Form 3160-3 (December 1990)	IL III. MIL P. O. X HOBBIN DEPARTMEN BUREAU OI	OPER OGRIO N PROPERTY NO. POOL CIPOS EFF. DATE 3	928D 58900	LICATE	Form approved.  Budget Bureau I Expires: Decem	iber 31, 1991
IA. TYPE OF WORK	CATION FOR F	APINO 3D	025.338		NMLC064118  G IF INDIAN. ALLOTTES  7. OHIT AGREEMENT NA	
2. NAME OF OPERATOR	ROLEUM OPERATING	<del></del>	INGLE MULTIN	Poding E	E.C. HILL "B"	FEDERAL #24
3. ACCRESS AND TELEPHONE NO.	l. Suite 1000. 1	fidland, TX 797	01 915/683-4	434	30-025- 10. FIELD AFB POOL OF TEAGUE SIMPSO	
At proposed prod. son	•	•	0' FSL & 560' I		11. ESC., T., R., M., OR BE AND SURVEY OR ARE Sec. 34, T23S	. R37E
11 miles 13. DISTANCE FROM PROPULOCATION TO NEAREST PROPERTY OR LEASE L (Also to Desrest drig	NE of Jal, NM  INE, FT.  . unit line, if any;	560' 16. N	0. OF ACRES IN LEASE  520  ROPOSED DEPTH	17. NO. OF TO TH	LEA  ACRES ASSIGNED IS WELL  40	NM
TO REARRET WELL, DI OR AFFLIRD FOR, ON THE 21. ELEVATIONS (Show whe 3265 GR	RILLING, COMPLETED, 8 LEASE, FT.	.295'	9700'	20. ROTAR	T OR CABLE TOOLS  ATY  22. APPROX. DATE WORL  ASAP	E WILL START*
		PROPOSED CASING AN	CEMENTING PROGRA	CAPIT	<b>TAN CONTROL</b>	LED WATER BA
17-1/2"	13-3/8"	48# H40	SETTING DEPTH	175 5	QUANTITY OF CEMENT	ANTINESS
12-1/4"	8-5/8"	24# & 32# K5		·	x, circ surfac	
7-7/8"	5-1/2"	15.5# & 17# K55 & N80	9700'	925 s	x, eire surfac	:e
Mud Program  We plan to use	0' - 350' 350' -3000' 3000' -9700' a 5000 psi Shaffeilling permit, we	Spud mud, FW Brine & native Fresh water ge	7, gel mud, mud weigh 18.6 - 9.2 ppg, vi lic-operated BOP	t 10 - 10. iscosity 2 during th	2 ppg, viscosity 8 - 35 ne drilling of this	25 - 28 s well. Upon
				GENE	OVAL SUBJECT TO RAL REQUIREME AL STIPULATION CHED	NTS AND
ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If p	oposal is to despez, give data	on present productive zeeco a	್ಷ ಶ್ವ <b>ೂರಂತಿಕಾಗ ಅ</b>	rw productive zone. If prop	osal is to drill or
spen directionally, give pertine	. Sutherland	and measured and true vertica	District Manag	er en manere i sen men er en manere i sen men	DATE 2-12-	
(This space for Federa FERMIT NO.  Application approval does not CONDITIONS OF APPROVAL,	warrant or certify that the appl		APPROVAL DATE	se which would		
ORIG	SGDATONY FE	RGUSON  TITLE  *See Instructions (	ADM, MINE	PALS	DATE 3.77.	<del>j</del> /

Received Hobbs OCD

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

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

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

DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410

OIL CONSERVATION DIVISION
P. 0. Box 2088
Santa Fe, New Mexico 87504-2088

ROSWELL, RY AMENDED REPORT

<u>DISTRICT IV</u> P. O. Box 2088 Sonto Fe, NM 87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-025-33	889	<sup>7</sup> Pool Code 58900	3 Poo	TEAGUE	SIMPSON			
Property Code	<sup>5</sup> Property N		. HILL	'B' FEDE	RAL		• Vell Number 24	
OGRID No. 017805	• Operator No	PLAINS PET	Υ	* Elevation 3265	•			
		'° SU	RFACE	LOCATION				
UL or lot no. Section		Range 37 EAST, N.M.P.M		Feet from the 2280'	North/South line SOUTH	Feet from the 560'	East/West line EAST	County LEA
	"BOTT(	OM HOLE LOCAT	TION IF	DIFFEREN	NT FROM SU	JRFACE		
UL or lot no. Section		Range			North/South line		East/West line	County
12 Dedicated Acres 13 d	loint or Infill	14 Consolidation Code	15 Order	No.	L	1	·	
NO A	LLOWABLE WI	ELL BE ASSIGNED OR A NON-STANI	TO THIS	COMPLETION IT HAS BEEN	UNTIL ALL IN APPROVED B	TERESTS HA	VE BEEN	
					2280'	Printed Name James R Title Distric Date 2-12-97  SURVEYO  I hereby inception shiplotted from surveys m my super same is tribest of my  Date of Surveys mental surveys menta	RUANTIES 198	ATION  ATION  the wall color octual r under that the to the



PLAINS PETROLEUM OPERATING COMPANY

E. C. Hill "B" Federal #24 2280' FSL & 560' FEL Sec. 34 (I), T23S, R37E Lea County, New Mexico Lease No.: NMLC064118 Lea County, New Mexico

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: 3265'	KB: 32	277
<u>FORMATION</u>	TOP	<u>SS</u>
Penrose	3406'	-129'
Glorieta	4916'	-1639'
Paddock	5031'	-1754'
Blinebry	5261'	-1984'
Tubb Drinkard	5911' 6315'	-2634'
Abo	6397	-3120'
Devonian	7221'	-3944'
Silurian	7726'	-4449'
Fusselman	8126'	-4849'
Montoya	8501'	-5244'
Simpson	8801'	-5524'
McKee	9161'	-5884'
Ellenburger	9586'	-6309'
TD	9700'	-6423'



Plains Petroleum Operating Company E. C. Hill "B" Federal #24 Lea County, New Mexico Lease No. NMLC064118 February 12, 1997 Page 2

### 2. CASING DETAIL

	CASING SIZE OD	INTERVAL	LENGTH OF INTERVAL	WEIGHT #/FT	INIERVAL 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	\$TC
	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	urc
	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	1-55	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 <sup>3</sup>	940 Ft <sup>3</sup>	1150 Ft³, 475 Ft³
Recommended Volume	490 Ft <sup>3</sup>	1410 Ft <sup>3</sup>	1325 Ft³, 475 Ft³
DV Tool Depth	N/A	N/A	6000'



Plains Petroleum Operating Company E. C. Hill "B" Federal #24 Lea County, New Mexico Lease No. NMLC064118 February 12, 1997 Page 3

# **SLURRY**

	Surface	Intermediate	Production 1st Stage	Production 2nd Stage
Recommendation	375 sx Premium Plus +2% CaCl <sub>2</sub> + 1/4#/sk Flocele	Lead: 450 sx Premium Plus cement + .25% Dispersant + 2.5% Extender + .5% Gel + .2% Salt + 1/4 PPS Flocele. Tail: 100 sx Premium Plus cement	Lead: 100 sx Premium cement 35:65 Poz + 6% Gel + 9 PPS Salt + .2% Defoamer + .8% FLA. Tail: 575 sx Premium cement 50:50 Poz + 2% Gel + 4 PPS Salt + .2% Defoamer + .6% F LA	Lead: 150 sx Premium cement + .25% Dispersant + 2.5% Extender + .5% Gel + .2% Salt + 1/4 PPS Flocele. Tail: 100 sx Premium cement
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



Plains Petroleum Operating Company E. C. Hill "B" Federal #24 Lea County, New Mexico Lease No. NMLC064118 February 12, 1997 Page 4

#### 4. MUD DETAIL

DEPTH	<u>PROPERTIES</u>	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' - 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 5000# 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, 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-DIL-ML-Caliper

Plains Petroleum Operating Company E. C. Hill "B" Federal #24 Lea County, New Mexico Lease No. NMLC064118 February 12, 1997 Page 5

### 7. POTENTIAL HAZARDS:

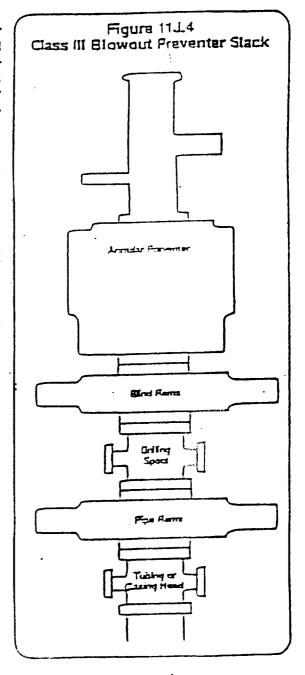
No abnormal pressures or temperatures are anticipated. Hydrogen sulfide Drilling Contingency Plan to be adhered to while drilling this well.

# 8. ANTICIPATED START DATE:

March 13, 1997 and the well to be completed on or about April 12, 1997.



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 prevener on bonom. The choke and kill lines are instatled onto the drilling spool and must have a minimum internal dameter of 27. All side outlets on the preventers or drilling spool must ba flanged, studded, or damped. An emargency kill fine may be installed on the wellhead. A desuble ram praventer should only be used when space findations make it necessary to remove the drilling stool. In these instances. the choke marrifold should be connected to a llanged outlet between the preventer rams In this hookup, the pipe cams are emsidered master rams only, and cannot be used to routinely droubts out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.



LAMERE