Form 3160-3
(November 1983)
(formerly 9-331C)

N.M. OIL CONS. COMMISSION
1980
NEW MEXICO

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [XX] 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, TX 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: Unit K, 2000' FSL & 1700' FWL
At proposed prod. zone (SJS)

5. LEASE DESIGNATION AND SERIAL NO.: LC 034711

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Baylus Cade Federal

9. WELL NO.: #6

10. FIELD AND POOL, OR WILDCAT: Teague Simpson

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 35, T23S, R37E

12. COUNTY OR PARISH: Lea | 13. STATE: NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 10.3 Miles NE of Jal, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1700'

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.: 300'

19. PROPOSED DEPTH: 9700'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3246' GL

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
12-1/4" (SJS)	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	9700'	925 sx circ (TIE BACK)

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'	-	9700'	Fresh water gel 8.6 - 9.2 ppg, vis 28-35 (SJS)

We plan to use a 5000 psi Shaffer double, hydraulic-operated BOP w/annular 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 November25, 1994 and December 20, 1994, respectively. Attached is an H_2S 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.

OPER. OGRID NO. 17805
PROPERTY NO. 15139
POOL CODE 58900
EFF. DATE 10/28/94
API NO. 30-025-32720

24.
SIGNED [signature] TITLE Area Engineer DATE 09/28/94

(This space for Federal or State office use)

PERMIT NO. ______ APPROVAL DATE ______

APPROVED BY (ORIG. SGD.) RICHARD L. MANUS TITLE AREA MANAGER DATE 10-25-94

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL OF THIS APPLICATION DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WHICH WOULD ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

*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.

Form 3160-5
November 1983)
Formerly 9-331)

UNITE STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: LC-064118

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

OIL WELL ☐ GAS WELL ☐ OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Plains Petroleum Operating Company

8. FARM OR LEASE NAME: Baylus Cade Federal

3. ADDRESS OF OPERATOR: 415 West Wall, Suite 1000, Midland, TX 79701

9. WELL NO.: #6

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

Unit K, 2000' FSL & 1700' FWL

10. FIELD AND POOL, OR WILDCAT: Teague Simpson

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 35, T23S, R37E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3246'GR

12. COUNTY OR PARISH: Lea

13. STATE: NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other)	☐			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

Revision of previously submitted Application to Drill dated 9/19/94.

The revision is made to the location of the well. The previously submitted plat was for an alternative location (2075' FSL & 1700' FWL) based on existing power lines. Due to geological requirements it is necessary to move the location south by 75'. The power lines will now be moved and the requested location of the well is:

2000' FSL & 1700' FWL, Sec 35, T23S, R37E.

The archeological study performed on the new location is submitted for record with this Sundry Notice.

RECEIVED
SEP 30 10 42 AM '94
CARLSBAD AREA OFFICE

I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Area Engineer DATE September 29, 1994

(This space for Federal or State office use)

APPROVED BY _____ TITLE AREA MANAGER DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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

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

DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
	58900	Teague, Simpson

4 Property Code	5 Property Name	6 Well Number
	BAYLUS CADE FEDERAL	6

7 OGRID No.	8 Operator Name	9 Elevation
017805	PLAINS PETROLEUM OPERATING COMPANY	3246'

10 SURFACE LOCATION

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	35	23 SOUTH	37 EAST, N.M.P.M.		2000'	SOUTH	1700'	WEST	LEA

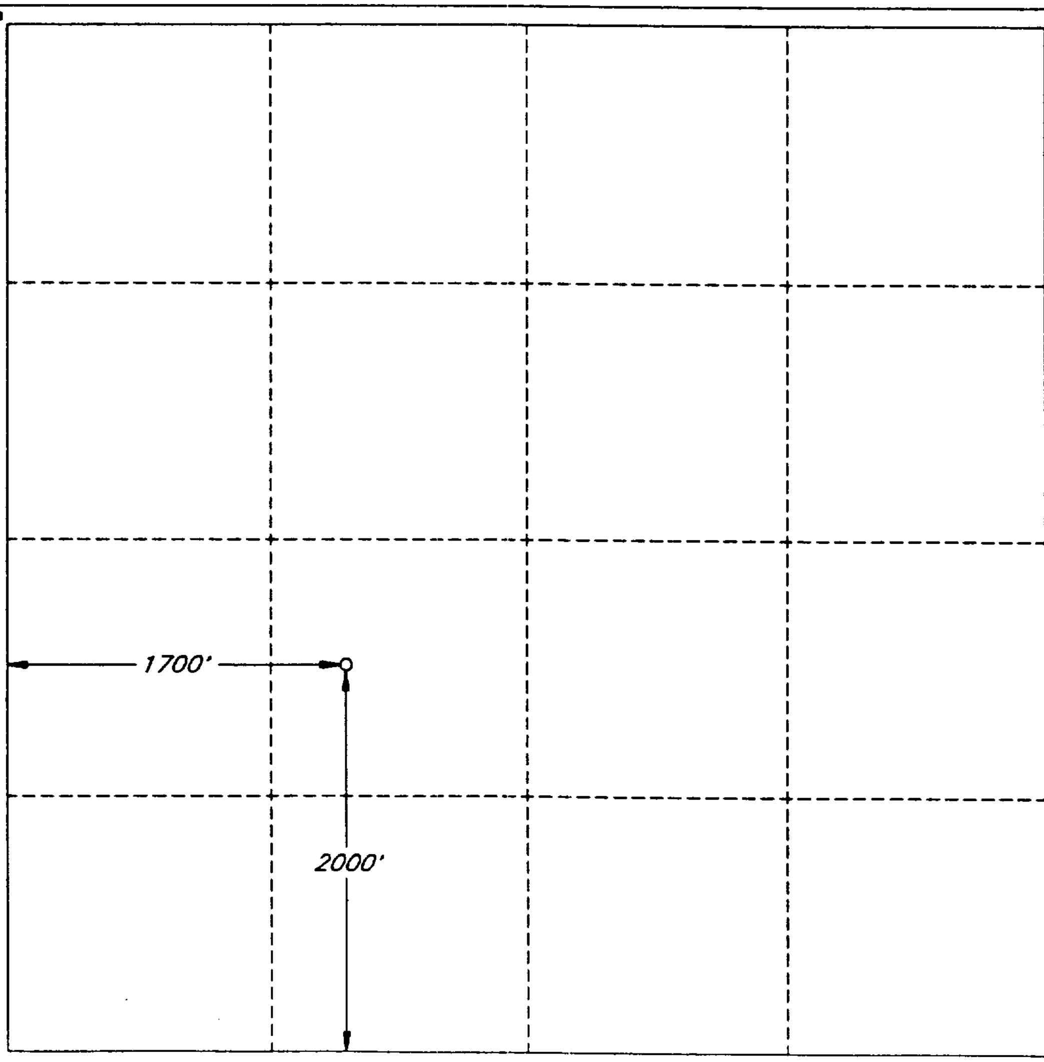
11 BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE

UL or lot no.	Section	Township	Range	Lot Idn	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

16



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
September 29, 1994

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
SEPTEMBER 8, 1994

Signature and Seal of Professional Surveyor

STATE OF NEW MEXICO
V. LYNN BEZNER
NO. 7920
REGISTERED LAND SURVEYOR

Certificate No.
V. L. BEZNER R.P.S. #7920

JOB #[illegible]

APPLICATION TO DRILL

PLAINS PETROLEUM OPERATING COMPANY
BAYLUS CADE FEDERAL #6
2075' FSL & 1700' FWL, Sec 35 K, T23S, R37E
Lea County, New Mexico
Lease No. 037411
September 19, 1994

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: 3246'

FORMATION	TOP	SS
Penrose	3390'	-144'
Glorietta	4903'	-1657'
Paddock	5015'	-1769'
Blinebry	5258'	-2012'
Tubb	5907'	-2661'
Drinkard	6311'	-3065'
Abo	6393'	-3147'
Devonian	7190'	-3944'
Silurian	7885'	-4639'
Fusselman	8285'	-5039'
Montoya	8650'	-5404'
Simpson	8965'	-5719'
McKee	9330'	-6084
TD	9700'	-6454'

2. CASING DETAIL

	CASING SIZE OD	INTERVAL	LENGTH OF INTERVAL	WEIGHT #/FT	INTERVAL WEIGHT	CASING GRADE	JOINT
Surface	13-3/8"	0' - 350'	350'	48#	16,800	H-40	STC
Intermediate	8-5/8"	0' - 100'	100'	32#	3,200	K-55	STC
	8-5/8"	100' - 2200'	2200'	24#	50,400	K-55	STC
	8-5/8"	2200' - 3000'	800'	32#	25,600	K-55	STC
Production	5-1/2"	0'- 1000'	1000'	17#	17,000	K-55	LTC
	5-1/2"	1000' - 7500'	6500'	15.5#	100,750	K-55	LTC
	5-1/2"	7500' - 9400'	1900'	17#	32,300	K-55	LTC
	5-1/2"	9400' - 9700'	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 9700')
Depth	350'	3000'	9700'
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^3	940 Ft^3	1150 Ft^3, 475 Ft^3
Recommended Volume	490 Ft^3	1410 Ft^3	1325 Ft^3, 475 Ft^3
DV Tool Depth	N/A	N/A	3000'

PLA NS PETROLEUM ↄPER. CO.

Operator: PPOC	Well Name: BAYLUS CADE FED #6
Project ID:	Location: 2075' FSL 1700' FWL

Design Parameters:

Mud Weight (10.20 ppg)	: 0.530	psi/ft
Shut in casing pressure	: 1565	psi
Internal gradient (burst)	: 0.008	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)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	53	2427	9.999	1565	3930	2.51	66.85	402	6.01 J
2	1166	1348	1.156	1513	2950	1.95	64.15	263	4.10 J
3	1590	2530	1.592	417	3930	9.41	21.61	402	18.61 J

Prepared by : *DJB, Midland, Texas*
Date : 09-19-1994
Remarks :

LEA COUNTY, NEW MEXICO
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 89°F (Surface 74°F , BHT 104°F & temp. gradient 1.000°/100 ft.)
Surface/Intermediate string:
Next string will set at 3,000 ft. with 8.80 ppg mud (pore pressure of 1,371 psi.) The frac gradient of 0.700 at the casing seat results in an injection pressure of 2,100 psi. Effective BHP (for burst) is 1,590 psi, the BHP load is 0 psi (using an annular mud of 10.00 ppg) and the differential gradient is -0.520 psi/ft.
The minimum specified drift diameter is 7.875 in.

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)

PLA NS PETROLEUM ..PER. CO.

Operator: PPOC	Well Name: BAYLUS CADE FED #6
Project ID:	Location: 2075' FSL 1700' FWL

Design Parameters:

Mud Weight (8.80 ppg)	: 0.457	psi/ft	
Shut in casing pressure	: 4231	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)	Drift (in.)	Cost
1	1,000	5.500	17.00	K-55	LT&C	1,000	4.767	
2	6,500	5.500	15.50	K-55	LT&C	7,500	4.825	
3	1,900	5.500	17.00	K-55	LT&C	9,400	4.767	
4	300	5.500	17.00	N-80	LT&C	9,700	4.767	

	Collapse Load (psi)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	457	3890	8.510	4252	5320	1.25	134.27	272	2.03 J
2	3429	3871	1.129	4252	4810	1.13	119.56	239	2.00 J
3	4297	4889	1.138	3703	5320	1.44	32.37	272	8.40 J
4	4434	6280	1.416	2874	7740	2.69	4.41	348	78.84 J

Prepared by : *DJB, Midland, Texas*
Date : 09-19-1994
Remarks :
LEA COUNTY, NEW MEXICO
Minimum segment length for the 9,700 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 171°F & temp. gradient 1.000°/100 ft.)
For burst purposes, lost circulation occurs behind the pipe at 6,000 ft, above which point, the annular mud weight of 8.800 ppg goes to zero.
The equivalent pore gradient at the seat is 3.36 ppg.

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)

PLA NS PETROLEUM JPER. CO.

Operator: PPOC	Well Name: BAYLUS CADE FED #6
Project ID:	Location: 2075' FSL 1700' FWL

Design Parameters:

Mud Weight (7.60 ppg)	: 0.395	psi/ft
Shut in casing pressure	: 3751	psi
Internal gradient (burst)	: 0.008	psi/ft
Annular gradient (burst)	: 0.395	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	9,700	2.875	6.50	J-55	EUE 8rd	9,700	2.347	

	Collapse Load (psi)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	3830	7680	2.005	3751	7260	1.94	55.72	99.7	1.79 J

Prepared by : *DJB, Midland, Texas*
Date : 09-19-1994
Remarks :

LEA COUNTY, NEW MEXICO
Minimum segment length for the 9,700 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 89°F (Surface 74°F , BHT 171°F & temp. gradient 1.000°/100 ft.)
The minimum specified drift diameter is 7.875 in.
An annular mud weight of 8.000 ppg was used for burst purposes. The differential mud gradient below any lost-circulation depth is -0.387 psi/ft and the bottom hole pressure load is 0 psi.

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)

SLURRY

	Surface	Intermediate	Production 1st Stage	Production 2nd Stage
Recommendation	375 sx 'C' + 2% $Cacl_2$ + 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^3/sk	2.85 Ft^3/sk, 1.32 Ft^3/sk,	2.14 Ft^3/sx, 1.32 Ft^3/sx	2.85 Ft^3/sx, 1.32 Ft^3/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 6.2 gal/sk	17.2 gal/sk 6.32 gal/sk

4. MUD DETAIL

DEPTH	PROPERTIES	TREATMENT
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' - 9700'	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 5000# series 900 dual hydraulic preventers w/annular 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**

7. POTENTIAL HAZARDS:

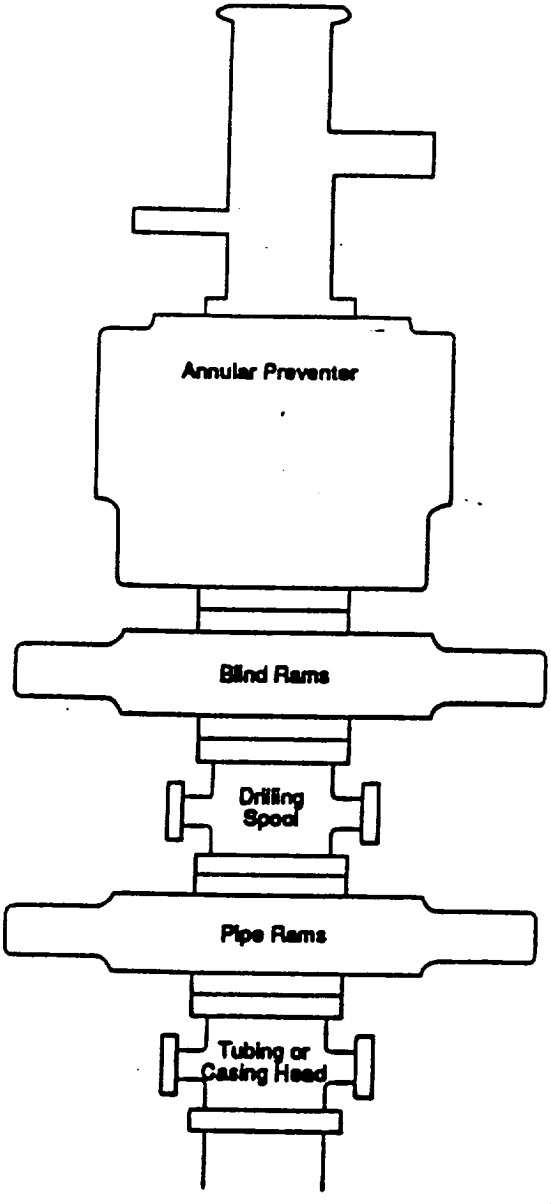
No abnormal pressures or temperatures are anticipated. Hydrogen sulfide is not expected to be encountered with this well.

8. ANTICIPATED START DATE:

November 1994 with completion on or about December 1994.

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, studded, 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 circulate out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.

Figure 11J.4
Class III Blowout Preventer Stack



ELF
7/27/95