

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-081098-A

6. If Indian, Alibotee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Florance L 4

9. API Well No.
3004527412

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

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:
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)
2465' F&L 1220' FEL Sec. 3 T 30N R 9W UNIT H

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

TYPE OF SUBMISSION	TYPE OF ACTION
☒ Notice of Intent	☐ Abandonment
☐ Subsequent Report	☐ Recompletion
☐ Final Abandonment Notice	☐ Plugging Back
	☐ Casing Repair
	☐ Altering Casing
	☒ Other Repair
	☐ Change of Plans
	☐ New Construction
	☐ Non-Routine Fracturing
	☐ Water Shut-Off
	☐ Conversion to Injection
	☐ 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 Requests permission to repair this well per the attached procedures.

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

RECEIVED
JAN 22 1998
OIL CON. DIV.
DIST. 3

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

Signed Pat Archuleta Title Staff Assistant Date 01-14-1998

(This space for Federal or State office use)

Approved by /S/ Duane W. Spencer Title Date JAN 20 1998

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.

SJOET Well Work Procedure

Florance L 4

Version: #1
Date: January 14, 1998
Budget: Well Repair
Work Type: C/O, run and perf liner

Objectives:

1. Clean out fill, perform minor cav's, and stabilize hole
 2. Run and perf liner--prepare well for artificial lift
 3. Return well to production
-

Pertinent Information:

Location:	2465' FSLx1220' FEL; Sect 3H-T30N-R09W	Horizon:	FT
County:	San Juan	API #:	30-045-27412
State:	New Mexico	Engr:	Kutas
Lease:	BLM: SF-081098A	Phone:	H--(303)840-3700
Well Flac:	703054		W-(303)830-5159
			P--(303)553-6334

Economic Information:

APC WI:	50%	Prod. Before Repair:	4780MCFD
Estimated Cost:	\$75,000	Anticipated Prod.:	5500MCFD
Payout:	< 4 Months	Prod. Before Repair	
Max Cost -12 Mo. P.O.	\$231M	Anticipated Prod.:	
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:	2601'	Gallup:	
Pictured Cliffs:	2911'	Graneros:	
Cliff House:		Dakota:	
		TD:	2889'

Bradenhead Test Information:

Test Date: 7/96 Tubing: 150 Casing: 150 BH: 0 psi

Time	BH	CSG	INT	CSG
5 min				
10 min				
15 min				

Comments:

Current wellbore info: 7" CSA 2678', OH at 2678-2889', 2 7/8" TSA 2873', Fill at 2879'KB
Current flow info: 4780 MCFD, FTP=66 psi, FCP=66 psi, LP=61 psi; Producing casing--tubing logged off

General observations:

1. Well is experiencing loading problems--can only produce casing
2. Well was cavitated, recavitated, and underreamed
3. PCP and jet pump attempts in open hole failed due to coal plugging

Short term plans:

1. Clean out, line, and perf well

Near term plans:

1. Place on artificial lift (if needed)--will retry jet pump

1. MIRURT; equipped with air package/mist pump--AWS Rig 124
2. ND tree, rig up BOP's; complete with venturies on blooie lines w/man. valves. Test BOE. Set plug in PN in 2 7/8" TBG (PN sa approx. 2853'). TOH w/2 7/8" tubing
3. Set wireline EZSV in 7" at 2500'. Load and pressure test csg. NU and test BOE.
4. Pick up drill collars, and 6.250" bit, blow hole dry, drill up EZSV, clean out fill from 2,879' to total depth (2889') using air and foam. Cavitate well for 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.
5. Run a blank 5.500" 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
6. RU HES, run GR-CCL to identify correct coal seam depths; TIH and perforate liner as follows:

COAL ZONES		PERFORATIONS		
Ignacio	2,709 to 2,739'	2,709 to 2,739'	4 jspf	120 holes
Cottonwood	2,776 to 2,802'	2,776 to 2,802'	4 jspf	104 holes
	2,834 to 2,841'	2,834 to 2,841'	4 jspf	28 holes
Cahn	2,856 to 2,888'	2,856 to 2,888'	4 jspf	128 holes
		Total		380 holes

5. TOH and lay down drill pipe and bit; RIH w/2 7/8" TBG as follows:

- 1) 8' 2 7/8" tbg sub w/mule shoe on bottom
- 2) 6' 2 7/8" tbg sub
- 3) 2 7/8" PN with retrievable plug in place
- 4) remainder 2 7/8" TBG (All TBG: 6.5# J55 FBN)

Land bottom of TBG at approximately 2870-80'. 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 days and to cost approximately \$75,000 (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 Production Company

ENGINEERING CHART

Sheet No. _____ Of _____

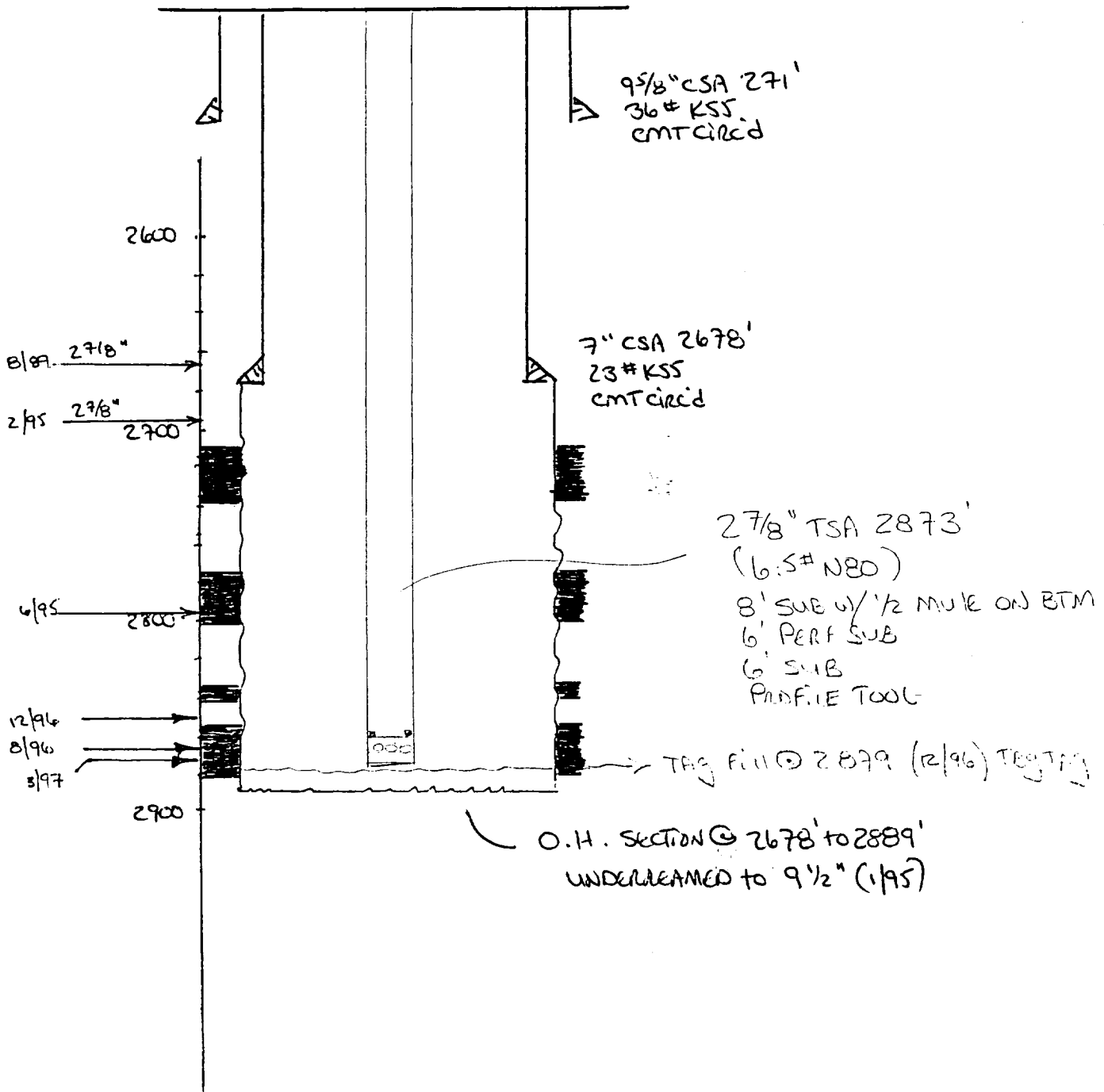
File _____

Appn _____

Date 10/22/97

By GMK

SUBJECT FLORANCE L 4



ENGINEERING CHART

SUBJECT

FLORENCE L 4

Appn _____

Date

10-21-97

By

GMLK

SPUD: 7/16/89 RREL: 7/19/89

9 5/8" CSA 271', 36# K55, CMT CIRC'D
 7" CSA 2678', 23# K55, CMT CIRC'D

- 8/21/89 - MINURT, TEST BOE, PU BIT & DP, TAG CMT @ 2560'
- | ZONE | DEPTH | SHOWS | FINE |
|------------|-----------|--------|------|
| IGNACIO | 2709-39' | 3520 u | 4-5' |
| COTTONWOOD | 2776-802' | 4585 u | - |
| CAHN | 2834-41' | 3360 u | - |
| | 2855-88' | 4750 u | - |
- D.O. TO 2889, FOUND COALS AS FOLLOWS:
 FLOW TEST: 3/4", 35#, 507 mcf, 627 BWPO
- CIRC HOLE CLEAN, CST X 4, 1100-1400 psi, TAG: c/o 3' Fill, FLOW TEST:
 609 -> 551 mcf, 753 BWPO, 10-15' FLARE, TAG: c/o 2' Fill
- CIRC, CST X 14, 1400 psi, REC WTR + DUST, TAG: c/o 4' Fill, FLOW TEST
 3/4", 6 HRS, 232-725 mcf, 0-807 BWPO, SI 1 1/2 hrs = 590 psi
- SIP STAB @ 620 psi, TAG: c/o 2' Fill, CST - 10 HRS X 12, 1050-1400 #
 REC DIRTY WTR, COAL DUST, FLOW TEST: 3/4", 10-110 psi, 145-797 mcf, 0-1130 #
- TAG: c/o 5' Fill, UNLOAD SM-MED SIZE COAL + DUST, HOLE UNLOADING
 GOOD AMT COAL, FLARE INCL
- CIRC, CST X 12, 1360 psi, DIRTY WTR + FINES, FLOW THRU 3/4", STEADY
 100#, 2260 BWPO, TAG: c/o 4' Fill, CIRC
- FLOW TEST, TAG: c/o 4' Fill, TOH X LDDP, PU X RUN 2 7/8" TBG w/
 Exp check on BTM, 1 JT, F-Nipple (6.5# J55) TSA 2666', DROP
 BALL: B.O. Exp check, 3 HRS SIP: 800 psi, FLOW TEST 4 hrs: 1.3-1.4 m³
- RREL: 8/29/89

- 11/21/95 - MINURT,
- Kill Well (couldn't set plug)
- TOH X LD 2 7/8" TBG, PU DPX BIT, c/o Bridges @ 2715-22': 2840-55
 x Fill @ 2870-89'; PU UNDERREAMER, TEH
- UR FROM 2685-889', TOH LD UR, c/o Bridge @ 2780-95' 23' Fill
 FLOW TEST: 3/4", 300-310 psi, 4.35-4.5 mmcf, CST X 1, 400 psi - HVY
 COAL: GAS RETURNS
- CST X 15, 400 psi, HVY COAL: GAS RETURNS; FLOW TEST: 3/4", 355-360 psi, 5.15
 5.22 mmcf, Flow Thru BL's
- TAG: c/o 11' Fill, Flow 5.2 mmcf, 360 psi; CAV Well
- FLOW TEST: 3/4" ch, 340-360 psi, 4.9-5.2 mmcf, TAG: c/o 10' Fill.
- AFTER NAT. BL, well making med to HVY COAL, FLOW TEST, 340-355 psi
- DITTO: 6 days

Amoco Production Company

Sheet No 2 of 2

ENGINEERING CHART

Appn _____

Date _____

By _____

SUBJECT 6/6-17/95 Attempt to Run PCP, STATOR BURNED UP
Twice, Lower TBG to 2799'

- TAG: c/o 15' Fill, Flow NATURAL, TAG: c/o 15' Fill
- LDDP: DC, PU x RUN 27/8" TBG, LAND w/ mule shoe @ 2695'
- RREL 2/7/95 (18 days on well)

8/6/96

- TAG w/SL @ 2850'
- Run Coil TBG, RTH w/ 1 1/4" CT x Slim Hole PKR x X-over x Jet Pump
- Set PKR: Land Pump/CT PKR @ 2851', Jet @ 2849'

7/19/96

- MIMSU, NU BOPs, Test BOC
- Set Plug x TOH w/ 27/8" TBG, PU BIT x DPX OC
- TAG: c/o 18' Fill - NO BRIDGES, Flow Test, 2" ^{PITOT} 42 psi, 4.8 mmcfo CST x 4, 290 psi; Flow Test, 2" ^{PITOT} 60 psi, 6.4 mmcfo, CST x 4, 300 psi. Flow Test, 2" ^{PITOT} 62 psi, 6.62 mmcfo
- c/o 213' Fill, Flow Test, 2" Pitot, 58 psi, 6.26 mmcfo; CST x 10, 300 psi, Coal + wtr returns, Flow Test, 2" Pitot, 61 psi, 6.55 mmcfo, CST x 6, 300 psi, c/o 16' Fill Flow Test, 2" Pitot, 52 psi, 5.72 mmcfo, c/o 15' Fill, Flow Test, 50 psi, 5.55 mmcfo
- CST x 7, 300 psi, Lt coal dust returns, c/o 15' Fill, Flow Test, 48 psi, 5.4 mmcfo; c/o 10' Fill, CST x 8, 450 psi, Coal Fines w/ NO wtr
- c/o 5' Fill, CST x 10, 440 psi, Lt to med coal rtrns, TAG Bridge @ 2815'; c/o 20' Fill; Flow Test, 52 psi, 5.72 mmcfo
- CST x ?, 440 psi, Lt - med coal rtrns, Flow Test, 56 psi, 6.085 mmcfo
- CST, Flow Test, 56 psi, 6.085 mmcfo, CONT CST, TAG 0' Fill, Flow Test 54#, 5.91 mmcfo, CONT CST's, Lt to HVY coal rtrns
- Flow Test: 53#, 5817 mcf, CONT CST, Bucket Test: 52 BWPD, Flow Test 54#, 5.91 mmcfo, TAG: c/o 5' Fill
- Change out TBG HEAD, PRSTST TH, TAG: c/o 6' Fill, Flow Test, 50# 5548 mcf, wet, TAG: c/o 6' Fill, Flow Test: 50#, 5548 mcf - dry TAG: c/o 8' Fill; circ, Rec HVY AMTS of coal, short trip, TAG 8' Fill
- c/o, short trip, tag 6', circ hole, Flow Test: 36#, 4295 mcf, TAG: c/o 2' - well making 1/16" - 1/4" coal to pit, Flow Test, 36# 4295 mcf, Flow NAT to pit, Test: 36# 4295 mcf, CST, HVY coal rtrns Flow Test: 54 psi, 5906 mcf - dry 6264 mcf wet
- TAG 10' Fill, c/o, short trip, TAG: c/o 15' Fill, TOH u/DP, well kicked TAG Bridge @ 2810', circ hole, HVY coal rtrns
- circ, Flow Test, 44 psi, 5011 mcf, TAG: c/o 6' Fill, Flow Test, 2" Pitot 44#, 5011 mcf, TAG: c/o 10' Fill, Flow Test, 43 psi - 4922 mcf TAG: c/o 5' Fill

Amoco Production Company

ENGINEERING CHART

Sheet No 3 of 01

File _____

Appn _____

Date _____

By _____

SUBJECT _____

- LD DPi DC, PU x RUN MULE SHOE, 6' PERF SUB, F-N PPK, 2 7/8" TBG, TSA 2868'; NDBOP, FLOW TEST, 2" LINE, 38 #4470 MCFO
- RUL 8/2/96

- 11/6/96 - MINU COIL TBG, ATTEMPT TO REC JET PUMP, HAD TO SHEAR DISCONNECT TO PULL COIL TBG
- MINUSU, SET Plug in TBG, Pull TBG x REC JET PUMP, Re-RUN TBG, TSA 2799'; PU x RUN JET PUMP ON 1 1/4" ij TBG

- 12/2/96 - Pull JET pump x PPK, HAD Fill ON PPK i COAL IN PUMP; Lower 2 7/8" TBG x TAG @ 2879' PU x LAND TBG @ 2851'; TTH w/ 1 1/4" ij TBG x JET PUMP IPSA 2820.22'

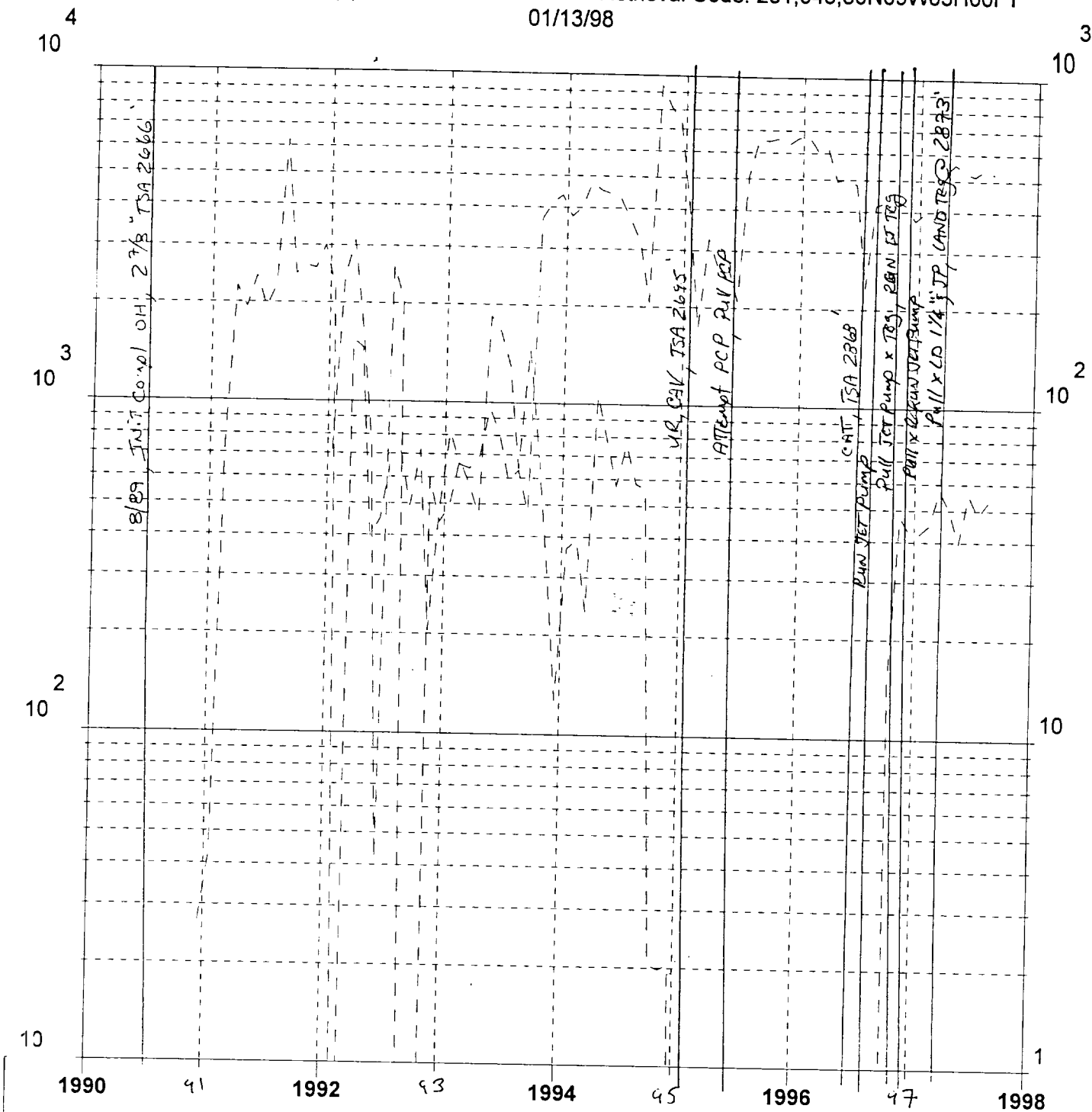
- 3/27/97 - MINUSU, Pull 1 1/4" TBG x LD string, Trip 2 7/8" TBG TO REC STANDING VALVE TTH w/ 2 7/8" TBG x LAND @ 2873' w/ 8' TBG SUB WITH 1/2 MULE ON BT 6' PERF SUB, 6' TBG SUB, PROFILE TDOI x REM 2 7/8" TBG (6.5# N80 EUE)

Lease: FLORANCE L (4)

Dwights

Retrieval Code: 251,045,30N09W03H00FT

01/13/98



Gas (mcf/day)

County: SAN JUAN, NM

F.P. Date: 12/90

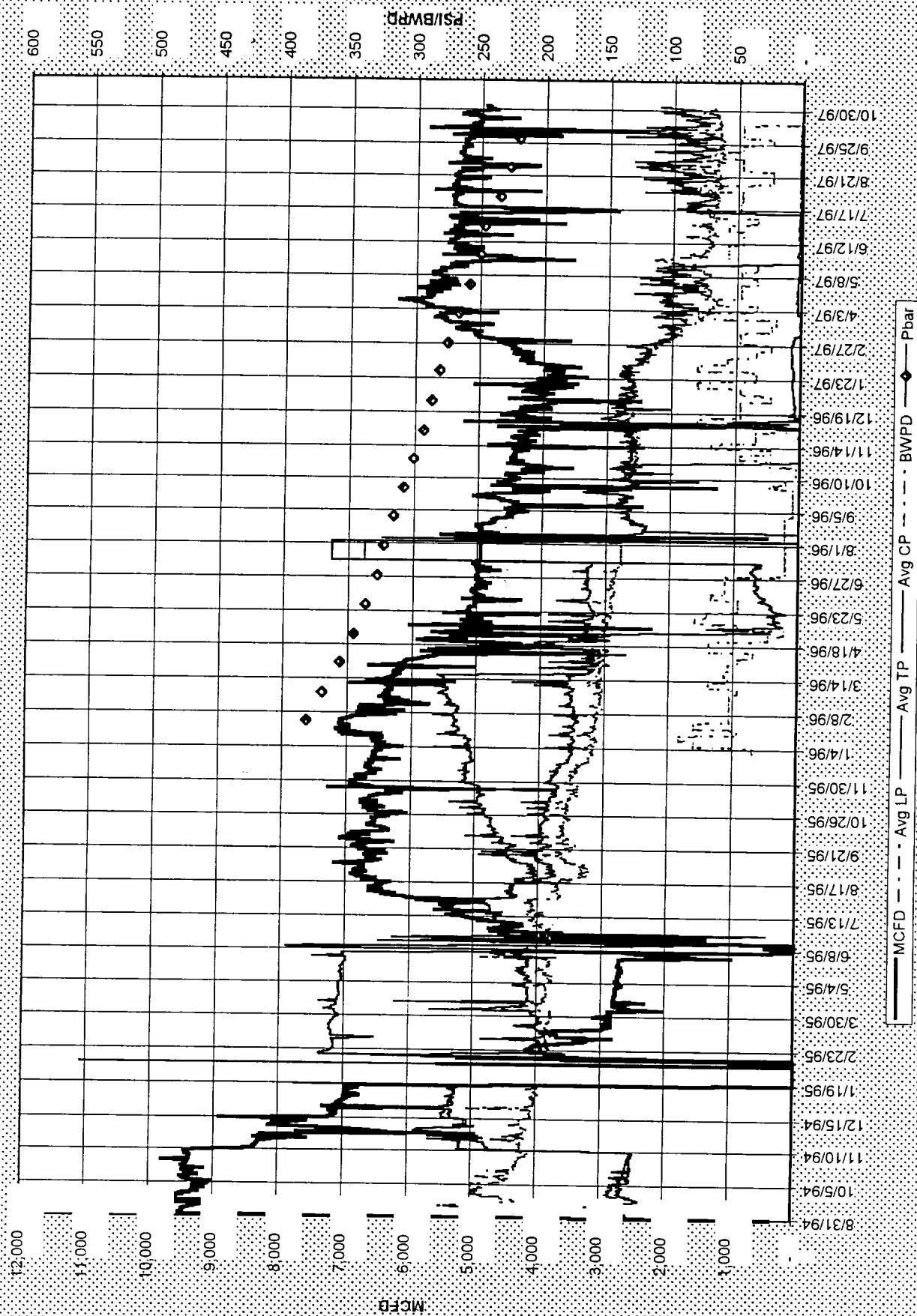
Water (bbl/day)

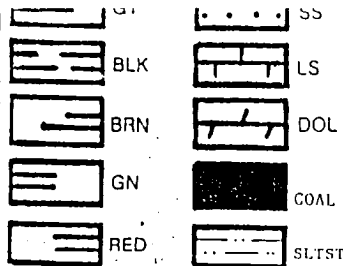
Field: BASIN (FRUITLAND COA Oil Cum: 0 bbl

Reservoir: FRUITLAND COAL Gas Cum: 8073 mmcf

Operator: AMOCO PRODUCTIO Location: 3H 30N 9W

Florence L.4





Post Office Box 8101
Durango, Colorado 81301

FROM 8/22/80 TO 8/22/80
MUD TYPE Fresh Water
MUD CO.

CHROMATOGRAPH ANALYSIS

Total gas = 50 Units/Division
C 1 100 Units/Division
C 2 272 Units/Division
C 3 296 Units/Division
C 4 301 Units/Division

WELL Florence L-4- 1220 FEN x 2465 FEN
LOCATION: SEC 1 T 30N R 9W
COUNTY San Juan STATE New Mexico
OPERATOR Amoco Production Company

