Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.
SF-078414

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Day 5E

2. Name of Operator
Amoco Production Company

Attention:
Erica Baker

9. API Well No.
300452547200

3. Address and Telephone No.
P.O. Box 800, Denver, Colorado 80201

(303) 830-4784

10. Field and Pool, or Exploratory Area
Basin Dakota (Prorated Gas)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
790 FNL 790 FEL Sec. 18 T 29N R 8W Unit A

11. County or Parish, State
San Juan New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Workover	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)*

This Dakota well is a low volume producer. It also produces a lot of water. The production history indicates a shallow decline in this well, indicating that the pay in the Dakota is restricted in some way. A workover to open up an additional 18' of perforated intervals and lower the tubing to help remove the water will improve production. Please see attached procedures for further details.

RECEIVED
APR 13 1994
OIL CON. DIV.
DIST. 3

070 FARMINGTON, NM
94 MAR 29 PM 1:02
RECEIVED
BLM

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

Signed Erica W. Baker Title Business Associate Date 03-23-1994

(This space for Federal or State office use)

Approved by _____ Title _____ Date APPROVED

Conditions of approval, if any:

APR 04 1994

DISTRICT MANAGER

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instructions on Reverse Side

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

SPECIFIC INSTRUCTIONS

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 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq.,25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE - The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2)

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used.

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal, or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION - Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Wasington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

*U.S. GPO. 1990-773-016/26019

PROCEDURE FOR REPERFORTING & LOWERING TUBING
DAY 5E - Run 45
BLANCO -- DAKOTA
SRBU - SAN JUAN OC
March 16, 1994

Purpose:

This Dakota well is a low volume producer. It also produces a lot of water. The production history indicates a shallow decline in this well, indicating that the pay in the Dakota is restricted in some way. A workover to open up an additional 18' of perforated intervals and lower the tubing to help remove the water will improve production.

Please call Stan Kolodzie at ext. 4769 in Denver if you have any questions.

Current Production:
25 MCFD

Anticipated Production
225 MCFD

Estimated Cost:
$ 26,000 (Gross)

Estimated Payout:
6.0 mos

REQUIRED PERMITS AND APPROVALS BEFORE WORKOVER CAN BEGIN
(Check off as permits are received)

BLM

<> Surface Disturbance - No Permit Required
No surface disturbance is anticipated.

<> Wellbore Changes - PERMIT REQUIRED
Reperforating will require a permit.

<> Produced Gas - No Permit Required
Produced gas will be handled as before the workover.

DEQ

<> Surface Discharge - No Permit Required
No surface discharge is anticipated

NOTES:

Well Flac No. = 97980001

Elev. Reference: 6412 GL

Amoco WI = 0.500

Total Royalty = 0.155

Depths are based on the Dresser Atlas Densilog Gamma Ray Log dated 1/24/83.
A copy of the relevant intervals is attached.

Perf & Lower Tbg
Day 5E - Run 45
March 16, 1994

Procedure:

1. Move in rig. Rig Up. Nipple up blowout preventer.

2. Control or kill well. Use only the minimum volume of kill fluid - with 2% KCl water.

3. Pull Dakota 2 1/16" tubing string.

4. Run 4 1/2" bit and scraper and clean out liner to PBTD at 7579'. Circulate out cuttings with Nitrogen.

5. Install lubricator.

6. Allow well to unload kill fluid, if possible. Perforating should be done with the minimum pressure possible in the casing to allow the new perfs to clean themselves out. Perforate the following intervals with 3 1/8" casing gun, 2 JSPF, 120 degree phasing.

   Dakota: 7504 - 7522
   Total of 38 shots

7. Rerun 2 1/16" tubing with mule shoe in next to last joint. Set tubing at approx. 7558' -- depth of lowest perforation.

8. Spot 500 gal methanol to bottom of tubing. Displace methanol into Dakota with Nitrogen. Allow Methanol to soak for 12 hours.

9. Remove BOP. Hook up well to production equipment.

10. Swab in well if necessary. Return to production. Well may make 200-300 barrels of water or condensate when production is restored.

AUTHORIZATIONS:

ENGINEER _____

PRODUCTION FOREMAN _____

WORKOVER FOREMAN _____

PERF & LOWER TUBING
DAY 5E - Run 45
March 16, 1994
MATERIALS LIST

Amoco

Service Unit with Rig Pump
Bit and Scraper for 4 1/2", 11.6#, K-55 casing
Swab unit (if necessary)
Additional tubing to lower string to lowest perf

Nitrogen Vendor Alternate

Perforating Vendor Alternate

38 Jet shots - 13 gram charges minimum, from 3 1/8" hollow-carrier casing gun, 120 degree phasing

Methanol Vendor Alternate

500 gallons

cc: B X Maez, K A Sauvageau} SJOC
S X Kolodzie, M P Curry, Well File } Denver

Amoco Production Company

WELL REPAIR AUTHORIZATION AND REPORT

ORIGINAL BLANK ☐ CORRECTION 6 DELETION 9

LEASE/UNIT NAME AND WELL NUMBER: Day SE

HORIZON NAME: Dakota

FLAC (WELL) NO: 9,79,800

FIELD: Blanco Dakota

COUNTY: San Juan

STATE: NM

HORIZON CODE: 01

CONTROL DATE MO DAY YR:

OPERATOR: Amoco

OPERATIONS CENTER/DIVISION: SJOC

ELEVATION: 6412

ELE. REFERENCE PT.: GL

LAST PRODUCING WELL ON LEASE: YES (NO)

T.D.: 7585

P.B.T.D.: 7579

LOCATION: 790' FNL & 790' FEL, Sec. 18 T29N R8W ✓

A. Amoco WORKING INTEREST: 15,0

OTHER WORKING INTERESTS: Conoco

B. Amoco NET INTEREST: 14,23

TOTAL REPAIR HORIZONS: ☑

STATUS AFTER REPAIR: PRODUCING ☑, INJECTION ☐

PRODUCTION INCREASE EXPECTED: YES ☑, NO ☐

TYPE JOB SELECT ONE MAJOR (1) AND MAXIMUM THREE MINOR (2

C.	CONVERT TO INJECTION ..		CONVERT TO PROD.		DEEPEN		
D.	WATER FRAC		OIL FRAC		ACID FRAC		
E.	ACIDIZE		REPAIR CASING		WHIPSTOCK		
F.	PLUG BACK		PERFORATE	1	CEMENT SQUEEZE		
G.	WASHING SAND		SAND CONTROL		OTHER	2	
H.	SET LINER OR SCREEN ...		PULL LINER OR SCREEN ...				

I. TREATING VOLUME - GAL: 520 . DIVISION REPAIR CODE: .

J. GROSS PRODUCTION

	BEFORE	ANTICIPATED	UNIT PRICE
K. OIL ..... BOPD	1	2	$/BBL 30,0
L. WATER ..... BWPD			
M. GAS ..... MCFD	25	225	$/MCF 1,65
N. OTHER .... —/DAY			$/UNIT

EXPECTED PAYOUT 6,0 MONTHS

P. GROSS INJECTION

WATER ☐ GAS ☐, LPG ☐, AIR ☐, STEAM ☐, OTHER ☐,

	BEFORE	ANTICIPATED
R. RATE ..... BPD OR MCFD		
S. PRESSURE ..... PSIG		

ESTIMATED COST

INTANGIBLES

RIG COST	$ 8000
EQUIPMENT RENTAL	1000
CIRCULATING MEDIA	3000
CEMENT AND SERVICE	
PACKERS AND EQUIPMENT	1500
PERFORATE, LOG, WIRELINE	7000
STIMULATION	2000
LABOR	1000
SPECIAL EQUIPMENT	
FISHING	
OTHER INTANGIBLES	2500
TOTAL INTANGIBLES	$ 26,000

TANGIBLES

CSG., TBG., HEAD, ETC.	$
TOTAL GROSS COST	$ 26,000
Amoco WORKING INTEREST COST	$ 13,000

REASON FOR WORK

This well will have an 18' section of unperfed pay perforated and will be treated with methanol/N_2 to remove any potential water block

Notice To Nonoperator: Costs shown on this form are estimates only. Nonoperators should not consider these estimates as establishing any limit on monies which will be required to perform the proposed operation.

Nonoperator _____

By _____ Date _____

	RECOMMENDED	DATE

T. REPAIR RESULT: SUCCESS ☐ FAILURE ☐

DATE REPAIR COMPLETED: MO. ___ DAY ___ YR. ___

GROSS PRODUCTION DURING PAYOUT

U. OIL ..... BOPD . GAS ..... MCFD .

W. WATER ..... BWPD . OTHER ..... —/DAY .

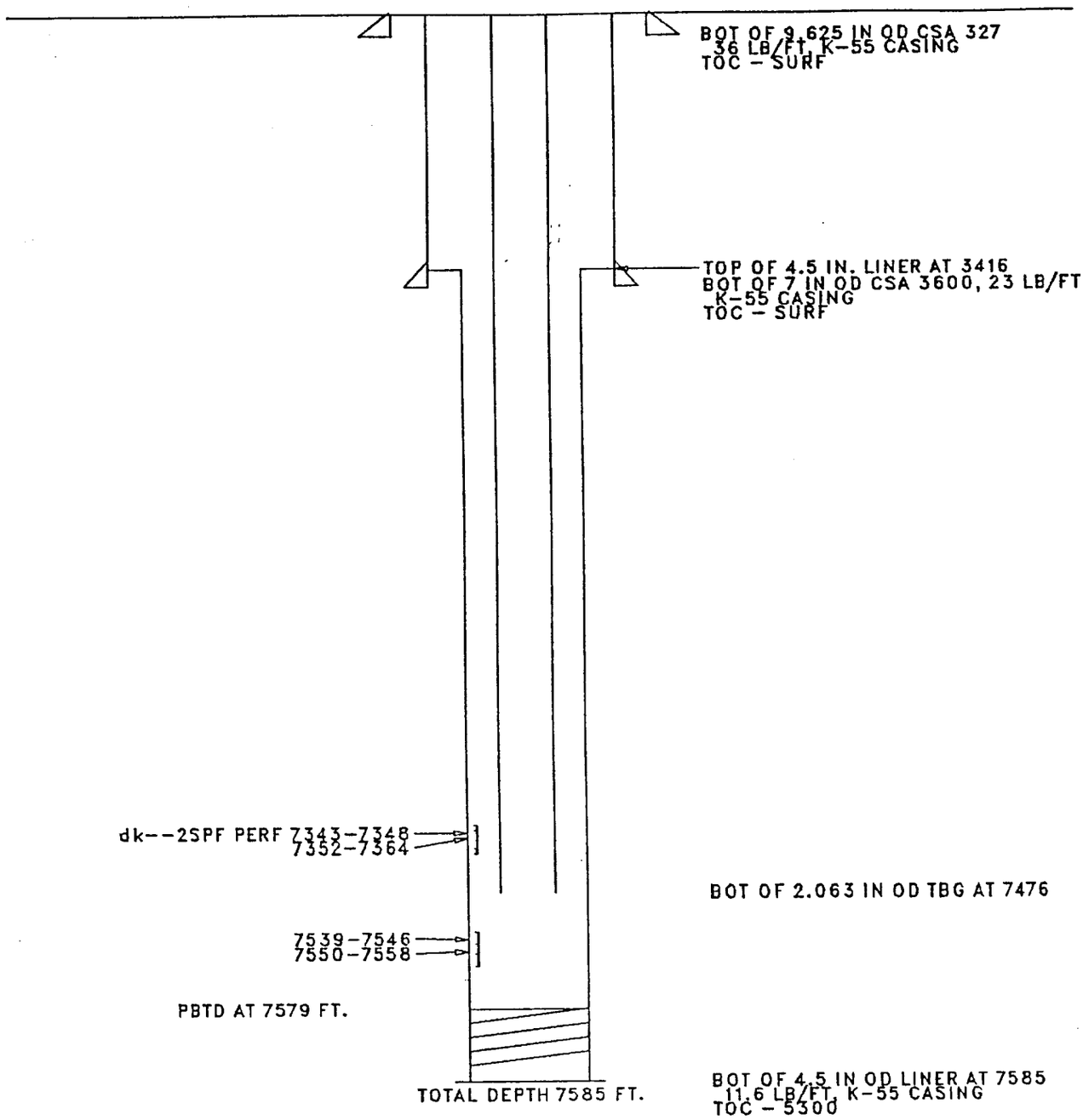
GROSS INJECTION

Y. RATE ..... BPD OR MCFD . PRESSURE ..... PSIG .

Z. ESTIMATED FINAL GROSS COST ..... $.

AUTHORIZED Steve Klopf MO. 03 DAY 16 YR. 94

DAY 005E 600
Location – 18A– 29N– 8W
SINGLE dk
Orig.Completion – 2/83
Last File Update – 1/89 by BCB



Cathodic Protection – N
none noted

FORM 925199 Rev. (11-80)

W0660085

Dresser Atlas

Compensated

Densilog® Gamma Ray

FILE NO. FM-6653	COMPANY TENNECO OIL COMPANY
API NO.	WELL DAY NO. 5E
Marked	FIELD BASIN DAKOTA
	COUNTY SAN JUAN STATE NEW MEXICO
	LOCATION: 790' FNL, 790' FEL SEC 18 TWP 29N RGE 8W
	Other Services: DIFL/GR PROLOG

Permanent Datum G.L. Elev. 6412 — Elev. KB 6425
Log Measured from K.B. 13 Ft. Above Permanent Datum — DF 6424
Drilling Measured from K.B. — GL 6412

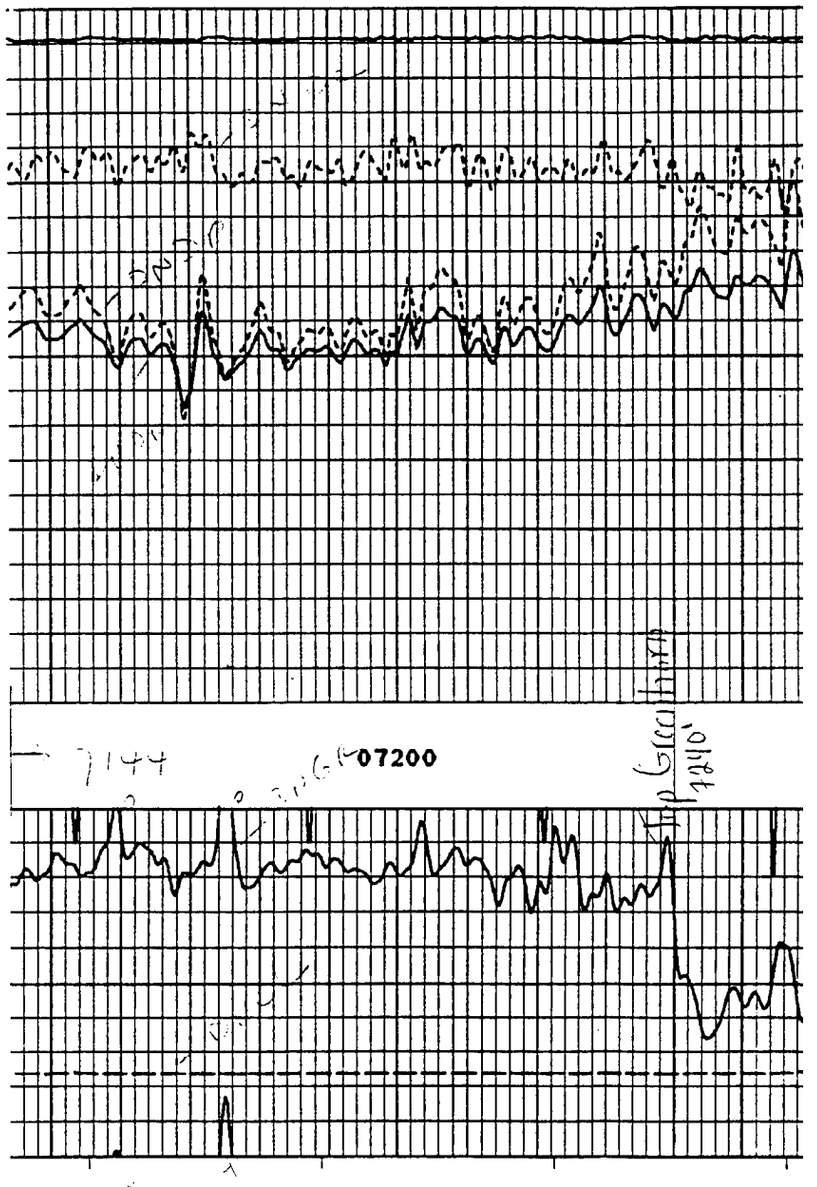
Date	1-24-83			
Run No.	ONE			
Service Order	88816			
Depth—Driller	7585			
Depth—Logger	7595			
Bottom Logged Interval	7593			
Top Logged Interval	3700			
Casing—Driller	7" @3600	@	@	@
Casing—Logger	NOT LOGGED			
Bit Size	6 1/4"			
Type Fluid in Hole	GAS			
Density and Viscosity	- -			
pH and Fluid Loss	- - cc	cc	cc	cc
Source of Sample	-			
Rm @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	- -			
Rm @ BHT	- @ - °F	@ °F	@ °F	@ °F
Time Since Circ.	6 HRS			
Max. Rec. Temp. Deg. F.	160 °F	°F	°F	°F
Equip. No. and Location	6361 FARM			
Recorded By	FISH			
Witnessed By	MR. [illegible]			

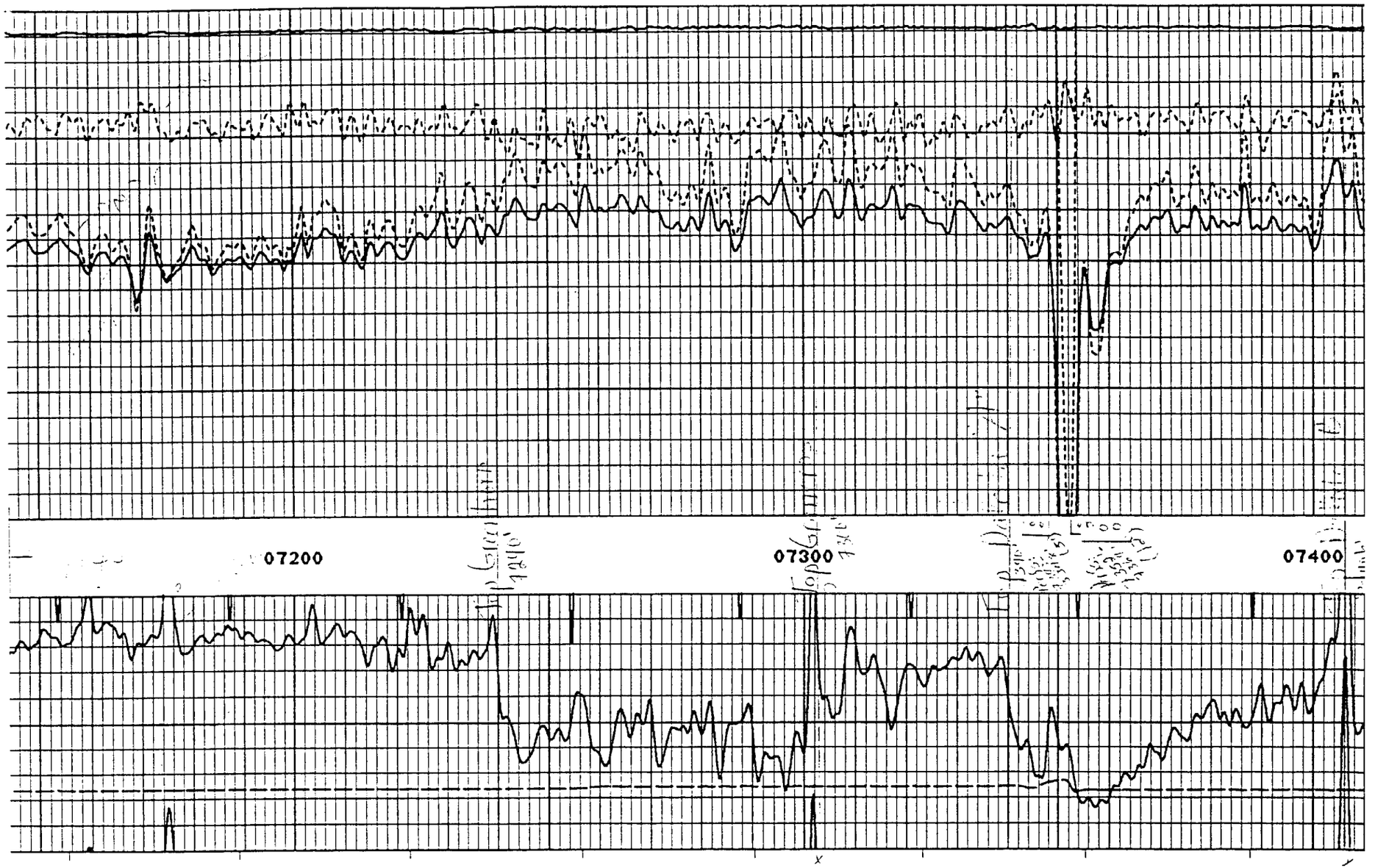
DIG BY
QC DATA
NO 514496
Basic Elen

SKIPPED INTERVAL

SKIPPED INTERVAL

SKIPPED INTERVAL




07200
07300
07400

07400
07500
Neutron Porosity
Tension Curve
Density Porosity
Correction
Caliper
BOREHOLE VOLUME
Gamma Ray
F.R.
T.D.
POR.D(%)
30
-10

DAY 005E 600
Location – 18A– 29N– 8W
SINGLE dk
Orig.Completion – 2/83
Last File Update – 1/89 by BCB