Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0136
Expires: November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMSF078281

1a. Type of Work [X] DRILL [ ] REENTER

6. If Indian, Allotee or Tribe Name

1b. Type of Well [ ] Oil Well [X] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

7. Unit or CA Agreement Name and No.
NMNM78415A

2. Name of Operator
Phillips Petroleum Company

8. Lease Name and Well No.
San Juan 29-5 Unit #24A

3a. Address
5525 Highway 64, NBU 3004, Farmington, NM 87401

3b. Phone No. (include area code)
505-599-3454

9. API Well No.
30-039-26910

4. Location of Well (*Report location clearly and in accordance with any State equirements*)*

At surface H, (SENE) 1821' FNL & 520' FEL; Lat-36.72833, Long-107.3731

10. Field and Pool, or Exploratory
Blanco Mesaverde

At proposed prod. zone same as above

11. Sec., T., R., M., or Blk. and Survey or Area
Section 17, T29N, R5W

14. Distance in miles and direction from nearest town or post office*
25-1/2 miles east of Blanco, NM

12. County or Parish
Rio Arriba,

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
520'	2560.0 acres	320 E/2
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
	6091'	ES0048
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will start*	23. Estimated duration
6622' GL	approx. 12/3/02	20 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name (*Printed/Typed*)	Date
Patsy Clugston	Patsy Clugston	1/22/02

Title
Sr. Regulatory/Proration Clerk

Approved by (Signature)	Name (*Printed/Typed*)	Date
/s/ Charlie Beecham		AUG 26 2002
Title: ACTING	Office	

Application approval 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.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly 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.

*(Instructions on Reverse)

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NMOCD

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to 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	3 Pool Name
30-039-26910	72319	Blanco Mesaverde

4 Property Code	5 Property Name	6 Well Number
009256	SAN JUAN 29-5 UNIT	24 A

7 OGRID No.	8 Operator Name	9 Elevation
017654	PHILLIPS PETROLEUM COMPANY	6622'

10 Surface Location

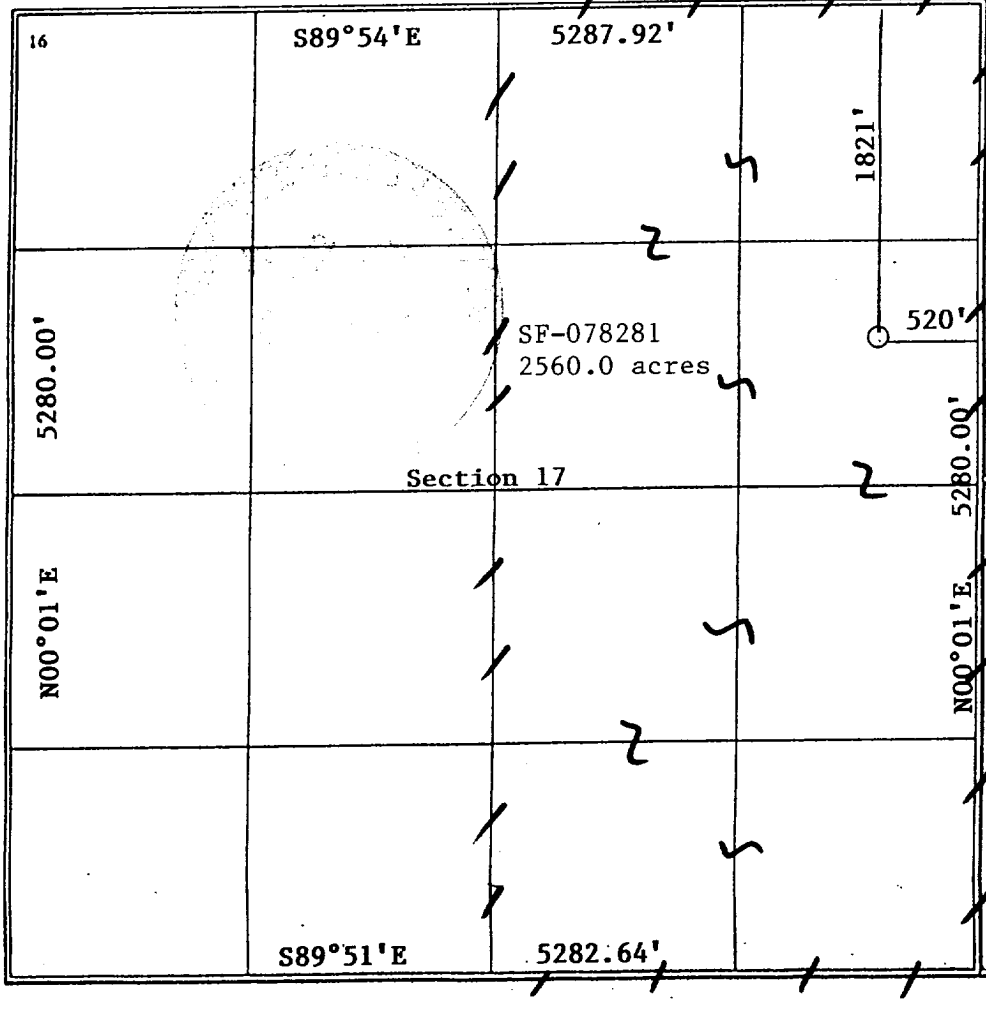
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	17	29N	5W		1821'	NORTH	520'	EAST	RIO ARRIBA

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
H									

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320.0 E/2	Y	U	

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



17 OPERATOR CERTIFICATION

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

Signature: Patsy Clugston

Printed Name: Patsy Clugston

Title: Sr. Regulatory/Proration Clerk

Date: 9-21-01

18 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: 08/14/01

Signature and Seal of Professional Surveyor: HENRY P. BROADHURST, JR. NEW MEXICO 11393 REGISTERED PROFESSIONAL SURVEYOR

Certificate Number

PHILLIPS PETROLEUM COMPANY

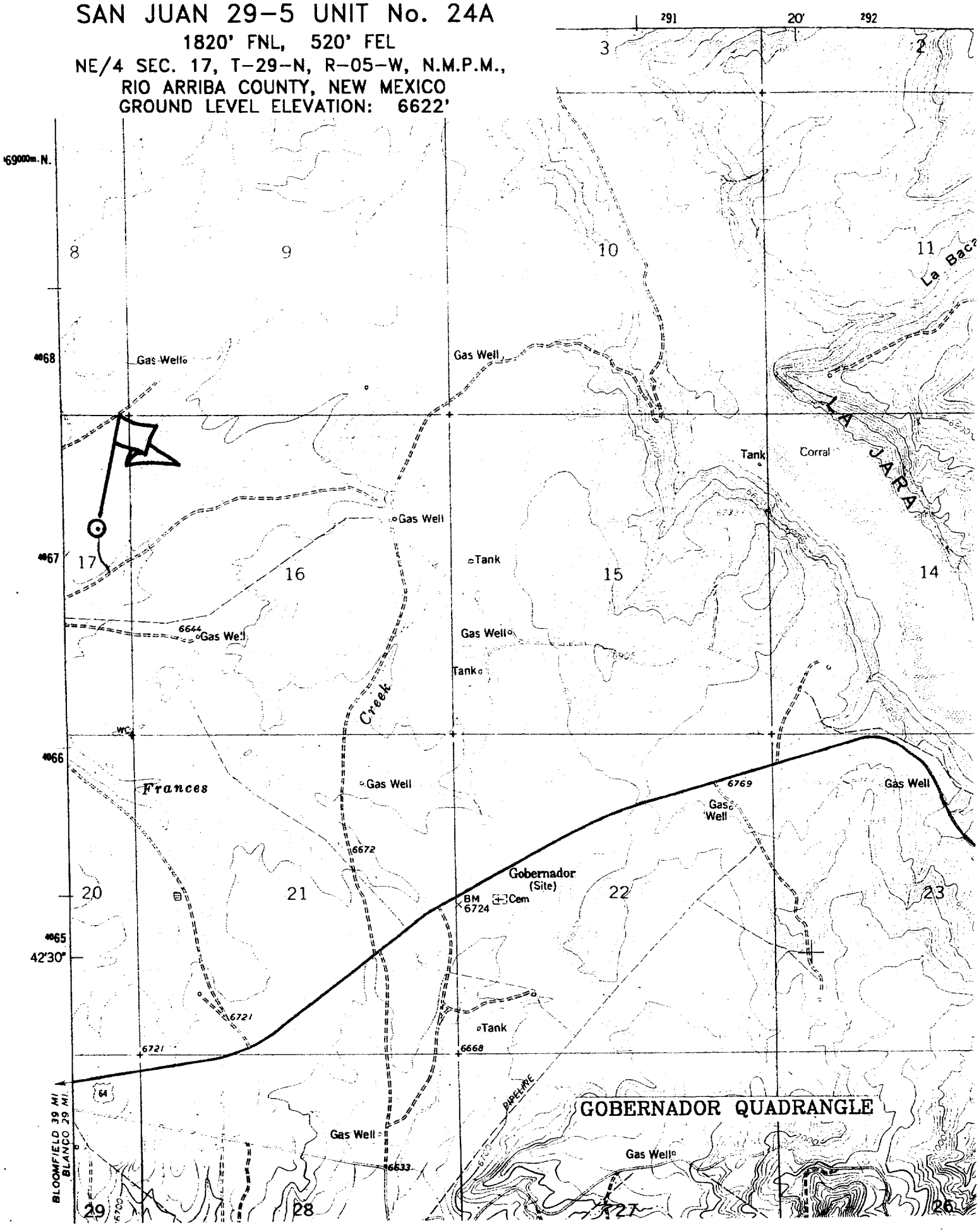
SAN JUAN 29-5 UNIT No. 24A

1820' FNL, 520' FEL

NE/4 SEC. 17, T-29-N, R-05-W, N.M.P.M.,

RIO ARRIBA COUNTY, NEW MEXICO

GROUND LEVEL ELEVATION: 6622'



PHILLIPS PETROLEUM COMPANY

WELL NAME: San Juan 29-5 Unit #24A (MV)

DRILLING PROGNOSIS

1. Location of Proposed Well: Unit H, 1821' FNL & 520' FEL
   Section 17, T29N, R5W

2. Unprepared Ground Elevation: @ 6622' (unprepared).

3. The geological name of the surface formation is San Jose.

4. Type of drilling tools will be rotary.

5. Proposed drilling depth is 6091'.

6. The estimated tops of important geologic markers are as follows:

Naciemento -	1439'	Lewis Shale -	4308'
Ojo Alamo -	2750'	Cliff House Ss -	5408'
Kirtland Sh -	2906'	Menefee Fm. -	5466'
Fruitland Fm. -	3253'	Pt. Lookout -	5731'
Pictured Cliffs -	3571'	Mancos Sh -	5891'

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Water:	Ojo Alamo -	2750' - 2906'
Gas & Water:	Fruitland -	3253' - 3571'
Gas:	Pictured Cliffs -	3571' - 4308'
	Mesaverde -	5408' – 5891'

8. The proposed casing program is as follows:

   Surface String: 9-5/8", 32.3# H-40 @ 320' *
   Intermediate String: 7", 20#, J/K-55 @ 3850' (J-55 will be used, unless the K-55 is the only casing available.
   Production String: 4-1/2", 11.6#, J-55 @ 6091' (TD)

   * The surface casing will be set at a minimum of 320', but could be set deeper if required to maintain hole stability.

9. Cement Program:
   Surface String: 197.6 sx Type III cement + 2% bwoc Calcium Chloride + 0.25#/sx Cello-flake + 60.6% FW (1.41 yield = 278 cf).

9. Cement Program (cont.)

Intermediate String: **Lead Cement:** 485.5 sx Type III cement (35:65) POZ + 5#/sx Gilsonite + 0.25 #/sx Cello-Flake + 6% bwoc Bentonite + 10#/sx CSE + 3% bwow KCL + 0.4% bwoc FL-25 + 0.02#/sx static free + 129% FW (2.37 yield = 1151 cf). Cement to surface with 120% excess casing/hole annular volume.

Tail Cement: 50.0 sx Type III cement + 0.25#/sx Cello-Flake + 1% Calcium Chloride + 60.5% FW (1.4 yield = 70 cf). Cement to surface with 120% excess of casing/hole annulus volume.

Production String *: **Lead Cement:** 50 sx Type III (35:65) POZ L (Fly Ash L) with 6% gel Bentonite, 5#/sx Phenoseal, 0.2% bwoc CD-32, 0.75 bwoc FL-52 1#/sx LCM-1 0.25#/sx Cello-Flake, 10#/sx CSE, 0.02#/sx Static Free (2.34 yield = 117 cf).

2nd Lead Cement: 103.8 sx Type III (35:65) POZ L (Fly Ash L) with 6% gel Bentonite, 2.5#/sx Phenoseal, 0.2% bwoc CD-32, 0.75 bwoc FL-52 1#/sx LCM-1 0.25#/sx Cello-Flake, 10#/sx CSE, 0.02#/sx Static Free (2.32 yield = 241 cf)

Tail Cement - 20 sx Type III (35:65) POZ L (Fly Ash L) with 6% gel Bentonite, 5#/sx Phenoseal, 0.2% bwoc CD-32, 0.75 bwoc FL-52 1#/sx LCM-1 0.25#/sx Cello-Flake, 10#/sx CSE, 0.02#/sx Static Free (1.91 yield = 38 cf).

*The production casing cement is calculated to cover the openhole interval with 50% excess and annular volume 200' within intermediate shoe. Depending on hole conditions, the well may be cemented in a single stage or two staged.

Centralizer Program:

Surface: Total four (4) 1 @ 10' above shoe & top of 2nd, 4th & 6th joint

Intermediate: Total seven (7) – 10' above shoe, top of 1st, 2nd, 4th, 6th, & 8th jts & 1 jt. above surface casing.

Production: None planned.

Turbulators: Total Three (3) – on intermediate casing at 1st jt. below the Ojo Alamo and next 2 jts up.

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.

11. Drilling Mud Prognosis: Surface - spud mud on surface casing.
Intermediate - spud mud generated from natural clays with gel sweeps pretreated w/LCM before entering coal interval.
Below Intermediate - air or gas drilled.

12. The testing, logging, and coring programs are as follows:
D.S.T.s or cores: _____
Logs: GR/CCL/CBL & GSL over zones of interest

13. Anticipated no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H_2S equipment will be used.

Estimated Bottomhole pressure:
Mesaverde - 600 psi

14. The anticipated starting date is approximately December 3, 2002 with duration of drilling / completion operations for approximately 20 days thereafter.

San Juan 29-5 Unit #24A (MV)

SURFACE CASING :

Drill Bit Diameter	12.25	"	
Casing Outside Diameter	9.625	"	8.913
Casing Weight	36	ppf	
Casing Grade	H-40		
Shoe Depth	320	'	
Cement Yield	1.41	cuft/sk	
Excess Cement	165	%	
Hole / Casing Annulus Capacity	0.0558	bbl/ft	0.3132 cuft/ft
Cement Required	**197.6**	**sx**	

SHOE 320 ', 9.625 ", 36 ppf, H-40

INTERMEDIATE CASING :

Drill Bit Diameter	8.75	"	
Casing Outside Diameter	7	"	6.455
Casing Weight	20	ppf	
Casing Grade	J-55		
Shoe Depth	3850	'	
Lead Cement Yield	2.37	cuft/sk	
Lead Cement Excess	120	%	
Tail Cement Length	211.5	'	
Tail Cement Yield	1.4	cuft/sk	
Tail Cement Excess	120	%	
Casing / Casing Annulus Capacity	0.0296	bbl/ft	0.1660 cuft/ft
Hole / Casing Annulus Capacity	0.0268	bbl/ft	0.1503 cuft/ft
Casing Capacity	0.0405	bbl/ft	0.2272 cuft/ft
Lead Cement Required	**485.5**	**sx**	
Tail Cement Required	**50.0**	**sx**	

SHOE 3850 ', 7 ", 20 ppf, J-55

PRODUCTION CASING :

Drill Bit Diameter	6.25	"	
Casing Outside Diameter	4.5	"	4.000
Casing Weight	11.6	ppf	
Casing Grade	J-55		
Top of Cement	3750	'	100' inside intermediate casing
Shoe Depth	6091	'	
Cement Yield	2.33	cuft/sk	
Cement Excess	50	%	
Tail Cement Length	248	'	
Tail Cement Yield	1.91	cuft/sk	
Tail Cement Excess	50	%	
Casing / Casing Annulus Capacity	0.0208	bbl/ft	0.1168 cuft/ft
Hole / Casing Annulus Capacity	0.0183	bbl/ft	0.1026 cuft/ft
Casing Capacity	0.0155	bbl/ft	0.0872 cuft/ft
Cement Required	**153.8**	**sx**	
Tail Cement Required	**20**	**sx**	

SHOE 6091 ', 4.5 ", 11.6 ppf, J-55

BOP AND RELATED EQUIPMENT CHECK LIST

3M SYSTEM:

2 hydr. rams (pipe & blind) or hydr. ram and annular with blind ram on bottom

Kill Line (2-inch minimum)

1 kill line valve (2-inch minimum)

1 choke line valve

2 chokes (refer to diagram in attachment 1) on choke manifold

Upper kelly cock valve in open position with handle available

Safety valve (in open position) and subs to fit all drill strings in use (with handle available)

Pressure gauged on choke manifold

2 inch minimum choke line

Fill-up line above the uppermost preventer

The BOPs will be pressure tested according to Onshore Order #2 III, A 1 and 30% safety factor.

drilling\BOPck.lst