						G-06-6	24 SAPE
Form 3160-3 (December 1990)	9 as:	earthen pits are sociation with t ell, an OCD pit tained prior to	he dri permi	lling of this it must be	TRIPLIC. tructions (e side)	ATE* Form approved	u No. 1004-0136 mber 31, 1991
	BURE	tained prior to	pit co			S. LEASE DESIGNATION NM-11	
A DDI I	CATION FOR F	1977 TO 18	WII I	OR DEED	FN	6. IF INDIAN, ALLOTTE	
Ia. TYPE OF WORK	70	A CONTRACTOR	3/	L ON BEEL I			
b. type of well		BEEREN [\	(-ed	7. UNIT AGREEMENT	
WELL 🔼 🔻 W	as Vell OTHER	RECEIVED	2		MULTIPLE ZONE	8. FARM OR LEASE NAME, W	200/
2. NAME OF OPERATOR Mack Energy Corp	oration \mathred{\text{\tin}\text{\tin}\etx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\etx{\text{\tin}\etx{\text{\tin}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}}\\ \tint{\text{\text{\text{\texi}\text{\text{\texi}\text{\tex{\texi}\texitt{\text{\texi}\text{\texi}\texitit{\texitit{\texi}\tin}\text{\texi}\texit{\texi}\texitt{\texit{\texi{\texi{\t	RECEIVED OCO - ARTESY	776	1383	フ	Robin Fed	leral #1
3. ADDRESS AND TELEPHONE NO.		000	<u>,⊗</u>	1503		30-015	-35198
	sia, NM 88211-0960	(505) ₄ 78	18/128	8		10. FIELD AND POOL, (OR WILDCAT
4. LOCATION OF WELI			_		-Undes.	Sies Dolarini M	lorrow
At surface	• •	310 FNL & 2530	-	=	-	11. SEC., T., R., M., OR AND SURVEY OR A	
At proposed prod. zon		510 FNL & 2550) I 44 J	APPROVAL		THE	
		660 FNL & 1980		·	PPISIA	Sec. 9 123	
14. DISTANCE IN MILES AN				E*		12. COUNTY OR PARIS	
15 DISTANCE FROM PROPO		outhwest of Carl		OF ACRES IN THE	- 1	Eddy	NM
PROPERTY OR LEASE I (Also to nearest drig	T LINE, FT. g. unit line, if any)	310	_	OF ACRES IN LEASE 320	Т		320
18. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON TH	ULLING, COMPLETED IS LEASE, FT.	N/A	19. PR	11,500	20. R	OTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show w	vhether DF, RT, GR, etc.) 3715' GR	CARLERAN	701PM	DOT 1 1770 981 A 179	75 5 4 75 7	22. APPROX. DATE WORL	
23.	5/13 GK			CEMENTING PRO		5/25/2	000
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	тос	SETTING DEPT	н	QUANTITY OF CEME	:NT
17 1/2	H-40,13 3/8	48		300	r	Circ	N
12 1/4	J-55,9 5/8	36		-255 0(5	575	Circ	INTINESS.
7 7/8	J-55, 5 1/2	17		11,500		Suff to Circ	
`	non-productive, the	well will be plug nd Gas Order #1	ged an are ou	d abandoned in	ı a manner	for gas. If productive consistent with federa chments:	, ,
Exhibit #1- Well	Location Plat	4. Certi	fication	<u>n</u>		7. Responsi	bility Statement
Exhibit #2- Vicin				ulfide Drilling (H2S Warning S	Operation I	<u>Plan</u>	. > 95%" cho
2. <u>Drilling Program</u>	<u>!</u>			H2S Safety Equ	ipment ~	3M BOPE bel [See stip5]	6. G.
2 Cumfana Han P. O.	narating Dia-	6. <u>Blow</u>				1	
3. Surface Use & Or Exhibit #4- One N				BOPE Schema			_
	uction Facilities Lay	Exhil out E	oit #10-	· Blowout Preve	enter Requi	ROVAL SUBJECT	TO
Exhibit #6- Locat	tion Layout				CEN	FRAL REDUIKEN	MEILIO WILL
		If proposal is to deeper	n, give da	ta on present producti	ive zone 🗚	OHAL-STIPULATI	DNS is to drill or
deepen directionally, give pertin	nent data on subsurface locati	ons and measured and tr	rue vertica	l depths. Give blowou	t prevente prog	ACHED	•
24. SIGNED Perry	w. Shene	<u> </u>	E	Producti			25/2006
(This space for Feder	rol or State off						
PERMIT NO.	,		A	PPROVAL DATE	:		OCT - 4 2008
						h would entitle the applicant to co	
CONDITIONS OF APPROVAL			MILE STEEL	er en enose tights in the ?	sanject tease whit	a would coulde the applicant to co	nauct operations thereon.
•		ACTING	-	THE TABLE A RES	A CED		- 0000
/8/	Don Peterson		F	ELD MANA	YUEK	OCT - 4	Į 2008
APPROVED BY		TITLE .				DATE	
		*See Instru	ctions	On Reverse Sid	de AF	PROVAL FOR	≀ 1 YEAR

DISTRICT I 1625 N. PRENCH DR., HOBBS, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Departmento

Form C-102 d October 12, 2005 Appropriate District Office ate Lease - 4 Copies ee Lease - 3 Copies

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88216

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION ARTESIA 1220 SOUTH ST. FRANCIS DRES

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION

1230 S. ST. FRANCIS DR., SANTA FR., NM 675	WELL LUCATION AND ACREAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code Pool Name	
	85160 Undes, Shop Draw: Morrow	
Property Code	Property Name	Well Number
	ROBIN FEDERAL	1
OGRID No.	Operator Name	Elevation
013837	MACK ENERGY CORPORATION	3715'
1		1

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	9	23-S	25-E		310	NORTH	2530	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	ip	Range	Lot Id	מ	Feet from the	North/South line	Feet from the	East/West line	County
С	9	23~	-s	25-E			660	NORTH	1980	WEST	EDDY
Dedicated Acres	Joint o	r Infill	Con	solidation (Code	Orc	ler No.				
320		-									

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

DRO LECT. AREA	SURF.		OPERATOR CERTIFICATION
2530	SEE DETAIL D AZ. = 236'09'44" RID DIST. = 655.2'	3729.5' 3723.9' 3723.9' 5 5 600' 5 3719.0' 3705.3'	I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hale location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
BOTTOM HOLE LOCATION Y=4817222 N X=478245 4 E	GEODETIC COORDI NAD 27 NME Y=482087.0 X=478789.5 LAT.=32*19'31.20 LONG.=104'24'07.	N E B" N	Jerry W. Sherrell Printed Name 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.
			APRIL 3, 2006 Date Surveyed Signature & Seal of D Professional Surveyor. Date Surveyed LA Signature & Seal of D Professional Surveyor. 06.11.0589
			Certificate No. GARY EIDSON 12641



Mack Energy Corp.

Eddy County, NM (NAD 27 NME) Robin Federal #1 Robin Federal #1 OH

Plan: Plan #2

Standard Planning Report

23 October, 2006



Planning Report



EDM 2003.14 Single User Db

Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

Robin Federal #1 Robin Federal #1

ОН Plan #2 and the second control of the second control

Well Robin Federal #1 WELL @ 3738.0ft (KB Elev) WELL @ 3738.0ft (KB Elev) Grid

Minimum Curvature

Eddy County, NM (NAD 27 NME)

Map System:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Geo Datum:

System Datum:

Mean Sea Level

Map Zone:

New Mexico East 3001

Robin Federal #1

Site Position:

Well

Well Position

Northing:

482,087.00ft

Latitude:

32° 19' 31.276 N

From:

Map

+N/-S

+E/-W

Easting:

478,789.50ft

Longitude:

Position Uncertainty:

Robin Federal #1

Slot Radius:

Grid Convergence:

104° 24' 7.197 W -0.04

0.0 ft

Northing:

482,087.00 ft

Latitude: Longitude: 32° 19' 31.276 N

Position Uncertainty

0.0 ft

0.0 ft

0.0 ft

Easting: Wellhead Elevation: 478,789.50 ft 3,738.0 ft

Ground Level:

104° 24' 7.197 W 0.0 ft

Wellbore: OH

Magnetics Model Name

Sample Date

Declination

Dip Angle

Field Strength

IGRF200510

2006-10-23

8.51

60.25

49.059

Design Plan #2

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD)

(ft)

0.0

+E/-W (ft)

Direction

(ft) 0.0

0.0

(°) 235.93

lan Sections	- 4,	1.8111				***			*	
Measured			Vertical			Dogleg	Build	Turn		
and the second of the second o	Inclination	Azimuth	Depth	+N/-S	+E/-W	Rate	Rate	Rate	TFO	
(ft)	O	(7)	(n)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,567.2	17.02	235.93	6,558.9	-46.9	-69.3	3.00	3.00	0.00	235.93	
8,138.7	17.02	235.93	8,061.6	-304.5	-450.2	0.00	0.00	0.00	0.00	
8,989.6	0.00	0.00	8,900.0	-374.8	-554.1	2.00	-2.00	0.00	180.00	
9,089.6	0.00	0.00	9,000.0	-374.8	-554.1	0.00	0.00	0.00	0.00	PBHL-RF #1
11,589.6	0.00	0.00	11,500.0	-374.8	-554.1	0.00	0.00	0.00	0.00	

Planning Report



EDM 2003.14 Single User Db

Mack Energy Corp. Eddy County, NM (NAD 27 NME)

Robin Federal #1 Robin Federal #1

ОН Plan #2

Well Robin Federal #1 WELL @ 3738.0ft (KB Elev) WELL @ 3738.0ft (KB Elev) Grid Minimum Curvature

Design: 1 Flatt #2	NOTE AND DESCRIPTION OF	Marketan Marketa	Coll. Lastroide Arch				edini de l'Adioration d'Albert II.	total disententiation (ASI)	i en d'amendacionales de la
	AND STREET SECTION	TOTAL TRANSPORT	HOLDER TRANSPORTED	e terro di di de di dece	ENGLIS DIVISIONENZA (SEGRETE)	Bergeralden besteht bei beit	tot parities at the fact of	(1997年 1885年 1886年11日 1897年11日 1897年11	CONTRACTOR OF THE PROPERTY OF THE PARTY.
Planned Survey	PROBLEM TO COL	CONTRACTOR OF THE STATE OF THE	STATES TO COMPANY STATES	a the second and parties.	BERLY, WEST CHESTISS		OUNTRACTOR OF THE	140-151.000-491 2 0-080	CONTRACTOR
						Add to	A A TELL		\$1544 E.C.
Measured			Verticai? 🛷		V	ertical .	Dogleg	Bulld:	Turn
Depth : Onci	ination Az	inuur 💮	Depth	+NLS	+E/-W S	ection	Rate	Rate	Rate
(n)	76. 3	(°)	(m)	m	(ft)	The state of the s	*/100ft) (A CALL THE AND A STATE OF THE AN	(*/100ft)*.
	MERRY			S MALL LAND				Carl Line Francis strain	The state of the s
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
East HL-RF #1 - No	orth HI -RF #1								
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00		300.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0		0.00			0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
			4 000 0			0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,575.0	0.00	0.00	1,575.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8" Casing									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1									
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report



Databases Company: EDM 2003.14 Single User Db Mack Energy Corp. Eddy County, NM (NAD 27 NME) Robin Federal #1 Robin Federal #1 OH

Plan #2

Local Co-ordinate Reference TVD Reference JAD Reference North Reference Well Robin Federal #1
WELL @ 3738.0ft (KB Elev)
WELL @ 3738.0ft (KB Elev)
Grid
Minimum Curvature

Planned Survey	Security (1985) as well (1977)	A SECTION ASSESSMENT AND	Carried Market Control of the		的分析 不完全的 经金额 医红色细胞	AND STREET STREET, STREET AND STREET	u ia dinamentalia ia	e andre i della over mediane della	Harmon Stranger Stran
7-11-12-20-17-1					SAN YEN HISTO				
Measured			Vertical			Vertical	Dogleg	Bulld	Time
	lination	Azimuth	Vertical Depth	*+N/-S	+E/-W	Section	Rete	Rate	Turn Rate
m	(°)	(°)	(70)	(m)	(ft)	(n)	(*/100ft)	(*/100ft)	(*/100ft)
				enchiele.	15 km 19. VII. 18 km km km	an Fyring			ascelae lact.
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - build 3.0°/			.,						
6,100.0	3.00	235.93	6,100.0	-1.5	-2.2	2.6	3.00	3.00	0.00
6,200.0	6.00	235.93	6,199.6	-5.9	-8.7	10.5	3.00	3.00	0.00
6,300.0	9.00	235.93	6,298.8	-13.2	-19.5	23.5	3.00	3.00	0.00
6,400.0	12.00	235.93	6,397.1	-23.4	-34.6	41.7	3.00	3.00	0.00
6,500.0	15.00	235.93 235.93	6,397.1 6,494.3	-23.4 -36.5	-54.6 -53.9	41.7 65.1	3.00	3.00	0.00
6,567.2	17.02	235.93	6,558.9	-46.9	-69.3	83.6	3.00	3.00	0.00
EOC - hold 17.02		230.00	5,555.5	40.0	55.5	55.5	0.00	0.00	-
6,600.0	17.02	235.93	6.590.3	-52.2	-77.2	93.2	0.00	0.00	0.00
6,700.0	17.02	235.93	6,685.9	-68.6	-101.4	122.5	0.00	0.00	0.00
			·						
6,800.0	17.02	235.93	6,781.5	-85.0	-125.7	151.7	0.00	0.00	0.00
6,900.0	17.02	235.93	6,877.1	-101.4	-149.9	181.0	0.00	0.00	0.00
7,000.0	17.02	235.93	6,972.7	-117.8	-174.2	210.3	0.00	0.00	0.00
7,100.0 7,200.0	17.02	235.93	7,068.4	-134.2	-198.4	239.5 268.8	0.00 0.00	0.00	0.00 0.00
7,200.0	17.02	235.93	7,164.0	-150.6	-222.7	200.0	0.00	0.00	0.00
7,300.0	17.02	235.93	7,259.6	-167.0	-246.9	298.1	0.00	0.00	0.00
7,400.0	17.02	235.93	7,355.2	-183.4	-271.1	327.3	0.00	0.00	0.00
7,500.0	17.02	235.93	7,450.9	-199.8	-295.4	356.6	0.00	0.00	0.00
7,600.0	17.02	235.93	7,546.5	-216.2	-319.6	385.9	0.00	0.00	0.00
7,700.0	17.02	235.93	7,642.1	-232.6	-343.9	415.1	0.00	0.00	0.00
7,800.0	17.02	235.93	7,737.7	-249.0	~368.1	444.4	0.00	0.00	0.00
7,900.0	17.02	235.93	7,833.3	-265.4	-392.3	473.7	0.00	0.00	0.00
8,000.0	17.02	235.93	7,929.0	-281.8	-416.6	502.9	0.00	0.00	0.00
8,100.0	17.02	235.93	8,024.6	-298.2	-440.8	532.2	0.00	0.00	0.00
8,138.7	17.02	235.93	8,061.6	-304.5	-450.2	543.5	0.00	0.00	0.00
KOP - drop 2.0°/1	100'								
8,200.0	15.79	235.93	8,120.4	-314.2	-464.5	560.8	2.00	-2.00	0.00
8,300.0	13.79	235.93	8,217.1	-328.5	-485.7	586.4	2.00	-2.00	0.00
8,400.0	11.79	235.93	8,314.6	-340.9	-504.0	608.5	2.00	-2.00	0.00
8,500.0	9.79	235.93	8,412.8	-351.4	-519.5	627.2	2.00	-2.00	0.00
8,600.0	7.79	235.93	8,511.6	-360.0	-532.2	642.5	2.00	-2.00	0.00
8,700.0	5.79	235.93	8,610.9	-366.6	-542.0	654.3	2.00	-2.00	0.00
8,800.0	3.79	235.93	8,710.6	-371.3	-548.9	662.7	2.00	·-2.00	0.00
8,900.0	1.79	235.93	8,810.5	-374.0	-552.9	667.6	2.00	-2.00	0.00
8,989.6	0.00	0.00	8,900.0	-374.8	-554.1	669.0	2.00	-2.00	0.00
EOC - hold 0.0°									
9,000.0	0.00	0.00	8,910.4	-374.8	-554.1	669.0	0.00	0.00	0.00
9,089.6	0.00	0.00	9,000.0	-374.8	- 554.1	669.0	0.00	0.00	0.00
PBHL-RF #1	0.00	0.00	0.040.4	274.0	554.4		2.00		0.00
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9,200.0 9,300.0	0.00	0.00	9,110.4	-374.8 374.8	-554.1 -554.1	669.0 669.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,210.4	-374.8	-554.1	669.0	0.00	0.00	· 0.00

Planning Report



Design:

EDM 2003.14 Single User Db

Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

Robin Federal #1 Robin Federal #1

ОН Plan #2 Local Co-ordinate Reference LVD Reference LVD Reference LVD Reference North Reference Survey Calculation Method

Well Robin Federal #1 WELL @ 3738.0ft (KB Elev) WELL @ 3738.0ft (KB Elev) Grid

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Minimum Curvature

Planned Survey	PTHICPSEMESSIAN CO	(#1935) 1831 PA	的原理的概念的法定是 6個	(1850年1986年1985年1984年1986年1986年1986年1986年1986年1986年1986年1986	PREMIUM PENEL MENT DE	\$5.500.000m/10.000/200/400	SPATIC PRESIDENCE	PERSONAL SERVICE PROPERTY OF THE PERSON NAMED IN	COLUMN PROPERTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS O
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9,400.0	0.00	0.00	9,310.4	-374.8	-554.1	669.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,410.4	-374.8	-554.1	669.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,510.4	-374.8	-554.1	669.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,610.4	-374.8	-554.1	669.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,710.4	-374.8	-554.1	669.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,810.4	-374.8	-554.1	669.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,910.4	-374.8	-554.1	669.0	0.00	0.00	0.00
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10,200.0	0.00	0.00	10,110.4	-374.8	-554.1	669.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,210.4	-374.8	-554.1	669.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,310.4	-374.8	-554.1	669.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,410.4	-374.8	-554.1	669.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,510.4	-374.8	-554.1	669.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,610.4	-374.8	-554.1	669.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,710.4	-374.8	-554.1	669.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,810.4	-374.8	-554.1	669.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,910.4	-374.8	-554.1	669.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,010.4	-374.8	-554.1	669.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,110.4	-374.8	-554.1	669.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,210.4	-374.8	-554.1	669.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,310.4	-374.8	-554.1	669.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,410.4	-374.8	-554.1	669.0	0.00	0.00	0.00
11,589.6	0.00	0.00	11,500.0	-374.8	-554.1	669.0	0.00	0.00	0.00

Targets Target Name - hit/miss target Dip	Angle	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL-RF #1 - plan hits target - Circle (radius 10.0)	0.00	360.00	9,000.0	-374.8	-554.1	481,712.20	478,235.40	32° 19' 27.564 N	104° 24' 13.651 W
North HL-RF #1 - plan misses by 655.1ft a - Rectangle (sides W0.0 h			0.0 0.0 N, 0.0 E)	-364.8	-544.1	481,722.20	478,245.40	32° 19' 27.663 N	104° 24' 13.535 W
East HL-RF #1 - plan misses by 655.1ft a - Rectangle (sides W800.			0.0 0.0 N, 0.0 E)	-364.8	-544.1	481,722.20	478,245.40	32° 19′ 27.663 N	104° 24' 13.535 W

Casing Points		· · · · · · · · · · · · · · · · · · ·	
Measured	Vertical		Càiling Hole
Depth (R)	Depth (ft)		Diameter Diameter Name (fi) (fi)
1,575.0	1,575.0	9 5/8" Casing	9.62500 0.00000

Planning Report



EDM 2003.14 Single User Db

Mack Energy Corp. Eddy County, NM (NAD 27 NME)

Robin Federal #1 Robin Federal #1

> ОН Plan #2

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Minimum Curvature

Plan Annotations	MALESCON CALIFORNIA CARE (PROCESSOR CONT.)	ACCOUNT OF THE SECOND PROCESSOR SEASON OF THE	POLY I A SE SENDOMENTO DESGRIPTION DE L'AN	
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m	m	(ft)	(ft)	Comment
SALES SILES				
6,000.0	6,000.0	0.0	0.0	KOP - build 3.0°/100'
6,567.2	6,558.9	-46.9	-69.3	EOC - hold 17.02°
8,138.7	8,061.6	-304.5	-450.2	KOP - drop 2.0°/100'
8.989.6	•			EOC - hold 0.0°
0,969.0	8,900.0	-374.8	-554.1	EOC - noid 0.0

Mack Energy Corp.

Vertical Section at 235.93° (100 ft/in)

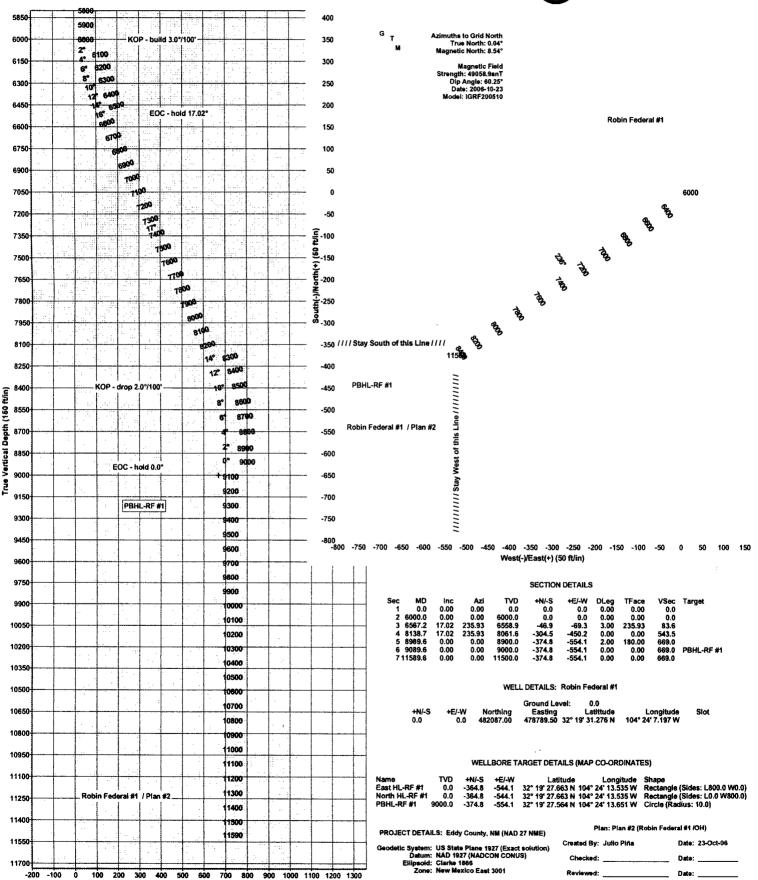
Project: Eddy County, NM (NAD 27 NME) Site: Robin Federal #1

Weil: Robin Federal #1

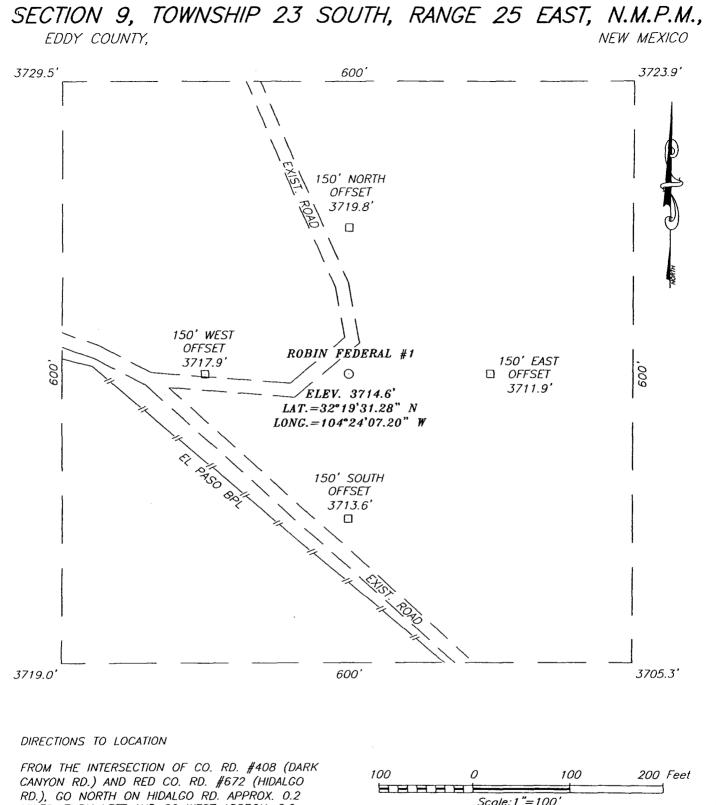
Wellbore: OH

Design: Plan #2





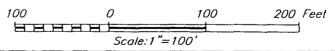
System Datum: Mean Sea Level



MILÉS. TURN LEFT AND GO WEST APPROX. 2.2 MILES. TURN RIGHT AND GO NORTHEAST APPROX. 1.0 MILE TO A "Y" INTERSECTION. TURN LEFT AND GO NORTHWEST APPROX. 2.1 MILES. THIS LOCATION IS 150 FEET EAST.



PROVIDING SURVEYING SERVICES SINCE 1948 IOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117

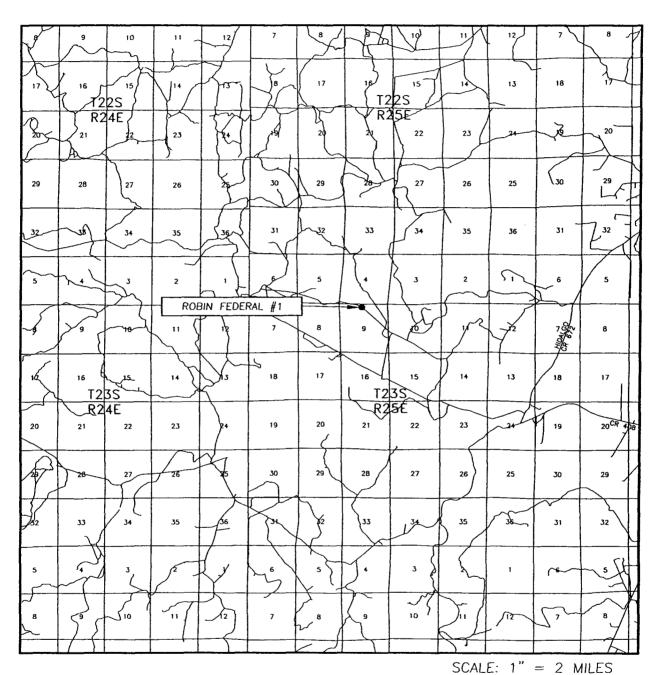


MACK ENERGY CORPORATION

ROBIN FEDERAL #1 WELL LOCATED 310 FEET FROM THE NORTH LINE AND 2530 FEET FROM THE WEST LINE OF SECTION 9, TOWNSHIP 23 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

	Survey Date: 4,	4/3/06		Sheet	1	of	f 1 Sheets		
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	Date: 4/11/06	Disk: CD#	¥5	0611	0589	7	Scale:1"=100'		

VICINITY MAP



SEC. 9 TWP. 23-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 310' FNL & 2530' FWL

ELEVATION 3715'

MACK ENERGY

OPERATOR CORPORATION

LEASE ROBIN FEDERAL



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: CARNERO PEAK, N.M. - 20'

SEC. 9 TWP. 23—S RGE. 25—E

SURVEY N.M.P.M.

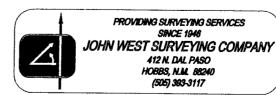
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 310' FNL & 2530' FWL

ELEVATION 3715'
MACK ENERGY
OPERATOR CORPORATION

LEASE ROBIN FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
CARNERO PEAK, N.M.



DRILLING PROGRAM

1. Geologic Name of Surface Formation

Ouaternary

2. Estimated Tops of Important Geologic Markers:

Quaternary	Surface		
Wolfcamp	8638'	Atoka	10433'
Penn	9750'	Morrow	10882'
Strawn	9952'		

3. Estimated Depths of Anticipated Fresh Water, Oil and Gas:

Water Sand	450'	Fresh Water
Strawn	9952'	Gas
Atoka	10433'	Gas
Morrow	10882'	Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 300' and circulating cement back to surface will protect the surface fresh water sand. Salt Section will be protected by setting 9 5/8" casing to 2550' and circulating cement back to surface. Any shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them by cementing 5 1/2" production casing, which will be run at TD.

4. Casing Program:

Hole Size	e Interval	OD Casing	Weight, Grade, Jt, Cond., Type
17 ½" 12 ½"	0-300' 0-2550'	13 3/8" 9 5/8"	48#, H-40, ST&C, New, R-3 36#, J-55, ST&C, New, R-3
7 7/8"	0-TD	5 1/2"	17#, J-55, LT&C, New, R-3

5. Cement Program:

13 3/8" Surface Casing: Circulate to Surface with Class C w/2% CaCl2.

9 5/8 Intermiate Casing: Circulate to Surface with Class C W/2% CaCl2.

5 1/2" Production Casing: Cement Casing with Class C w/6# Salt & 2/10 of 1% CFR-3 per sack. We will run a hole caliper and run sufficient cement to circulate to surface.

6. Minimum Specifications for Pressure Control:

Drilling Program Page 1

The blowout preventer equipment (BOP) shown in Exhibit #9 will consist of a double ram-type (2000 psi WP) preventer. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top of 4 1/2" drill pipe rams on bottom. The BOP will be nippled up on the 13 3/8" surface casing and tested to 1500 psi by a 3rd party. The BOP will then be nippled up on the 9 5/8" intermediate casing and tested by a 3rd party to 2000 psi and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 2000 psi before drilling out of intermediate casing. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment (Exhibit #10) will include a Kelly cock and floor safety valve and choke lines and choke manifold (Exhibit #11) with 2000 psi WP rating.

3000 ps,

7. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination of brine, cut brine and polymer mud system. The applicable depths and properties of this system are as follows:

DEPTH	TYPE	WEIGHT	VISCOSITY	WATERLOSS
0-300'	Fresh Water	8.5	28	N.C.
300-2550'	Fresh Water	8.5	30	N.C.
2550'-TD	Cut Brine	9.1	29	N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times.

8. Auxiliary Well Control and Monitoring Equipment:

- A. Kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

9. Logging, Testing and Coring Program:

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be ran from T.D. to 9 5/8 casing shoe.
- B. Drill Stem test is not anticipated.
- C. No conventional coring is anticipated.
- D. Further testing procedures will be determined after the 5 1/2" production casing has been cemented at TD based on drill shows and log evaluation.

10. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 110 degrees and estimated maximum bottom hole pressure is 2300 psig. Low levels of Hydrogen sulfide have been monitors in producing wells in the area, so H2S may be present while drilling of the well a plan is attached to the Drilling program. No major loss of circulation zones has been reported in offsetting wells.

11. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is May 25, 2006. Once commenced, the drilling operation should be finished in approximately 20 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

SURFACE USE AND OPERATING PLAN

1. Existing & Proposed Access Roads

- A. The well site and elevation plat for the proposed well is shown in Exhibit #1. It was staked by John West Engineering, Hobbs, NM.
- B. All roads to the location are shown in Exhibit below. The existing lease roads are illustrated in Blue and are adequate for travel during drilling and production operations. Upgrading existing roads prior to drilling well will be done where necessary.
- C. Directions to Location: From the intersection of CR 408(Dark Canyon Rd.) and CR 672(Hidalgo), go north on CR 672 .2 mile, turn west 2.2 miles, turn right NE go 1.0 mile to a Y, turn left NW 2.1 miles, location is 150' east from this point.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.



Exhibit #4

2. Proposed Access Road:

Exhibit #3 shows the 0' of new access road to be constructed. The road will be constructed as follows:

- A. The Maximum width of the running surface will be 14'. The road will be crowned and ditched and constructed of 6" rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattleguard, gates, low water crossings or fence cuts are necessary.
- E. Surfacing material will consist of native caliche. Caliche will be obtained from the nearest BLM approved caliche pit.

F. The proposed access road as shown in Exhibit #3 has been centerline flagged by John West Engineering, Hobbs, New Mexico.

3. Location of Existing Wells & Proposed flow lines for New Wells:

Exhibit #4 shows no existing wells within a one-mile radius of this well. Proposed flow lines, will stay on this location a production facility will be built on this location.

4. Location of Existing and/or Proposed Facilities:

- A. Mack Energy Corporation does not operate a production facility on this lease.
- B. If the well is productive, contemplated facilities will be as follows:
 - 1) Morrow Completion: Will be sent to the Robin Federal TB. The Facility is shown in Exhibit #5.
 - 2) The tank battery and facilities including all flow lines and piping will be installed according to API specifications.
 - 3) Any additional caliche will be obtained from a BLM approved caliche pit. Any additional construction materials will be purchased from contractors.
 - 4) It will be necessary to run electric power if this well is productive. Power will be run by CVE and they will send in a separate plan for power.

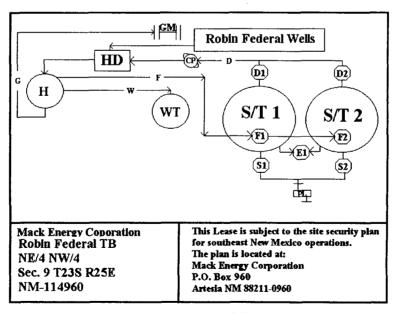


Exhibit #5

1) This well will be drilled using a closed loop system.

5. Location and Type of Water Supply:

The well will be drilled with combination brine and fresh water mud system as outlined in the drilling program. The water will be obtained from commercial water stations in the area and hauled to location by transport truck over the existing and proposed access roads shown in Exhibit #4. If a commercial fresh water source is nearby, fasline may be laid along existing road ROW's and fresh water pumped to the well. No water well will be drilled on the location.

6. Source of Construction Materials:

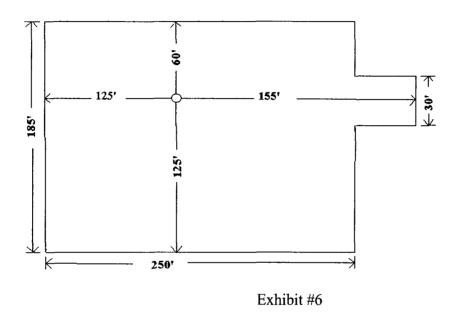
All caliche required for construction of the drill pad and proposed new access road (approximately 2500 cubic yards) will be obtained from a BLM approved caliche pit.

7. Methods of Handling Water Disposal:

- A. Drill cuttings not retained for evaluation purposes will be disposed into an approved disposal facility.
- B. Drilling fluids will be contained in steel tanks.
- C. Water produced from the well during and after completion, will be hauled to an approved disposal facility; produced oil will be collected in steel tanks until sold.
- D. Garbage and trash produced during drilling or completion operations will be collected in a trash bin and hauled to an approved landfill. Salts and other chemicals produced during drilling or testing will be hauled to an approved disposal facility. No toxic waste or hazardous chemicals will be produced by this operation.
- E. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. In the event of a dry hole only a dry hole marker will remain.

8. Well Site Layout:

- A. The drill pad layout, with elevations staked by John West Engineering, is shown in Exhibit #6. Dimensions of the pad and pits are shown. Topsoil, if available, will be stockpiled per BLM specifications. Because the pad is almost level no major cuts will be required.
- B. Diagram below shows the proposed orientation of this location. No permanent living facilities are planned, but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.



9. Plans for Restoration of the Surface:

- A. The disturbed area will be revegetated by reseeding during the proper growing season with a seed mixture of native grasses as recommended by the BLM.
- B. Upon completion of proposed operations, if the well is completed. Any additional caliche required for facilities will be obtained from a BLM approved caliche pit.

10. Surface Ownership:

The well site and lease is located entirely on Federal surface. We have notified the surface lessee of the impending operations. According to BLM the leasee is Larry Bearden, 353 Dark Canyon Rd., Carlsbad, NM 88220.

11. Other Information:

- The area around the well site is grassland. The vegetation is native scrub grass with A. sagebrush.
- B. There is no permanent or live water in the immediate area.
- C. A Cultural Resources Examination has been requested and will be forwarded to your office in the near future.

12. Lessee's and Operator's Representative:

The Mack Energy Corporation representative responsible for assuring compliance with the surface use plan is as follows:

Jerry W. Sherrell Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960 Phone (505) 748-1288 (office)

CERTIFICATION

I hereby certify that I, or person under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Mack Energy Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date: 4-25-2006 Signed: Leny W. Sherrell

Mack Energy Corporation

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards an characteristics of hydrogen sulfide (H2S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H2S detectors alarms warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

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

- 1. The effects of H2S on metal components. If high tensile tubular are to be used, personnel well be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. The concentrations of H2S of wells in this area from surface to TD are low enough that a contingency plan is not required.

II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H2S.

1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- Auxiliary equipment may include if applicable: annular preventer & rotating head.

2. Protective equipment for essential personnel:

A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S detection and monitoring equipment:

A. 1 portable H2S monitors positioned on location for best coverage and response.

These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud program:

A. 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 will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

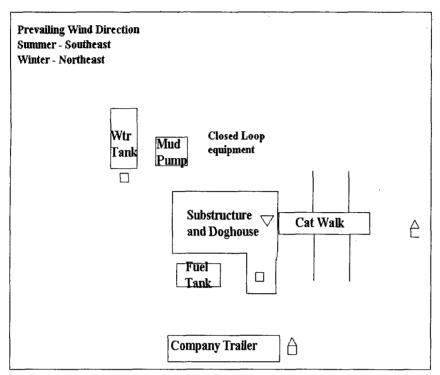
EXHIBIT #7

WARNING YOU ARE ENTERING AN H2S AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CHECK WITH MACK ENERGY FOREMAN AT OFFICE

MACK ENERGY CORPORATION 1-505-748-1288

DRILLING LOCATION H2S SAFTY EQUIPMENT Exhibit # 8



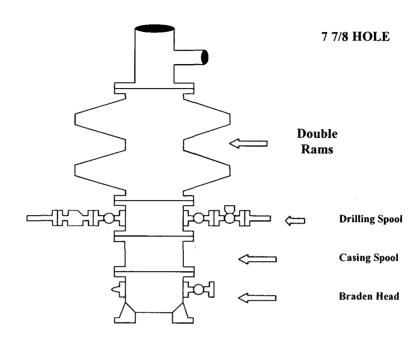
- √ H2S Monitors with alarms at the bell nipple
- ☐ Wind Direction Indicators
- Safe Briefing areas with caution signs and breathing equipment min 150 feet from

Attachment to Exhibit #9 NOTES REGARDING THE BLOWOUT PREVENTERS Robin Federal #1 Eddy County, New Mexico

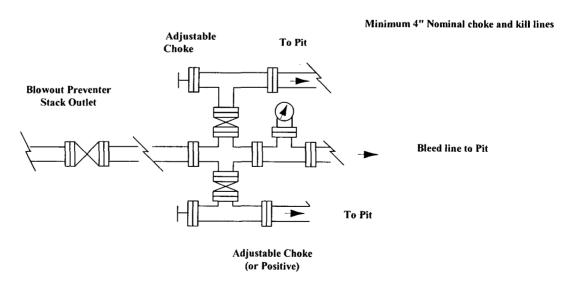
- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
- 6. All choke and fill lines to be securely anchored especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on Kelly.
- 9. Extension wrenches and hands wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

Mack Energy Corporation

Exhibit #9 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #10

Stack Requirements

	Stack Requireme	1113	
NO.	Items	Min.	Min.
		I.D.	Nominal
1	Flowline		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically		
	operated rams		
6a	Drilling spool with 2" min. kill line and 3"	İ	2"
	min choke line outlets		Choke
6b	2" min. kill line and 3" min. choke line		
	outlets in ram. (Alternate to 6a above)		
7	Valve Gate	3 1/8	
	Plug		
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate	2 1/16	
	Plug		
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate	1 13/16	
	Plug		
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"
15	Kill line to rig mud pump manifold	<u></u>	2"



16	Flanged Valve	1 13/16
L		· · · · · · · · · · · · · · · · · · ·

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3. BOP controls, to be located near drillers' position.
- 4. Kelly equipped with Kelly cock.
- Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6. Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowout preventer tester.
- Extra set pipe rams to fit drill pipe in use on location at all times.
- Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- 1. Bradenhead or casing head and side valves.
- 2. Wear bushing. If required.

3.

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position
- 4. Chokes will be positioned so as not to hamper or delay changing of choke beans.

 Replaceable parts for adjustable choke, or bean

- Pipe Rams

 Pipe Rams

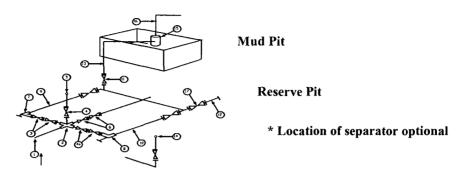
 Casing

 Head

 Casing
 - sizes, retainers, and choke wrenches to be conveniently located for immediate use.
 - All valves to be equipped with hand-wheels or handles ready for immediate use.
 - Choke lines must be suitably anchored.
 - Handwheels and extensions to be connected and ready for use
 - Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11. Do not use kill line for routine fill up operations.

Mack Energy Corporation Exhibit #11

Exhibit #11
MIMIMUM CHOKE MANIFOLD
3,000, 5,000, and 10,000 PSI Working Pressure
2 M will be used or greater
3 MWP - 5 MWP - 10 MWP



Below Substructure

Mimimum requirements

winninum requirements										
		3,000 MWP 5,000 MWP 10,000 MWP								
No.		I.D.	NOMINAL	Rating	I.D.	Nominal	Rating	1.D.	Nominal	Rating
1	Line from drilling Spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000			5,000			
2	Cross 3" x 3" x 3" x 2"									10,000
3	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
4	Valve Gate Plug	1 13/16		3,000	1 13/16		5,000	1 13/16		10,000
4a	Valves (1)	2 1/16		3,000	2 1/16		5,000	2 1/16		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
7	Adjustable Choke (3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		2"	10,000
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
12	Line		3"	1,000		3"	1,000		3"	2,000
13	Line		3"	1,000		3"	1,000		3"	2,000
14	Remote reading compound Standpipe pressure quage			3,000			5,000			10,000
15	Gas Separator		2'_x5'			2' x5'			2' x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000

- (1) Only one required in Class 3M
- (2) Gate valves only shall be used for Class 10 M
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- 6. Line from drilling spool to choke manifold should bee as straight as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees.

SPECIAL DRILLING STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

Operator's Name: Mack Energy Corporation Well Name & #: Robin Fed. #1 Location 310 F N_ L & 2530 FW_ L; Sec. 09 , T. 23 S., R. 25 E. Lease #: NM-114960 County: Eddy State: New Mexico Bottom Hole footage: 660 FNL & 1980 FWL, Section 09, T. 23 S., R. 25 E State: New Mexico
The Special stipulations check marked below are applicable to the above described well and approval of this application to drill is conditioned upon compliance with such stipulations in addition to the General Requirements. The permittee should be familiar with the General Requirements, a copy of which is available from a Bureau of Land Management office. EACH PERMITTEE HAS THE RIGH OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PURSUANT TO TITLE 43 CRF 3165.3 AND 3165.4.
This permit is valid for a period of one year from the date of approval or until lease expiration or termination whichever is shorter.
I. SPECIAL ENVIRONMENT REQUIREMENTS
() Lesser Prairie Chicken (stips attached) () Flood plain (stips attached) () Other
II. ON LEASE - SURFACE REQUIREMENTS PRIOR TO DRILLING
(x) The BLM will monitor construction of this drill site. Notify the (x) Carlsbad Field Office at (505) 234-5972 () Hobbs Office (505) 393-3612, at least 3 working days prior to commencing construction.
(x) Roads and the drill pad for this well must be surfaced with $\underline{6}$ inches of compacted caliche upon completion of well and it is determined to be a producer.
() All topsoil and vegetation encountered during the construction of the drill site area will be stockpiled and made available for resurfacing of the disturbed area after completion of the drilling operation. Topsoil on the subject location is approximatelyinche in depth. Approximatelycubic yards of topsoil material will be stockpiled for reclamation.
(x) Other. V-Door East Southeast).
III. WELL COMPLETION REQUIREMENTS
() A Communlitization Agreement covering the acreage dedicated to the well must be filed for approval with the BLM. The effective date of the agreement must be prior to any sales.
(x) Surface Restoration: If the well is a producer, the reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced to a slope of 3:1 or less. All areas of the pad not necessary for production must be re-contoured to resemble the original contours of the surrounding terrain, and topsoil must be re-distributed and re-seeded with a drill equipped with a depth indicator (set at depth of $\frac{1}{2}$ inch) with the following seed mixture, in pounds of Pure Live Seed (PLS), per acre.
(x) A. Seed Mixture 1 (Loamy Sites) Side Oats Grama (Bouteloua curtipendula) 5.0 Sand Dropseed (Sporobolus cryptandrus) 1.0 Sand Dropseed (Sporobolus cryptandrus) 1.0 Plains Bristlegrass (Setaria magrostachya) 2.0
() C. Seed Mixture 3 (Shallow Sites) Side oats Grama (Boute curtipendula) 1.0 Alkali Sacaton (Sporobollud airoides) 1.0 Four-Wing Saltbush (Atriplex canescens) 5.0
() OTHER SEE ATTACHED SEED MIXTURE
Seeding should be done either late in the fall (September 15 - November 15, before freeze up, or early as possible the following spring to take advantage of available ground moisture.
(x) Other
All above ground structures to be painted a flat, non0reflective Shale Green color.

RESERVE PIT CONSTRUCTION STANDARDS

The reserve pit shall be constructed entirely in cut material and lined with 6-mil plastic. Mineral material extracted from within the boundary of the APD during construction of the well pad and reserve pits and be used for the construction of this well pad and its immediate access road only, as long as that portion of the access road it is use on remains on-lease. Removal of any additional material from this location for construction or improvement of other well pads and other access or lease roads must first be purchased from BLM.

<u>Reclamation</u>: Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is NOT TO BE RUPTURED to facilitate drying; a ten month period after completion of the well is allowed for drying of the pit contents.

The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit.

OPTIONAL PIT CONSTRUCTION STANDARDS

The reserve pit may be constructed in predominantly fill material if:

- (1) Lined as specified above and
- (2) A temporary or emergency pit may be constructed immediately adjacent to the reserve pit as long as the pit remains within the APD boundary. Mineral material removed from this pit may be used for the construction of this well pad only and its immediate access road, as long as that portion of the access road the material is used on remains on-lease. Removal of any material from the APD boundary for use on other well locations or roads must first be purchased from BLM.

Reclamation of the reserve pit consists of bulldozing all reserve pit contents and contaminants into the borrow pit and covering with a minimum of 3 feet of clean soil material. The entire area must be re-contoured, all trash removed, and reseeded as specified in this permit.

CULTURAL

Whether or not an archaeological survey has been completed and notwithstanding that operations are being conducted as approved, the lessee/operator/grantee shall notify the BLM immediately if previously unidentified cultural resources are observed during surface disturbing operations. From the time of the observation, the lessee/operator/grantee shall avoid operations that will result in disturbance to these cultural resources until directed to process by BLM.

TRASH PIT STIPS

All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Mack Energy Corporation Well Name & No: Robin Federal No. 01

Location: 310' FNL & 1980' FEL Sec. 02, T. 23 S., R. 25 E.

Lease: NM 2251 Lea County

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell, NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

- A. Spudding
- B. Cementing casing: 13 % inch, 9 % inch, 5 ½ inch
- C. BOP tests
- 2. A Hydrogen Sulfide (H2S) Drilling Plan is not required for this wellbore.
- 3. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.
- 5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

II. CASING:

- 1. The 13 % inch shall be set at 300 ft. with cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9 1/2 inch Intermediate Casing is to circulate cement.
- 3. The minimum required fill of cement behind the 5 ½ Inch Production Casing is to place TOC at least 200 Ft. above known potential hydrocarbon formations.

III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13 ½ inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be <u>3 M</u> psi. A <u>2 M BOPE</u> is approved for surface and intermediate hole. A <u>3 M BOPE</u> system shall be installed prior to drilling below the 9 ½ inch casing shoe.

- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

G Gourley RFO 05/8/06



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

Mack Energy Corporation
P.O. Box 960
Artesia, NM 88210
Attn: Mr. Jerry W. Sherrell or To Whom It May Concern:

Dear Mr. Sherrel or To Whom It May Concern:

RE: Mack Energy Corporation: Application to drill (APD) for the Robin Federal # 1
Located in Unit C, of Section 9, Township 23 South, Range 25 East, Eddy County, New Mexico NMPM.

In reference to the above noted APD, the New Mexico Oil Conservation Division (NMOCD) will require (in part) that drilling mud samples from the flow line be sampled every 100' in order to determine chloride levels during the drilling of the <u>Capitan Reef section</u> of the well bore. Results are to be submitted to our office before drilling to total depth of the well bore.

Please call me if you have any questions about this matter.

Respectfully yours,

Bryan G. Arrant NMOCD's District II Geologist Artesia, New Mexico 505-748-1283 ext. 103

CC: well file

Arrant, Bryan, EMNRD

To: Je

Jerry Sherrell

Subject: Robin Federal # 1

Hi Jerry,

In order to further review and/or approve the above noted APD, I will need to following:

1) A directional drill plan. Please note where on the directional drill plan, the point of penetration of the legal location will be.

(for example the top of formation of the Sheep Draw; Morrow Gas Pool or what formations(s) applies.

2) An amended C-102 that shows the project area, producing area and the penetration point that your company intends

to produce.

Please call if you have any questions.

Bryan Arrant 748-1283 ext. 103