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.
NM-013686

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.
Pritchard A #11

2. Name of Operator
AMOCO PRODUCTION COMPANY

Attention:
Pat Archuleta

9. API Well No.
3004528357

3. Address and Telephone No.
P.O. BOX 800 DENVER, COLORADO 80201

303-830-5217

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1285' FSL 950' FWL Sec. 1 T 30N R 9W

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 Repair	☐ 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 request permission to clean out, stabilize, run and perf liner per the attached procedures.

If you have any technical quetions 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 01-13-1998

(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, ficticious, or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instructions on Reverse Side

NMOCD

SJOET Well Work Procedure

Pritchard A 11
Version: #1
Date: January 13, 1998
Budget: Well Repair
Work Type: C/O, stabilize hole, run and perf liner

Objectives:
1. Clean out fill and stabilize hole
2. Run and perf liner
3. Return well to production

Pertinent Information:

Location:	1285'FSLx950'FWL; Sect 1M-T30N-R09W	Horizon:	FT
County:	San Juan	API #:	30-045-28357
State:	New Mexico	Engr:	Kutas
Lease:	BLM: NM-013686	Phone:	H--(303)840-3700
Well Flac:	703059		W-(303)830-5159
			P--(303)553-6334

Economic Information:

APC WI:	50%	Prod. Before Repair:	680 MCFD
Estimated Cost:	$75,000	Anticipated Prod.:	1500MCFD
Payout:	<4 Months	Prod. Before Repair	
Max Cost -12 Mo. P.O.	$290M	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)

Nacimento:		Mesaverde:	
Ojo Alamo:		Point Lookout:	
Kirtland Shale:		Mancos Shale:	
Fruitland:	2329'	Gallup:	
Pictured Cliffs:	2643'	Graneros:	
Cliff House:		Dakota:	
		TD:	2651'

Bradenhead Test Information:
Test Date: 6/96 **Tubing:** 135 **Casing:** 162 **BH:** 0 psi

Time	BH	CSG	INT	CSG
5 min				
10 min				
15 min				

Comments:

Current wellbore info: 7" CSA 2421', OH at 2421-2651', 2 3/8" TSA 2540', Fill at 2570'KB (2/96 tbg tag)
Current flow info: 680 MCFD, FTP=54 psi, FCP=117 psi, LP=49 psi; Producing tubing; casing logs well
General observations:
1. Well has never produced at cavitstion rates (2200 MCFD); best sust'd prod=800-850 mcfd
2. Well located adjacent to Pritchard lateral compressor and has lowest HC line pressure
3. Best coal in well (2630-50) is covered with fill

Short term plans:
1. Clean out, 24 hr cavitation, line and perf well; well underreamed to 9 1/2" in '94

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

1. 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. Set plug in SN in 2 3/8" TBG (Std SN sa approx. 2540'). TOH w/2 3/8" tubing
3. Set wireline EZSV in 7" at 2300'. 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 2,570' to total depth (2651') using air and foam. Cavitate well for 24 hours to clean up open hole section. C/O and stibilize 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. 2,300'. 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	2,471 to 2,474'	2,471 to 2,474'	4 jspf	12 holes
	2,490 to 2,496'	2,490 to 2,496'	4 jspf	24 holes
Cottonwood	2,554 to 2,563'	2,554 to 2,563'	4 jspf	36 holes
	2,590 to 2,601'	2,590 to 2,601'	4 jspf	44 holes
Cahn	2,630 to 2,650'	2,630 to 2,650'	4 jspf	80 holes
		Total		**196 holes**

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: 6.4# J55 FBN)

Land bottom of TBG at approximately 2630-35'. Pull retrievable plug. RDMODU. **Turn well over to production.**
Note: bring well on slowly, well may need swabbing in order to RTP.

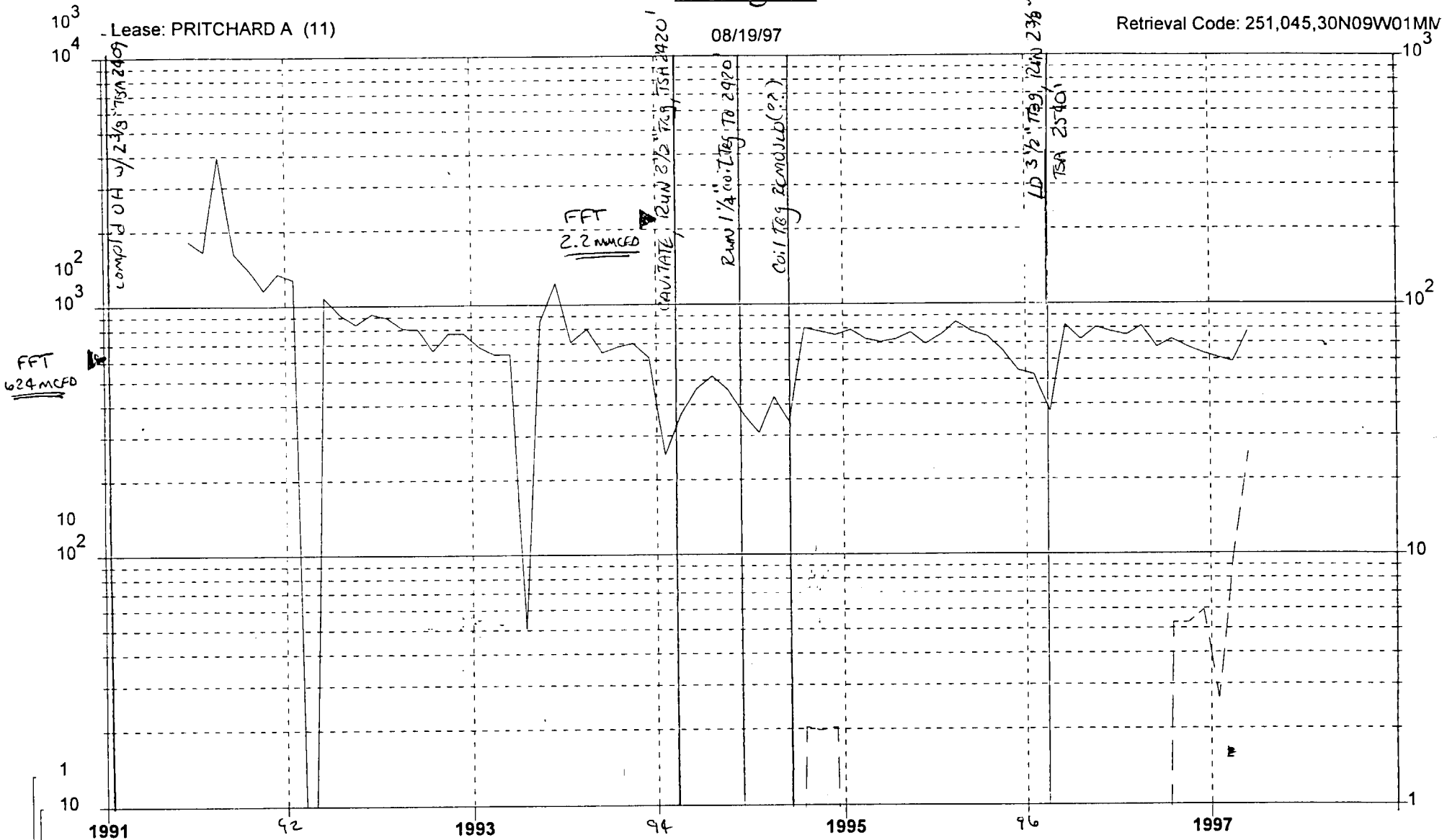
Dependent on speed of hole stabilization, I estimate this procedure to require approximately 5 days and to cost approximately $75,000 (see attached AFE form).

If problems are encountered, please contact:

Mike Kutas

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

Dwights

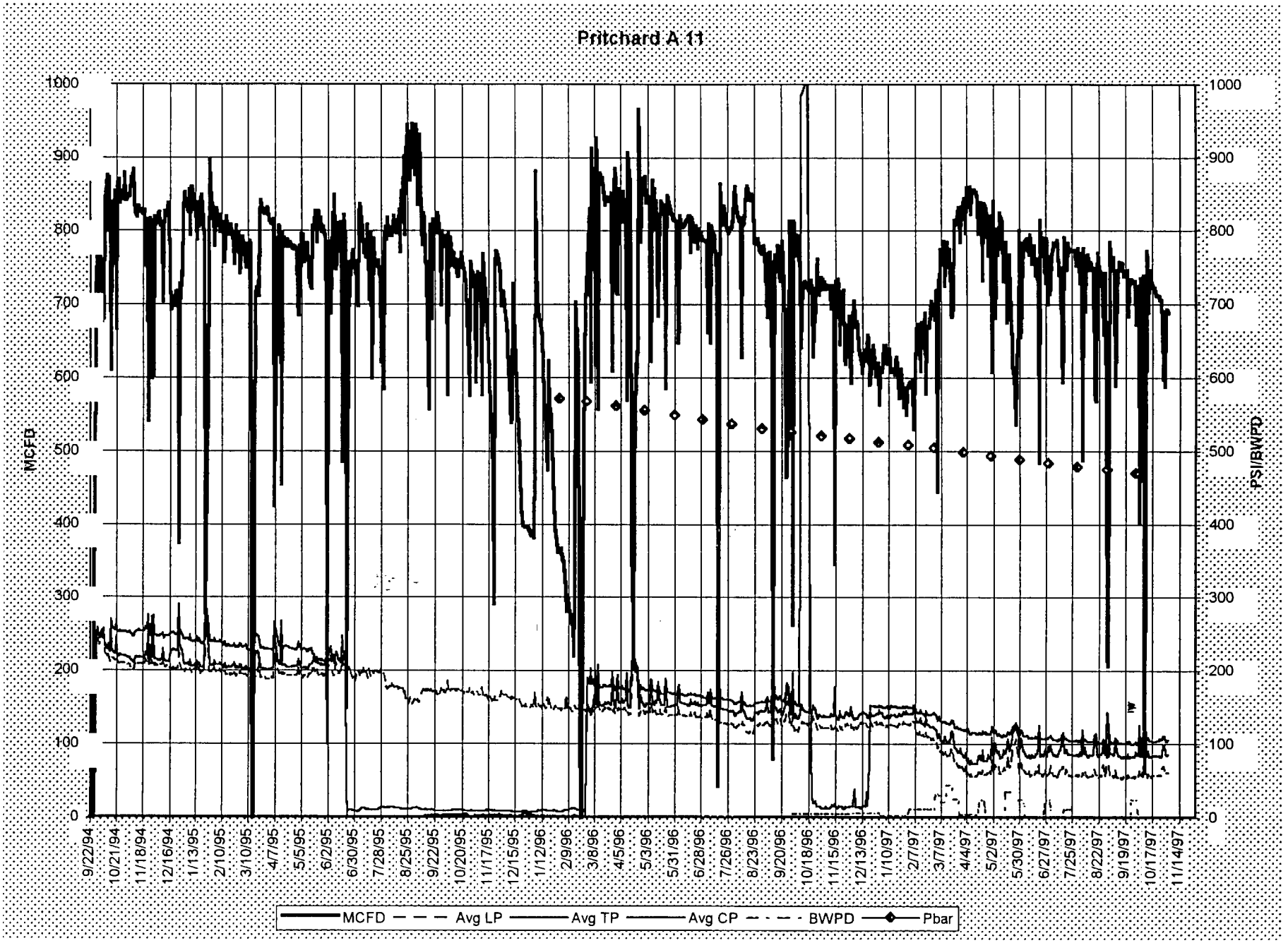


Gas (mcf/day) ———

Oil (bbl/day) - - - - - -

Water (bbl/day) — — —

County: SAN JUAN, NM	F.P. Date: 06/91
Field: BASIN (FRUITLAND COAL) FT	Oil Cum: 0 bbl
Reservoir: FRUITLAND COAL	Gas Cum: 1694 mmcf
Operator: AMOCO PRODUCTION CO	Location: 1M 30N 9W


Pritchard A 11
MCFD
PSI/BWPD
1000
900
800
700
600
500
400
300
200
100
0
9/22/94
10/21/94
11/18/94
12/16/94
1/13/95
2/10/95
3/10/95
4/7/95
5/5/95
6/2/95
6/30/95
7/28/95
8/25/95
9/22/95
10/20/95
11/17/95
12/15/95
1/12/96
2/9/96
3/8/96
4/5/96
5/3/96
5/31/96
6/28/96
7/26/96
8/23/96
9/20/96
10/18/96
11/15/96
12/13/96
1/10/97
2/7/97
3/7/97
4/4/97
5/2/97
5/30/97
6/27/97
7/25/97
8/22/97
9/19/97
10/17/97
11/14/97
MCFD
Avg LP
Avg TP
Avg CP
BWPD
Pbar

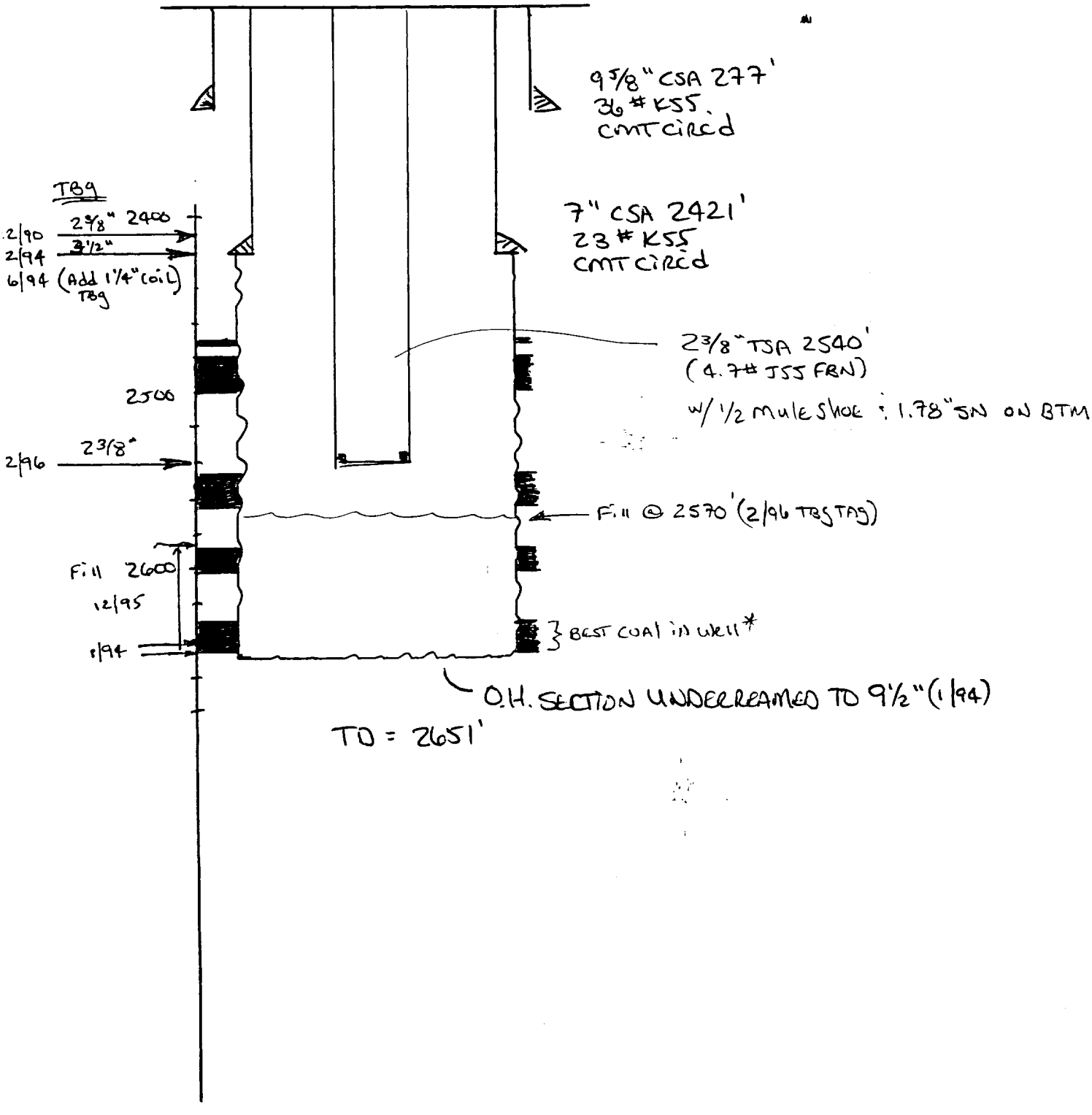
9:37 AM 11/5/97

Amoco Production Company

ENGINEERING CHART

Sheet No ____ Of ____
File ____
Appn ____
Date 10/6/97
By GMK

SUBJECT Pritchard A 11



Form 371 1-86

Amoco Production Company

ENGINEERING CHART

Sheet No ____ Of ____
File ____
Appn ____
Date 10-3-97
By GMK

SUBJECT PRITCHARD A 11

SPUD: 12/2/90 RREL: 12/5/90
9⅝" CSA 277', 36# K55, CMT circd
7" CSA 2421', 23# K55, CMT circd

12/15/90 - MIRUSU, TEST BOE.
- PU DC, DP: BHA, TAG CMT @ 2335'
- D.O. TO TD @ 2651', FOUND COAL @
FLOW TEST: 50→24#, 725→348 MCFD
SI 4 hrs = 790 psi.

ZONE	DEPTH	FLARE	
IGNACIO	2471-74'	30'	2500 M
	2479-98'	"	2800 M
COTTONWOOD	2547-65'	20'	2500 M
CAHN	2588-602'	20-40'	2850 M
	2630-50'	20-30'	2850 M

- TAG: C/O 15' Fill, CST #1 x 3, 1500-1600 psi, SMALL COAL RTRNS,
TAG: C/O Bridge @ 2636', FLOW TEST: 4 hrs, 3/4", 20#, 290 MCFD
TAG: C/O 3' Fill, CST #2 x 8, 1800 psi; TAG: C/O 65' Fill, R:R w/
FAIR-MED COAL RTRNS
- FLOW TEST: 8 hrs, 3/4", 18 psi, 261 MCFD, DRY; CST #3 x 10, 1800 psi
FINE COAL RTRNS; TAG: C/O 36' Fill, R:R
- FLOW TEST 7 hrs, 609 MCFD, 9/4", DRY; TAG: C/O 4' Fill, CST #4
x 7, 1980 psi - FINE COAL RTRNS
- TAG 63' Fill, C/O: TRMP STUCK PIPE @ 2632', CAHN TIGHT?
STICKY, FLOW TEST: 40 psi, 580 MCFD
- CONT FLOW TEST: 4 hrs, 43 psi, 624 MCFD; TAG: C/O 53' Fill, LDC
PU: LAND 2⅜" TBG A 2409' w/ MULE SHOE + EXP CHECK ON BTM,
1 JT TBG, 1.81" F NIPPLE (4.7# J55, FBN)
- RREL 12/13/90
- FLOW TEST: 1/6/91: T/C = 400/540 psi 489 MCFD 1 BWPD
1/14/91: T/C = 370/500 psi 1105 MCFD 7 BWPD

1/25/94 - MIRUSU, TEST BOE
- TOH x LD 2⅜" TBG, SICP = 400 psi; SET CIBP @ 2330', TEST BOP's
PU BIT x DP x DC's
- D.O. CIBP, TAG up @ 2535', C/O 116' TO TD; R:R - HVY COAL RTRNS
- STAB. HOLE, UNDERREAM FROM 6¼" TO 9½" FROM 2425-2651'
- TOH, LD UR, TAG: C/O 3' Fill; FLOW TEST: ¾", 132 psi, 1.9 mmcfd
SIP = 325# IN 2½ hrs; CST x 1, 350 psi
- CST x 7, 295-310 psi; FLOW TEST: ¾", 150 psi, 2.2 mmcfd, CST #2, 34
- CST x 3, 450 psi, LT COAL: WTR RETURNS; FLOW TEST: ¾", 143 psi, 2.07 mmcfd
TAG: C/O 3' Fill; FLOW TEST: ¾", 150 psi, 2.2 mmcfd, CST x 2, 300 psi, GAS RT

Amoco Production Company

ENGINEERING CHART

File _____

Appn _____

SUBJECT _____

Date _____

By _____

- CSTx1, 500psi, Lt COAL; GAS; Wtr Returns, CSTx1, 310psi, G+W RTRNS FLOW TEST: 3/4", 150psi, 2175 MCFD; TAG @ C/O 6' FILL, TOH, FLOW TEST: 3/4" ch, 141 psi, 2044 MCFD; CSTx1, 800 psi
- CSTx11, 300 psi, FLOW THRU BL's, FLOW TEST: 3/4"; 152 psi, 2204 MCFD TAG @ C/O 5' FILL.
- LOOP & DC's, PU & TIH x 3½" TBG (9.3# J55) w/ ½ MULE ON BTM @ 2.75" F NIPPLE @ 2387', TSA 2420'
- RREL 2/4/94

2/21/96 - TOH x LD 3½" TBG, PU & RUN 2⅜" TBG, TAG FILL @ 2570' RAISE & SET TBG @ 2540' w/ ½ MULE SHOE AND 1.78" SN ON BTM

6/3/94 - RU COIL TBG UNIT, RUN & SET 1.¼" COIL TBG @ 2420', ROCTU

12/95(?) - REMOVED COIL TBG

UNIT NO. 2
DEPTH FROM 2423' TO 2651'
DATE FROM 12-16-90 TO 12-17-90
ENGINEERS JIMMIE A. BALES
LORNA S. GLENN

CO — CIRCULATE OUT
NB — NEW BIT
DEV — DEVIATION
TG — TRIP GAS
DTG — DOWN TIME GAS
CG — CONNECTION GAS
DCB — DIAMOND CORE BIT
DB — DIAMOND BIT
DST — DRILL STEM TEST
NR — NO RETURNS
NS — NO SHOW
POROSITY, STAIN, & CUT — TRACE, FAIR, GOOD

LOCATION:
950' FWL, 1285' FSL
SEC. 11 TWP 30N RGE 9W

LEGEND
SHALE, SILTSTONE, SANDSTONE, LIMESTONE, DOLOMITE, ANHYDRITE
BENTONITE, CHERT, CONGLOMERATE, COAL, SALT

GAS FROM MUD
TOTAL GAS DETECTOR.....
CHROMATOGRAPH ANALYSIS
METHANE — 1
ETHANE — 2
PROPANE — 3
BUTANES — 4
PENTANES — 5
HELIUM — 6
RESULTS IN MOLE PERCENT GAS/AIR

CASING RECORD

SIZE	FROM	TO
7"	-0-	2423

ELEVATION
GL 5866
DF
KB 5882

DRILL RATE
MIN/FT FT/HR
1 2 3 4

POROSITY | LITHOLOGY | DEPTH | PERCENTAGE LITHOLOGY | STAIN | CUT | % OIL FLUOR

C'GRAPH 1% 10% 20% 30%
TOTAL GAS 100 1000 2000 3000

REMARKS

BIT 1 SEC S 33E
CIRC TO UNPLUG SAMPLE BOX
WOB = 8/ 0000
RPM = 75
PP = 850
DTD 2651

1% METHANE = 100 UNITS HOT WIRE
30'-40' FLARE
2479
CANNISTER NO. T-6 12:01AM 12-17-90
2498 30-40' FLARE
15' FLARE
10' FLARE
6' FLARE
4' FLARE
20' FLARE
10' FLARE
4' FLARE
2588
CANNISTER NO. T-3 20-40' FLARE
2601
20' FLARE
2630
CANNISTER NO. 37 20-30' FLARE
2650
CANNISTER SAMPLES DELIVERED TO

WELL TECH RIG 398
ON LOCATION 12-16-90

SH - DK BN GY, DK GY, SLI FIS, CARB, SM M GY, MIC MICA

SS - M GY, VF - FG, SB ANG, SB RND, UNCONS

COAL - BLK, SB BLKY TO PLTY, SEMI VIT TO VIT, MOD - SLI RTHY, FR CLEATING, BLDG GAS, SM BN BLK, RTHY W/ VIT LENS

COAL - BLK, BLKY, VIT - SEMI VIT, SLI RTHY, SM CONCH FRAC, FAIR CLEATING

SS - LT GY, GY BN, VF - FG, SB ANG - SB RND, MOSTLY UNCONS

SH - DK GY - BLK, BN BLK FIS - SB FIS, V/CARB ABNDT LT GY WXY BENT

COAL - 60% BN BLK, PLTY DULL, V/RTHY, & 40% BLK, PLTY, SEMI VIT - DULL, RTHY, POOR CLEATING, PR BLDG GAS

SS - M - LT GY BN, VF - L VFG, FRI, SB ANG, V/ SLI S & P, V/SLI CALC

COAL - BLK, SB BLKY, VIT - SEMI VIT, SOME CONCH FRAC, SLI - MOD RTHY, WELL CLEATED

SH - M - DK GY, SB BLKY, MIC MICA I P, SM SB FIS, V/CARB

COAL - BLK, SEMI-VIT TO VIT, SB BLKY, MOSTLY CLEAN, SOME SLI RTHY, WELL CLEATED, GOOD BLDG GAS

BEST COAL IN WELL *