Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Gary
N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

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

E-62
0463

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NM 25876

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

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

6. If Indian, Allotee or Tribe Name
N/A

7. Unit or CA Agreement Name and No.
29747

2. Name of Operator
Chevron U.S.A. Inc. 4323

8. Lease Name and Well No.
GETTY 24 FEDERAL #17

3a. Address
15 Smith Road, Midland Texas 79705

3b. Phone No. (include area code)
(915) 687-7375

9. API Well No.
30-015-32780

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

At surface 790' FSL, & 1650' FWL, UNIT N

At proposed prod. zone SAME

R-111-P Potash

10. Field and Pool, or Exploratory
LIVINGSTON RIDGE

11. Sec., T., R., M., or Blk. and Survey or Area
SEC 24, T-22S, R-31E

14. Distance in miles and direction from nearest town or post office*
29 MILES EAST OF CARLSBAD, NM

12. County or Parish
EDDY

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
790'	640	40
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**
	8600'	
21. Elevations (Show whether DF, KDB, RT, GL, etc.	**22. Approximate date work will start***	**23. Estimated duration**
3585'	07-08-03	4 WEEKS

24. Attachments Carlsbad Controlled Water Basin

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
Denise Pinkerton	DENISE PINKERTON	2-26-03
Title: REGULATORY SPECIALIST		
Approved by (Signautre)	**Name (*Printed/Typed*)**	**Date**
/S/ GARY L. JOHNSON	/S/ GARY L. JOHNSON	APR 28 2003
Title: ACTING STATE DIRECTOR	Office: NM STATE 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.

APPROVAL FOR 1 YEAR

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)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

MAY 2003
RECEIVED
OCD - ARTESIA

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, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
		Swingston Ridge

Property Code	Property Name	Well Number
	GETTY 24 FEDERAL	17

OGRID No.	Operator Name	Elevation
4323	Chevron U.S.A. INC.	3585'

Surface Location

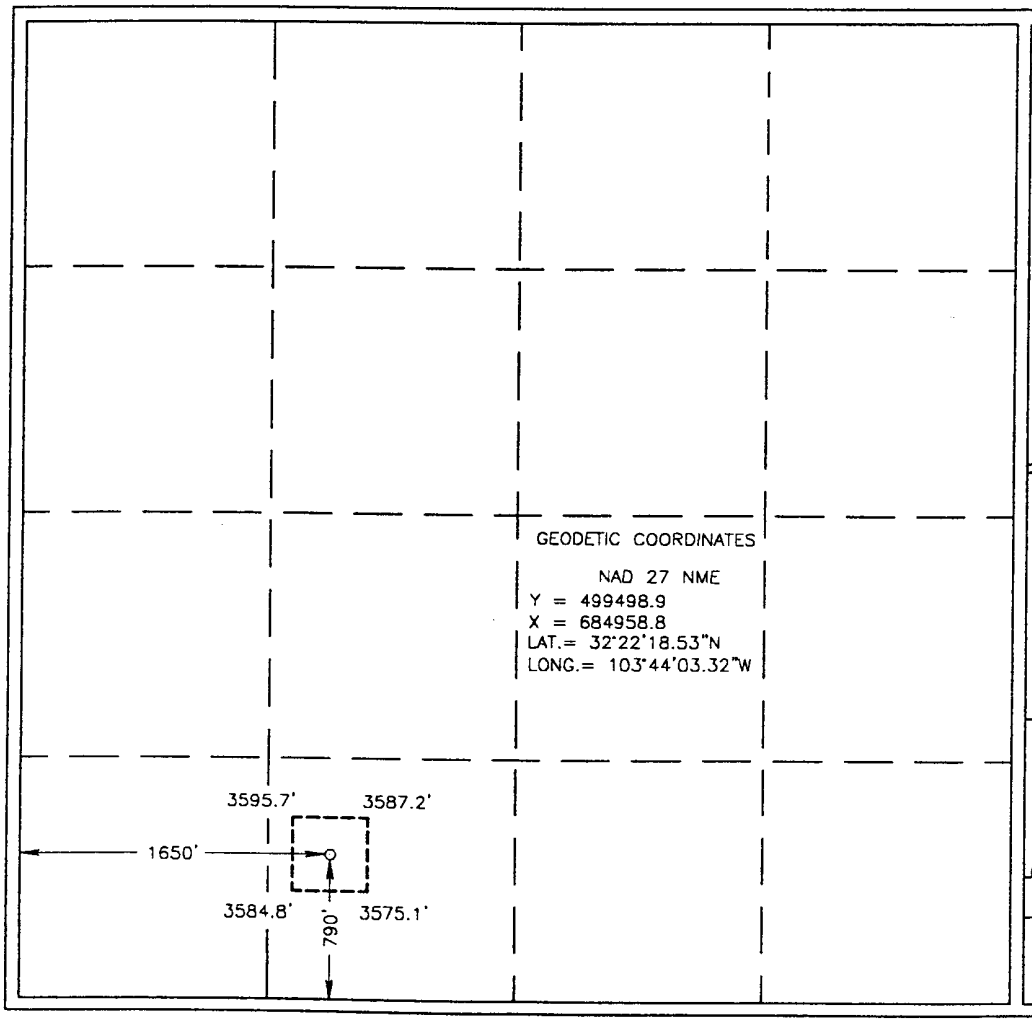
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	24	22-S	31-E		790'	SOUTH	1650'	WEST	EDDY

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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



OPERATOR CERTIFICATION

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

Denise Leake Pinkerton
Signature

Denise Leake Pinkerton
Printed Name

Regulatory Specialist
Title

2-26 '03
Date

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 supervison, and that the same is true and correct to the best of my belief.

NOVEMBER 18, 2002
Date Surveyed AWB

Signature & Seal of Professional Surveyor

Ronald J. Eidson 11/19/02
02.11.0873

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641

ANTICIPATED DRILLING PROGRAM

Date 11/18/2002

Est. No. _____

FRSID _____

Field Livingston Ridge

Lease Getty 24 Federal Well No. 17

Surface Location 1650' FWL, 990' FSL, Section 24, T22S, R31E

Bottom Hole Location

Approved Total Depth	Estimated Cost				Dev. XXXX
8,600 TVD	650,200	Dry Hole Cost	19.0 Days Drill	X Single	Res.
8,600 MD		Completion Cost	Days Compl.	Dual	OSWC
3,607 KB ELEV	650,200	Total	19.0 Days Total	? % Tx. Int.	RWC

ANTICIPATED FORMATION TOPS

Sand Name	TVD Expected	Press Grad. (psi/ft)	BHP	P.P.	Gauge	F.L.	Equiv. Mud Wt.	Antcpd. Prod.	Antcpd. SITP
Rustler	800								
Yates	?								
Lamar	4470								
Bell Canyon	4561								
Cherry Canyon	6580	Primary Pay					8.3	Oil	
Brushy Canyon	7040	Primary Pay					8.3	Oil	
Total Depth	8600								

CASING AND CEMENTING DATA

SIZE Hole	SIZE Csg.	Depth			Sacks		Wt. (PPG)	Instructions
17.5	13.375	780	FW	--Surface	A 950		14.8	Class "C" with 2% CaCl2
12.25	8.625	4420	Brine	--Intermediate	L 1080		12.8	Class "H" 35/65 Poz with 6% gel, 5% salt, 1/4# cell.
					T 230		15.6	Class "H"
7.875	5.5	8600	Brine	--Production	1 A 640		14.2	Class "H" 50/50 Poz with 2% gel, 5% salt, 1/4# cell.
					2 L 360		12.4	Class "H" 35/65 Poz with 6% gel, 5% salt, 1/4# cell.
					2 T 120		14.2	Class "H" 50/50 Poz with 2% gel, 5% salt, 1/4# cell.
					3 L 360		12.4	Class "H" 35/65 Poz with 6% gel, 5% salt, 1/4# cell.
					3 T 50		14.2	Class "H" 50/50 Poz with 2% gel, 5% salt, 1/4# cell.

Prepared by: B. D. Schaneman Phone # 915-687-7402 Reviewed by: _____

Reviewed by: _____ Approved by: _____

PRELIMINARY DRILLING PROGRAM

Lease and Well No. Getty 24 Federal #17

LAND INFORMATION

Distance to Nearest Lease Line
No. Acres in Lease
No. Acres Assigned to Well
Distance to Nearest Well

MUD PROGRAM

Depth	Type	Weight	Remarks
0-780'	Fresh Water	8.4	Circulate pits or reserve, visc. 32
780-4420'	Brine	10	Circulate reserves, Lime pH 9, visc. 29
4420-8600'	Brine/Starch	8.5	Starch / LCM for seepage as needed,
	Gel (if needed)		visc. 28-45, keep Chlorides below 100,000,
			WL to 12 at TD, Increase viscosity to 45 at TD

TUBULAR PROGRAM

String Type	Hole Size	Depth	Feet	Casing Diameter	Weight	Grade	Connection Type	ERW/ Seamless	Critical Inspectn
Surface	17-1/2"	780	780	13-3/8"	48	H-40	STC	ERW	NO
Intermed.	11"	4420	4420	8-5/8"	32	J-55	LTC	ERW	NO
Production	7-7/8"	4200	4200	5-1/2"	15.5	J-55	LTC	ERW	NO
		8600	4600	5-1/2"	17	J-55	LTC	ERW	NO

Note: Pipe to end up in hole from top to bottom as shown.

CEMENT PROGRAM

String Type	DV Depth	Stage Lead/Tail	Cement Bottom	Cement Top	No Sacks	Cement Type	Cement Yield	Cement Weight
Surface								
		All	780	0	950	"C"	1.34	14.8
Intermed.		Lead	3920	Surface	1080	35/65 Poz	1.94	12.8
		Tail	4420	3920	230	"H"	1.18	15.6
Production	6100	1 All	8600	6100	640	50/50 Poz	1.35	14.2
	3700	2 Lead	5700	3700	360	35/65 Poz	2.14	12.4
		2 Tail	6100	5700	120	50/50 Poz	1.35	14.2
		3 Lead	3400	0	360	35/65 Poz	2.14	12.4
		3 Tail	3700	3400	50	50/50 Poz	1.35	14.2

BOP PROGRAM

Hole Size	Exhibit	Pressure Rating
	Exhibit C, Drilling Manual	3M

Remarks: Air blows possible around 600'
Possible strong water flows with sour gas at +/-3300'
Possible water flows at +/-6000'

Prepared By:

B. D. Schaneman Date: 11/18/2002

ChevronTexaco Permian Business Unit
Well Proposal Data Sheet

Well Name: GETTY 24 FEDERAL #17 Field/Area: CARLSBAD Date: 10/30/2002
Surf. Loc. : 1650 FWL, 990 FSL, SEC 24 T22S R31E LIVINGSTON RIDGE County/State: EDDY CO., NM
Shot Pt. for Surf. Loc.: _____ Authorized TD: 8600' MD
B.H. Target: _____ @ _____ TVD Actual Est. TD: _____ MD
Shot Pt. for B.H. Target: _____ Actual Est. TD: _____ TVD

Estimated Formation Tops (based on 3,607' KB est. elevations):

Formation	TVD	Subsea
Rustler	800'	
Lamar	4470'	
Bell Canyon	4561'	
Brushy Canyon	7040'	
Bone Spring Lm	8380'	

Formation	TVD	Subsea

Suggested Csg Depths: **Intermediate casing point @ 4420'**
Required Mud Parameters: Control chlorides if possible to less than 100,000

Sample, Drilling Time & ML Requirements: **2 Man Mud Logging Unit**

DST's (incl any special requirements):

Cores (incl est. cost for analysis): **40 sidewall cores**

Anticipated Completion Intervals:

Formation	Depths	Pressures
Cherry Canyon	6580'	
Cherry Canyon	6980'	
Brushy Canyon	7080'	
Brushy Canyon	8130-8350	

Other Potential Pay Zones:

Formation	Depths	Pressures

Type of Logs (incl sidewall cores) and Est. Total Cost:
Run # 1 (logs & intervals): PLATFORM EXPRESS W/NGT & HIGH RESOLUTION INDUCTION LOG, FROM TD TO BASE INTER. CSG.
Run # 2 (logs & intervals):
Run # 3 (logs & intervals):
Possible Drilling Hazards (High press, lost circ, H2S, deviation, etc.):

Remarks (Special well, production csg size/OH completion or location requirements, etc):

Base Fresh Water: _____ By: Water Board Letter/Other (Specify) _____
Rule 37/Unorthodox Location?: Date Regulatory Approval Expected?: _____
Required height of tubing spool above GL: _____ Offset Well Data Available?
Required Xmas tree size & pressure rating: _____ Completion Type: _____

Prep by: _____ 1/15/2003

	Surface Lead	Surface Tail	Int 1 Lead	Int 1 Tail	Prod. 1st Stage	Prod. 2nd Stage Lead	Prod. 2nd Stage Tail	Prod. 3rd Stage Lead	Prod. 3rd Stage Tail
System	C; 2% D20,	C; 2%S1	35/65H; 6%D20,	H Neat	50/50H;2%D20,	35/65H; 6%D20,	50/50H;2%D20,	35/65H; 6%D20,	50/50H;2%D20,
Getty 24 Federal #17	2%S1		5%D44, 0.25#D29		5%D44,0.25#D29	5%D44, 0.25#D29	5%D44,0.25#D29	5%D44, 0.25#D29	5%D44,0.25#D29
Density, ppg	14.2000	14.8000	12.8000	15.6000	14.2000	12.4000	14.2000	12.4000	14.2000
Yield, cf/s	1.5000	1.3400	1.9400	1.1800	1.3500	2.1400	1.3500	2.1400	1.3500
Water, g/s	7.4500	6.3100	10.5000	5.2000	6.3000	11.9500	6.3000	11.9500	6.3000
Class C $/sx	3.0960	3.0960							
Class C # of sx	1.0000	1.0000							
Class H $/sx			2.9600	2.9600	2.9600	2.9600	2.9600	2.9600	2.9600
Class H # of sx			0.6500	1.0000	0.5000	0.6500	0.5000	0.6500	0.5000
Poz $/sx			1.6520		1.6520	1.6520	1.6520	1.6520	1.6520
Poz # of sx			0.3500		0.5000	0.3500	0.5000	0.3500	0.5000
S1 $/#	0.1600	0.1600							
S1 #/sx	1.8800	1.8800							
D20 $/#	0.0680		0.0680		0.0680	0.0680	0.0680	0.0680	0.0680
D20 #/sx	1.8800		5.3300		1.7300	5.3300	1.7300	5.3300	1.7300
D44 $/#			0.0520		0.0520	0.0520	0.0520	0.0520	0.0520
D44 #/sx			4.3500		2.6200	4.3500	2.6200	4.3500	2.6200
D29 $/#			0.7080		0.7080	0.7080	0.7080	0.7080	0.7080
D29 #/sx			0.2500		0.2500	0.2500	0.2500	0.2500	0.2500
D79 $/#									
D79 #/sx									
D42 $/#									
D42 #/sx									
Cost $/sx	3.5250	3.3970	3.2680	2.9600	2.7370	3.2680	2.7370	3.2680	2.7370
Cost $/cft	2.3500	2.5350	1.6840	2.5080	2.0270	1.5270	2.0270	1.5270	2.0270
Feet of fill	0	780	3920	500	2500	2000	400	3400	300
Casing Size	13.3750	13.3750	8.6250	8.6250	5.5000	5.5000	5.5000	5.5000	5.5000
Hole Size	17.5000	17.5000	11.0000	11.0000	7.8750	7.8750	7.8750	7.8750	7.8750
Annular Factor	0.6946	0.6946	0.2542	0.2542	0.1732	0.1732	0.1732	0.1732	0.1732
Excess	2.0000	2.3500	2.1000	2.1000	2.0000	2.2500	2.2500	1.3000	1.3000
Sacks	**0**	**950**	**1080**	**230**	**640**	**360**	**120**	**360**	**50**
Cost	**0**	**3227**	**3529**	**681**	**1752**	**1176**	**328**	**1176**	**137**
Cement Bottom	0	780	3920	4420	8600	5700	6100	3400	3700
Cement Top	0	0	0	3920	6100	3700	5700	0	3400
Placement Time	0	32	53	7	22	20	4	20	2
Flush Time	0	19	40	45	36	24	25	14	15
Bottom Hole Temp	70	76	99	103	135	113	116	96	98
	Surface Lead	Surface Tail	Int 1 Lead	Int 1 Tail	Prod. 1st Stage	Prod. 2nd Stage Lead	Prod. 2nd Stage Tail	Prod. 3rd Stage Lead	Prod. 3rd Stage Tail

Data Sheet - New Well Staking - Carlsbad Team

Date: 11-11-2002

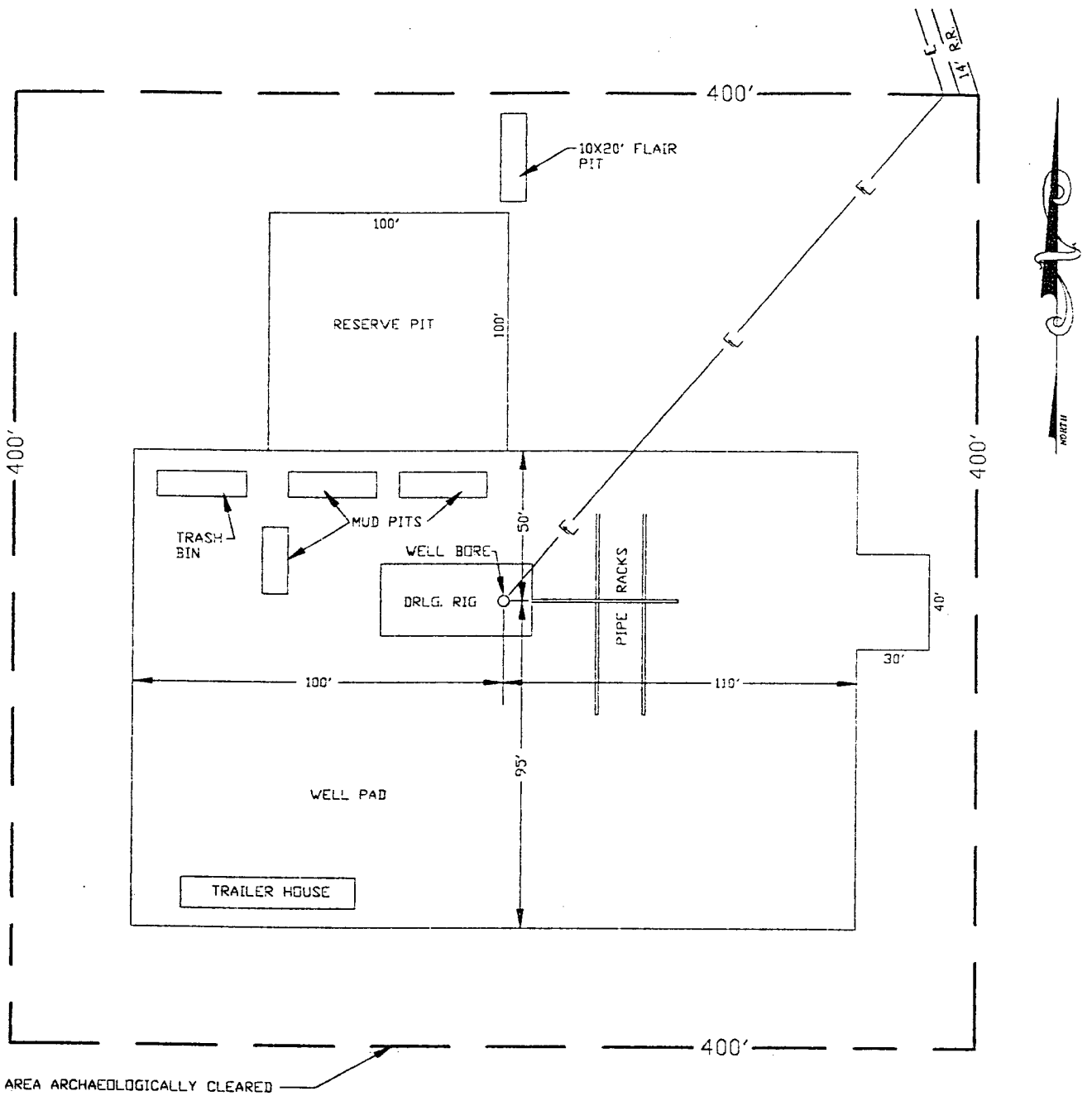
Well Name:	Getty 24 Federal #17
Chevron W.I.:	50%
Section-Township-Range:	S24-T22S-R31E
County, State	Eddy Co., NM
Proposed Surface Location:	1650'FWL, 990'FSL
Seismic Shot Points for Surface Location:	
Proposed Bottom Hole Target:	
Seismic Shot Points for Bottom Hole Location:	
Estimated KB (from topo.):	3607'
Proposed Depth:	8600'
Permit Depth:	8600'
Field:	Livingston Ridge
Objective Formation(s):	Delaware
Formation at TD:	Bone Spring
Formation at TD for Permit:	Bone Spring
Produced Fluid:	Oil, Gas, Water
Proration Unit :	40 acre

Proposed write-up for AFE cover sheet:

[Time] 11/12/2002

Prepared By:

SECTION 24, TOWNSHIP 22 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



ChevronTexaco Corporation			
EXHIBIT 'B' DRILLING RIG LAYOUT ChevronTexaco Inc. GETTY FEDERAL '24' NO. 17 790' FSL & 1650' FWL SECTION 24 T22S, R31E, NMPM, EDDY CO., NM.			
Survey Date: 11/18/02		Sheet 1 of 1 Sheets	
W.O. Number: 03.11.0110		Drawn By: L.A.	
Date: 1/31/03	DISK: CD#2	03110110	SCALE: NONE

H2S DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All contractors and subcontractors employed by Chevron U.S.A. Inc. will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

1. The hazards and characteristics of hydrogen sulfide (H2S)
2. Safety precautions
3. Operations of safety equipment and life support systems

In addition, Chevron supervisory personnel will be trained or prepared in the following areas:

1. The effect of H2S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.

2. Corrective action and shut-down procedures when drilling or working a well, blowout prevention and well control procedures, if the nature of work performed involves these items.

3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

II. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location.

A. Wind direction indicators as seen in attached diagram.
B. Automatic H2S detection alarm equipment (both audio and visual).
C. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS" and "CAUTION" with a strong color contrast.
D. Protective breathing equipment will be located in the dog house and at the briefing areas as seen in the attached diagram.

2. Well Control Systems

A. Blowout Prevention Equipment
Equipment includes but is not limited to:

a. pipe rams to accommodate all pipe sizes
b. blind rams
c. choke manifold
d. closing unit

Auxiliary equipment added as appropriate includes:

a. annular preventor NA
b. rotating head NA
c. mud-gas separator NA
d. flare line and means of ignition NA
e. remote operated choke NA

B. Communication

The rig contractor will be required to have a two-way communication capability. Chevron U.S.A. Inc. will have either land-line or mobile telephone capabilities.

C. Mud Program

The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers when appropriate will minimize hazards when penetrating H2S bearing formations.

D. No Drill Stem Tests are planned.

III. WELL SITE DIAGRAM

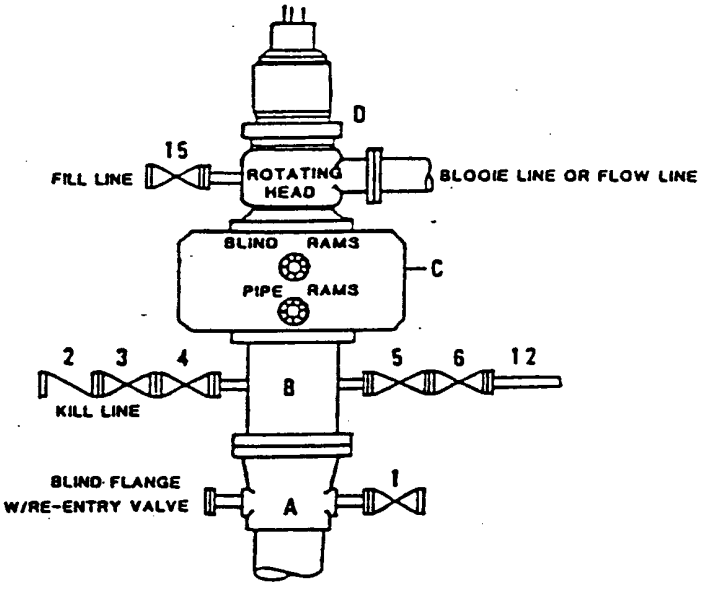
A complete well site diagram including the following information is attached.

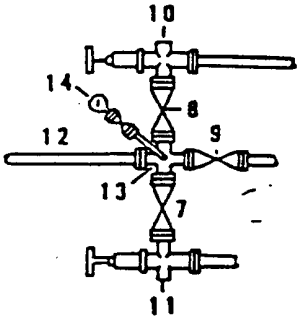
1. Rig orientation
2. Briefing areas
3. Ingress and egress
4. Pits and flare lines
5. Caution and danger signs
6. Wind indicators and prevailing wind direction

DRILLING CONTROL
CONDITION II-B 3000 WP

FOR AIR DRILLING OR
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED

H_2S TRIM REQUIRED
YES_____ NO X





DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

A	Texaco Wellhead
B	3000# W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
C	3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where substructure height is adequate, 2 - 3000# W.P. single ram type preventers may be utilized).
D	Rotating Head with fill up outlet and extended Blooie Line.
1,3,4, 7,8,	2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
2	2" minimum 3000# W.P. back pressure valve.
5,6,9	3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
12	3" minimum schedule 80, Grade "B", seamless line pipe.
13	2" minimum x 3" minimum 3000# W.P. flanged cross.
10,11	2" minimum 3000# W.P. adjustable choke bodies.
14	Cameron Mud Gauge or equivalent (location optional in choke line).
15	2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

TEXACO, INC.
MIDLAND DIVISION
MIDLAND, TEXAS

SCALE	DATE	EST. NO.	DRG. NO.
DRAWN BY			
CHECKED BY			
APPROVED BY			

EXHIBIT C

D. CLASS III CHOKE MANIFOLD

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 minimun 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 blooey 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 seperator 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.

Figure 11J.8 - Class III Choke Manifold