



PLAINS  
PETROLEUM  
OPERATING  
COMPANY

March 28, 1995

Bureau of Land Management  
P. O. Box 1778  
Carlsbad, New Mexico 88221-1778

Re: Application to Drill  
E. C. Hill 'B' Federal #13  
947' FSL & 1361' FEL (SHL)  
1120' FSL & 1380' FEL (BHL)  
Sec 34 (O), T23S, R37E  
Lea County, New Mexico  
Lease No.: 064118

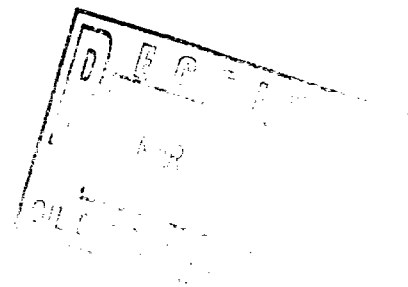
Dear Sirs:

Please find enclosed, in triplicate, an original and two copies of the above referenced Application to Drill. Should you have any questions, please call me at (915)683-4434.

Sincerely,

**PLAINS PETROLEUM OPERATING COMPANY**

Dominic J. Bazile  
Area Engineer



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Plains Petroleum Operating Company

3. ADDRESS OF OPERATOR

415 W. Wall, Suite 1000, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

947' FSL & 1361' FEL (SHL)

Unit 0

At proposed prod. zone

1120' FSL & 1380' FEL (BHL)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

10.3 miles NE of Jal, NM

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

947'

16. NO. OF ACRES IN LEASE

520'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

619'

19. PROPOSED DEPTH

9850'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3255'

22. APPROX. DATE WORK WILL START\*

As Soon As Possible

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#, H-40 STC	350'	375 sx circ
12-3/4"	8-5/8"	24, 32# J-55 STC	3000'	550 sx circ
7-7/8"	5-1/2"	15.5, 17# J-55 & N-80 LTC	9850'	925 sx circ

We propose to drill this well thru the McKee and complete as a McKee producer.

Mud Program:

0' - 350'

Spud mud, FW, gel

350' - 3000'

Brine & native mud, mud wt 10 - 10.2 ppg

Vis 26-28

3000' - 9850'

FW gel 8.6 - 9.2 ppg, Vis 28-35

We plan to use a 3000 psi Shaffer double, hydraulic-operated BOP during the drilling of this well. Upon receipt of the drilling permit, we will commence drilling operations. Approximately 25 days will be required to drill this well. Another 14 days are expected to be needed for the completion of this well. Estimated project start and completion dates will be around April 30, 1994 and May 30, 1995 respectively. Attached is an H<sub>2</sub>S Drilling Contingency Plan to be adhered to while drilling this well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*Donna J. 136*

TITLE

Area Engineer

DATE

3-28-95

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

## **APPLICATION TO DRILL**

### **PLAINS PETROLEUM OPERATING COMPANY**

**E. C. HILL FEDERAL 'B' #13**

**947' FSL & 1361' FEL (SHL)**

**1120' FSL & 1380' FEL (BHI.)**

**Sec 34(O), T23S, R37E**

**Lea County, New Mexico**

**Lease No. 064118**

**March 28, 1995**

In addition with Form 3160-2, Application to Drill the above well, Plains Petroleum Operating Company submits the following in accordance with BLM requirements.

#### **1. ESTIMATED GEOLOGICAL MARKERS**

GL: 3255'

KB: 3267'

<u>FORMATION</u>	<u>TOP</u>	<u>SS</u>
Penrose	3404'	-137'
Glorietta	4917"	-1650'
Paddock	5029'	-1762'
Blinebry	5272'	-2005'
Tubb	5942'	-2675'
Drinkard	6372'	-3105'
Abo	6462'	-3195'
Devonian	7342'	-4075'
Silurian	7994'	-4727'
Fusselman	8408'	-5141'
Montoya	8768'	-5501'
Simpson	9062'	-5795'
McKee	9417'	-6150'
TD	9850'	-6583'

## APPLICATION TO DRILL

Plains Petroleum Operating Company

E. C. Hill 'B' Federal #13

Lea County, New Mexico

Lease No. 064118

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## 2. CASING DETAIL

	CASING SIZE OD	INTERVAL	LENGTH OF INTERVAL	WEIGHT #/FT	INTERVAL WEIGHT	CASING GRADE	JOINT
Surface	13-3/8"	0' - 350'	350'	18#	16,800	H-40	STC
Intermediate	8-5/8"	0' - 100'	100'	32#	3,200	J-55	STC
	8-5/8"	100' - 2200'	2100'	24#	50,400	J-55	STC
	8-5/8"	2200' - 3000'	800'	32#	25,600	J-55	STC
Production	5-1/2"	0' - 1000'	1000'	17#	17,000	J-55	LTC
	5-1/2"	1000' - 7500'	6500'	15.5#	100,750	J-55	LTC
	5-1/2"	7500' - 9400'	1900'	17#	32,300	J-55	LTC
	5-1/2"	9400' - 9850'	300'	17#	5,100	N-80	LTC
Tubing	2-7/8"	0 - 9700'	9700'	6.5#	63,050	J-55	EUE

## 3. CEMENTING & FLOAT EQUIPMENT DETAIL

WELL DATA	SURFACE	INTERMEDIATE (TD 3000')	PRODUCTION (TD 9850')
Depth	350'	3000'	9850'
Casing Size	13-3/8"	8-5/8"	5-1/2"
Hole Size	17-1/2"	12-1/4"	7-7/8"
Desired Fill	Surface	Surface	Surface
Hole Volume	245 Ft <sup>3</sup>	940 Ft <sup>3</sup>	1150 Ft <sup>3</sup> , 475 Ft <sup>3</sup>
Recommended Volume	490 Ft <sup>3</sup>	1410 Ft <sup>3</sup>	1325 Ft <sup>3</sup> , 475 Ft <sup>3</sup>
DV Tool Depth	N/A	N/A	3000'

# PLAINS PETROLEUM OPER. CO.

Operator: PPOC	Well Name: E C HILL B FED #13
Project ID:	Location: 947' FSL 1361' FEL

## Design Parameters:

Mud Weight (10.20 ppg) : 0.530 psi/ft  
 Shut in casing pressure : 1920 psi  
 Internal gradient (burst) : 0.010 psi/ft  
 Annular gradient (burst) : 0.530 psi/ft  
 Tensile load is determined using buoyed weight  
 Service rating is "Sweet"

## Design Factors:

Collapse : 1.125  
 Burst : 1.10  
 8 Round : 1.75 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	100	8.625	32.00	K-55	ST&C	100	7.875
2	2,100	8.625	24.00	K-55	ST&C	2,200	7.972
3	800	8.625	32.00	K-55	ST&C	3,000	7.875

	Collapse Load (psi)	Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	53	2427	9.999	1920	3930	2.05	66.85	402	6.01 J
2	1166	1348	1.156	1868	2950	1.58	64.15	263	4.10 J
3	1590	2530	1.592	776	3930	5.06	21.61	402	18.61 J

Prepared by : DJB, Midland, Texas

Date : 03-29-1995

Remarks :

Minimum segment length for the 3,000 foot well is 100 feet.

SICP is based on the ideal gas law, a gas gravity of 0.15, and a mean gas temperature of 123°F (Surface 74°F, BHT 104°F & temp. gradient 1.000°/100 ft.)

Surface/Intermediate string:

Next string will set at 9,850 ft. with 8.80 ppg mud (pore pressure of 4,503 psi.) The frac gradient of 0.650 at the casing seat results in an injection pressure of 1,950 psi. Effective BHP (for burst) is 1,950 psi, the BHP load is 360 psi (using an annular mud of 10.00 ppg) and the differential gradient is -0.520 psi/ft.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)

# PLAINS PETROLEUM OPER. CO.

Operator: PPOC	Well Name: E C HILL B FED #13
Project ID:	Location: 947' FSL 1361' FEL

## Design Parameters:

Mud Weight ( 8.80 ppg) : 0.457 psi/ft  
 Shut in casing pressure : 4294 psi  
 Internal gradient (burst) : 0.021 psi/ft  
 Annular gradient (burst) : 0.457 psi/ft  
 Tensile load is determined using buoyed weight  
 Service rating is "Sweet"

## Design Factors:

Collapse : 1.125  
 Burst : 1.10  
 8 Round : 1.75 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Depth (TVD)	Cost
1	1,000	5.500	17.00	K-55	LT&C	1,000	1,000	
2	6,200	5.500	15.50	K-55	LT&C	7,200	7,200	
3	2,200	5.500	17.00	K-55	LT&C	9,400	9,394	
4	458	5.500	17.00	N-80	LT&C	9,858	9,850	

	Load (psi)	Collapse Strngth (psi)	S.F.	Burst Load (psi)	Min Int Strngth (psi)	Yield S.F.	Load (kips)	Tension Strngth (kips)	S.F.
1	457	3855	8.433	4315	5320	1.23	136.99	272	1.99 J
2	3291	3827	1.163	4315	4810	1.11	122.28	239	1.95 J
3	4294	4877	1.136	2527	5320	2.11	39.11	272	6.96 J
4	4503	6280	1.395	1570	7740	4.93	6.74	348	51.65 J

Prepared by : DJB, Midland, Texas

Date : 03-29-1995

Remarks :

Minimum segment length for the 9,858 foot well is 100 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.15, and a mean gas temperature of 123°F (Surface 74°F, BHT 172°F & temp. gradient 1.000°/100 ft.)  
 For burst purposes, lost circulation occurs behind the pipe at 3,000 ft, above which point, the annular mud weight of 8.800 ppg goes to zero.  
 The equivalent pore gradient at the seat is 6.12 ppg.  
 Minimum drift diameter of this directional well string is 4.767 in. Other parameters include: ID (Meas): 9,858 ft. Departure @ ID: 173 ft.  
 KOP: 7,750 ft. BU  $\alpha$ : 1.500°/100 ft.  
 @ 1st Slant  $\alpha$ : 5.138° VD: 8,092 ft Departure: 15 ft MD: 8,092 ft  
 Bending load: 8.84 kips

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)

## APPLICATION TO DRILL

Plains Petroleum Operating Company

E. C. Hill 'B' Federal #13

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### SLURRY

	Surface	Intermediate	Production 1st Stage	Production 2nd Stage
Recommendation	375 sx 'C' + 2% Cacl <sub>2</sub> + 1/4#/sk Celloseal	Lead: 450 sx 'C' + .25% Dispersent + 2.5% Extender + .5% Gel + .2% Salt + 1/4 PPS Cellophane Tail: 100 sx Cl 'C' Neat	Lead: 100 sx 36:65 Poz 'C' + 6% Gel + 9 PPS Salt + .2% Defoamer + .8% F.L. Additive Tail: 575 sx 50:50 Pox 'C' + 2% Gel + 4 PPS Salt + .2% Defoamer + .6% F. L.	Lead: 150 sx 'C' + .25% Dispersent + 2.5% Extender + .5% Gel + .2% Salt + 1/4 PPS Cellophane Tail: 100 sx Cl 'C' Neat
Yield	1.32 Ft <sup>3</sup> /sk	2.85 Ft <sup>3</sup> /sk, 1.32 Ft <sup>3</sup> /sk,	2.14 Ft <sup>3</sup> /sx, 1.32 Ft <sup>3</sup> /sx	2.85 Ft <sup>3</sup> /sx, 1.32 Ft <sup>3</sup> /sx
Weight	14.8 PPG	11.6 PPG 14.8 PPG	12.7 PPG 14.2 PPG	11.6 PPG 14.8 PPG
Mix Water	6.32 gal/sk	17.2 gal/sk 6.32 gal/sk	11.6 gal/sk 6.32 gal/sk	17.2 gal/sk 6.32 gal/sk

## **APPLICATION TO DRILL**

Plains Petroleum Operating Company

E. C. Hill 'B' Federal #13

Lea County, New Mexico

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### **4. MUD DETAIL**

<u>DEPTH</u>	<u>PROPERTIES</u>	<u>TREATMENT</u>
0 - 350'	Weight: 8.7 - 9.4 Viscosity: 33 - 35 Solids: <4.	Spud Mud: Fresh water gel with sufficient to viscosity to clean hole.
350' - 3000'	Weight: 10.0 - 10.2 Viscosity: 26 - 28 Solids: < 1.0	Drill out from surface csg with brine water
3000' - 9850'	Weight: 8.6 - 9.2 Viscosity: 28 - 35 Solids < 1.0 WL 7 - 10	Drill out from intermediate casing with fresh water mud

### **5. PRESSURE CONTROL EQUIPMENT (BOPE) DETAIL**

13-5/8" API Shaffer 3000# series 600 dual hydraulic preventers adapted for the drilling contractors 4-1/2" drill pipe. The BOPS will be tested after they are installed on the surface casing, prior to drilling out, and each time they are removed or rearranged on the wellhead. See Exhibit A.

### **6. TESTING AND LOGGING PROGRAMS**

#### **TESTING**

Drill stem tests may be performed to quantify and identify prospective producing horizons as drilling progresses. Production testing will be commenced after the well is drilled and casing has been set and cemented.

#### **LOGGING**

At TD, the following open hole well logs will be run: **GR-CNL-CDL-DLL-MLL**



**SURFACE USE AND OPERATION PLAN**  
**PLAINS PETROLEUM OPERATING COMPANY**  
E. C. HILL FEDERAL 'B' #13  
947' FSL & 1361' FEL (SHL)  
1120' FSL & 1380' FEL (BHL)  
Sec 34P, T23S, R37E  
Lea County, New Mexico  
Lease No. 064118  
March 28, 1995

I. Existing Roads:

- A. Exhibit B is a plat showing the proposed wellsite as staked, approximately 10.3 miles NE of Jal, New Mexico.
- B. Exhibit C is a map showing existing roads in the area.
- C. All existing roads will be maintained and repaired as necessary.

II. Access Roads:

- A. The access roads to the E. C. Hill 'B' Federal #12 will be used and extended to the proposed wellsite as shown on Exhibit C.
- B. Roads will be 12 ft wide and constructed of caliche.
- C. Roads are center line flagged.
- D. No turn arounds, culverts, cuts, gates or cattleguards will be required.

III. Existing Wells: See Exhibit C

IV. Location of Tank Batteries:

Existing tank batteries will be used.

V. Location & Type of Water Supply:

- A. A fresh water supply well is located on the lease. This fresh water will be used for drilling. Water will be transferred from the pump station to the pits using a temporary polyline.

## **SURFACE USE AND OPERATION PLAN**

Plains Petroleum Operating Company

E. C. Hill Federal 'B' #13

Lea County, New Mexico

Lease No. 064118

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### **VI. Source of Construction Materials:**

- A. Construction materials will be caliche, which will be obtained by the dirt contractor from caliche pits on the North border of the lease.
- B. Topsoil from the location will be stockpiled near the location for future rehabilitation use.

### **VII. Method for Handling Waste Disposal:**

- A. Cuttings - All cuttings will be held in the reserve pit.
- B. Drilling Fluids - All drilling fluids will be allowed to evaporate in the reserve pit.
- C. Produced Fluids (oil & water) - Any produced fluids will be collected in tanks until hauled to an approved disposal system.
- D. Garbage and Other Waste Material - All waste materials will be removed from the lease to a disposal facility.

### **VII. Ancillary Facilities: Not Applicable**

### **IX. Well site Layout: Exhibit A**

### **X. Plans for Restoration of Surface:**

- A. After completion of the well, pits will be filled and the location cleaned of all trash and junk to leave the wellsite in good condition.
- B. Any unguarded pits containing fluids will be fenced off and covered with netting until they are filled.
- C. The reserve pit will be backfilled and leveled and the surface returned to its original contour.

## **SURFACE USE AND OPERATION PLAN**

Plains Petroleum Operating Company

E. C. Hill Federal 'B' #13

Lea County, New Mexico

Lease No. 064118

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### **XI. Other Information**

- A. Topography: Terrain in the general area consists of an undulating plane covered by sandy soils of aeolian material of Holocene age.
- B. Soil: The soil belongs to the typic haplargids paleargids association.
- C. Vegetation: Consists of *Quercus havardii*, *Prosopis juliflora*, *yucca glauca*, *Suaeda* sp., *Euphorbia* sp., *Aristida* sp., *Bouteloua eriopoda*, *Cenchrus incertus*, *Muhlenbergia arenacea* and *Sporobolus* spp.
- D. Fauna: Consists of *Crotalus* and *sistrurus*, *canis latrans*, *lepus alleni* and *mephitis*.
- E. The surface of this land is being utilized to a limited extent as grazing land for cattle.
- F. The surface is privately owned.
- G. No cultural resources or archaeological sites present.

### **XII. Company Representative:**

Dominic J. Bazile  
Plains Petroleum Operating Company  
415 W. Wall, Suite 1000  
Midland, TX 79701  
Phone (915) 683-4434

**SURFACE USE AND OPERATION PLAN**

Plains Petroleum Operating Company

E. C. Hill Federal 'B' #13

Lea County, New Mexico

Lease No. 064118

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**XIII. Certification**

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge true and correct: and, that the work associated with the operations proposed herein will be performed by Plains Petroleum Operating Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

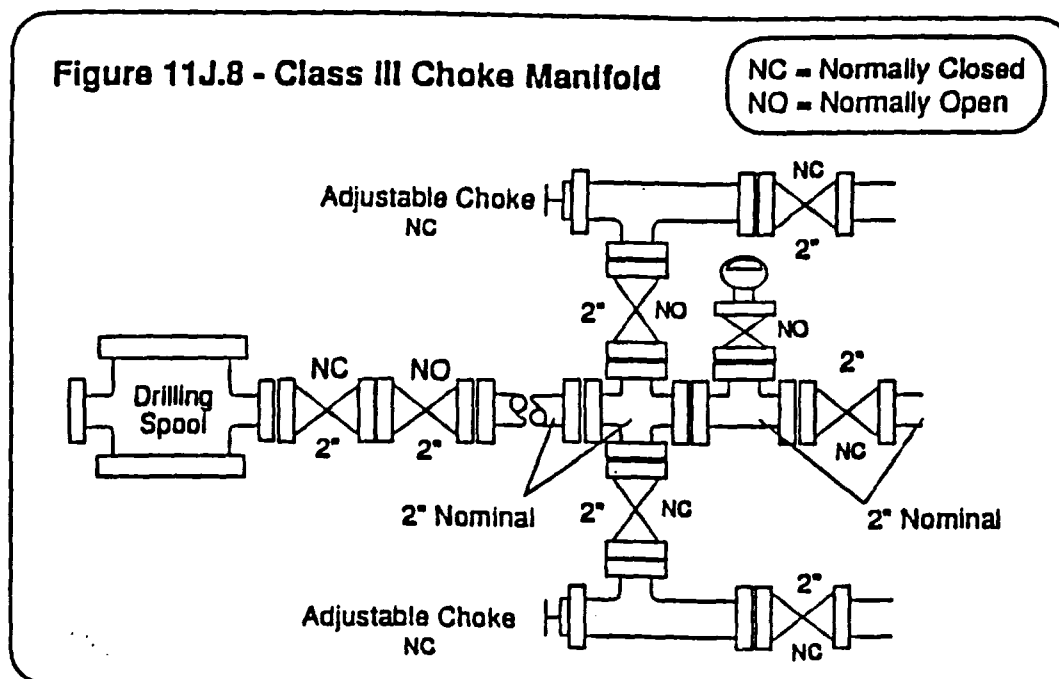
  
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Area Engineer

Plains Petroleum Operating Company

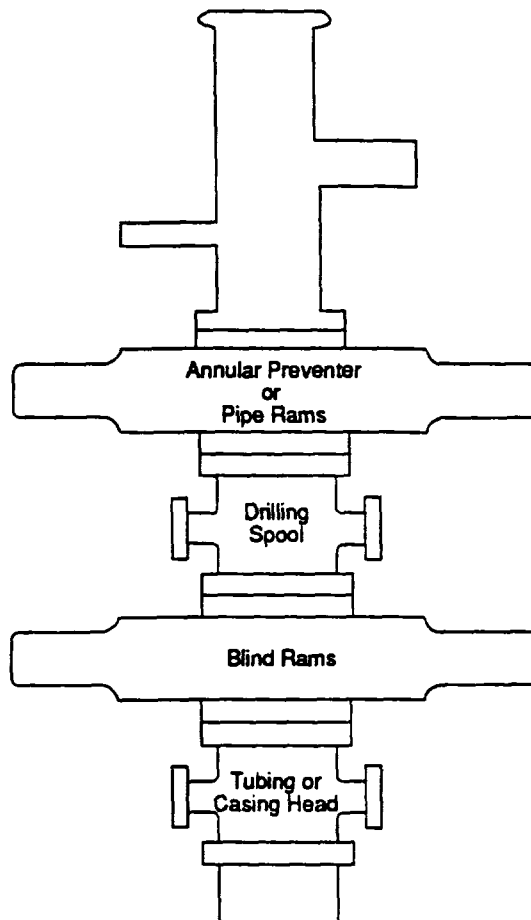
The Class III choke manifold is suitable for Class III workovers and drilling operations. The Standard Class III choke manifold is shown in Figure 11J.8 below. Specific design features of the Class III manifold include:

1. The manifold is attached to a drilling spool or the top ram preventer side outlet.
2. The minimum internal diameter is 2" (nominal) for outlets, flanges, valves and lines.
3. Includes two steel gate valves in the choke line at the drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).
4. Includes two manually adjustable chokes which are installed on both side of the manifold cross. Steel isolation gate valves are installed between both chokes and the cross, and also downstream of both chokes.
5. Includes a bleed line which runs straight through the cross and is isolated by a steel gate valve.
6. Includes a valve isolated pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.
7. Returns through the choke manifold must be divertible through a mud-gas separator and then be routed to either the shale shaker or the reserve pit through a buffer tank or manifold arrangement.
8. If the choke manifold is remote from the wellhead, a third master valve should be installed immediately upstream of the manifold cross.



## CLASS II-B BLOWOUT PREVENTER STACK:

### Class II-B Blowout Preventer Stack



The Class II-B preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a drilling spool, and a single blind ram preventer on bottom. In an alternate configuration, a single pipe ram preventer may be substituted for the annular preventer. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". An emergency kill line may be installed on the wellhead. As the maximum anticipated surface pressure of this stack is less than 3000 psi, screwed connections may be used. All components must be of steel construction. The Class II-B blowout preventer stack is shown to the left



**SENT PREVIOUSLY AND ON FILE WITH YOUR OFFICE**

CONTINGENCY PLAN FOR  
DRILLING OPERATIONS

**PLAINS PETROLEUM OPERATING COMPANY**

BAYLUS CADE LEASE  
EVA E. BLINEBRY LEASE  
E. C. HILL 'B' FEDERAL LEASE  
G. H. MATTIX LEASE

**E. C. HILL 'B' FEDERAL #13**

LEA COUNTY, NEW MEXICO

March 28, 1995



**EMERGENCY NOTIFICATION**

**PLAINS PETROLEUM OPERATING COMPANY**

415 West Wall Street  
Midland, Texas 79701  
915/683-4434

Dominic J. Bazile	Residence	915/683-0012
Rodney Long	Residence	915/524-3822

Form C-102  
Revised 02-10-94  
Instructions on back

Submit to the Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code 58900		3 Pool Name Teague, Simpson					
4 Property Code		5 Property Name E. C. HILL 'B' FEDERAL						6 Well Number 13	
7 OGRID No. 017805		8 Operator Name PLAINS PETROLEUM OPERATING COMPANY						9 Elevation 3257'	
10 SURFACE LOCATION									
UL or lot no. 0	Section 34	Township 23 SOUTH	Range 37 EAST, N.M.P.M.	Lot Ida	Feet from the 947'	North/South line SOUTH	Feet from the 1361'	East/West line EAST	County LEA
11 BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE									
UL or lot no. 0	Section 34	Township 23 SOUTH	Range 37 EAST, N.M.P.M.	Lot Ida	Feet from the 1120'	North/South line SOUTH	Feet from the 1380'	East/West line EAST	County LEA
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

## OPERATOR CERTIFICATION

*I hereby certify that the information  
contained herein is true and complete  
to the best of my knowledge and belief.*

Signature \_\_\_\_\_

Printed Name \_\_\_\_\_

Dominic J. Bazile

**Title**

Area Engineer

Date \_\_\_\_\_

March 29, 1995

### SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

~~MARCH 20~~ 1995

Signature and Seal of Professional Surveyor

V. LYNN  
BEZNER  
NO. 792

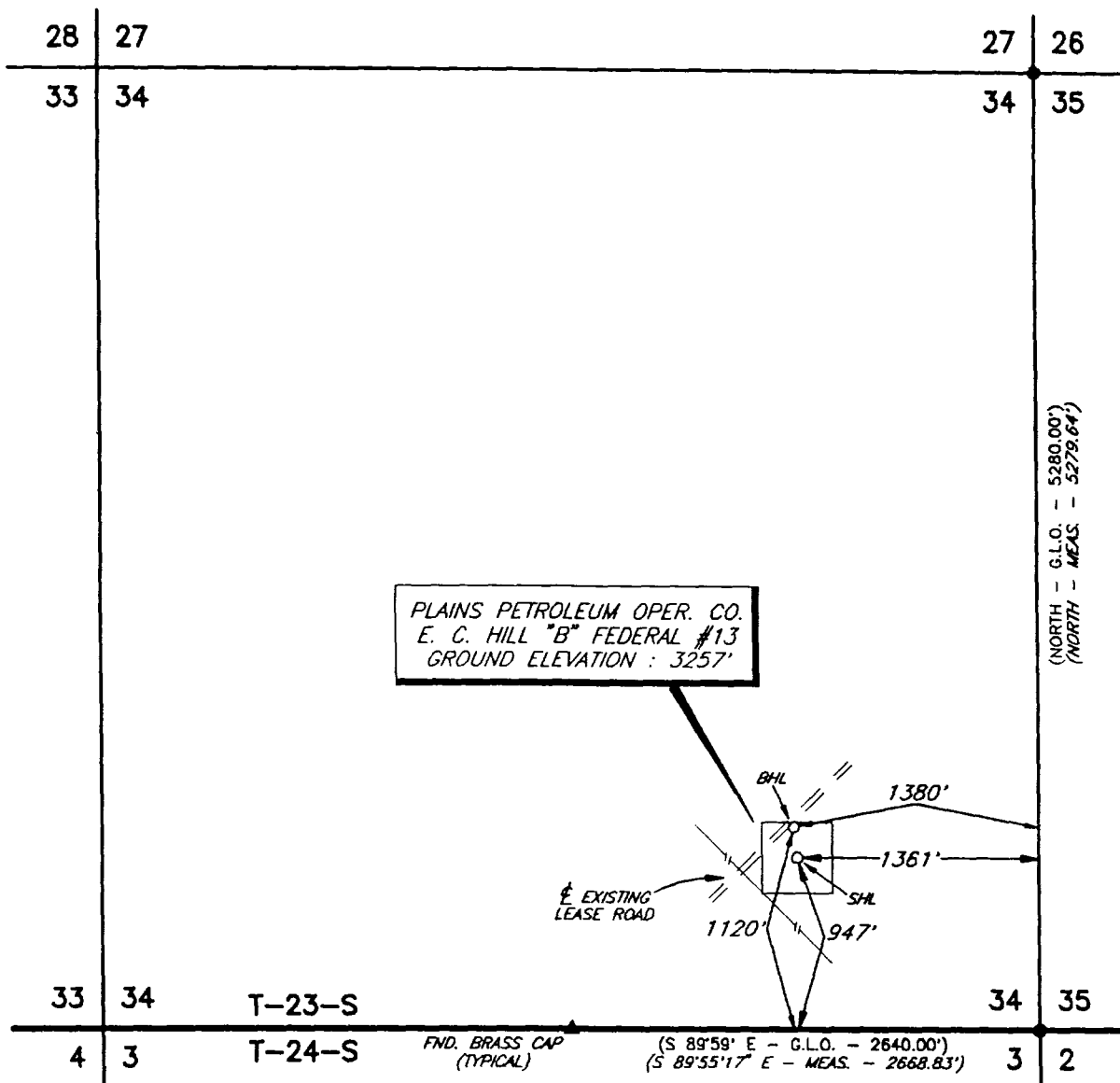
NO. 7920

~~Certified No~~

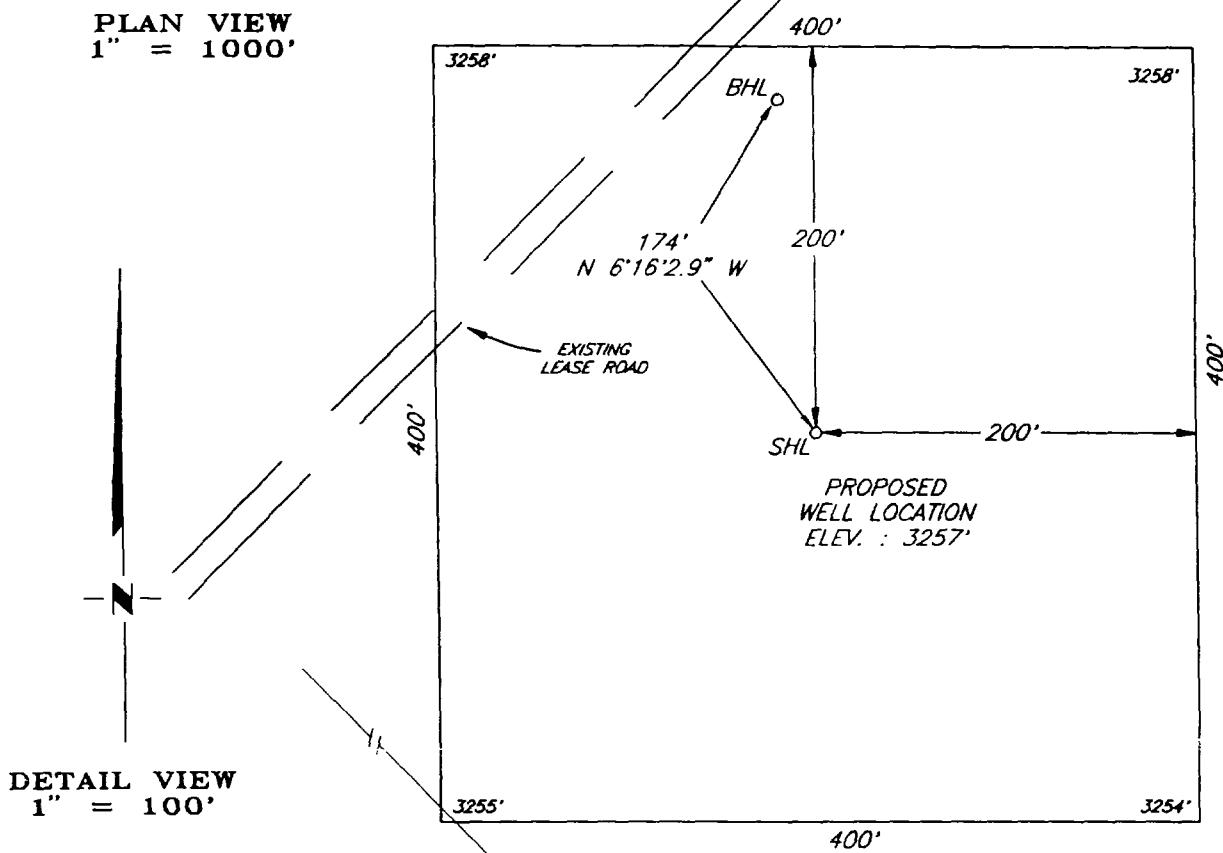
V. L. REEBBAND P.P.S. #7920

10B #38579 AE CW / 101

PLAT SHOWING PROPOSED  
WELL LOCATION AND LEASE ROAD IN  
SECTION 34, T-23-S, R-37-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO



PLAN VIEW  
1" = 1000'

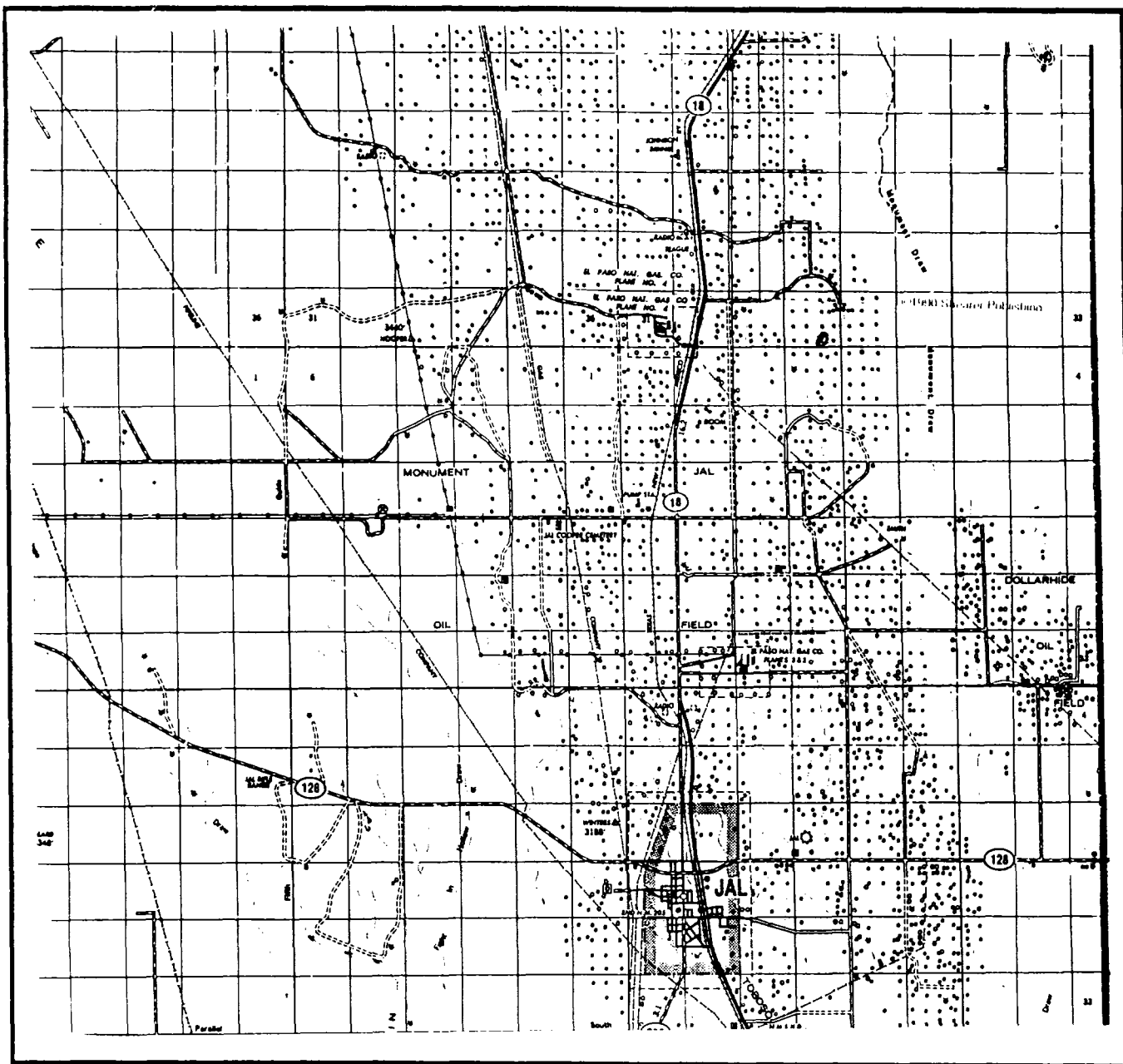


**DETAIL VIEW**  
**1" = 100'**

EXHIBIT A

				<b>PLAINS PETROLEUM OPER. CO.</b> MIDLAND, TEXAS	SCALE: AS SHOWN
1	NEW LOCATION	3/95	JSJ		DATE: MARCH 20, 1995
NO.	REVISION	DATE	BY		JOB NO.: 38572-F
SURVEYED BY: B.B. DRAWN BY: JSJ APPROVED BY: V.L.B.					45 SW SHEET : 1 OF 1
				SURVEYING AND MAPPING BY <b>TOPOGRAPHIC LAND SURVEYORS</b> MIDLAND, TEXAS	

# VICINITY MAP



SECTION 34 TWP 23-S RGE 37-E

SURVEY NEW MEXICO PRINCIPAL MERIDIAN

COUNTY LEA STATE NM

DESCRIPTION 947' FSL & 1361' FEL (SHL)

1120' FSL & 1380' FEL (BHL)

OPERATOR PLAINS PETROLEUM OPERATING CO.

LEASE E. C. HILL "B" FEDERAL #13

DISTANCE & DIRECTION FROM THE JCT. OF S.H. 128 &

S.H. 18 IN JAL, GO NORTH 11.0 MILES ON S.H. 18,

THENCE EASTERLY 2.4 MILES ON LEASE ROAD, THENCE

SOUTHEAST 0.8 MILES ON LEASE ROAD, THENCE SOUTH-

WEST 0.5 MILE ON LEASE ROAD TO A POINT  $\pm 25'$

NORTH OF THE LOCATION.



This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

Review this plot and notify us immediately of any possible discrepancy.

EXHIBIT B

## TOPOGRAPHIC LAND SURVEYORS

*Surveying & Mapping for the Oil & Gas Industry*

1307 N. HOBART  
PAMPA, TX. 79065  
(800) 658-6382

6709 N. CLASSEN BLVD.  
OKLAHOMA CITY, OK. 73116  
(800) 654-3219

2903 N. BIG SPRING  
MIDLAND, TX. 79705  
(800) 767-1653

This topographic map depicts a portion of the Texas Panhandle, specifically the area around the Texas-New Mexico border. The map is overlaid with a grid and shows various geographical features and infrastructure.

**Geographical Features and Infrastructure:**

- Contour Lines:** Elevation contours are marked with values such as 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, and 3300.
- Grid:** The map is divided into sections by a grid. Section numbers visible include 27, 28, 34, 35, and 38.
- Infrastructure:** A prominent road or pipeline runs diagonally from the bottom left towards the top right. Another road or pipeline runs horizontally across the middle of the map.
- Labels:**
  - Gravel Pits:** Located near the center of the map.
  - Gas Well 34:** Located in the lower central part of the map.
  - Oil Wells:** Several locations are labeled as "Oil Wells", including one near the top center and another near the bottom right.
  - Section Numbers:** 27, 28, 34, 35, and 38 are clearly marked.
  - Other Labels:** "Gravel Pits", "Gas Well 34", and "Oil Wells" are also present.

The map is a detailed representation of the terrain, showing the relationship between the land's elevation and the man-made infrastructure in this region of the Texas Panhandle.

NORTH OF THE LOCATION.

Review this plat and notify us immediately of any possible discrepancy.

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