State of New Mexico Energy, Minerals & Natural Resources

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Oil Conservation Divsiion 1220 S. St. Francis Dr.

RECEIVED mit to appropriate District Office

JAN 1 0 2005

District IV 1220 S. St. Francis	is Dr., Santa F	ie, NM	1 87505			Santa Fe	e, NM	87505	HE STEA	AME'	NDED REPORT	
APPLIC	CATION						ENTE	R, DEEPEN,	PLUGBACK	K, OR ADD		
	 -		¹ Operat	ator Name and	1 Address				· ·	² OGRID Number 14021	1	
Marathon Oil		-	7'						30 22 24	³ API Number		
P.O. Box 348 ⁴ Proper	erty Code	on, :	Ex. //	/253		5Prop	erty Name		30- 30-015-	-28435 ⁶ Well	Il No.	
_	411				No	orth Indian	-			1	18	
		_	posed Po		1				¹⁰ Proposed Po	ool 2		
	Inchau 1	سنده	MOLLC	ow Gas Po	<u>хот</u>	⁷ Surfac		tion				
UL or lot no.	Section	Tow	vnship	Range	Lot. Idi		rom the	North/South Line	Feet from the	East/West line	County	
J. J.	2	1	21-5	23-E		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2310	South	1650	East	Eddy	
	1				3ottom			If Different Fro		<u> </u>		
UL or lot no.	Section	Tow	vnship	Range	Lot. Id:		rom the	North/South Line	Feet from the	East/West line	County	
J	2	2:	21-S	23-E	<u></u>		0001	South	1650'	East	Eddy	
						Additional					·	
11 Work Typ	ype Code N		12 V	Well Type Code	æ j	1	ble/Rotary lotary	14 Leas	se Type Code		evel Elevation	
l6 Multi		+	17 ,	Proposed Depth	<u></u>		ormation	19 (Contractor		ud Date	
N	No			9600'			crrow		Inknown	A	SAP	
Depth to ground	water	100+	4		Distance r	from nearest fre	esh water	well	Distance from neare	st surface water	<u> </u>	
Pit: Liner: Syn	nthetic Y 12			ick Cla	у	Pit Volume	1000	bbls Drilling Meth	hnd:			
]	oop System		a Marine.	UB.	L	In .		Water X Brine		Dil-based	Gas/Air 🔲	
Cion	OP System			21,		- Corina				d-baseu	Uasian	
					ı			ement Program				
Hole S		4_	Casing		Casin	ng weight/foot		Setting Depth	Sacks of Cemen	it Est	stimated TOC	
20"	· · · · · · · · · · · · · · · · · · ·	4_	16		1_∞	onductor		60	Redi-Mix		Surface	
14-3/	<u>/4"</u>	1_	9-5/	/8"		36#		1250'	1400		Surface	
8-3/4	4"	<u> </u>	7"	" '	2	3#, 26#		8,000	1100		Surface	
6.125	5"		4.5	5"	10.5			9,600'	150		7200'	
		<u> </u>										
								ve the data on the pre	sent productive zor	ne and proposed r	new productive zone.	
Describe the blow	•			•		•	•		-	-	- •	
accordance	to rules	#109	9 & #1	114. Mara	athon ir	ntends to	direct:	BOP equip wil	6.125" hole t	to 9,600'. T	吐	
target- 200	00' FSL &	: 1650	O' FEL	L, approx	k.is 31(.0' S of SI	L. A 4.	5" liner will	be cemented i	in place fro	am 7,200'	
to 9,600 w	// 150 sm is locate	a.ce	amenic.	. Well properter, a	oposeu nd is	target is	sthe ⊥ to be a	indian Basin Mo Morrow comple	mow.	os mas a Mor		
completion	(NW quart	er),l	out is	current	ly TA'	D. Rig H2	3 plan	attached. dire	ctional plan	attached.		
²³ I hereby certify	v that the info	rmatior	n given a	above is true :	and compl	ete to the best	of /	OIL C	ONICEDVATI	ופועות ואפי	ONT .	
my knowledge and constructed acco	nd belief. I furt	ther cer	ertify tha	at <u>the</u> drilling	ng pit will l	be		OIL CONSERVATION DIVISION				
an (attached) alt		D-appr	roved pla		eneral pe	ermit [, or	Appı	Approved by:				
Signature:			this	ut			-		· · · · · · · · · · · · · · · · · · ·	TIM W. G	i UN i ———	
Printed name: M			-				Title		DISTRI	ICT II SUF	PERVISOR_	
	dv. Sr. E						Appr	roval Date: JAN	1 3 2005 _{Ex}	xpiration Date:	N 1 3 2006	
E-mail Address:	mfnick@n	aratl						· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	4.7	
Date:			P	Phone:			H H	ditions of Approval:	·	<u></u>		
12-21-04			ł	717	3-296-3	.254	N Atta	Attached				

Attached

713-296-3254

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe office

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure

	ank covered by a "general plan"? Yes 🔲 No 🔀 it or below-grade tank 🛽 Closure of a pit or below-grade tan							
Operator:Marathon Oil Company Telephone:713 29	06-3254 e-mail address:mfmick@marathon	ail.com						
Address:P.O. Box 3487Houston, Texas 77253								
Facility or well name:North Indian Basin Unit #18 _ API# 30-015-28435		23F						
County:Latitude 2310' FSLLo								
	ngraide1050' FEL NAD: 1927 L	1983						
Surface Owner: Federal ☐ State ☒ Private ☐ Indian ☐								
Pit	Below-grade tank							
Type: Drilling Production Disposal	Volume:bbl Type of fluid:							
Workover ☑ Emergency □	Construction material:							
Lined ☑ Unlined □	Double-walled, with leak detection? Yes If not, expla	in why not.						
Liner type: Synthetic ☑ Thickness12_mil Clay □								
Pit Volume1,000 bbl.								
	Less than 50 feet	(20 points)						
Depth to ground water (vertical distance from bottom of pit to seasonal high water	50 feet or more, but less than 100 feet	(10 points)						
elevation of ground water.)	100 feet or more X	(0 points)						
	Yes	(20 points) DEOCH (FF)						
Wellhead protection area: (Less than 200 feet from a private domestic water		(20 points) RECEIVED						
source, or less than 1000 feet from all other water sources.)	No X	(0 points) JAN 1 0 2005						
	Less than 200 feet	(20 points)						
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation	200 feet or more, but less than 1000 feet	(10 points)						
canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more X	(0 points)						
	Ranking Score (Total Points)							
ncountered: No Yes If yes, show depth below ground surface 5) Attach soil sample results and a diagram of sample locations and excavations. Additional Comments: Marathon intends to construct a 100' x 100' workover p disturbance. The top soil will be removed and stockpiled; the contents dug out o used to prevent puncture if necessary. Pit area will be fenced. When workover is	oit. The pit will be constructed in the area of the original re	with a 12 mil liner, additional padding will be						
	•	•						
construction will be replaced, pit liner will be folded, 20 mil liner cap installed.	A minimum of 3' of cover placed on top of cap, stockpiled t	op soil then placed on area. Area will be seeded						
to promote vegetation growth.								
I hereby certify that the information above is true and complete to the best of my kno constructed or closed according to NMOCD guidelines \square , a general permit \square ,		d pit or below-grade tank has been/will be						
Date:12-21-04_	• 1							
Printed Name/TitleMike Mick Sign	nature M7 m uch							
Your certification and NMOCD approval of this application/closure does not relieve health or the environment. Nor does it relieve the operator of its responsibility for co	the operator of liability should the contents of the pit or tank c	ontaminate ground water or otherwise endanger public gulations.						
Approval: Printed Name/Title Altho Brickles Complian Ofica Sign	ature Alike Buskles Das	ie: 1/26/05						

Additional Information- North Indian Basin Unit # 18

General

The North Indian Basin Unit # 18 is located on New Mexico State lands. No new surface damages for pit area utilized. Approx. size 100'x 100' x 4'.

- Topsoil will be stripped and stockpiled for use as the final cover of fill at the time of closure.
- Contents removed from old pit will be stockpiled on a liner to prevent soil contamination.
- A 12 mil. Liner will be installed. Padding will be added if necessary. Liner will be anchored per OCD's guidelines. OCD will be contacted 24 hrs. prior to liner installation.
- All necessary steps will be taken to prevent liner damage.
- Marathon will used a combination of produced and freshwater during drilling, anticipated chloride content of drilling fluids 10,000 ppm.
- Pit Area will be fence, work access will remain open during operations, closed once rig operations cease.
- All fluids will be removed from pit in a timely manner after operations cease.
- OCD will be contacted when pit closure commences.
- Closure of pit will be performed as per current OCD guidelines for onsite encapsulation. The liner edges shall be folded over the contents and a 20 mil liner shall be installed on top. A min. of 3 foot of clean soil shall be spread over encapsulated pit contents. Stockpiled top soil shall be spread and contoured. Pit area will be re-seeded and re-vegetation promoted.

State of New Mexico

Energy, Minerals and Natural Resources Department.

Form C-102 Revised February 10, 1994

Instruction on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 67410

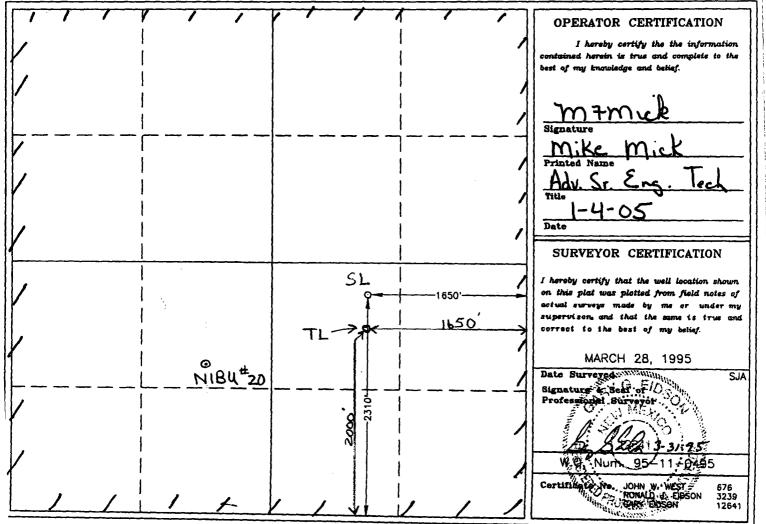
OIL CONSERVATION DIVISION

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-28435				Code	7	B Mo	Pool Name	Pool	
Property Code			078960 IB Morrow GAS					Well Number	
6411				NOR	18				
OGRID No	 			Elevation					
01402) 1			MARA	3741	3741			
Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Peet from the	East/West line	County
J	2	21 S	21 S 23 E 23		2310	SOUTH	1650	EAST	EDDY
<u></u>		<u> </u>	Bottom	Hole Loc	ation If Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	2	2 215 23 E 2000' South 1650' East Eddy							
Dedicated Acres	Joint o	r Infill Co	nsolidation (ode Ore	ier No.				
640									
NO ALLOWABLE WILL BE ASSGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION									



MARATHON OIL COMPANY

H2S DRILLING OPERATIONS PLAN

HYDROGEN SULFIDE TRAINING

All contractors and subcontractors employed by Marathon Oil Company 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, contractor 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.
- Corrective action and shut-down procedures when drilling or reworking 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.
- B. Automatic H2S detection alarm equipment (both audio and visual).

- C. Clearly visible warning signs. 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 briefing areas.

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

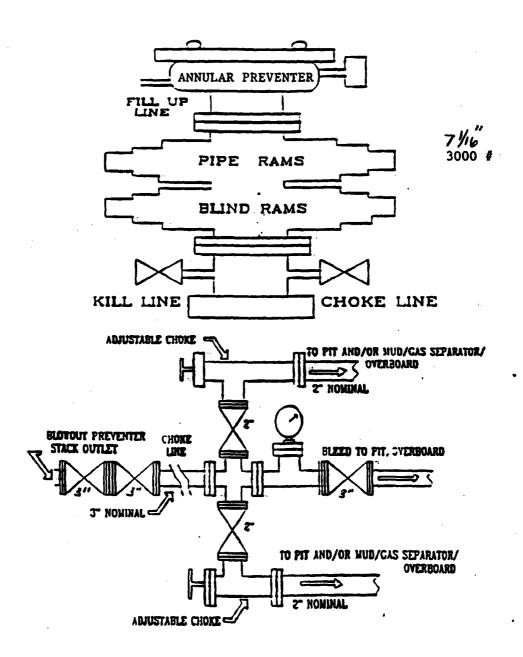
B. Communication

The rig contractor will be required to have two-way communication capability. Marathon Oil Company 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 zones.

BOP's



Marathon Oil Company North Indian Basin Unit no.18

> slot #1 INDIAN BASIN Eddy County New Mexico

PROPOSAL LISTING

by Baker Hughes INTEQ

Your ref : Plan 2 Our ref : prop4454

License :

Date printed : 5-Jan-2005 Date created : 5-Jan-2005 Last revised : 5-Jan-2005

Field is centred on 445535.500, 521332.200, -105.00000, N Structure is centred on 445535.500, 521332.200, -105.00000, N

Slot location is n32 25 59.274,w104 30 35.507 Slot Grid coordinates are N 521332.200, E 445535.500 Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

Marathon Oil Company North Indian Basin Unit no.18,slot #1 INDIAN BASIN,Eddy County New Mexico

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTAN COORDI		Dogleg Deg/100ft	Vert Sect	G R I D C Easting	00RDS Northing
0.00	0.00	180.00	0.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
500.00	0.00	180.00	500.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
1000.00	0.00	180.00	1000.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
1500.00	0.00	180.00	1500.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
2000.00	0.00	180.00	2000.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
2500.00	0.00	180.00	2500.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
3000.00	0.00	180.00	3000.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
3500.00	0.00	180.00	3500.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
4000.00	0.00	180.00	4000.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
4500.00	0.00	180.00	4500.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
5000.00	0.00	180.00	5000.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
5500.00	0.00	180.00	5500.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
6000.00	0.00	180.00	6000.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
6500.00	0.00	180.00	6500.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
7000.00	0.00	180.00	7000.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
7500.00	0.00	180.00	7500.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
8000.00	0.00	180.00	8000.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
8300.00	0.00	180.00	8300.00	0.00N	0.00E	0.00	0.00	445535.50	521332.20
8400.00	2.50	180.00	8399.97	2.185	0.00E	2.50	2.18	445535.50	521330.02
8500.00	5.00	180.00	8499.75	8.72S	0.00E	2.50	8.72	445535.50	521323.48
8600.00	7.50	180.00	8599.14	19.61S	0.00E	2.50	19.61	445535.50	521312.59
8700.00	10.00	180.00	8697.97	34.82S	0.00E	2.50	34.82	445535.50	521297.38
8799.71	12.49	180.00	8795.76	54.26S	0.00E	2.50	54.26	445535.50	521277.94
9000.00	12.49	180.00	8991.31	97.59S	0.00E	0.00	97.59	445535.50	521234.61
9500.00	12.49	180.00	9479.47	205.75S	0.00E	0.00	205.75	445535.50	521126.45
9981.94	12.49	180.00	9950.00	310.00S	0.00E	0.00	310.00	445535.50	521022.20

PROPOSAL LISTING Page 1 Your ref : Plan 2

Last revised : 5-Jan-2005

Marathon Oil Company North Indian Basin Unit no.18,slot #1 INDIAN BASIN,Eddy County New Mexico PROPOSAL LISTING Page 2 Your ref : Plan 2 Last revised : 5-Jan-2005

Comments in wellpath

Targets associated with this wellpath

Target name	Geographic Location		Rectangular Coord		Revised
TD		9950.00	310.00S	0.00E	5-Jan-2005

Marathon Oil	PI	Created by adryanm Date plotted: 5-Jan-2005 Plot Reference is Plan 2. Coordinates are in feet reference structure. True Vertical Depths are reference structure Baker Hughes INTEQ						
Structure : North Indian Field : INDIAN	Ì							
	– W	ELL	PROF	FILE	DATA	<u> </u>		
Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00
KOP	8300.00	0.00	180.00	8300.00	0.00	0.00	0.00	0.00
End of Build	8799.71	12.49	180.00	8795.76	-54.26	0.00	54.26	2.50
T.D. & Target TD	9981.94	12.49	180.00	9950.00	-310.00	0.00	310.00	0.00

