

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.  
NM - 012711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
FLORANCE G # 3

9. API Well No.  
3004527551

10. Field and Pool, or Exploratory Area  
BASIN FRUITLAND COAL GAS

11. County or Parish, State  
San Juan New Mexico

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
AMOCO PRODUCTION COMPANY  
Attention: Nancy I. Whitaker

3. Address and Telephone No.  
P.O. BOX 800 DENVER, COLORADO 80201 303-830-5039

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
910 FEL 2250 FNL Sec. 3 T 30N R 8W UNIT H

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"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other DEEPEN RAT HOLE - C/O
	<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 DEEPEN THE RAT HOLE, AND UNDERREAM OPEN HOLE SECTION ACCORDING TO THE ATTACHED PROCEDURES.

FOR TECHNICAL INFORMATION CONTACT MIKE KUTAS AT 303-830-5139.

*Maximum Total Depth -- 3156'*

RECEIVED  
MAR 13 1997

OIL CON. DIV.  
DIST. 3

Vertical stamp: RECEIVED MAR 10 1997

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

Signed Nancy I. Whitaker Title Staff Assistant Date 03-05-1997

(This space for Federal or State office use)

Approved by [Signature] Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

MAR 14 1997

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.

# SJOET Well Work Procedure

## Florance G 3

Version: #1  
Date: March 4, 1997  
Budget: Well Repair  
Work Type: Deepen/ c/o /run-perf liner

---

### Objectives:

1. C/O wellhead, C/O fill, deepen for rat hole, underream open hole section
  2. Run and perf liner, Replace 4 1/2" TBG w/2 7/8" TBG
  3. Place well back on production
- 

### Pertinent Information:

Location:	2250' FNL x 910' FEL; Sect 3H-T30N-R08W	Horizon:	FT
County:	San Juan	API #:	30-045-27551
State:	New Mexico	Engr:	Kutas
Lease:	BLM; NM-012711	Phone:	H--(303)840-3700
Well Flac:	70304201		W-(303)830-5159
			P--(303)553-6334

---

### Economic Information:

APC WI:	50%	Prod. Before Repair:	5900MCFD
Estimated Cost:	\$120,000	Anticipated Prod.:	7400MCFD
Payout:	3 Month		
Max Cost -12 Mo. P.O.	> \$600M		
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:	2867-3143'	Gallup:	
Pictured Cliffs:	3168' (est'd-Florance G 36 PC)	Graneros:	
Cliff House:		Dakota:	
		Morrison:	

---

### Bradenhead Test Information:

Test Date: 5/96    Tubing: 127    Casing: 183    BH: 0 psi

Time	BH	CSG	INT	CSG
5 min				
10 min				
15 min				

---

Comments:

**Florance G 3:**

Current wellbore info: 7 5/8" CSA 2933', OH at 2930-3143', 4 1/2" TSA 2905', Fill at 2970'KB  
 Current flow info: 5900 MCFD, FTP=n/a psi, FCP=n/a psi, LP=90 psi; Producing tubing and casing; Well has original TBG head and is currently through both 2 1/8" CSG valves (1.5" ID).

General observations: 1. Well produces 100+ BWPD and has experiences loading problems  
 2. Well was cavitated in 1/90 and recavitated in 6/93, but not underreamed.  
 3. Ledge and sloughing problems were encountered both times at approx. 2960-3000'  
 4. Conoco offset experienced similar hole instability problems

Short term plans: 1. Replace WH, C/O, deepen and underream well, run liner; replace tubing

Long term plans: 1. Place on artificial lift (if needed); Rathole will be added for gas separation

1. MIRURT
2. ND tree, rig up BOP's w/cavitation capability, complete with venturies on blooie lines. Test BOE. Set plug in F-nipple in 4 1/2" TBG (2.75" F-nipple sa 1 jt off btm, at approx. 2865'). TOH and lay down 4 1/2" tubing
3. Set wireline EZSV in 7" at 2850'. Load csg and pressure test. NDBOE and change out TBG head to allow hanging 2 7/8" TBG (w/full opening 3 1/8" casing valves
4. Pick up 4.750" drill collars and 3.500" drill pipe with 6.250" bit, dry hole, drill up EZSV, clean out fill from 2,970' to total depth (3143') using air and foam. Drill out to a total depth of ~~3168-73'~~ <sup>3150'</sup>, C/O and stabilize hole. Underream open hole section from 6 1/4" to 9 1/2". 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.
5. Run a blank 5.500" flush joint liner (Hydril 511) from TD back to approx. 2,750'. 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
6. RU HES, RUN GR-CCL to identify correct coal seam depths; TIH and perforate liner as follows:

<u>COAL ZONES</u>		<u>PERFORATIONS</u>		
Ignacio	2,958 to 2,980'	2,958 to 2,980'	4 jspf	88 holes
Cottonwood	3,047 to 3,065'	3,047 to 3,065'	4 jspf	72 holes
Cahn	3,105 to 3,143'	3,105 to 3,143'	4 jspf	152 holes
		<b>Total</b>		<b>312 holes</b>

7. Pick up and run 2 7/8"TBG as follows:
  - 1) 10' tbg sub
  - 2) 10' tbg subs; w/ 5/8" hole in middle
  - 3) 2 7/8" std. SN (2.280" ID)with retrievable plug in place
  - 4) remainder 2 7/8" TBG

Land bottom of TBG at approximately 3165'(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 \$120,000 (see attached AFE form).

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

*Mike Kutas*

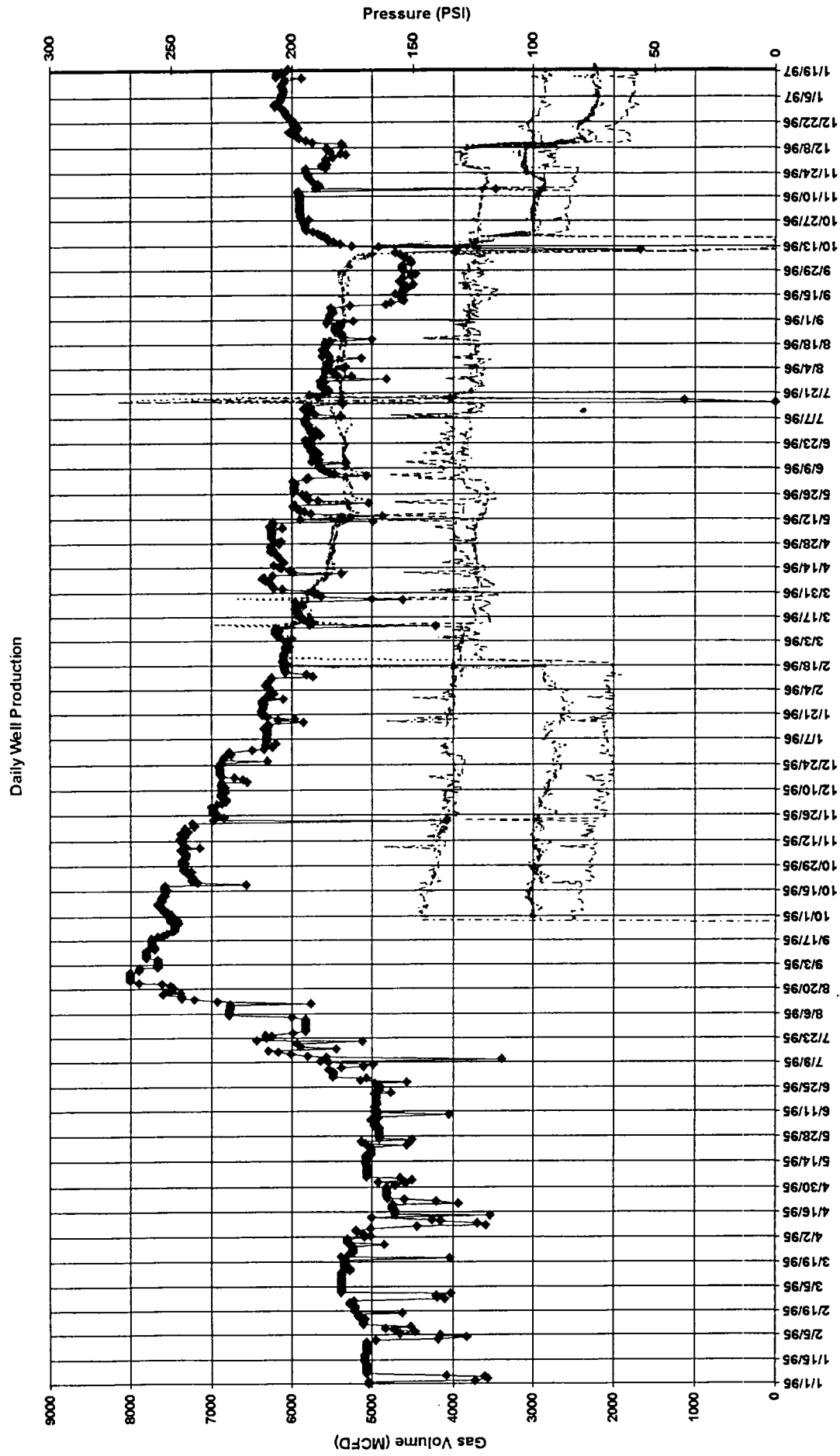
**(W) (303) 830-5159**  
**(H) (303)840-3700**  
**(P) (303)553-6334**



Amoco - OIBD/Synergy Data

Flacwell: 70304201

Wellname: FLORANCE G 003 - FT

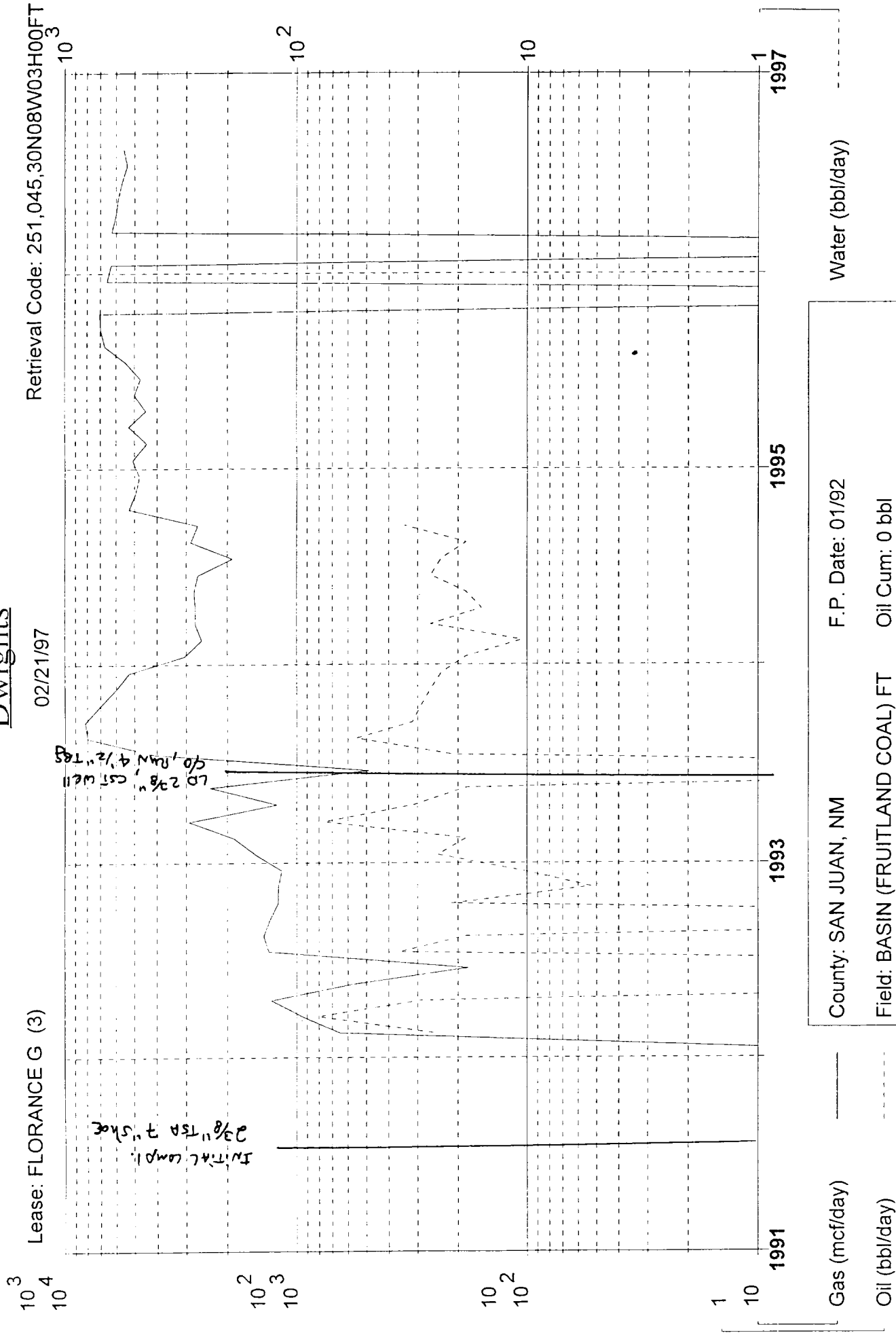


# Dwights

Lease: FLORANCE G (3)

Retrieval Code: 251,045,30N08W03H00FT

02/21/97



Gas (mcf/day)  
Oil (bbl/day)

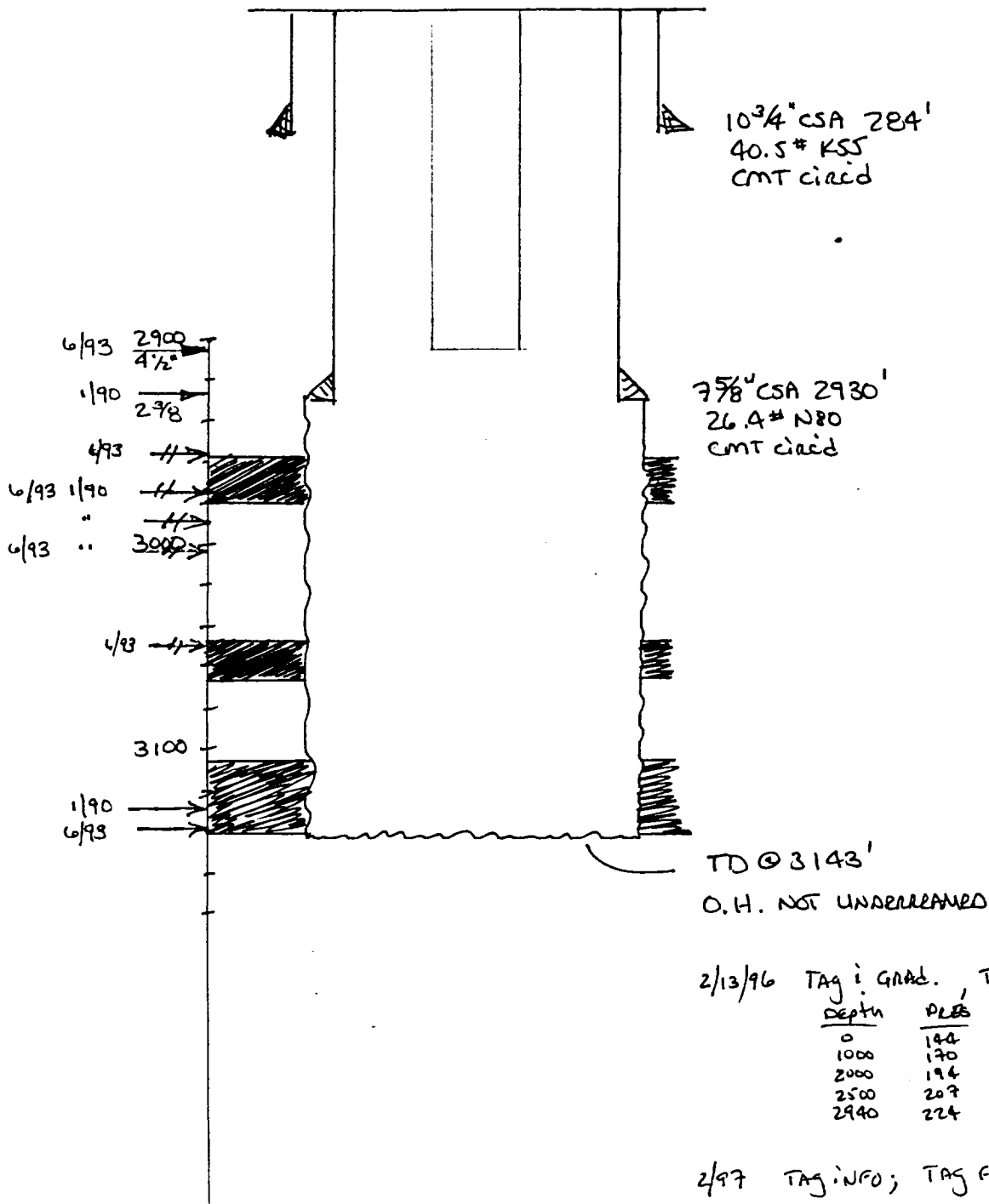
Water (bbl/day)

County: SAN JUAN, NM	F.P. Date: 01/92
Field: BASIN (FRUITLAND COAL) FT	Oil Cum: 0 bbl
Reservoir: FRUITLAND COAL	Gas Cum: 6132 mmcf
Operator: AMOCO PRODUCTION CO	Location: 3H 30N 8W

SUBJECT FLORENCE G 3

Date 2/21/77

By GMK



SUBJECT FLORENCE G 3

Date 2-21-97

By G.M.K.

10 3/4" CSA 284', 40.5# K55, CMT circ'd  
7 5/8" CSA 2930, 26.4# N80, CMT circ'd

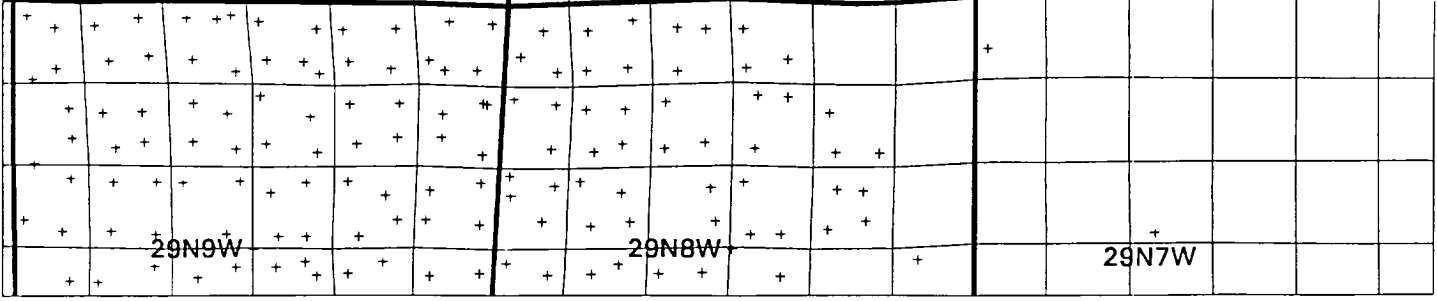
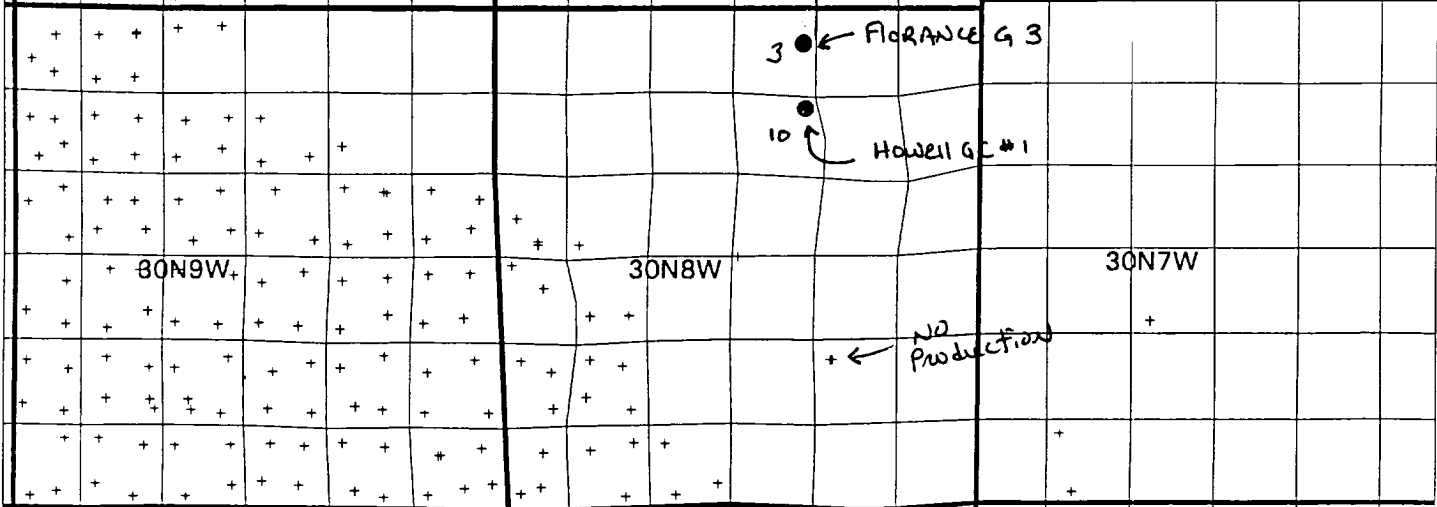
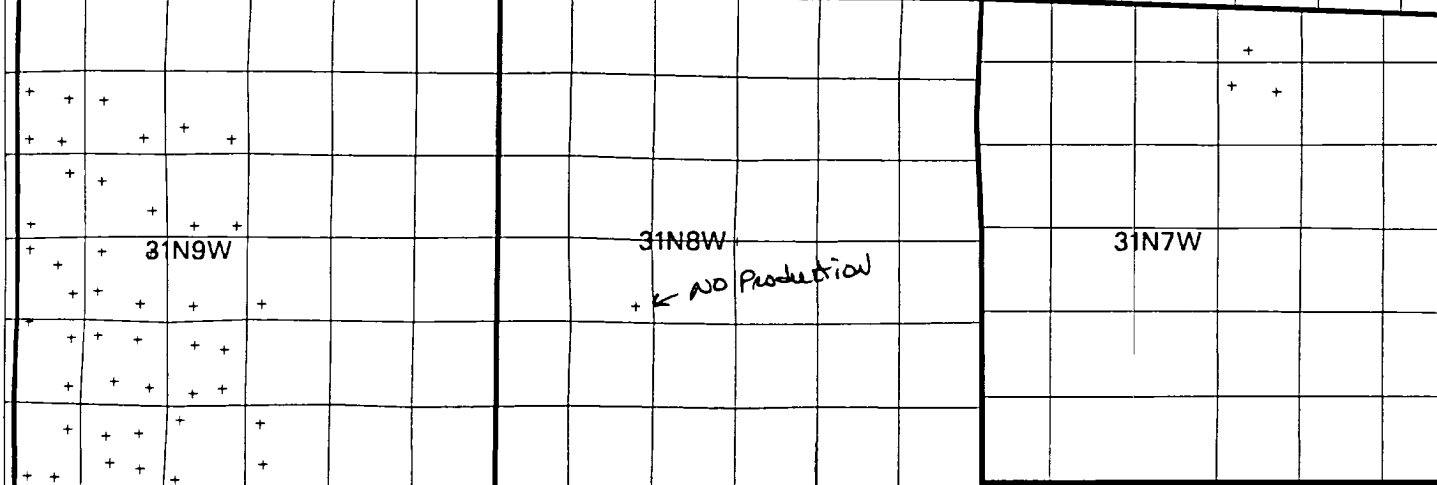
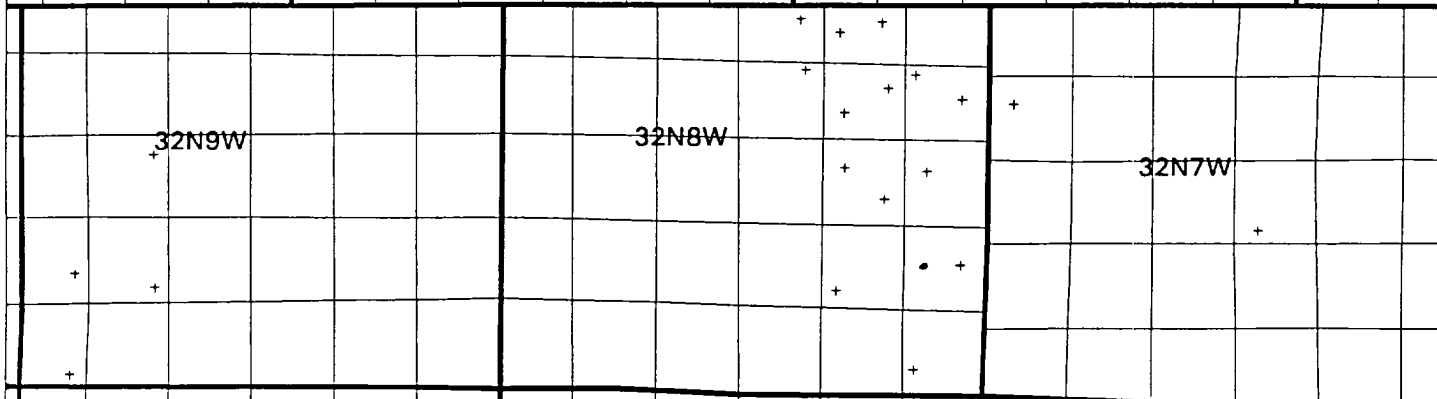
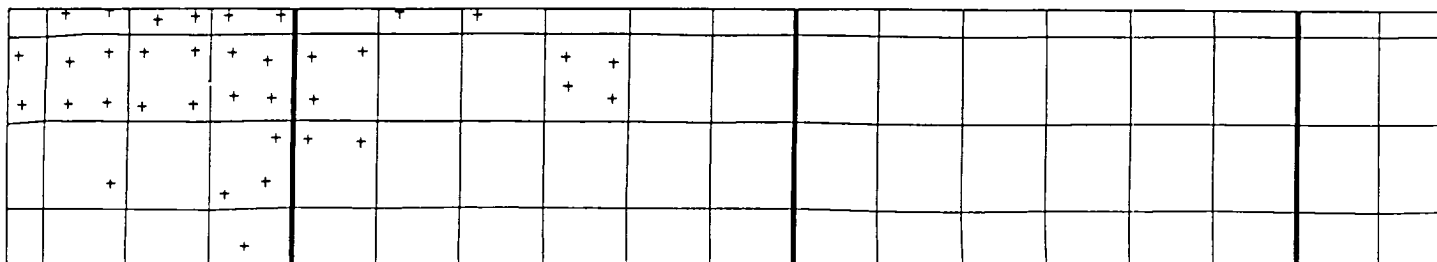
SPUD: 12/17/89

RRRL: 12/21/89

- |   | COAL INTERV. | Depth        |
|---|--------------|--------------|
| 6/4/90 - MIMUSA, FU x TTH x BIT: DP   |              |              |
| - D.O. CMT 2847-2930'   | IGNACIO      | 2958-80'     |
| - D.O. TO 2999, GAS TO SURF, Kill w/mud   | CW           | 3047-65      |
| - mix mud, 11.5 ppz, Kill well  | CAHN         | 3105-30' 1/4 |
| - c/o 2' bridge @ 2961-63, D.O. TO 3052', CORE CW, 3017-3072'   |              | TD = 3143'   |
| - TBH w/core, DRILL TO 3103', CORE #2, 3107-19', 19-43'   |              |              |
| - RUN HR LOT 3140-2900', ML 3128-2900', NGRS - 3133-2900'   |              |              |
| - TTH: c/o 13' Fill; FLOW TEST: 2 HRS, 3/4", 120 → 210 psi, 3045 MCFD @ BWPD<br>STARTED MAKING WTR, CPF INC TO 260 psi w/646 BWPD; TTH x c/o 15'<br>Fill  |              |              |
| - CST #1 x 4, 1200 psi; TTH, c/o; TAG Fill @ 3130', CIRC ON BTM - REC LG VOL COAL   |              |              |
| - 2x2 3112-3143', HOLE UNSTABLE @ THIS DEPTH; HOLE TIGHT @ 2975-90', CIRC   |              |              |
| - FLOW TEST: 75 min, 3/4", 260 psi (as high as 320 psi), HEAVY MIST - PUT OUT FLARE   |              |              |
| - CST #2 x 4, 1200 psi, HEAVY TO DEER COAL RET'S, RETURN: DRILL FROM 2975-90'<br>HEAVY COAL RETURNS @ 3052-3112', CIRC ON BTM   |              |              |
| - WORK THRU BRIDGE @ 2967-85', c/o 13' Fill ON BTM, HOLE HEAVING, 60-80' FLARE  |              |              |
| - c/o 13' Fill, FLOW TEST: + 3.5 mmCFD w/HEAVY MIST, 260 psi; c/o BRIDGE @ 2927'<br>SAW FLARE INCE, c/o BRIDGE @ 2985-90'; 3001' + 13' Fill, CIRC ON BTM<br>FLOW TEST; 3/4", 220 psi, 3190 MCFD |              |              |
| - SNUB OUT OF HOLE w/ DP, SNUB IN HOLE w/ 2 7/8" TAG; TSA 2927'<br>1.78" Nipple w/ exp check: 1/2 muleshoe, 1 JT, 1.78" F Nipple 4.7# JJS<br>PUMP OUT EXP CHECK SITP/CP = 1375/1410 psi         |              |              |
| - RDSM 1/20/90  |              |              |
| - FLOW TEST: 24 HRS, 753 BW, FTP/FCP = 470/830 psi, 1719 MCFD   |              |              |
| 6/10/93 - MIMUSA, SICP = 475 psi  |              |              |
| - TOH w/ 2 3/8" TAG, SET CE&P @ 2610', PRETEST BOP, etc   |              |              |
| - D.O. CIBP, TAG UP @ 2990', c/o FROM 2990'-3020', R:R @ 3143' - HEAVY<br>COAL RETURNS; FLOW TEST; 4.5 HRS, 3/4" ch, 80-360 psi, 5.2 mmCFD; SI 3.5 HRS, CP = 84 p.                              |              |              |
| - CST #1 x ?, 500-840 psi, REC GAS: WTR   |              |              |
| - TTH, TAG @ 2951', C.O. TO 3143'; FLOW TEST 2.25 HRS, 3/4", 100 → 425 psi, 6.1 mmCFD   |              |              |
| - CST #2 x ?, 800 psi   |              |              |
| - TTH, TAG @ 2970' c/o TO 3143, R:R, FLOW TEST 2 HRS, 3/4", 120-450 psi, 6.5 mm   |              |              |
| - CST #3 x ?, 820-850 psi   |              |              |









# LANE RADIOACTIVITY LOG COMPANY

COMPANY: **LANE OIL CORPORATION**  
 WELL: **FLORENCE NO. 36**  
 FIELD: **FLAHO**  
 COUNTY: **HARVEY** STATE: **LA.**  
 LOCATION: **T1T 330N4-28W 8**  
 1550' PR N & 990' PR S LANE

LOG MEAS FROM: **3150** HEV. 0205  
 ORIG. MEAS FROM: **3175** HEV. 0215  
 PERM. DATUM: **A=25'** HEV. 0272

LOG MEAS TO: **3150**  
 ORIG. MEAS TO: **3175**  
 PERM. DATUM: **A=25'**

LOG MEAS FROM: **3150** HEV. 0205  
 ORIG. MEAS FROM: **3175** HEV. 0215  
 PERM. DATUM: **A=25'** HEV. 0272

LOG MEAS FROM: **3150** HEV. 0205  
 ORIG. MEAS FROM: **3175** HEV. 0215  
 PERM. DATUM: **A=25'** HEV. 0272

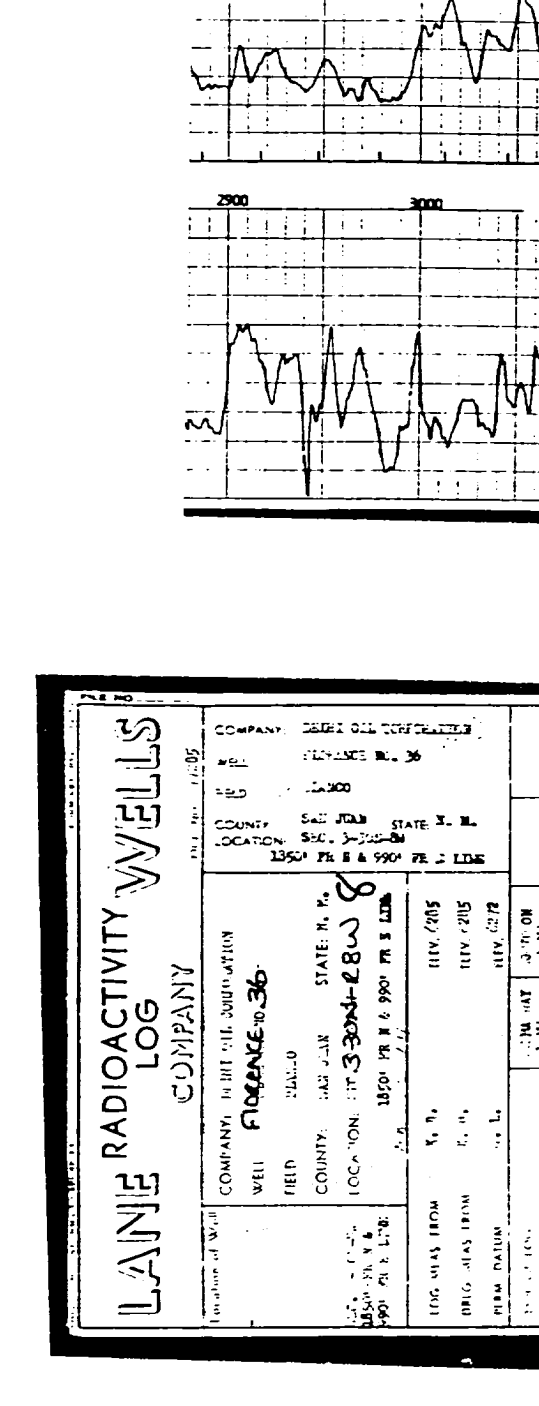
LOG MEAS FROM: **3150** HEV. 0205  
 ORIG. MEAS FROM: **3175** HEV. 0215  
 PERM. DATUM: **A=25'** HEV. 0272

LOG MEAS FROM: **3150** HEV. 0205  
 ORIG. MEAS FROM: **3175** HEV. 0215  
 PERM. DATUM: **A=25'** HEV. 0272

LOG MEAS FROM: **3150** HEV. 0205  
 ORIG. MEAS FROM: **3175** HEV. 0215  
 PERM. DATUM: **A=25'** HEV. 0272

LOG MEAS FROM: **3150** HEV. 0205  
 ORIG. MEAS FROM: **3175** HEV. 0215  
 PERM. DATUM: **A=25'** HEV. 0272

LOG MEAS FROM: **3150** HEV. 0205  
 ORIG. MEAS FROM: **3175** HEV. 0215  
 PERM. DATUM: **A=25'** HEV. 0272



2900 3000 3100 3200 3300

3150  
 3175  
 A=25'

BASE CIAL  
 TOP PC

RADIATION INTENSITY INCREASES

RADIATION INTENSITY INCREASES

GAMMA RAY

NEUTRON

REMARKS ON OTHER DATA

FROM P A LOG

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10

FROM 10 TO 10  
 TO 5600  
 TO 10 TO 10 TO 10