

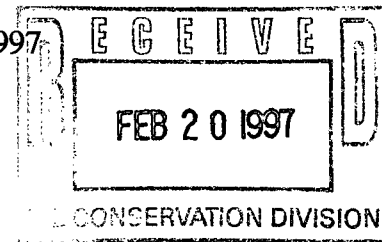
NSL 3/12/97

PLAINS PETROLEUM OPERATING COMPANY

a subsidiary of Barrett Resources Corporation



February 14, 1997



Mr. Michael Stogner
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Re: Baylus Cade Federal Lease
Lea County, New Mexico
Lease No. NM LC034711
OGRID No. 017805
Property No. 009276 - Pool No. 58300

Dear Mr. Stogner:

Plains Petroleum Operating Company respectfully requests administrative approval for Rule 104 "Unorthodox Well Locations" for the well listed below. Plains is the leasehold owner of the E/2 of Section 34, T23S, R37E and the W/2 of Section 35, T23S, R37E, Lea County, New Mexico and is therefore the only operator affected by the positioning of the wellbore within the quarter-quarter section. The No. 11 well is not closer than the required 330 feet from the lease/section boundary. BLM Form 3160-3, Application to Drill, OCD Form C-102, Well Location and Acreage Plat along with a plat/exhibit of the well's location in relation to other Blinbry wells on the Baylus Cade Federal and E. C. Hill "B" Federal lease is enclosed.

Baylus Cade Federal #11, 1724' FSL & 1584' FWL, Sec. 35 (K) T23S, R37E

Your prompt consideration for this "unorthodox well location" is respectfully requested. Should you require any further information, please contact the undersigned.

Respectfully submitted,
PLAINS PETROLEUM OPERATING COMPANY

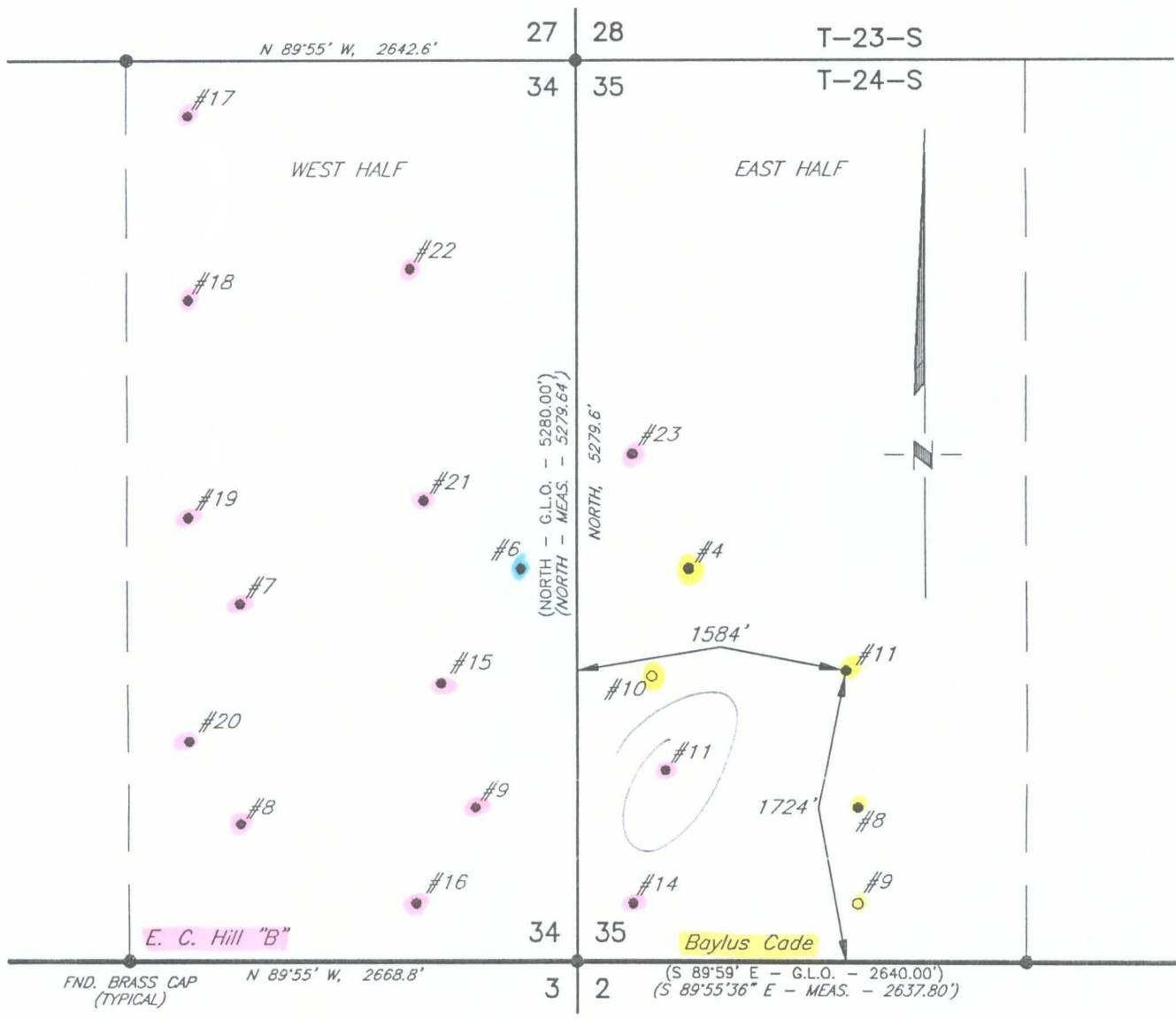
James R. Sutherland
District Manager

Enclosures

cc: Jerry Sexton - Hobbs OCD
BLM - Roswell, NM

WELL	FOOTAGES	
E. C. Hill Federal #8	800' FSL & 1980' FEL	SECTION 34
E. C. Hill Federal #9	900' FSL & 600' FEL	
E. C. Hill Federal #6	2310' FSL & 330' FEL	
E. C. Hill Federal #17	330' FNL & 2280' FEL	
E. C. Hill Federal #18	1400' FNL & 2280' FEL	
E. C. Hill Federal #22	1220' FNL & 980' FEL	
E. C. Hill Federal #21	2580' FNL & 900' FEL	
E. C. Hill Federal #19	2600' FSL & 2280' FEL	
E. C. Hill Federal #7	2110' FSL & 1980' FEL	
E. C. Hill Federal #15	1650' FSL & 800' FEL	
E. C. Hill Federal #20	1300' FSL & 2280' FEL	
E. C. Hill Federal #16	330' FSL & 950' FEL	
E. C. Hill Federal #23	2310' FNL & 330' FWL	SECTION 35
Baylus Cade Federal #4	2310' FSL & 660' FWL	
Baylus Cade Federal #10	1692' FSL & 442' FWL	
E. C. Hill Federal #11	1125' FSL & 520' FWL	
Baylus Cade Federal #8	900' FSL & 1650' FWL	
Baylus Cade Federal #9	330' FSL & 1650' FWL	
E. C. Hill Federal #14	330' FSL & 330' FWL	

see NSL - 3683



PLAINS PETROLEUM OPER. CO.

SURVEYING AND MAPPING BY
TOPOGRAPHIC LAND SURVEYORS
 MIDLAND, TEXAS

SCALE: 1" = 1000'
 DATE: 2/17/97
 JOB NO.: 50188
 45 SW
 SHEET : 1 OF 1

NO.	REVISION	DATE	BY
SURVEYED BY:			
DRAWN BY: JSJ			
APPROVED BY: R.M.R.			

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NMLC 034711		
B. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR PLAINS PETROLEUM OPERATING COMPANY			7. UNIT AGREEMENT NAME		
3. ADDRESS AND TELEPHONE NO. 415 W. Wall, Suite 1000, Midland, TX 79701 915/683-4434			8. FARM OR LEASE NAME, WELL NO. BAYLUS CADE FEDERAL # 11		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1724' FSL & 1584' FWL Unit Letter K At proposed prod. zone			9. ARWELL NO. 30-025-		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 10.6 miles Northeast of Jal, NM			10. FIELD AND POOL OR WILDCAT TEAGUE BLINEBRY		
13. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1584'		18. NO. OF ACRES IN LEASE 120	17. NO. OF ACRES ASSIGNED TO THIS WELL 40		
13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 827'		19. PROPOSED DEPTH 6000'	20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3245' GR			22. APPROX. DATE WORK WILL START* March 15, 1997		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J55	24#	1175'	630 sx circ to surface
7-7/8"	5-1/2" J55	14# & 15.5#	6000'	1550 sx circ to surf

Propose to drill this well through the Blinebry and complete as a Blinebry producer.

Mud Program: 0' - 1175' Spud Mud, FW, gel
1175' - 6000' Brine & native mud, MW 10 - 10.2 ppg to 4900'
Mud up @ 4900' with MW 10 - 10.1, MV 30-31 & WL -10 cc's to
Total Depth.
Increase MV to 34-36 for OH logs.

A 3000 psi Shaffer double hydraulic operated BOP will be used and tested at installation, drill out on each bit trip and/or DST and each time they are removed or rearranged.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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.

SIGNED James L. Sutherland TITLE District Manager DATE 2-11-97

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would enable the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

DISTRICT I
P. O. Box 1980
Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-102
Revised 02-10-94

Instructions on back

DISTRICT II
P. O. Drawer DD
Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P. O. Box 2088
Santa Fe, New Mexico 87504-2088

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

☐ AMENDED REPORT

DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

DISTRICT IV
P. O. Box 2088
Santa Fe, NM 87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-		2 Pool Code 58300		3 Pool Name TEAGUE BLINEBRY			
4 Property Code 009276		5 Property Name BAYLUS CADE FEDERAL				6 Well Number 11	
7 OGRID No. 017805		8 Operator Name PLAINS PETROLEUM OPERATING COMPANY				9 Elevation 3245'	

10 SURFACE LOCATION

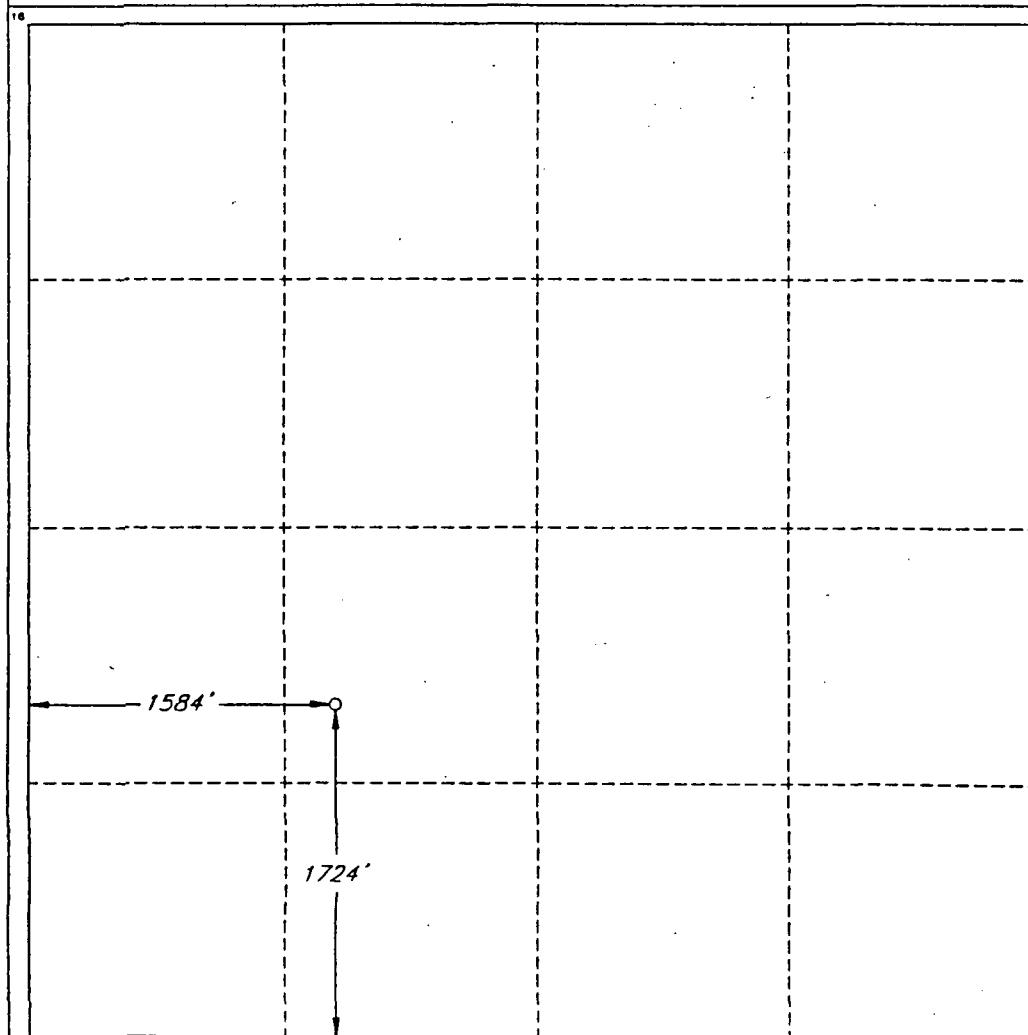
UL or lot no. K	Section 35	Township 23 SOUTH	Range 37 EAST, N.M.P.M.	Lot 1da	Feet from the 1724'	North/South line SOUTH	Feet from the 1584'	East/West line WEST	County LEA
--------------------	---------------	----------------------	----------------------------	---------	------------------------	---------------------------	------------------------	------------------------	---------------

"BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE

UL or lot no.	Section	Township	Range	Lot 1da	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

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
James R. Sutherland

Printed Name
James R. Sutherland

Title
District Manager

Date
2-12-97

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
FEBRUARY 30, 1997

Signature and Seal of
Professional Surveyor
Roger M. Robbins
12128

Certificate No. 12128
ROGER M. ROBBINS P.S. #12128
JOB #49914-3 / 45 SW / VHB

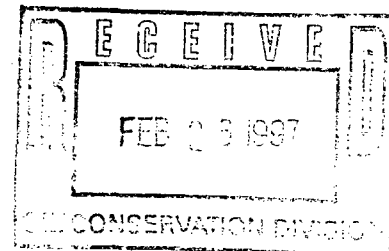
NSL

3/18/97

PLAINS PETROLEUM OPERATING COMPANY*a subsidiary of Barrett Resources Corporation*

February 12, 1997

New Mexico Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240



Re: Applications to Drill
Baylus Cade Federal #10
1692' FSL & 442' FWL (L)
Baylus Cade Federal #11
1724' FSL & 1584' FWL (K)
Sec. 35, T23S, R37E
Lea County, New Mexico
Lease No.: NMLC 034711

Dear Sirs:

We are sending you a copy of the Applications to Drill for the subject two wells for your future reference. The Applications have been submitted to the Bureau of Land Management in Roswell in addition to submitting the Baylus Cade Federal #11 to Michael Stogner at the OCD, Santa Fe for administrative approval on "unorthodox well location". Should you have any questions, please call me at (915)-683-4434.

Sincerely,

PLAINS PETROLEUM OPERATING COMPANY

James R. Sutherland
District Manager

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

B. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

PLAINS PETROLEUM OPERATING COMPANY

3. ADDRESS AND TELEPHONE NO.

415 W. Wall, Suite 1000, Midland, TX 79701 915/683-4434

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

At surface

1724' FSL & 1584' FWL Unit Letter K

At proposed prod. zone

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

10.6 miles Northeast of Jal, NM

15. DISTANCE FROM PROPOSED*

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

1584'

16. NO. OF ACRES IN LEASE

120

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.

827'

19. PROPOSED DEPTH

6000'

20. ROTARY OR CABLE TOOLS

Rotary

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

3245' GR

22. APPROX. DATE WORK WILL START*

March 15, 1997

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J55	24#	1175'	630 sx circ to surface
7-7/8"	5-1/2" J55	14# & 15.5#	6000'	1550 sx circ to surf

Propose to drill this well through the Blinebry and complete as a Blinebry producer.

Mud Program: 0' - 1175' Spud Mud, FW, gel
1175' - 6000' Brine & native mud, MW 10 - 10.2 ppg to 4900'
Mud up @ 4900' with MW 10 - 10.1, MV 30-31 & WL -10 cc's to
Total Depth.
Increase MV to 34-36 for OH logs.

A 3000 psi Shaffer double hydraulic operated BOP will be used and tested at installation, drill out on each bit
trip and/or DST and each time they are removed or rearranged.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 prevention program, if any.

24.

James L. Sutherland

District Manager

DATE 2-11-97

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would enable the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

DATE

*See Instructions On Reverse Side

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.

DISTRICT I
P. O. Box 1980
Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-102
Revised 02-10-94

Instructions on back

DISTRICT II
P. O. Drawer DD
Artesia, NM 88211-0719

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

DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

OIL CONSERVATION DIVISION

P. O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

DISTRICT IV
P. O. Box 2088
Santa Fe, NM 87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-	² Pool Code 58300	³ Pool Name TEAGUE BLINEBRY
⁴ Property Code 009276	⁵ Property Name BAYLUS CADE FEDERAL	⁶ Well Number 11
⁷ OGRID No. 017805	⁸ Operator Name PLAINS PETROLEUM OPERATING COMPANY	⁹ Elevation 3245'

¹⁰ SURFACE LOCATION

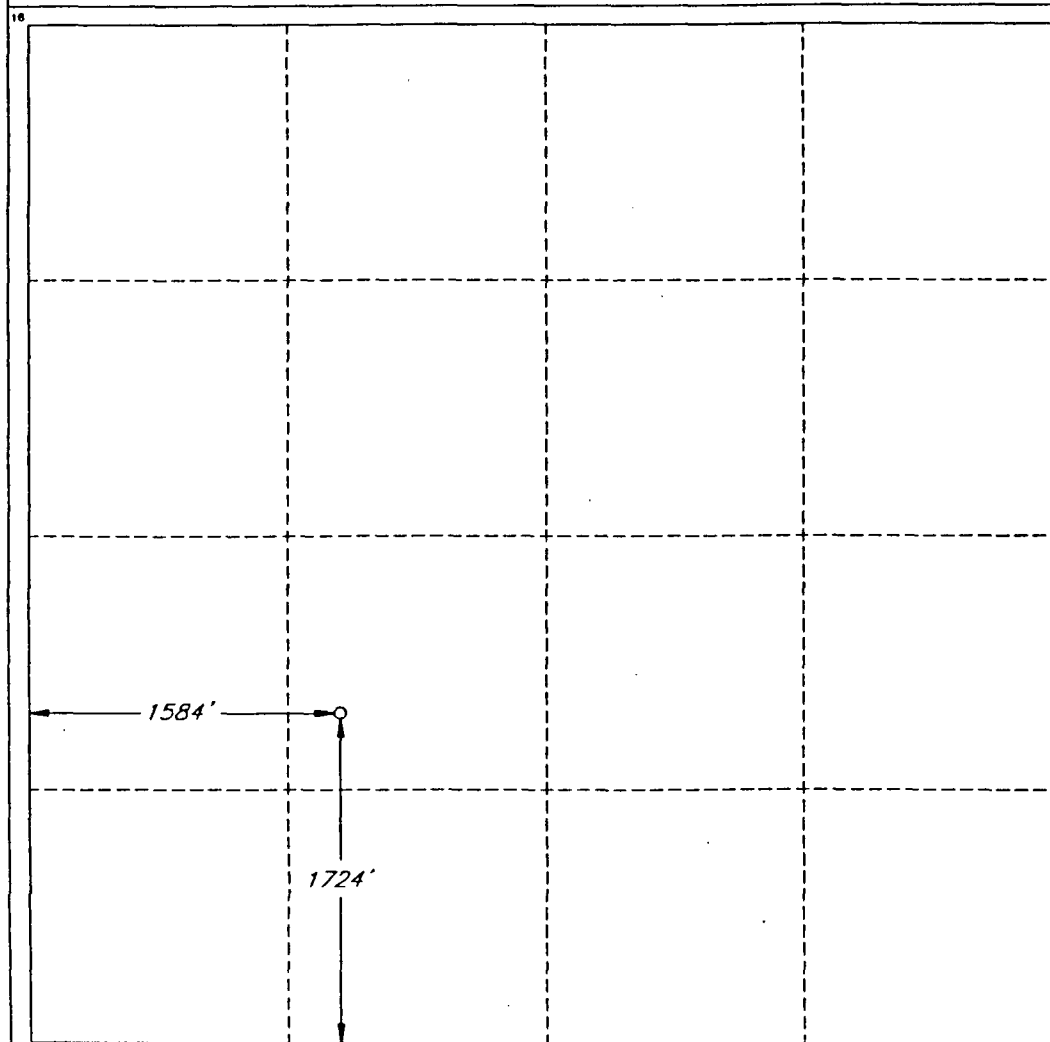
UL or lot no. K	Section 35	Township 23 SOUTH	Range 37 EAST, N.M.P.M.	Lot Ida	Feet from the 1724'	North/South line SOUTH	Feet from the 1584'	East/West line WEST	County LEA
--------------------	---------------	----------------------	----------------------------	---------	------------------------	---------------------------	------------------------	------------------------	---------------

"BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

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
James R. Sutherland

Printed Name
James R. Sutherland

Title
District Manager

Date
2-12-97

SURVEYOR CERTIFICATION

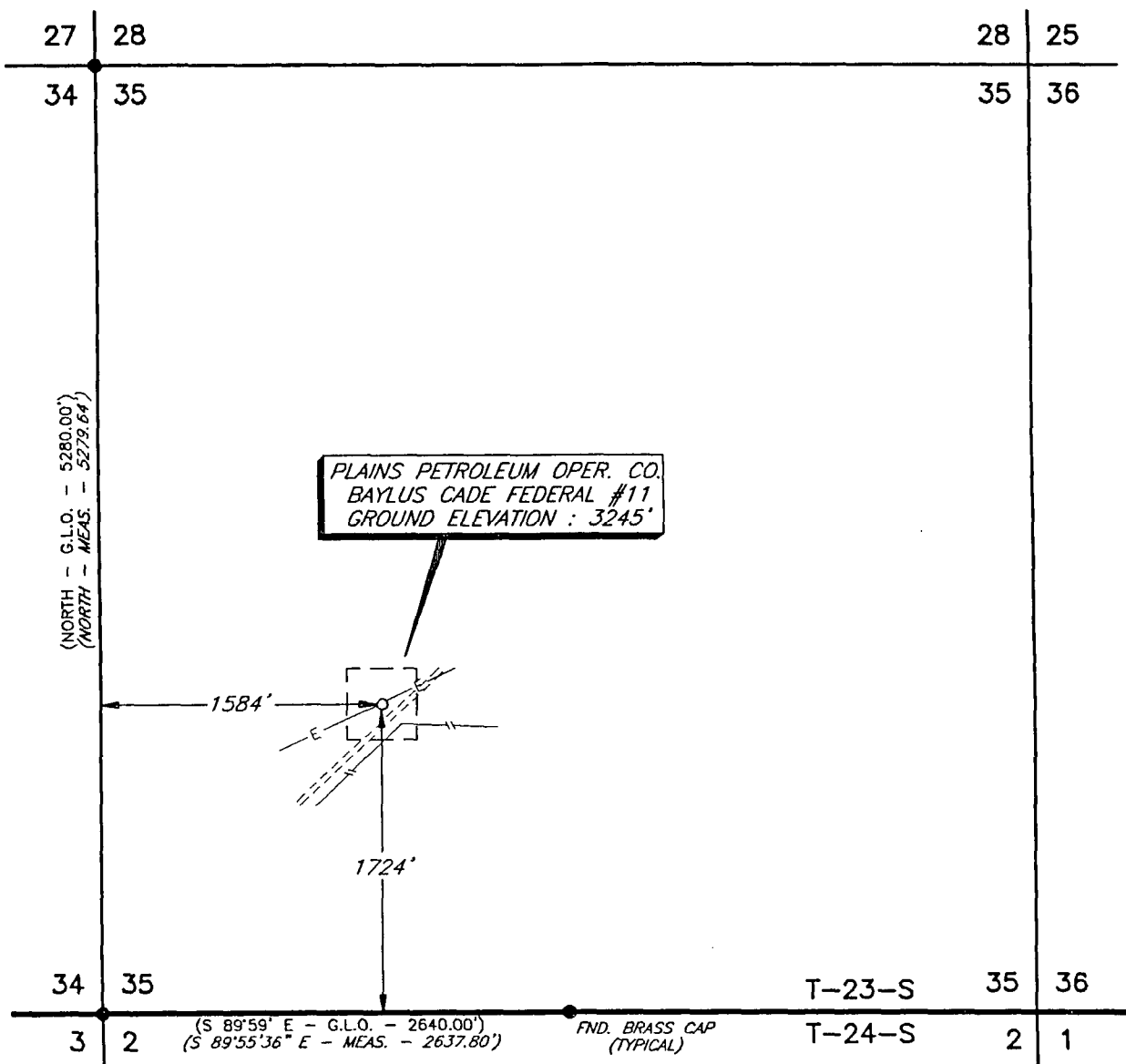
I hereby certify that the well
location shown on this plat was
plotted from field notes of actual
surveys made by me or under
my supervision, and that the
same is true and correct to the
best of my belief.

Date of Survey
FEBRUARY 5, 1997

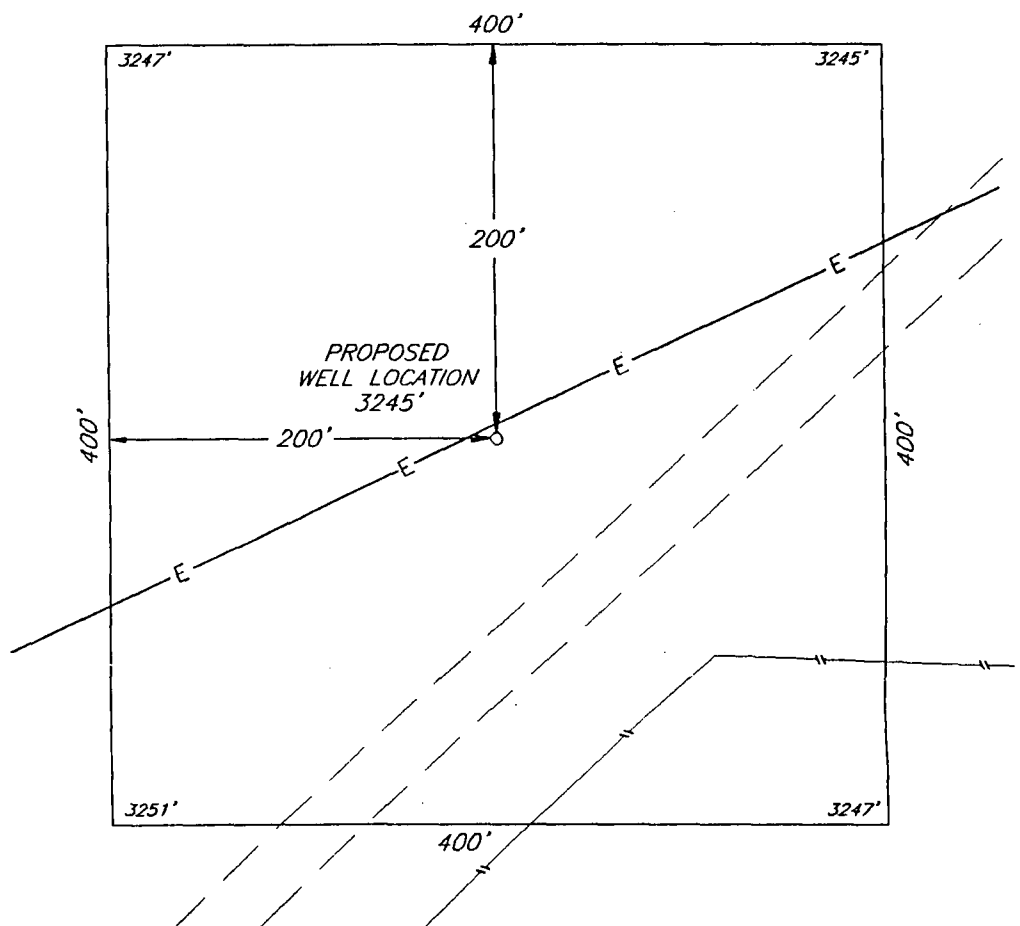
Signature and Seal of
Professional Surveyor
Roger M. Robbins
12126

Certificate No. 12126
ROGER M. ROBBINS P.S. #12126
JOB #49914-3 / 45 SW / VHB

PLAT SHOWING PROPOSED
WELL LOCATION AND LEASE ROAD IN
SECTION 35, T-23-S, R-37-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



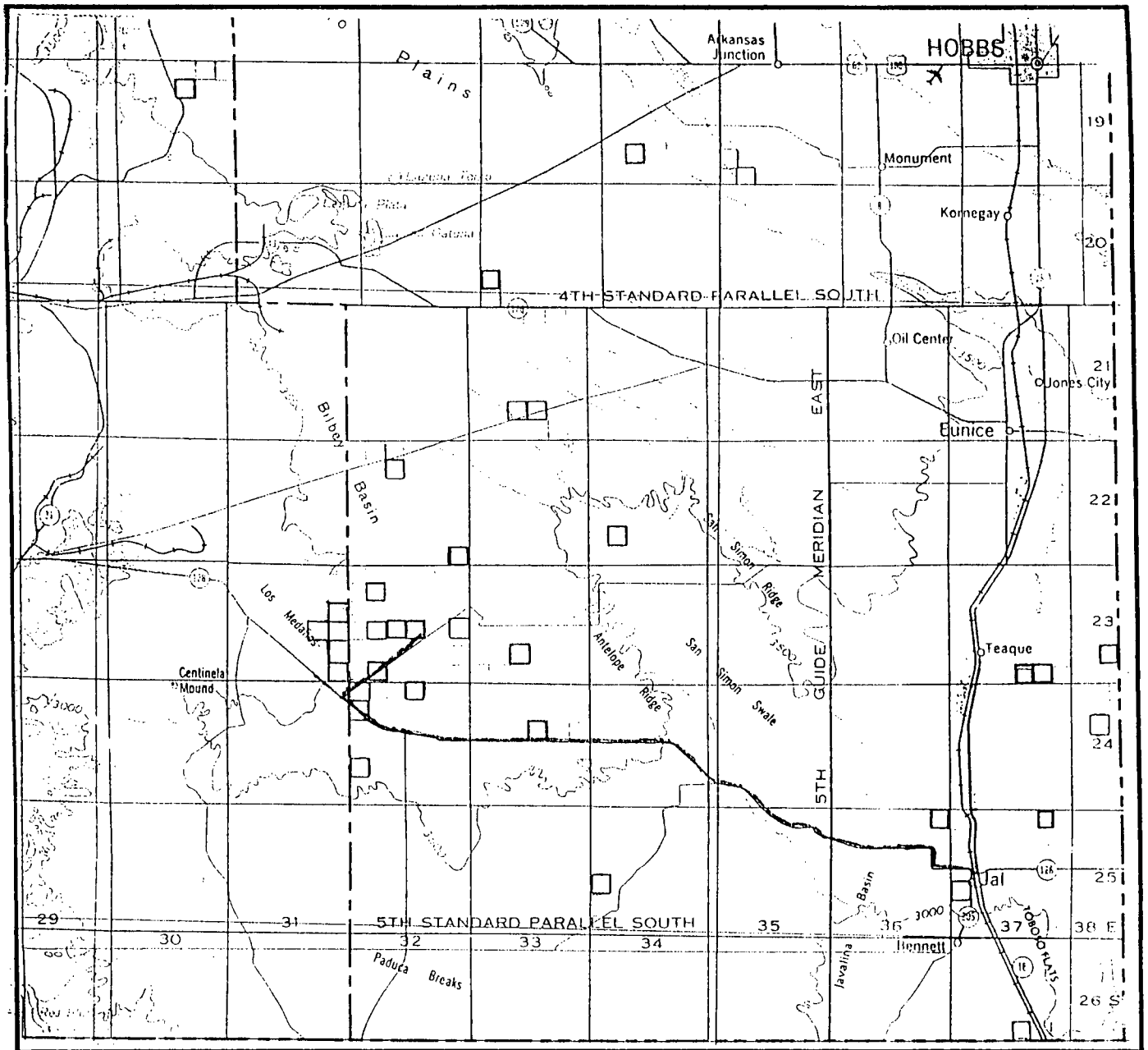
PLAN VIEW
1" = 1000'



DETAIL VIEW
1" = 100'

				PLAINS PETROLEUM OPER. CO. <i>MIDLAND, TEXAS</i>	SCALE: AS SHOWN
1	LOCATION	9-23-94	V.B.		DATE: FEBRUARY 5, 1997
NO.	REVISION	DATE	BY		JOB NO.: 49914-3F
SURVEYED BY: R.M.R.				SURVEYING AND MAPPING BY TOPOGRAPHIC LAND SURVEYORS <i>MIDLAND, TEXAS</i>	48 SW
DRAWN BY: JSJ					
PROVED BY: R.M.R.					SHEET : 1 OF 1

VICINITY MAP



SECTION 35 TWP 23-S RGE 37-E
 SURVEY NEW MEXICO PRINCIPAL MERIDIAN
 COUNTY LEA STATE NM
 DESCRIPTION 1724' FSL & 1584' FWL

OPERATOR PLAINS PETROLEUM OPERATING CO.
 LEASE BAYLUS CADE FEDERAL #11

DISTANCE & DIRECTION FROM JAL, GO NORTH 11.0 MILES
ON STATE HWY. 18, THENCE EAST 1.0 MILE, CONTINUE
NORTHEAST 0.8 MILE, CONTINUE EAST 0.6 MILE, CONTINUE
SOUTHEAST 1.1 MILE ON LEASE ROAD TO A POINT ±400'
WEST 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 plat and notify us immediately of any possible discrepancy.

TOPOGRAPHIC LAND SURVEYORS

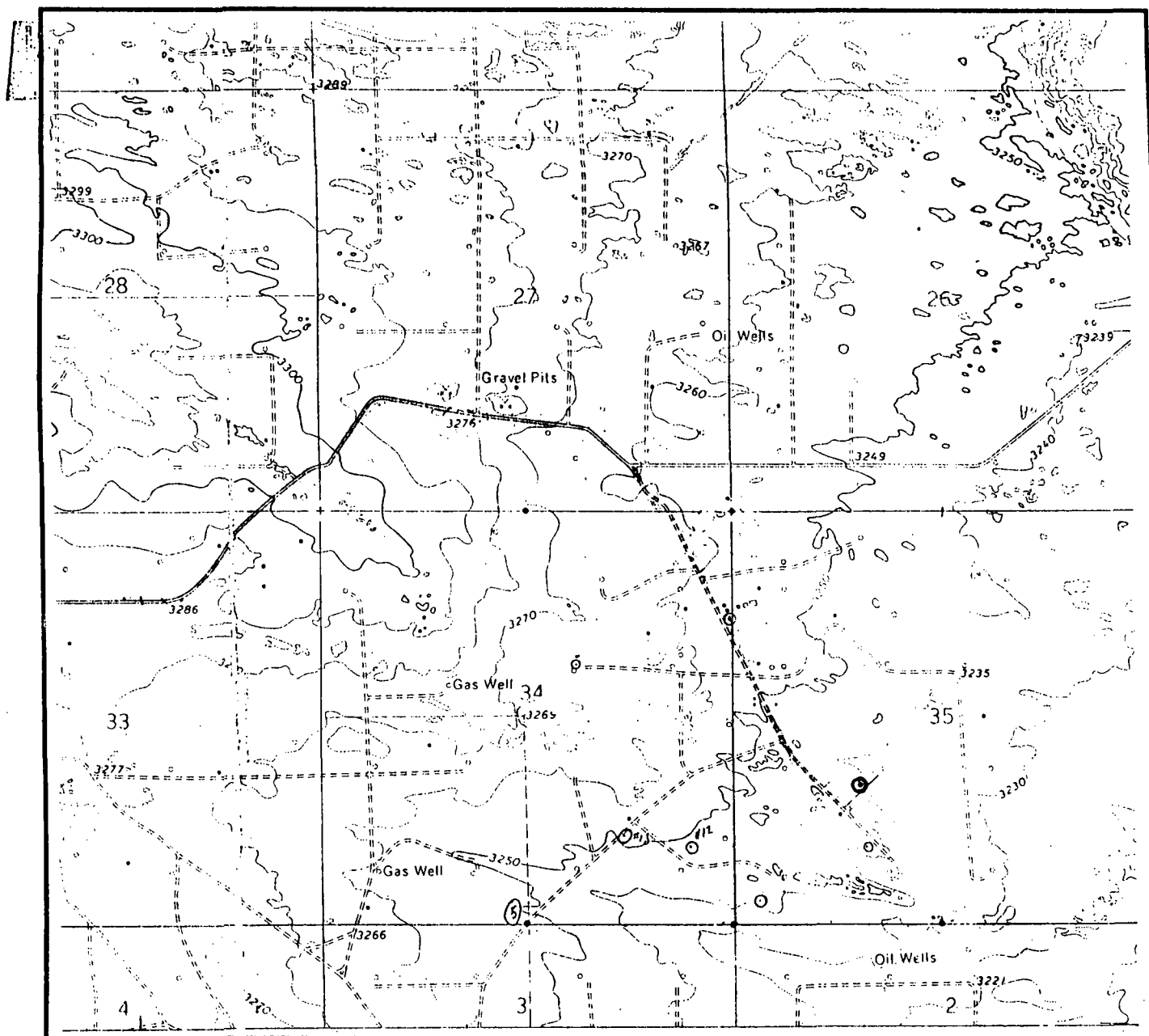
Surveying & Mapping for the Oil & Gas Industry

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

LOCATION & ELEVATION VERIFICATION MAP



SCALE : 1" = 2000'

CONTOUR INTERVAL 10'

SECTION 35 TWP 23-S RGE 37-E

SURVEY NEW MEXICO PRINCIPAL MERIDIAN

COUNTY LEA STATE NM

DESCRIPTION 1724' FSL & 1584' FWL

ELEVATION 3245'

OPERATOR PLAINS PETROLEUM OPERATING CO.

LEASE BAYLUS CADE FEDERAL #11

U.S.G.S. TOPOGRAPHIC MAP

RATTLESNAKE CANYON, NEW MEXICO

SCALED LAT. N 32°15'29"

LONG. W 103°08'12"



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 plat and notify us immediately of any possible discrepancy.

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

APPLICATION TO DRILL

PLAINS PETROLEUM OPERATING COMPANY
BAYLUS CADE FEDERAL #11
1724' FSL & 1584' FWL
Sec. 35 (Unit Letter K), T23S, R37E
Lea County, New Mexico
Lease No. NMLC 034711
February 12, 1997

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: 3245'

KB: 3257'

<u>FORMATION</u>	<u>TOP</u>	<u>SS</u>
Penrose	3407'	-150'
Glorieta	4907'	-1650'
Paddock	5025'	-1768'
Blinebry	5253'	-1996'
Tubb	5929'	-2672'
TD	6000'	-2743'

Baylus Cade Federal #11
 Lease No. NMLC034711
 February 12, 1997
 Page 2

2. CASING DETAIL

	CASING SIZE OD	INTERVAL	LENGTH OF INTERVAL	WEIGHT #/FT	INTERVAL WEIGHT	CASING GRADE	JOINT
Surface	8-5/8"	0' - 1175'	1175'	24#/ft	28,200#	J-55	ST&C
Production	5-1/2"	6000'-5200'	800'	15.5#/ft	12,400#	J-55	LT&C
		5200' - 0'	5200'	14#/ft	72,800#	J-55	ST&C
Tubing	2-3/8"	0 - 5250'	5250'	4.7#/ft	24,675#	J-55	EUE

3. CEMENTING & FLOAT EQUIPMENT DETAIL

WELL DATA	SURFACE	PRODUCTION (TD 6000')
Depth	1175'	6000'
Casing Size	8-5/8"	5-1/2"
Hole Size	12-1/4"	7-7/8"
Desired Fill	Surface	4825', surface
Hole Volume	485 Ft ³	226 Ft ³ , 836 Ft ³
Recommended Volume	996 Ft ³	2778 Ft ³ , 3004 Ft ³
DV Tool Depth	N/A	4400'

SLURRY

	Surface	Production 1st Stage	Production 2nd Stage
Recommendation	Lead w/380 sx Premium Plus w/4% gel, 2% CaCl ₂ + 1/4#/sk Flocele, Tail in w/250 sx Premium Plus w/2% CaCl ₂ & 1/8#/sk Flocele	Lead: 380 sx Premium 50:50 Poz cement w/ 0.6% Halad 9 & 2.5#/sk salt.	Lead 910 sx Premium Plus cement w/0.25% CFR- 3, 1/4#/sk Flocele, 2.5% Econolite, 1/4#/sk D-Air & 0.5% Halad 9. Tail in w/260 sx Premium 50:50 Poz cement w/0.6% Halad 9 & 2.5#/sk salt.
Yield	Lead: 1.74 ft ³ /sk Tail: 1.34 ft ³ /sk	1.31 Ft ³ /sx,	Lead: 2.38 ft ³ /sx, Tail: 1.31 ft ³ /sx
Weight	Lead: 13.5 PPG Tail: 14.8 PPG	14.2 PPG	Lead: 12 PPG Tail: 14.2 PPG
Mix Water	Lead: 9.10 gal/sk Tail: 6.31 gal/sk	6.05 gal/sk	Lead: 10.81 gal/sk Tail: 6.05 gal/sk

4. MUD DETAIL

<u>DEPTH</u>	<u>PROPERTIES</u>	<u>TREATMENT</u>
0 -1175'	Weight: 8.4 - 8.6 Viscosity: 34-36 pH 9-10	Spud Mud: Fresh water gel with sufficient viscosity to clean hole.
1175'-4900'	Weight: 10.0 - 10.2 Vis 28-29 pH 9-10	Drill out from surface csg with brine water, circulating to reserve pits. Build chlorides naturally while drilling salt stringers. Use lime to control pH and starch with gel sweeps to clean hole prior to mud up.
4900'-6000'	Weight 10-10.1 Viscosity 30-31 pH 9-10, WL <10	Mud up in steel pits. Lower hardness to 400 ppm with soda ash. Mix starch to control WL/filtrate and caustic soda for pH. Use paper for seepage. Viscosity will be sufficient with additions of starch only.

PRESSURE CONTROL EQUIPMENT (BOPE) DETAIL

11" API Shaffer 3000# series 900 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, after each bit trip 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-SGR

Baylus Cade Federal #11
Lease No. NMLC034711
February 12, 1997
Page 5

7. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are anticipated. Hydrogen sulfide Drilling Contingency Plan to be adhered to while drilling this well and was previously filed with the Baylus Cade #7 APD on 9-25-96.

8. ANTICIPATED START DATE:

March 11, 1997 and the well to be completed on or about March 25, 1997

SURFACE USE AND OPERATION PLAN
PLAINS PETROLEUM OPERATING COMPANY
BAYLUS CADE FEDERAL #11
1724' FSL & 1584' FWL
Sec. 35 (K) T23S, R37E
Lea County, New Mexico
Lease No.NMLC034711
February 12, 1997

I. Existing Roads:

- A. Exhibit B is a plat showing the proposed wellsite as staked, approximately 10.6 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 existing access road to the Baylus Cade Federal #6 well will be used, no new construction will be needed to the proposed wellsite.
- B. Roads are 12 ft wide and constructed of caliche.
- C. 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

BAYLUS CADE FEDERAL #11

Lea County, New Mexico

Lease No. NMLC034711

February 12, 1997

Page 2

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 will be collected and held while rig is on location in a closed trash trailer and will be removed from the lease to a disposal facility following completion of the well..

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.

SURFACE USE AND OPERATION PLAN

Plains Petroleum Operating Company

BAYLUS CADE FEDERAL #11

Lea County, New Mexico

Lease No. NMLC034711

February 12, 1997

Page 3

- C. The reserve pit will be backfilled and leveled and the surface returned to its original contour.

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 solid 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. The archaeological surveyor does not recommend movement of this staked location -no cultural resources or archaeological sites present.

XII. Company Representative:

James R. Sutherland
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

BAYLUS CADE FEDERAL #11

Lea County, New Mexico

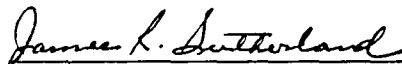
Lease No. NMLC034711

February 12, 1997

Page 4

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.



District Manager

Plains Petroleum Operating Company

SURFACE USE AND OPERATION PLAN

Plains Petroleum Operating Company

BAYLUS CADE FEDERAL #11

Lea County, New Mexico

Lease No. NMLC034711

February 12, 1997

Page 5

EMERGENCY NOTIFICATION

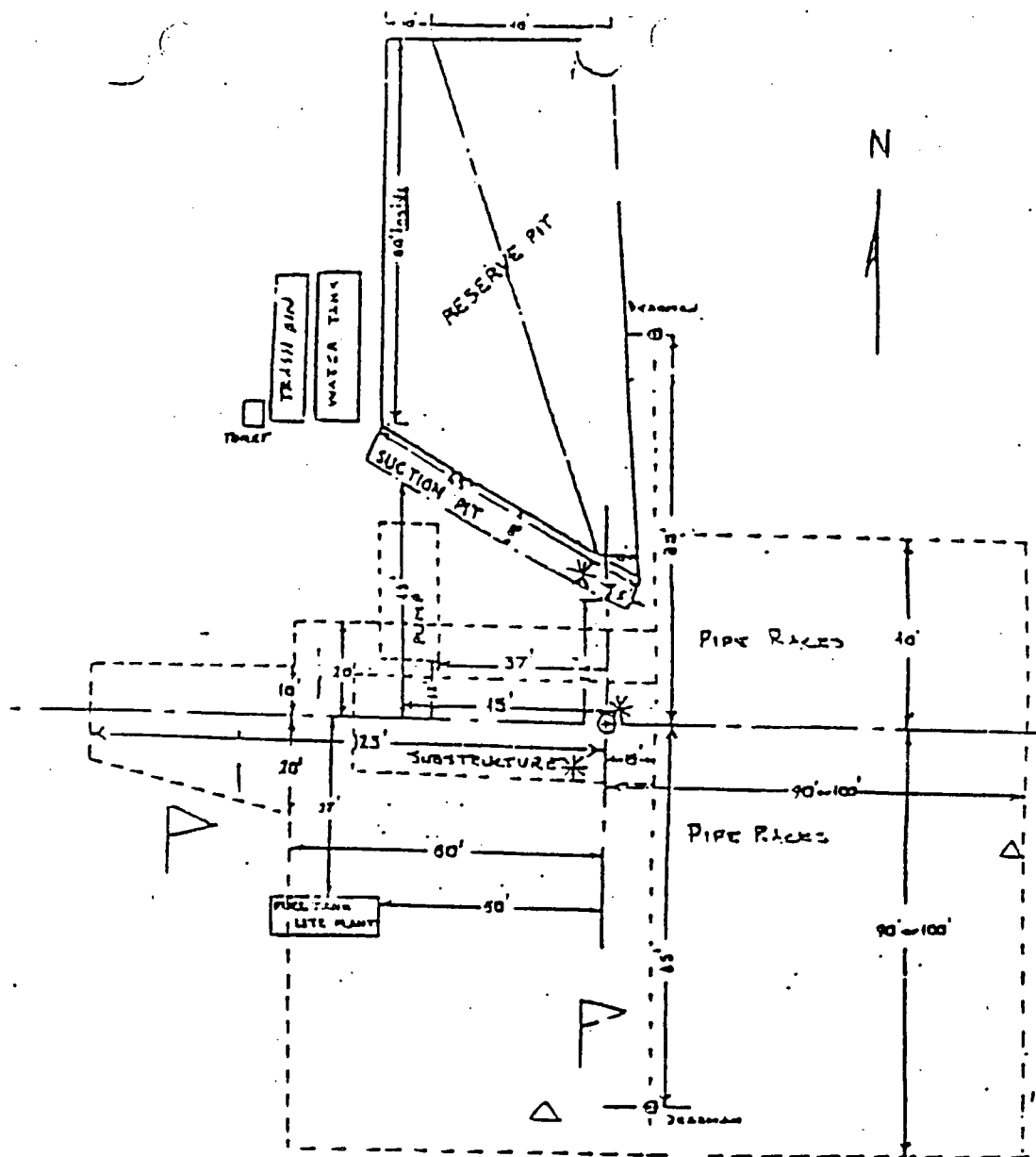
PLAINS PETROLEUM OPERATING COMPANY

415 West Wall Street, Suite 1000

Midland, Texas 79701

915/683-4434

Jim Sutherland	Residence	915/683-3519	
	Cellular	915/528-3600	
	Mobile	505/395-3555	Overdial 02127
Rodney Long	Residence	915/524-3822	
	Cellular	915/528-2066	
Steve Owen	Residence	915/683-4325	
	Mobile	505/395-3555	Overdial 02126



A - WIND DIRECTION INDICATORS

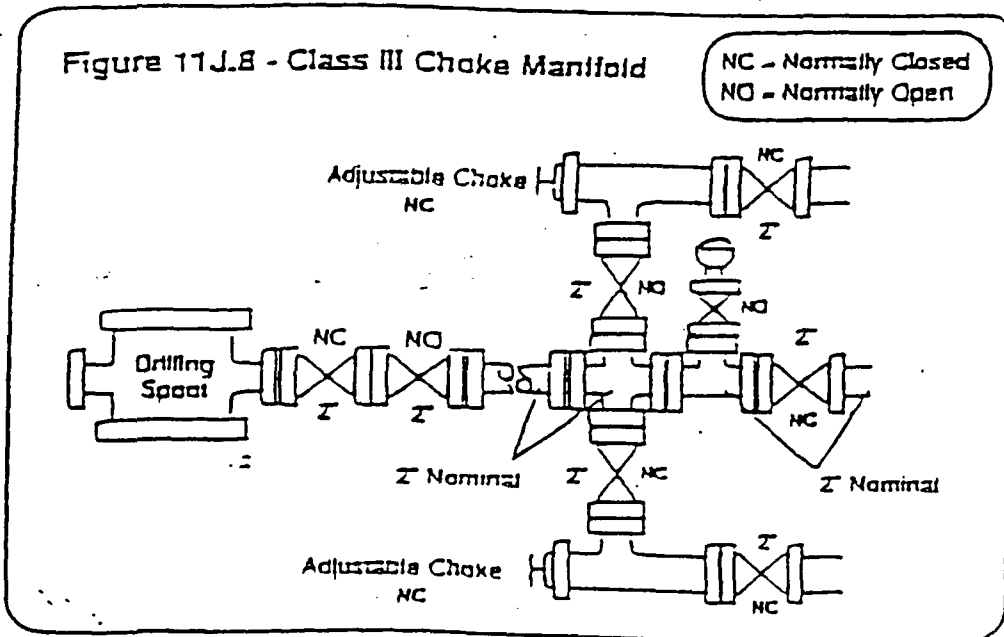
△ - SAFE BRIEFING AREAS

* - H₂S ALARM SENSORS

EXHIBIT 'A'

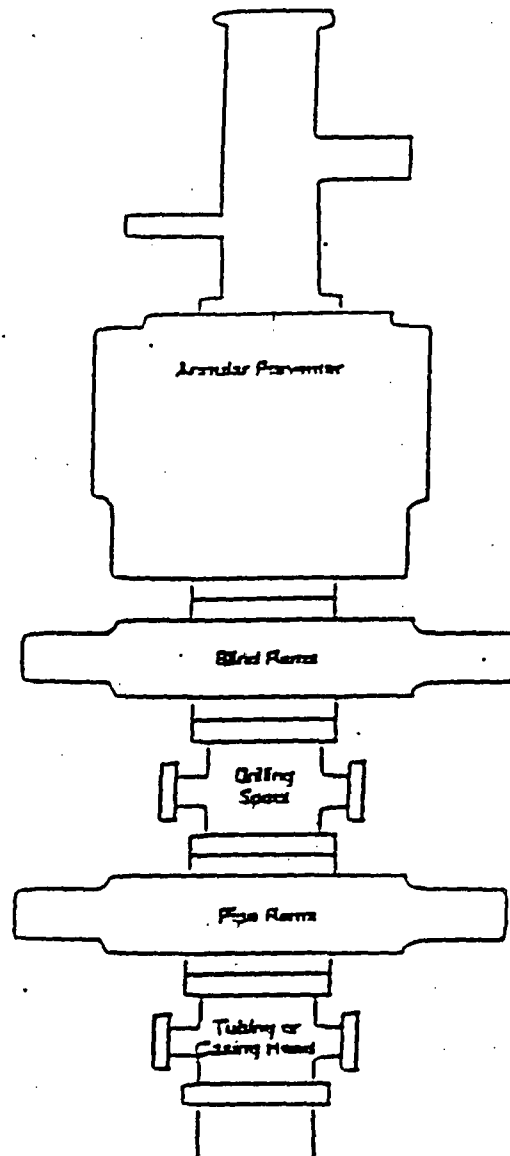
The Class III choke manifold is suitable for Class III workovers and drilling operations. The Standard Class III choke manifold is shown in Figure 11J.8 below. Specific design features of the Class III manifold include:

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 butt 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.



The Class III preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a blind ram preventer, a drilling spool, and a single pipe ram preventer on bottom. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". All side outlets on the preventers or drilling spool must be flanged, mudded, or clamped. An emergency kill line may be installed on the wellhead. A double ram preventer should only be used when space limitations make it necessary to remove the drilling spool. In these instances, the choke manifold should be connected to a flanged outlet between the preventer rams only. In this hookup, the pipe rams are considered master rams only, and cannot be used to routinely shut in a well. The Class III blowout preventer stack is shown to the right in Figure 11J.4.

Figure 11J.4
Class III Blowout Preventer Stack



OGRID Identifier

:

17805 PLAINS PETROLEUM OPER CO

Prop Identifier

:

9276 BAYLUS CADE FEDERAL

API Well Identifier

:

30 25 10960

Well No : 002

Surface Locn - UL

:

K

Sec : 35 Twp : 23S Range : 37E Lot Idn :

Multiple comp (S/M/C)

:

S

TVD Depth (Feet) : 99999

MVD Depth (Feet):

Spud Date

:

P/A Date :

Casing/Linear Record:

S Size	Grade Weight	Depth(ft)	Depth(ft)	Hole Size	Cement	----	TOC	----
(inches)	(lb/ft)	Top-Liner	Bot-Liner	(inches)	(Sacks)	(feet)	Code	
-----	-----	-----	-----	-----	-----	-----	-----	-----
99.000	99.0	99999.0	99999.0	99.000	9999	99999	C	

E0009: Enter data to modify record

PF01 HELP

PF02

PF03 EXIT

PF04 GoTo

PF05

PF06 CONFIRM

PF07

PF08

PF09 COMMENT

PF10 TLOG

PF11

PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

03/13/97 11:05:06
OGOMES -EMD1

API Well No : 30 25 32720 Eff Date : 06-11-1995 WC Status : A
Pool Idn : 58900 TEAGUE;SIMPSON
OGRID Idn : 17805 PLAINS PETROLEUM OPER CO
Prop Idn : 9276 BAYLUS CADE FEDERAL

Well No : 006
GL Elevation: 3246

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn : K	35	23S	37E	FTG 1706	F S	FTG 1740	F W A

Lot Identifier:

Dedicated Acre: 40.00

Lease Type : F

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

03/13/97 11:04:24
OGOMES -EMD1

API Well No : 30 25 10960 Eff Date : 01-01-1900 WC Status : A
Pool Idn : 37240 LANGLIE MATTIX;7 RVRS-Q-GRAYBURG
OGRID Idn : 17805 PLAINS PETROLEUM OPER CO
Prop Idn : 9276 BAYLUS CADE FEDERAL

Well No : 002
GL Elevation: 99999

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: K	35	23S	37E	FTG 999 F S	FTG 999 F E	P

Lot Identifier:

Dedicated Acre: 40.00

Lease Type : F

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

OGRID Identifier : 17805 PLAINS PETROLEUM OPER CO

Prop Identifier : 9276 BAYLUS CADE FEDERAL

API Well Identifier : 30 25 32720

Well No : 6

Surface Locn - UL : K Sec : 35 Twp : 23S Range : 37E Lot Idn :

Multiple comp (S/M/C): S TVD Depth (Feet) : 9926 MVD Depth (Feet): 9926

Spud Date : 04-11-1995 P/A Date :

Casing/Linear Record:

S Size (inches)	Grade Weight (lb/ft)	Depth(ft) Top-Liner	Depth(ft) Bot-Liner	Hole Size (inches)	Cement (Sacks)	TOC (feet)	Code
13.375	48.0	0.0	368.0	17.500	375		C
8.625	32.0	0.0	3000.0	11.000	825		C
5.500	17.0	0.0	9904.0	7.875	1625		C

E0009: Enter data to modify record

PF01 HELP

PF02

PF03 EXIT

PF04 GoTo

PF05

PF06 CONFIRM

PF07

PF08

PF09 COMMENT

PF10 TLOG

PF11

PF12



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

July 18, 1994

Plains Petroleum Operating Company
415 West Wall Street, Suite 1000
Midland, TX 79701

Attention: Dominic J. Bazile

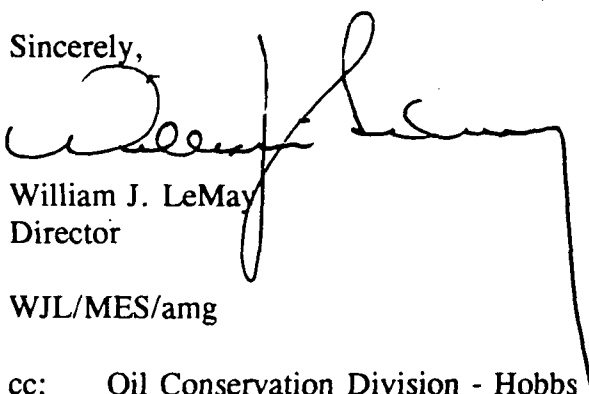
Amended Administrative Order NSL-3399

Dear Mr. Bazile:

Reference is made to your application dated April 19, 1994, for a non-standard oil well location for your E.C. Hill "B" Federal Well No. 11 to be drilled 1125 feet from the South line and 520 feet from the West line (Unit M) of Section 35, Township 23 South, Range 37 East, NMPM, Teague-Devonian Pool, Lea County, New Mexico. The SW/4 SW/4 of said Section 35 shall be dedicated to the well forming a standard 40-acre oil spacing and proration unit.

By the authority granted me under the provisions of General Rule 104.F(1) the above-described unorthodox oil well location is hereby approved.

Sincerely,


William J. LeMay
Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs
US Bureau of Land Management - Carlsbad



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

June 25, 1996

Plains Petroleum Operating Company
415 West Wall Street - Suite 1000
Midland, Texas 79701
Attention: Stephen D. Owen

Administrative Order NSL-3683

Dear Mr. Owen:

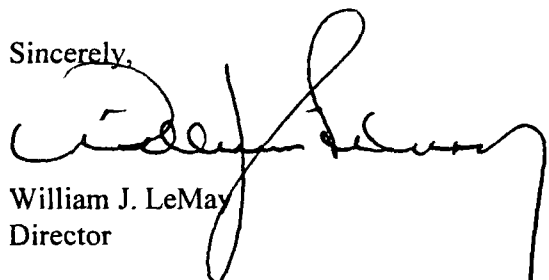
Reference is made to your application dated June 18, 1996 for the following five unorthodox Blinebry "infill" oil well locations within Plains Petroleum's E. C. Hill "B" Federal lease comprising the E/2 of Section 34, Township 23 South, Range 37 East, NMPM, Teague-Blinebry Pool, Lea County, New Mexico:

Well No.	Footage Location	Unit	Dedicated 40-Acre Tract
18	1400' FNL & 2280' FEL	G	SW/4 NE/4
19	2600' FSL & 2280' FEL	J	NW/4 SE/4
20	1300' FSL & 2280' FEL	O	SW/4 SE/4
21	2580' FNL & 900' FEL	H	SE/4 NE/4
22	1220' FNL & 980' FEL	A	NE/4 NE/4

The application has been duly filed under the provisions of Rule 104.F of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10533, issued by the Oil Conservation Commission in Case 11,351 on January 18, 1996.

By the authority granted me under the provisions of Division General Rule 104.F(2), the above-described unorthodox infill oil well locations are hereby approved.

Sincerely,


William J. LeMay
Director

WJL/MES/kv

cc: Oil Conservation Division - Hobbs
U. S. Bureau of Land Management - Carlsbad



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

June 8, 1994

Plains Petroleum Operating Company
415 West Wall Street, Suite 1000
Midland, TX 79701

Attention: Dominic J. Bazile

Administrative Order NSL-3399

Dear Mr. Bazile:

Reference is made to your application dated April 19, 1994, for a non-standard oil well location for your E.C. Hill "B" Federal Well No. 10 to be drilled 1125 feet from the South line and 520 feet from the West line (Unit M) of Section 35, Township 23 South, Range 37 East, NMPM, Teague-Devonian Pool, Lea County, New Mexico. The SW/4 SW/4 of said Section 35 shall be dedicated to the well forming a standard 40-acre oil spacing and proration unit.

By the authority granted me under the provisions of General Rule 104.F(1) the above-described unorthodox oil well location is hereby approved.

Sincerely,

William J. LeMay
Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs
US Bureau of Land Management - Carlsbad