

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. BLM  
Use "APPLICATION FOR PERMIT - " for such proposals

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

5. Lease Designation and Serial No. SF-078385

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No. Florance K 3

9. API Well No. 3004527013

10. Field and Pool, or Exploratory Area Basin Fruitland Coal

11. County or Parish, State SAN JUAN NEW MEXICO

98 MAR 23 PM 2:15

070 FARMINGTON, NM

1. Type of Well  
 Oil Well  
 Gas Well  
 Other

2. Name of Operator AMOCO PRODUCTION COMPANY  
 Attention: Pat Archuleta

3. Address and Telephone No.  
 P.O. BOX 800 DENVER, COLORADO 80201 303-830-5217

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1788' FSL 790' FWL Sec. 25 T 30N R 8W UNIT L

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Repair</u> <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> 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.)\*

Amoco Production Company requests permission to repair this well per the attached procedures.

If you have any technical questions contact Mike Kutas at (303) 830-5159.

RECEIVED  
MAR 27 1998  
OIL CON. DIV.  
DIST. 3

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

Signed Pat Archuleta Title Staff Assistant Date 03-20-1998

(This space for Federal or State office use)

Approved by WAYNE TOWNSEND Title Pat. Eng. Date 3-25-98

Conditions of approval, if any:

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

NMOGD

**Florance K 3**

Version: #1  
 Date: March 18, 1998  
 Budget: Well Repair  
 Work Type: Change wellhead, C/O, underream,  
 stabilize hole, run and perf liner

**Objectives:**

1. Change wellhead, clean out fill, underream, and stabilize hole
2. Run and perf liner
3. Return well to production

**Pertinent Information:**

Location:	1788'FSLx790'FWL; Sect 25L-T30N-R08W	Horizon:	FT
County:	San Juan	API #:	30-045-27013
State:	New Mexico	Engr:	Kutas
Lease:	BLM: SF-07385	Phone:	H--(303)840-3700
Well Flac:	703048-01		W-(303)830-5159
			P--(303)553-6334

**Economic Information:**

APC WI:	50%	Prod. Before Repair:	2050 MCFD
Estimated Cost:	\$120,000	Anticipated Prod.:	3000 MCFD
Payout:	5 Months		
Max Cost -12 Mo. P.O.	\$335M		
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:  
 Ojo Alamo:  
 Kirtland Shale:  
 Fruitland: 2830-3050'

**Bradenhead Test Information:**

Test Date: 5/96      Tubing: 137      Casing: 212      BH: 0 psi

Time	BH	CSG	INT	CSG
------	----	-----	-----	-----

5 min				
10 min				
15 min				

Comments: No flow

Current wellbore info: 7" CSA 2817', OH at 2817-3050', 2 3/8" TSA 2897', Fill at 2925' (2/96 W.L. tag)  
Current flow info: 2050 MCFD, 14-15 BWP, FTP=n/a psi, FCP=33 psi, LP=137 psi; Producing tubing and casing on compression.

General observations: 1. Well has never produced at cavitation rates (3625 MCFD); best sust'd prod=1900 mcf/d  
2. Best coals in well (@2938-50 and 2972-88') are covered with fill  
3. Tubing head has 2" casing valves (w/approx. 1.5" IDs)

Short term plans: 1. Change wellhead, clean out, underream, 24 hr cavitation, line and perf well

Long term plans: 1. Place on artificial lift (if needed)

1. Set plug in HES X nipple (1.875") sa 2864'. MIRURT; equipped with air package/mist pump
2. ND tree, rig up BOP's; complete with venturies on blooie lines w/man. valves. Test BOE. TOH w/2 3/8" tubing-- consider laying tbg down (as it is not FBN) if visual inspection for corrosion warrants it.
3. Set wireline CIBP in 7" at 2700'. Load csg w/water and pressure test t/500 psi for 30 mins. ND BOPE. Change out wellhead (use tubing head equipped with 3 1/8" casing outlets and for hanging 2 7/8" tubing); NU and test BOE.
4. Pick up drill collars, and 6.250" bit, unload water and drill out CIBP, clean out fill from 2,925' to total depth (3050') using air and foam. Record bridges, tight hole, and fill amounts in O.H. section. Underream hole at 2818-3025' from 9.5" to 11" (Note: 6 1/4" hole from 3025-50'). Cavitate well for 12-24 hours to clean up open hole section. C/O and 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) with no rotation or circulation if possible. TOH w/drill string and lay down drill collars.
5. Run a blank 5.50" flush joint liner (Hydril 511) from TD back to approx. 2,750' or with as little overlap as possible. Install a tricone bit on bottom with a float immediately above bit and a Baker Model SLP-R Liner Hanger Packer. Strip in hole and drill to bottom with power swivel if necessary. Hang liner, lay down drill pipe and setting tool.
6. RU HES, run GR-CCL to identify correct coal seam depths; TIH and perforate liner as follows:

COAL ZONES		PERFORATIONS		
Ignacio	2,858 to 2,866'	2,858 to 2,866'	4 jspf	32 holes
	2,900 to 2,920'	2,900 to 2,920'	4 jspf	80 holes
Cottonwood	2,938 to 2,950'	2,938 to 2,950'	4 jspf	48 holes
Cahn	2,972 to 2,988'	2,972 to 2,988'	4 jspf	64 holes
		<b>Total</b>		<b>224 holes</b>

5. TOH and lay down drill pipe and bit; RIH w/2 3/8" TBG as follows:
  - 1) mule shoe
  - 2) 1 jt 2 3/8" tbg
  - 3) STD SN (1.780" ID) with retrievable plug in place
  - 4) remainder 2 3/8" TBG (All TBG: 4.6# J55 FBN)

Land bottom of TBG at approximately 2965-70'--space out with subs or cut mule shoe joint to get tbg landed at this depth.

6. RDMORT. Pull tbg plug. Sample and ensure well contains less than 0.5% air. **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 days and to cost approximately \$120,000 (see attached AFE form).

***If problems are encountered, please contact:***

*Mike Kutas*

**(W) (303)830-5159**

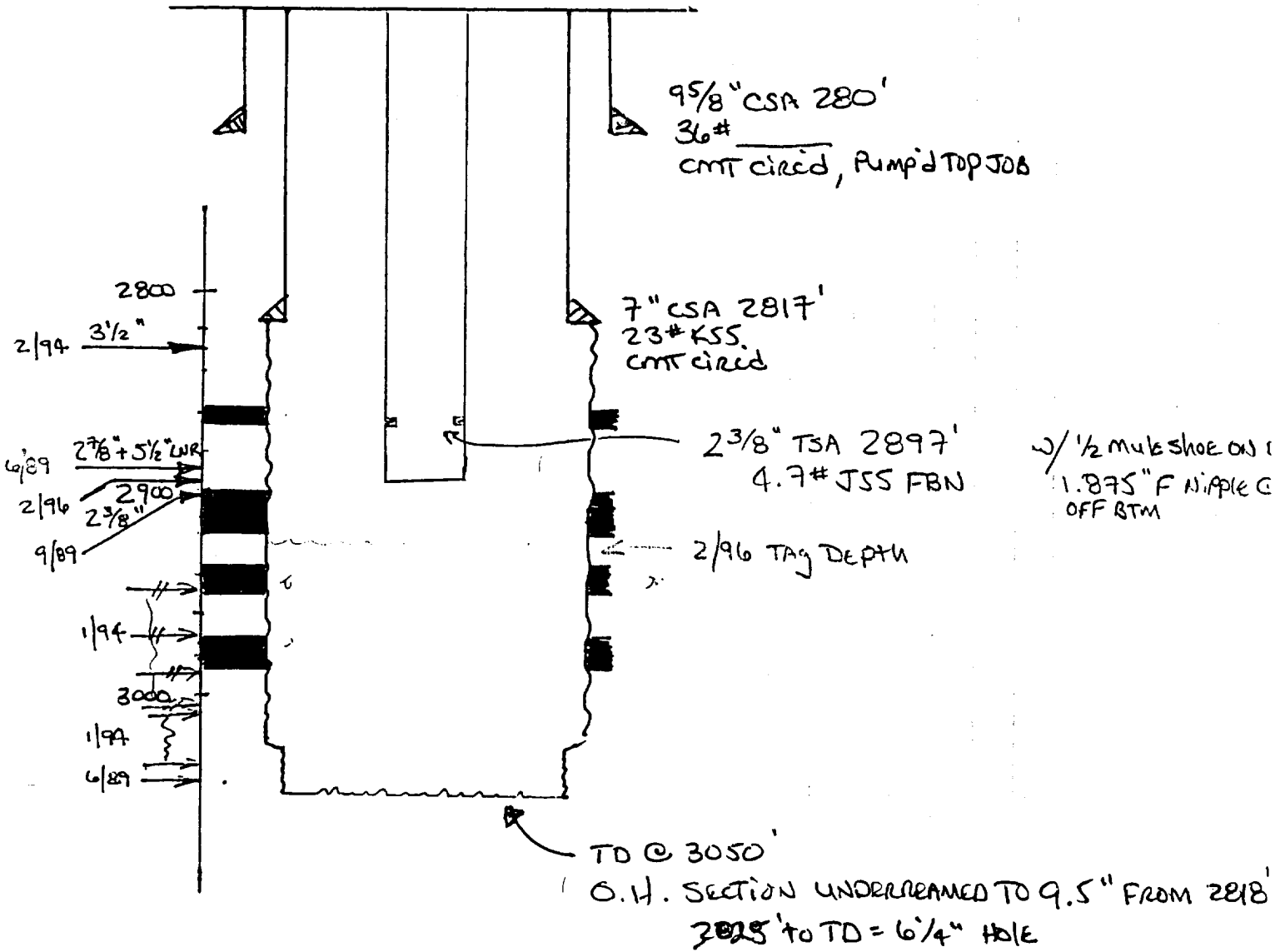
**(H) (303)840-3700**

**(P) (303)553-6334**

SUBJECT FLORENCE K 3

Date 8-13-97

By GMK



SUBJECT FLORANCE K 3

File \_\_\_\_\_  
 Appn \_\_\_\_\_  
 Date 8-6-97  
 By GMLK

SPUD: 5/21/89      9 5/8" CSA 280', 36 # \_\_\_\_\_, CMT circ'd, Pumpid 1  
 RREL: 5/24/89      7" CSA 2817', 23# K55, CMT circ'd

- 6/10/89 - MI RU SU, R4 BOE, PU BIT, DC's, DP TAG CMT @ 2720'
- DRILL OUT TO TD @ 3050'; IGNACIO A <sup>Depth</sup> 2858-66' <sup>Shall</sup> 5320' u
- R;R; Flow TEST: 3/4" ch " B 2900-20' 4930 u
- 41 psi, 53 BWPD, 586 MCFD COTTONWOOD 2938-50' 10,140 u
- circ; Flow TESTS, RATES ↓ CAHN A 2972-88' 5,550 u
- SI 5 3/4 hrs, P = 1070 psi, TAG: 1/0 5' Fill, circ, Flow 1/4" NOT FOUND
- 27 psi, 392 MCFD - CASING APPEARS TO BE FILLING WITH WATER
- TAG: 1/0 2' Fill, Flow TEST 3/4", 46 psi - i, f. 64 psi w/48
- 609 MCFD
- CIRC - ON/OFF good COAL RTNS, Flow TEST: 3/4", 30-62 psi, 0-98
- 435-593 MCFD
- Begin surging well, circ hole, Flow TEST: 3/4", 4 hrs, 90 psi.
- 1305 MCFD w/ HVY MIST
- TAG: 1/0 5' Fill, SURGE well - HVY COAL & MIST RTRN, TAG 0' Fill
- Flow TEST: 3/4", 4 hrs, 85 psi, 1233 MCFD - 1450 MCFD, 50-51'
- SURGE well, 800 psi, TAG: 1/0 2' Fill, PUT THRU SEP FOR 9
- 751 MCFD, 55 BW, 3/4" ch, 385\* FCP
- @ 31 3/4 hrs, 678 MCFD, 3 BWPH, CPE = 375#
- TAG: 1/0 4' Fill; STEP = 1300 psi
- SNUB OUT DP, PREP TO SNUB 5 1/2" LINER (23 PPF P110)
- LAND LINER w/ SHOE @ 3037', i. TOP @ 2733', TOH & FOU
- LOWER 1/2 OF SETTING TOOL LEFT ON TOP OF HANGER
- WASH OVER & MILL TO DRESS OFF TOP OF FISH; TOH, RUN OVERSK
- AND RECORD FISH
- PU TBG x Mill, Mill AL Plugs STARTING @ 2822' - well BEGAN FI
- immediately Lg Vol's of WATER & GAS (50' FLORE), Mill Plugs
- TO 3033', Flow well, RETAG @ 3033', TEST: 3/4" ch
- 112 psi FCP, 1072 MCFD; 52 BWPD
- LO Mill, RUN 2 7/8" TBG w/ 1/2 mule shoe, 1 JT, BAKER F.
- TBG SA 2890'
- RREL: 6/22/89 PLUGS IN CSG @ 2822-3035'

9/17/89 - MIMUSU, SET TBG PLUG, PULL 2 7/8" TBG, RUN 2 3/8" TBG  
 TAG Fill @ 3083'. 2 3/8" TBG: EXP CHECK, 1 JT, 1.81" SN  
 RETR ~~EXP~~ Plug in SN, Pump out EXP Plug TSA 2905'

11/11/94 - MIMUSU, SET PLUG IN TBG, PULL 2 3/8" TBG  
 - PU. BIT, c/o 40' Fill, TDH, LD 2 3/8" TBG, P.U. Mill i' D.P.  
 - Mill TOP OF LINER FROM 2931-37', LD Mill, PU Fishing Tools  
 RETR LINE  
 - SET BP @ 2700', TEST BDF, D.O. BP, C.O. Hole - HAD BRIDGE  
 @ 2918', REC lg AMTS COAL, R, R, CIRC  
 - R, R, c/o 10' Fill, UNDERNEAM FROM 2818-2950'  
 - FINISH UR TO 3025', Flow TEST: 3/4" ch, 4 hrs, 50-105  
 725-1522 MCFD, 2 hrs - COAL i' WTR TO SURF, SIP = 580  
 5 hrs; CST x 9, 500 psi, REC HVY COAL i' WTR RETURNS  
 - CST x 1, PLUGGED BIT, TRAP, Flow TEST: 3/4", 2 HR, 35-105  
 CST x 6, 520 psi, LITTLE GAL + WTR  
 - TAG BRIDGES @ 2948' i' 70', c/o TO TD, Flow TEST: 3/4", 2  
 35-140 psi, 2030 MCFD; CST x 8, 510-20 psi, Good GAS w  
 LITE COAL + WTR

CST #	Q (mm)	Notes
0	0.943	- CST x 4, 520 psi, Lt COAL + WTR RETURNS; TAG 45ft c/o 1' 1'
1	1.6	Flow TEST: 2 hrs, 40-172 psi, 2494 MCFD; CST x 7, 520 psi
2	1.9	Lt COAL + WTR RETURNS
3	2	- CST x 8, 520 psi; Flow TEST: 60-165#, High 240# @ 3480 MCFD
4	2.49	Tag @ 2990', c/o TO TD; Flow TEST: 1 HR, 180#
5	2.6	- TAG @ 2985', c/o, R, R, Flow TEST, 2 HR, 40-200 psi
6	2.6	CST # 8, 450-470 psi, FINE COAL i' GAS RETURNS
7	2.9	- CST x 10, 490 psi, Lt COAL + WTR, TIEH x HIT BRIDGE @ 2990
		R, R, CIRC, Flow TEST: 3/4", 1 HR, 50-220 psi, 3190 MCFD, i'
		- CST x 10, 450-490 psi, TAG; c/o BRIDGE @ 2995', Flow TEST
		3/4", 40-230 psi, 3335 MCFD, 3 hrs - DRY; CST # 10 x 6, 4
		- CST CONT'd x 6, 490 psi, c/o BRIDGE @ 3010', Flow TEST: 2
		2 HR, 230 psi, 3335 MCFD - DRY; CST # 11 x 8, 450 psi, Lt c
		- CST CONT'd x 4, 450 psi, Lt COAL RETURNS, c/o BRIDGE @ 30
		Flow TEST: 3/4", 4 hrs, 50- <del>350</del> 242 psi, 3509 MCFD

SUBJECT \_\_\_\_\_

Date \_\_\_\_\_

By \_\_\_\_\_

LT COAL

- CST # 12 x 9, 470-88 psi, TAG: 40 30' Fill, R: R, CIRC, FLOW TEST  
3/4", 3 hrs, 50 - 245 psi, 3552 MCFD
- CST # 13 x 15, 440-85 psi, LT COAL + WTR; TAG: 40 Fill @ 3020'  
FLOW TEST: 3/4", 3 hrs, 60 - 248 psi, 3596 MCFD
- CST # 14 x 12, 430-440 psi, LT MIST RTNS, TAG: 40 3' Fill  
FLOW TEST: 3/4", 3 hrs, 65 - 250 psi, 3625 MCFD - DRY
- LD DP, P.U. i, RUN 3 1/2" TBG (9.3# JSS FBN) LAND @ 2830'  
NO DETAILS: Coupling on BTM, 1 ft, 3.5" FNipple
- REEL 2/2/94

2/16/96 - ME MUSH; TOH x LD 3 1/2" TBG; PU: RUN 2 3/8" TBG  
NO FILL TO 2925', LAND TBG @ 2897' w/ 1/2 mule shoe ON BTM, 1'  
TBG, 1.875" PROF Nipple @ 2864'  
LEGE OR FILL w/ SINKER BARS \*

1788 FSL  
 K6 6208  
 1790 FSL sec 25 300 80  
 K6 6208

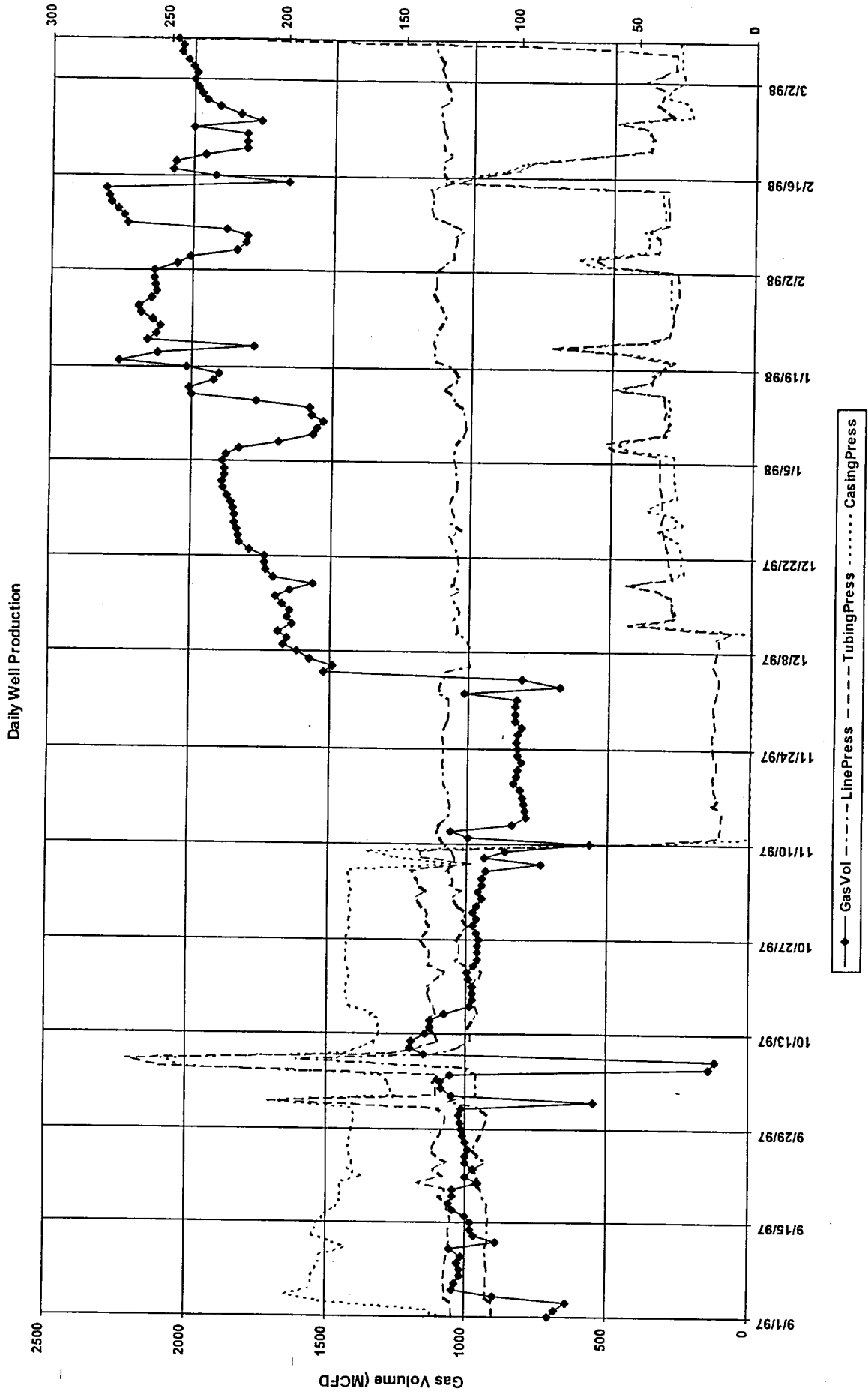
DATE TIME LOG SECTION	PENETRATION RATE MIN/FT	LITHOLOGY		FORMATION DESCRIPTION	CORRELATION							
		INT	DEPTH		TOTAL	UNITS PER DIVISION						
					250	500	750	1000	1500	2000	4000	6000
7/2/89 HT-1 1/4" TC-J3	DRILLING W/ FRESH WATER WOB 8000 RPM 65 PP 250-300 SPM 108		K6 6208 CSG-2817 2820	GRIT SI-lt-arg, silty, occ br- dkn/tr carb lm, sil calc ip, fm								
			40	SI-dkn, incr each/cont COAL-blk, arg, rthy-occ cln, vit, p elt								
			60 COAL 2858-66 #33	SS-lt-arg, silty, qtz, vfg- siltst ip, wst, p-fr calc ip, fri COAL-blk, rthy, acc, p elt								
			80	COAL-rthy A, also blk bel, vit, cln/fr elt SI-coal/coal A								
			2000	SS-vl-cl-lt-arg, qtz, vfg- wst, wst, wst/calc calc, tr-kl								
			COAL 2900-07 #36	SLIST-arg-occ lt-arg, arg, occ dk carb tks								
			COAL 2907-20 #40	SS-vl-lt-arg, cln, vfg- siltst, wst, wst, calc SLIST-similar to SS								
			20	TW-blk, rthy, arg/occ cln vit lm, p elt/ alnt pyr lm								
			40	SI-py/tr dk carb str vely/poss 18RT ip, sft COAL-rthy-occ cln A								
			COAL 2938-48 #45	SLIST-lt-arg, incr silt occ walc, fm, occ dk SLIST-lt-arg, cln-arg/ calc ip								
	WOB 8000 RPM 75 PP 400 SPM 108		60	COAL-blk, vit, cln/arg strk, occ fos pnts, p-occ fr elt, occ calc frac								
			COAL 2972-88 #46	SS-tr-dkn mot, silty-nd vfg, wst, tt, alnt omg flur, no, cut SLIST-lt-arg, SSP, silty								
			80	COAL-arg, vit, cln fr arg, calc SS-arg, incr silt, occ calc, incr calc SLIST-mer py, calc COAL-blk, vit, calc fr arg, calc								
			3000	COAL-arg, rthy, calc fr arg, calc SS-arg, rthy, calc fr arg, calc SLIST-mer py, calc COAL-blk, vit, calc fr arg, calc								
			20	SS-cl-lt-arg, qtz, vfg- st arg, silty-vfg- wst, wst, calc, fr calc								
13/89			40	SLIST-lt-arg, dec arg SS-mer 30, al incr fr arg, calc to 3000								
			40	SS-cl-lt-arg, calc fr arg, calc SLIST-lt-arg, dec arg carb pnts, calc ip SS-arg A								
			3050-TD									

3 am 6/13/89



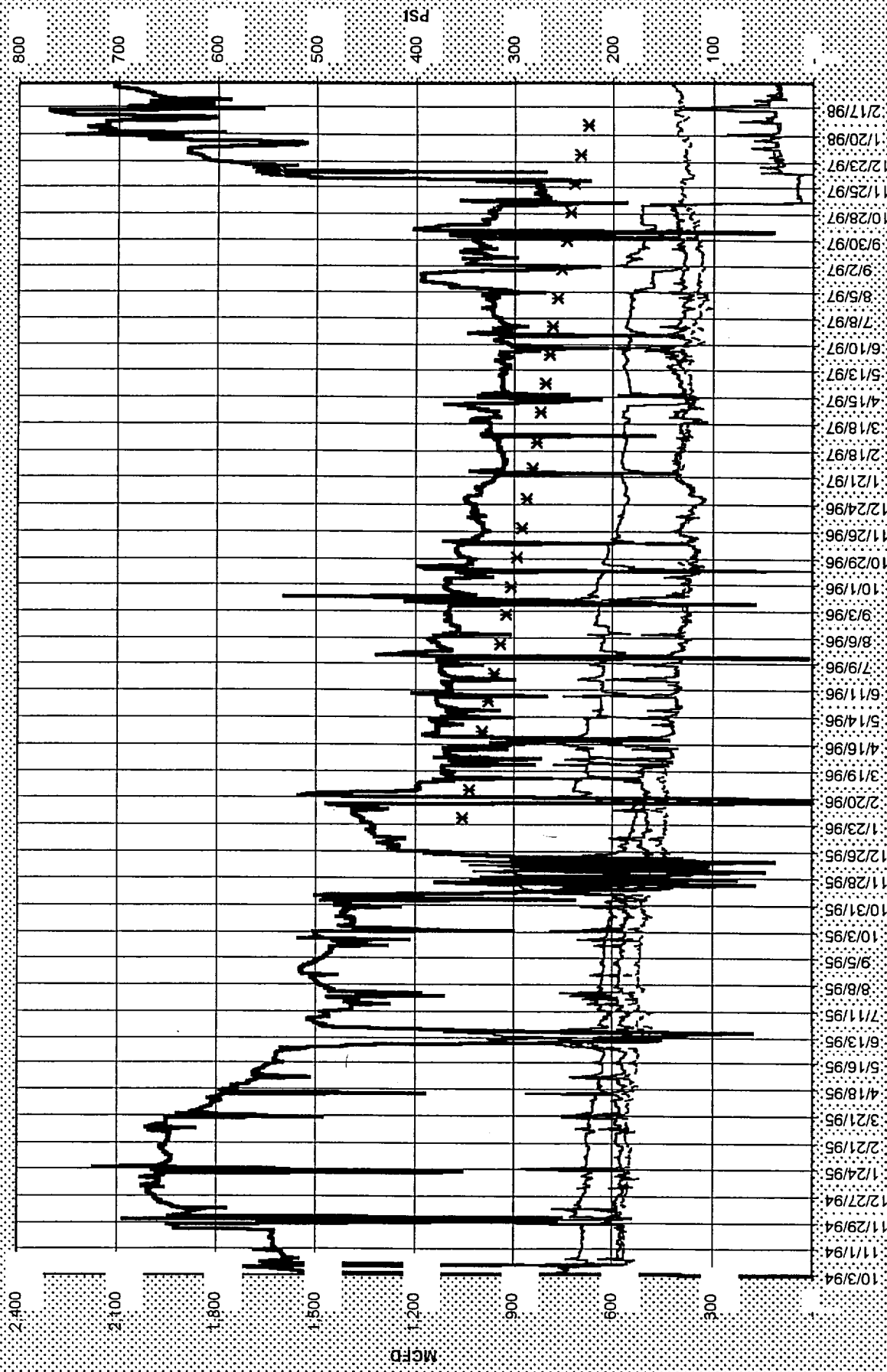
NEAR TERM

Wellname: **FLORANCE K 003-FT**      Flacwell: **70304801**      API: **300452701300**      Amoco - OIDB/Synergy Data



3<sup>rd</sup> YEAR LOOK

Florance X-3



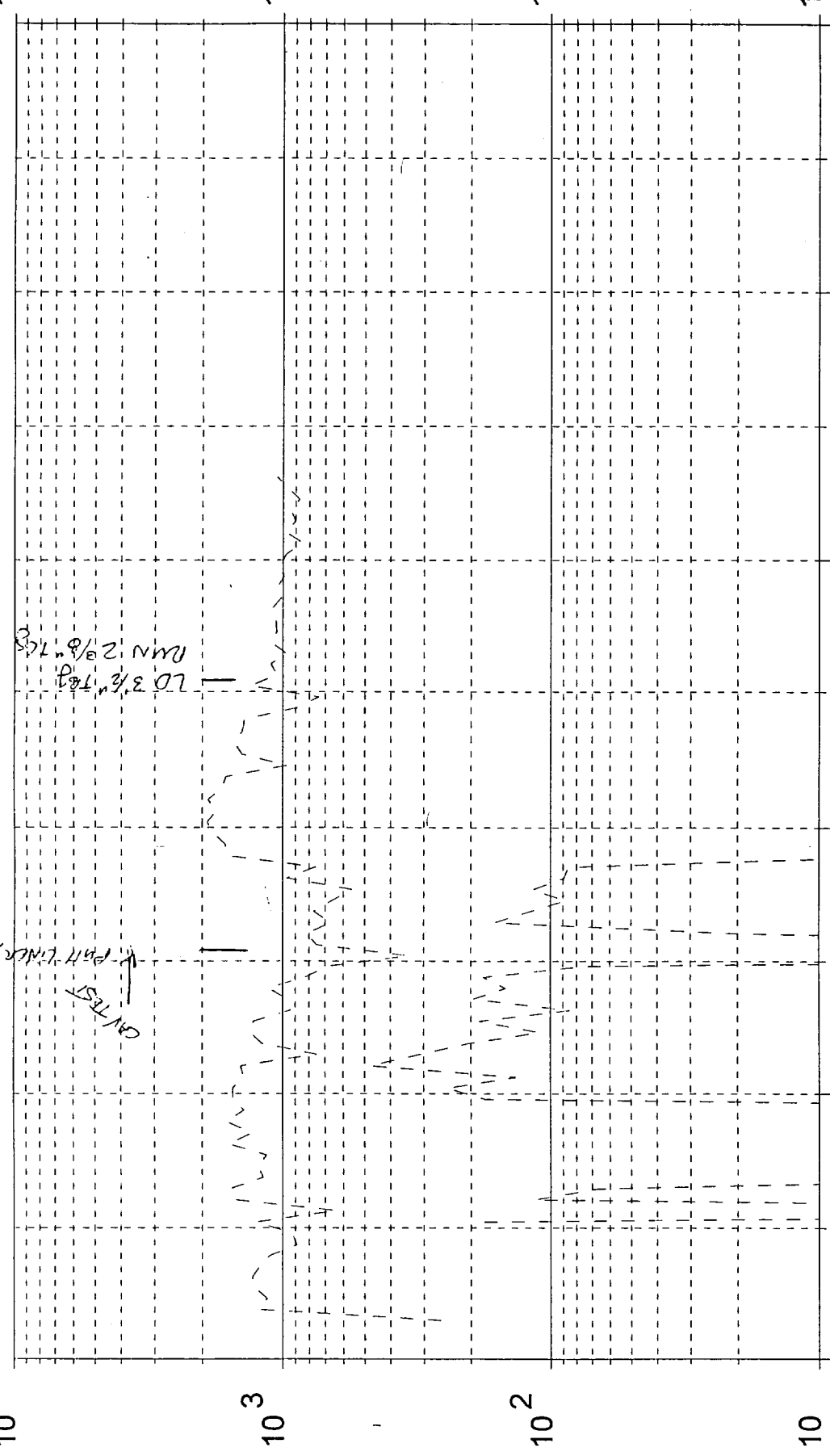
— MCFD    - - - Avg LP    . . . Avg TP    - \* - Avg CP    \* Pbar

Historic

Dwights  
Retrieval Code: 251,045,30N08W25L00FT  
03/03/98

Lease: FLORANCE K (3)

10<sup>4</sup> 10<sup>3</sup> 10<sup>2</sup> 10



1991 1993 1995 1997 1999 2001

Gas (mcf/day) — County: SAN JUAN, NM F.P. Date: 04/91  
 Water (bbl/day) — Field: BASIN (FRUITLAND COA Oil Cum: 0 bbl  
 Reservoir: FRUITLAND COAL Gas Cum: 2658 mmcf  
 Operator: AMOCO PRODUCTIO Location: 25L 30N 8W