURED CLIFFS	
COUNTY SAN JUAN	STATE N.M.
LOCATION:	OTHER SERVICES: CBL, VDL, CCL
PERM. DATUM GROUND LEVEL ELEV. 5260'	
LOG MEASURED FROM BKB 12' FT. ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM BIG KELLY BUSHING	
DATE 12/28/92	ELEV.: K.B. 5272'
	D.F. 5271'
	G.L. 5260'
RUN NO. ONE	
DEPTH DRILLER 7424'	
DEPTH LOGGER 3440'	
BTM LOG INTERVAL 3440'	
TOP LOG INTERVAL 1500'	
OPEN HOLE SIZE	
TYPE FLUID WATER	
DENS. VISC.	
MAX. REC. TEMS. °F	
EST. CEMENT TOP	
TIME WELL READY 3:00	
TIME LOGGER ON BTM 3:40	
EQUIP. NO. D-2 AT+GRN15	
LOCATION FRM. N.M.	
RECORDED BY M. SIMMONS	
WITNESSED BY MR. H. WELLS	
BOREHOLE RECORD	
RUN NO. BIT FROM TO SIZE MGT. TUBING RECORD FROM TO	
CASING RECORD	
SIZE 14 1/4" GRADE	TYPE JOINT
SURFACE STRING 9.625" 36# K-55	SURF. 296'
PROT. STRING 7" 23# K-55	SURF. 3480'
PROD. STRING 4 1/2" 11.6 K-55	SURF. 7702'
LINER	





HORTON GC #1
SECT 28A-T31N-R9W

QMK
6-5-95



Amoco Production Company

ENGINEERING CHART

Sheet No. _____ of _____
 Title _____
 Appn _____
 Date 1-15-97
 By GMLK

SUBJECT HORTON GC 1
OPEN Hole Configuration

