State of New Mexico Energy, Minerals & Natural Resources

Form C-101 Revised March 17, 1999

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. 1st Street, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 8756

Oil Conservation Divsiion 2040 South Pacheco Santa Fe. NM 87505 Submit to appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

940 South Pache					Saina 1 C, 1	·				ENDED REPORT
		1,	Operator Name		LL, RE-EN	NTER, DE	EPEN,	PLUGBAC 14021	K, OR ADI OGRID Numbe	
arathon Oi		7							³ APL Number	1
.O. Box 55:	rty Code	—Т			⁵ Property	Name		30-015		ell No.
225				IND	IAN BASIN "					# 5
•					⁷ Surface 1	Location				
UL or lot no.	Section	Townsl	hip Range Lot, ldn Fee		Feet from t	he North/	South Line	Feet from the	East/West line	County
Ð	32	21-	-S 24-E		628		orth	820	West	EDDY
		A	⁸ Propose	d Bottom	Hole Locati	on If Diffe	rent From	m Surface		
UL or lot no.	Section	Towns		Lot. Idn			South Line	Feet from the	East/West line	County
		9 Propo	sed Pool 1	L				10 Proposed F	Pool 2	
	India	•	n U.P. Asso	œ.				•		•
								<u> </u>		
11 Work T	ype Code N		12 Well Type	Code	13 Cable/Rotary ROTARY		¹⁴ Lease Type Code S		15 Ground Level Elevation 3796'	
¹⁶ Mu	altiple NO		17 Proposed 860 0		18 Formation U. PENN] !	19 Contractor McVAY		Spud Date 1/1/04
				21 Propose	ed Casing an	d Cement	Program			
Hole S	Size		Casing Size		g weight/foot	Setting 1		Sacks of Cem	ent E	Estimated TOC
12.2	50		9-5/8"				0' 630			SURFACE
8.75	0"		7"	2:	3#/26#	860),	1280	SURFACE	
							-			
Describe the	proposed pro	gram. If	this application	is to DEEPE	N or PLUG BAC	K. give the da	ta on the pi	resent productive z	one and proposed	l new productive zon
Describe the blov						. 2	•	•		
Marathon O	il Compar	y is p	proposing t	o drill a	directions	ıl Upper Pe	nn. wel	l to Standard	i ,	234567897
target. W	hen recei	ved di	rectional	plan will	be submitt	ed on a St	mdry no	tice.	/^	2 10
		-	NNULAR & R						18	2 2003
					DING TO OCI PRDANCE WITH			4.	930	SEB SOUS
									128293037	RECEIVED ARTESIN
²³ I hereby certi	-		n given above is	true and con	mplete to the		OIL (CONSERVAT	TION DIVES	NOK
est of my know	viedge and b	elief.	16			Approved by	/: <u> </u>	Iron le	1. Bum	25.2.2.2.1.1.C.
ignature:	Jen	1100				 		D. T	1 Supe	www
rinted name: J	-					Title:	nro	N 1 2000	- y	Men a a
Title: E Date:	ngineer	iecn.	Phone:		 	Approval Da			Expiration Date:	UEU 0 1 20
	3/25/03			432-687-8	360	i .				
Ç	1/23/03		i '		JUU	Attached	1			

Submit 3 Copies To Appropriate District Office	State of Ne		W ₂	Form C-103
District I	Energy, Minerals and	Natural Resources	WELL API NO.	Revised March 25, 1999
1625 N. French Dr., Hobbs, NM 87240 District II	OIL CONSERVA	TION DIVISION		
811 South First, Artesia, NM 87210 District III	2040 South		5. Indicate Type of L	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, N	NM 87505	STATE X	FEE L
2040 South Pacheco, Santa Fe, NM 87505			6. State Oil & Gas L	ease No.
SUNDRY NOTIO (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)		PEN OR PLUG BACK TO A	7. Lease Name or Ur	
1. Type of Well: Oil Well Gas Well	Other	RECEIVED		
2. Name of Operator	- Cite		8. Well No.	
Marathon Oil Company		NOV 9 5 2003	5	
3. Address of Operator P.O. Box 552, Midland, TX 7	10702	OCD-ARTESIA	9. Pool name or Wild INDIAN BASIN UPPE	
4. Well Location	<u> </u>		I INDIAN BASIN OPPE	R PENN ASSOCIATED
Unit Letter	628' feet from the	NORTH line and _	820 feet from	the WEST line
Section 32	Township 21-		NMPM	County EDDY
	10. Elevation (Show who	ether DR, RKB, RT, GR G.L. 3796	, etc.)	
11. Check A	Appropriate Box to Ind		ce, Report, or Other I	Data
NOTICE OF INTI			JBSEQUENT REPO	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	☐ REMEDIAL WOR	к 🗆	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	LLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	MULTIPLE COMPLETION	CASING TEST AI CEMENT JOB	ND 🗆	
OTHER: X Directional plan		OTHER:		
12. Describe Proposed or Complete of starting any proposed work). or recompilation.		-	_	_
Please see attached direc	tional plan.			
•				
I hereby certify that the information above	is true and complete to the be	est of my knowledge and be	lief.	
SIGNATURE Juny 7	lokku	TITIF Engineer Tech	mician D	ATE 11/24/03
Type or print name Jerry Fletcher	,	111 DD	Telephone	
(This space for State use)		20000	I elephone	7110. 452-007-0300
	FOR RECORDS (ONLY	· ·	DEC 0 1 2003
APPROVED BY Conditions of approval, if any:		TITLE	DA	LE

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

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

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0718

OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT III Santa Fe, New Mexico 87504-2088

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name		
	33685	Indian Basin Upper Penn. Asso	ciated	
Property Code		erty Name	Well Number	
	INDIAN BASIN STATE 32			
OGRID No.	Oper	ator Name	Elevation	
14021	MARATHON	OIL COMPANY	3796'	

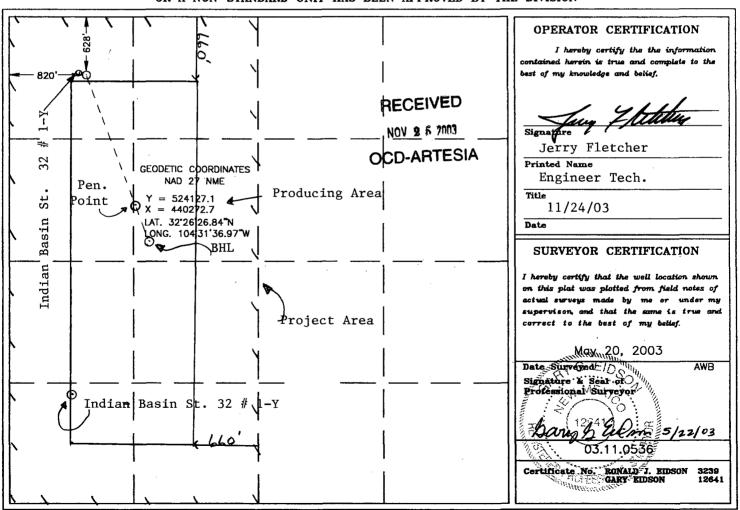
Surface Location

ſ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	D	32	21-S	24-E		628'	NORTH	820'	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
F	32	21-S	24-E		2458'	NORTH	1450 '	WEST	EDDY
Dedicated Acre	s Joint o	r Infill Co	nsolidation (Code Or	der No.				
320 W/2				İ		:			

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



RECEIVED
NOV 9 % 7003
OCD-ARTESIA

Marathon Oil Company
Indian Basin "32" State #5

slot #1 INDIAN BASIN Eddy County New Mexico

PROPOSAL LISTING

by Baker Hughes INTEQ

Your ref : Plan 1 Our ref : prop4059

License :

Date printed : 20-Nov-2003 Date created : 20-Nov-2003 Last revised : 20-Nov-2003

Field is centred on 445535.500,521332.200,-105.00000,N Structure is centred on 440272.700,524127.100,-105.00000,N

Slot location is n32 26 26.842,w104 31 36.974
Slot Grid coordinates are N 524127.100, E 440272.700
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 Indian Basin "32" State #5,slot #1 INDIAN BASIN,Eddy County New Mexico

PROPOSAL LISTING Page 1
Your ref : Plan 1

Last revised : 20-Nov-2003

Measured			True Vert	RECTANG				GRID C		
Depth	Degrees	Degrees	Depth	COORDIN	ATES	Deg/100f	t Sect	Easting	Northing	
0.00	0.00	160.99	0.00	0.00N	0.00E	0.00	0.00	440272.70	524127.10	
500.00	0.00	160.99	500.00	0.008	0.00E	0.00	0.00	440272.70	524127.10	
1000.00	0.00	160.99	1000.00	0.00S	0.00E	0.00	0.00	440272.70	524127.10	·
1300.00	0.00	160.99	1300.00	0.008	0.00E	0.00	0.00	440272.70	524127.10	
1400.00	2.50	160.99	1399.97	2.06S	0.71E	2.50	2.18	440273.41	524125.04	
1500.00	5.00	160.99	1499.74	8.25S	2.84E	2.50	8.72	440275.54	524118.85	
1600.00	7.50	160.99	1599.14	18.54S	6.39 E	2.50	19.61	440279.09	524108.56	
1700.00	10.00	160.99	1697.97	32.92S	11.34E	2.50	34.82	440284.04	524094.18	
1800.00	12.50	160.99	1796.04	51.36S	17.70E	2.50	54.33	440290.40	524075.74	
1900.00	15.00	160.99	1893.17	73.83S	25.44E	2.50	78.09	440298.14	524053.27	
1947.20	16.18	160.99	1938.63	85.83S	29.57E	2.50	90.78	440302.27	524041.27	
2000.00	16.18	160.99	1989.34	99.74S	34.36E	0.00	105.49	440307.06	524027.36	
2500.00	16.18	160.99	2469.54	231.47S	79.75E	0.00	244.82	440352.45	523895.63	
3000.00	16.18	160.99	2949.73	363.20S	125.13E	0.00	384.15	440397.83	523763.90	
3500.00	16.18	160.99	3429.93	494.93S	170.52E	0.00	523.48	440443.22	523632.17	
4000.00	16.18	160.99	3910.12	626.65S	215.90E	0.00	662.80	440488.60	523500.45	
4500.00	16.18	160.99	4390.32	758.38S	261.29E	0.00	802.13	440533.99	523368.72	
5000.00	16.18	160.99	4870.51	890.11S	306.67E	0.00	941.46	440579.37	523236.99	
5500.00	16.18	160.99	5350.71	1021.84S	352.06E	0.00	1080.79	440624.76	523105.26	
6000.00	16.18	160.99	5830.90	1153.57S	397.44E	0.00	1220.12	440670.14	522973.53	
6500.00	16.18	160.99	6311.10	1285.30S	442.83E	0.00	1359.45	440715.53	522841.80	
7000.00	16.18	160.99	6791.29	1417.03S	488.21E		1498.77	440760.91	522710.07	
7500.00	16.18	160.99	7271.49	1548.76S	533.60E	0.00	1638.10	440806.30	522578.34	
7529.69	16.18	160.99	7300.00	1556.58S	536.29 E	0.00	1646.37	440808.99		4.P. TOP 2184' FAIL * 1356'
8000.00	16.18	160,99	7751.69	1680.49S	578.98E	0.00	1777.43	440851.68	522446.61	
8500.00	16.18	160.99	8231.88	1812.21S	624.36E	0.00	1916.75	440897.06	522314.89	•
8570.93	16.18	160.99	8300.00	1830.90S	630.80E	0.00	1936.52	440903.50	522296.20	Terminus
									•	21/0/ -41

2458' FNL-1450' FWL All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1936.52 on azimuth 160.99 degrees from wellhead.

Vertical section is from wellhead on azimuth 160.99 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Marathon Oil Company Indian Basin "32" State #5,slot #1 INDIAN BASIN,Eddy County New Mexico PROPOSAL LISTING Page 2

Your ref : Plan 1

Last revised: 20-Nov-2003

Comments in wellpath

	MD	TVD	Rectangular (Coords.	Comment	==		
	-							
	7529.69	7300.00	1556.58S	536.29E	Top of UP			
	8570.93	8300.00	1830.90S	630.80E	TD Proposed BHL			
				_	ssociated with thi	s wellpath	•	
_	Target n	ame	Geograph	nic Locatio		Rectangular	Coordinates	Revised
	Top of U	JP			7300.00	1556.58S	536.29E	20-Nov-2003
	TD Propo	sed BHL			8300.00	1830.90S	630.80 E	20-Nov-2003



Marathon Oil Company

Field: INDIAN BASIN

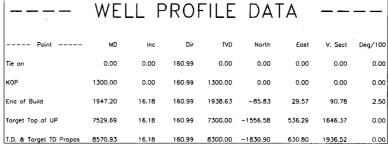
Structure : Indian Basin 32 State #5

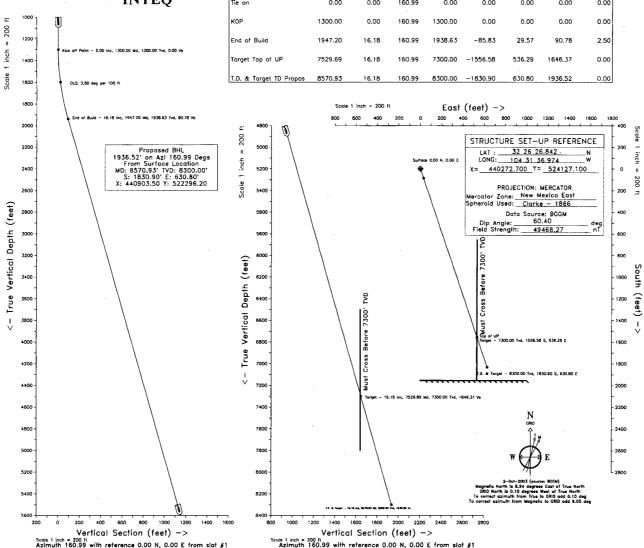
Slot : slot #1 Location: Eddy County New Mexico

Created by: danf Date plotted : 20-Nov-2003 Plot Reference is Plan 1. rdinates are in feet reference slot #1. /ertical Depths are reference rotary table st5wm --- Baker Hughes INTEQ ---

7225 Baker Hughes

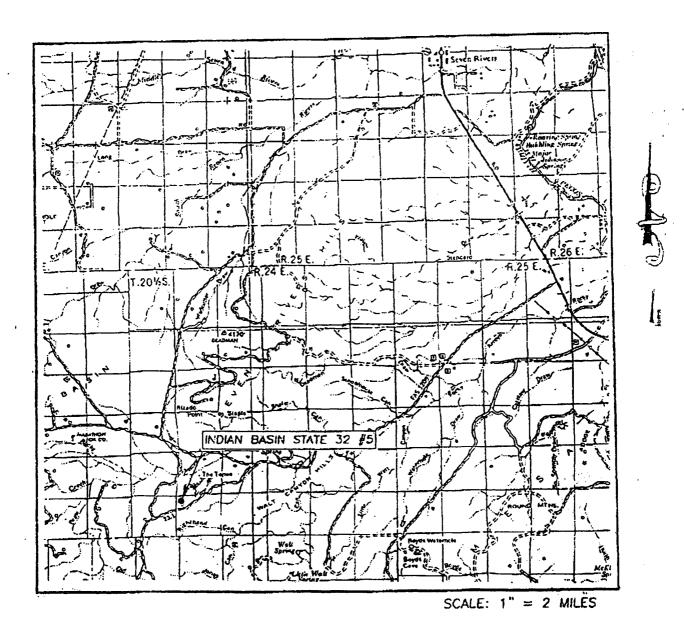
INTEQ





Scale t inch = 200 ft
Azimuth 160.99 with reference 0.00 N, 0.00 E from slot #1

VICINITY MAP



SEC. 32 TWP. 21-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 628' FNL 820' FWL

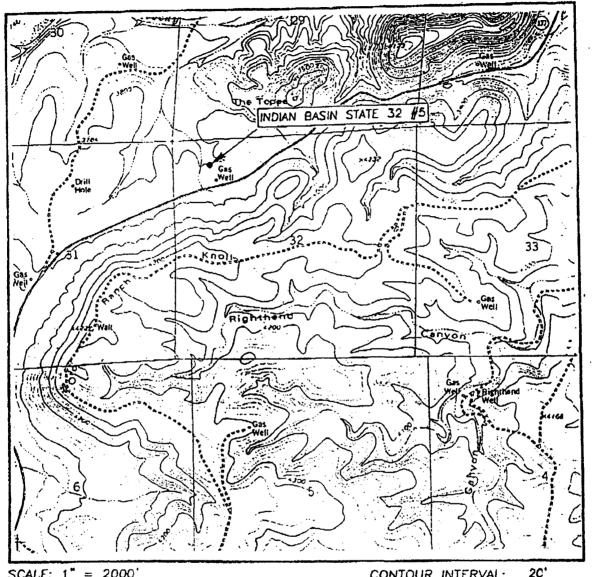
ELEVATION 3796'

OPERATOR MARATHON OIL COMPANY

LEASE INDIAN BASIN STATE 32

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: MARTHA CREEK, N.M.

SEC. 32 TWP. 21-S RGE. 24-E SURVEY_____N.M.P.M. COUNTY____EDDY DESCRIPTION 528' FNL 820' FWL ELEVATION 3796' OPERATOR MARATHON OIL COMPANY LEASE INDIAN BASIN STATE 32 U.S.G.S. TOPOGRAPHIC MAP MARTHA CREEK, N.M.

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

ARCHAEOLOGICAL SURVEY of the MARATHON OIL COMPANY INDIAN BASIN 32 STATE WELL NO. 4 RELOCATION T21S, R24E, SECTION 32 (NW\(\frac{1}{2}\)NW\(\frac{1}{2}\)) [660 FNL, 810 FWL]. EDDY COUNTY, NEW MEXICO

SPLIT ESTATE: FEDERAL LAND SURFACE & NEW MEXICO STATE MINERALS [U.S.G.S. 7.5 minute series, MARTHA CREEK, NEW MEXICO, 1978]

ASC Report 99-027

by Dorothy M. Griffiths, Project Archaeologist and James V. Sciscenti, Principal Investigator

ARCHAEOLOGICAL SURVEY CONSULTANTS P.O. Drawer D, Roswell, New Mexico 88202 [505] 623-5012

BUREAU OF LAND MANAGEMENT PERMIT NO.: 18-2920-98-M NEW MEXICO STATE LAND ANNUAL PERMIT NO.: NM-98-070

March 26, 1999

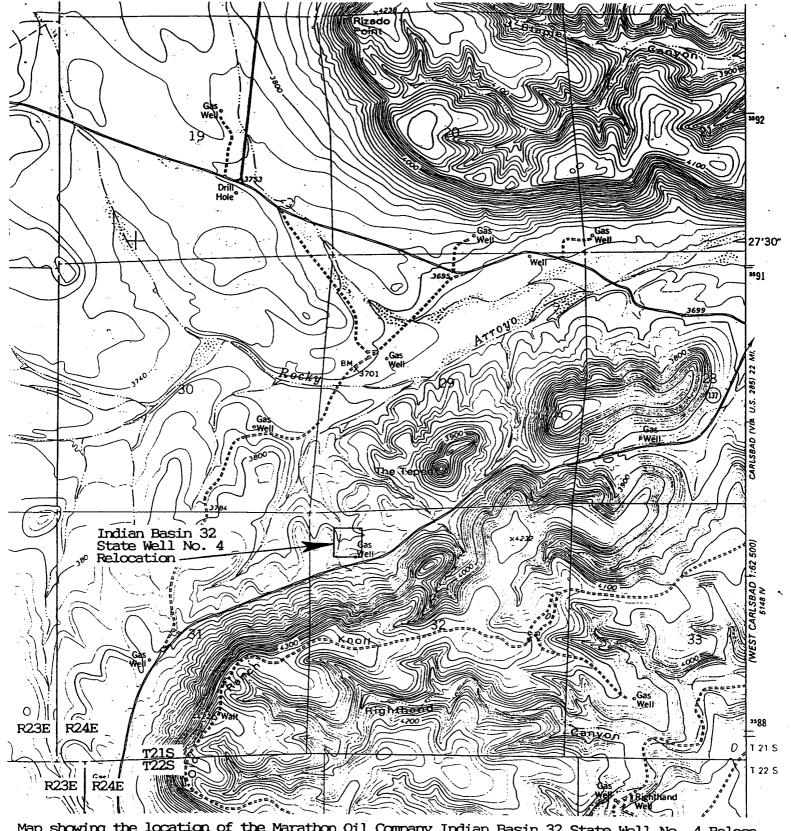
Prepared for:

Marathon Oil Company P.O. Box 552 Midland, Texas 79702

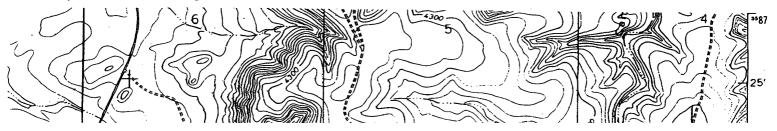
Attention: Walter Dueease

Distribution:

Marathon Oil Company (1)
BLM - Carlsbad Resource Area (2)
Stiffiths (1)



Map showing the location of the Marathon Oil Company Indian Basin 32 State Well No. 4 Relocation. T21S, R24E, Section 32, Eddy County, New Mexico [BIM, Carlsbad Field Office, New Mexico]. Square shows location of well pad. U.S.G.S. 7.5 minute series, MARTHA CREEK, NEW MEXICO, 1978. ASC Project 99-027.



ARCHAEOLOGICAL SURVEY CONSULTANTS

P.O. Box 2285

Roswell, New Mexico 88202-2285 Phone: 505-623-5012 Fax: 505-623-3121

TO: Tiffany Sullivan-Owens, Carlsbad Field Office, Bureau of Land Management. New Mexico.

FROM: D.M. Griffiths, Principal Investigator, Archaeological Survey Consultants.

Subject: proposed Marathon Oil Company Wells situated on extant, previously inspected, well pads.

Marathon Oil Company proposes to drill 6 wells (for oil and/or gas), within Township 21 South, Range 24 East, Township 21 South, Range 23 East, and Township 22 South, Range 23 East (Eddy County, New Mexico), which are situated on extant well pads. All of the extant well pads have been previously inspected for archaeological remains, and reports of the archaeological inspections have been filed with the Carlsbad Field Office, Bureau of Land Management (Dont of the Interior) New Mexico of Land Management (Dept. of the Interior), New Mexico.

A list of the proposed wells, and the data concerning the prior Archaeological Survey Consultants surveys are discussed below.

Priority 1: Marathon Oil Company Indian Hills Unit Fed. Well No. 53 (T21S, R24E, Section 28, 1383 FNL, 1586 FWL, Eddy Co., N.M.): situated on the previously inpected Indian Hills Unit Fed. Well No. 34 (T21S, R24E, Section 28, 1416 FNL, 1607 FWL, Eddy Co., N.M.). ASC Report 01-022 (22-March-2001) covered the archaeological survey of the Indian Hills Unit Fed. Well No. 34 well pad; there were 8 Isolated Finds (consisting of 19 widely scattered artifacts) within the 600 ft. square well pad. The proposed Indian Hills Unit Fed. Well No. 53 is an offset, 33 ft. north & 21 ft. west of the Indian Hills Unit Fed. Well No. 34 well bore.

An archaeological survey is not required for the proposed Marathon Oil Company Indian Hills Unit Fed. Well No. 53, since the well falls entirely within the previously inspected area, and no new construction is envisioned outside of the originally inspected well pad.

Priority 2, Alternate 1: Marathon Oil Company Indian Hills Unit Fed. Well No. 55 (T21S, R24E, Section 20, 1166 FNL, 1272 FEL, Eddy Co., N.M.): situated on the previously inspected Indian Hills Unit Fed. Well No. 25 (T21S, R24E, Section 20, 1093 FNL, 1367 FEL, Eddy Co., N.M.). ASC Report 00-036 (08-June-2000) covered the archaeological survey within the well pad. No cultural material was found within the surveyed well pad. The proposed Indian Hills Unit Fed. Well No. 55 (Alternate 1) is an offset, 73 ft. south & 95 ft. east of the Indian Hills Unit Fed. Well No. 25 well bore.

An archaeological survey is not required for the proposed Marathon Oil Company Indian Hills Unit Fed. Well No. 55 (Alternate 1), since the well falls entirely within the previously inspected 600 ft. square area, and no new construction is envisioned outside of the originally inspected well pad.

Priority 2, Alternate 2: Marathon Oil Company Indian Hills Unit Fed. Well No. 55 (T21S, R24E, Section 20, 1105 FNL, 635 FEL, Eddy Co., N.M.): situated on the previously inspected Indian Hills Unit Fed. Well No. 26 (T21S, R24E, Section 20, 1069 FNL, 685 FEL, Eddy Co., N.M.). ASC Report 00-037 (09-June-2000) covered the archaeological survey within the well pad. No cultural material was found within the surveyed well pad. The proposed Indian Hills Unit Fed. Well No. 55 (Alternate 2) is an offset, 36 ft. south & 50 ft. east of the Indian Hills Unit Fed. Well No. 26 well bore.

An archaeological survey is not required for the proposed Marathon Oil Company Indian Hills Unit Fed. Well No. 55 (Alternate 2), since the well falls entirely within the previously inspected 600 ft. square area, and no new construction is envisioned outside of the originally inspected well pad.

ARCHAEOLOGICAL SURVEY CONSULTANTS

P.O. Box 2285

Roswell, New Mexico 88202-2285 Phone: 505-623-5012 Fax: 505-623-3121

TO: Tiffany Sullivan-Owens, Carlsbad Field Office, Bureau of Land Management, New Mexico.

المهتف

FROM: D.M. Griffiths, Principal Investigator, Archaeological Survey Consultants.

Subject: proposed Marathon Oil Company Wells situated on extant, previously inspected, well pads.

Priority 2, Alternate 3: Marathon Oil Company Indian Hills Unit Fed. Well No. 55 (T21S, R24E, Section 21, 460 FSL, 529 FWL, Eddy Co., N.M.): situated on the previously inspected Indian Hills Unit Fed. Well No. 36 well pad (T21S, R24E, Section 21, 429 FSL, 506 FWL, Eddy Co., New Mexico).

ASC Report 01-101 (15-Nov.-2001) covered the archaeological survey within the Indian Hills Unit Fed. Well No. 36 well pad. Some 3 archaeological sites occurred within the well pad: LA 134690 consisted of a BLM Category 1 site (a low density, assemblage of lithic debitage and minimal ceramic sherds) not significant past the level of field recording. LA 121206 and LA 132271 consist of BLM Category 2 sites, significant past the level of field recording. level of field recording.

Since the un-damaged part of LA 121206 was in excess of 150 ft. to the south of the proposed Indian Hills Unit Federal Well No. 36, archaeological CLEARANCE for the Marathon Oil Company Indian Hills Unit Federal Well No. 36 was RECOMMENDED, with the proviso that all well pad activity be restricted on the south side to an area no greater than 150 ft. south of the proposed drill hole.

Since IA 132271 was situated ca. 180 ft. (54.9 metres) southeast of the proposed Indian Hills Unit Federal Well No. 36 borehole, archaeological CLEARANCE for the Marathon Oil Company Indian Hills Unit Federal Well No. 36 was RECOMMENDED, with the proviso that all well pad activity be restricted on the south side to an area no greater than 150 ft. south of the proposed drill hole, and restricted on the east side to a distance no greater than 200 ft. east of the proposed drill hole.

An L-shaped barb-wire fenceline, trending east/west and north/south, had been previously erected at a distance of 150 ft. south and 212 ft. east of the proposed Indian Hills Unit Federal Well No. 36 borehole (for protective measures during construction and drilling of the Marathon Indian Hills Unit Federal Well No. 33: see ASC Report 01-019). Because of the fenceline, LA 132271 was not endangered by construction activity. An archaeological monitor occurred during construction activity at the Indian Hills Unit Fed. Well No. 36 well pad (ASC Report 01-101A).

The proposed Indian Hills Unit Fed. Well No. 55 (Alternate 3) is an offset, 31 ft. north & 23 ft. east of the Indian Hills Unit Fed. Well No. 36 well bore.

An archaeological survey is not required for the proposed Marathon Oil Company Indian Hills Unit Fed. Well No. 55 (Alternate 3), since the well falls entirely within the previously inspected 600 ft. square area, and no new construction is envisioned outside of the originally constructed and fenced well pad area.

No construction or vehicular activity should occur south or east of the established fenceline. An archaeologist should monitor construction activity at the proposed Indian Hills Unit Fed. Well No. 55 (Alternate 3) wellpad.

- ARCHAEOLOGICAL SURVEY CONSULTANTS P.O. Box 2285 Roswell, New Mexico 88202-2285 Phone: 505-623-5012

Fax: 505-623-3121

TO: Tiffany Sullivan-Owens, Carlsbad Field Office, Bureau of Land Management, New Mexico.

FROM: D.M. Griffiths, Principal Investigator, Archaeological Survey Consultants.

Subject: proposed Marathon Oil Company Wells situated on extant, previously inspected, well pads.

Priority 3: Marathon Oil Company Indian Hills Unit Fed. Well No. 56 (T21S, R24E, Section 21, 453 FSL, 350 FWL, Eddy Co., N.M.): situated on the previously inspected Indian Hills Unit Fed. Well No. 33 well pad (T21S, R24E, Section 21, 429 FSL, 326 FWL, Eddy Co., New Mexico).

ASC Report 01-019 (10-Apr.-2001) covered the archaeological survey of the Marathon Oil Company Indian Hills Unit Fed. Well No. 33 well pad. Archaeological survey revealed the occurrence of 5 Isolated Finds, none of which appeared significant past the level of field recording.

In addition, archaeological survey revealed the occurrence of 2 BLM Category 2 (significant) sites: LA 121206 and LA 132271. LA 121206 is a previously recorded, archaeological site, situated to the south and SE of the previously built, fenced, and drilled Indian Hills Unit Fed. Well No. 1 (see ASC Report 98-009).

LA 132271 is situated SE of the proposed Indian Hills Unit Federal Well No. 33, with only the extreme SE quadrant of the staked 600 ft. square well pad impinging on the site. Since LA 132271 was essentially outside of the proposed Indian Hills Unit Federal Well No. 33, the site was in minimal danger from construction activity.

Since the un-damaged part of LA 121206 was to the south and SE of the previously disturbed and bladed area of the original Indian Hills Unit Federal Well No. 1, and south of the proposed Indian Hills Unit Federal Well No. 33, archaeological CLEARANCE for the Marathon Oil Company Indian Hills Unit Federal Well No. 33 was RECOMMENDED, with the proviso that all well pad activity be restricted on the south and southeast side to an area no greater than 150 ft. south of the proposed drill hole. An east-west trending barb-wire fence was erected prior to all well pad activity at a distance of 150 ft. south of the proposed borehole. An archaeologist monitored the erection of the fence.

The proposed Indian Hills Unit Fed. Well No. 56 is an offset, 24 ft. north & 24 ft. east of the Indian Hills Unit Fed. Well No. 33 well bore.

An archaeological survey is not required for the proposed Marathon Oil Company Indian Hills Unit Fed. Well No. 56, since the well falls entirely within the previously inspected 600 ft. square area, and no new construction is envisioned outside of the originally constructed and fenced well pad area.

No construction or vehicular activity should occur south or east of the established fenceline. An archaeologist should monitor construction activity at the proposed Indian Hills Unit Fed. Well No. 56 wellpad.

ARCHAEOLOGICAL SURVEY CONSULTANTS

P.O. Box 2285

Roswell, New Mexico 88202-2285 Phone: 505-623-5012

Fax: 505-623-3121

TO: Tiffany Sullivan-Owens, Carlsbad Field Office, Bureau of Land Management, New Mexico.

FROM: D.M. Griffiths, Principal Investigator, Archaeological Survey Consultants.

Subject: proposed Marathon Oil Company Wells situated on extant, previously inspected, well pads.

Priority 4: Marathon Oil Company Smith Fed. Well No. 4 (T22S, R23E, Section 11, 1511 FNL, 839 FEL, Eddy Co., N.M.): situated on the previously inspected Smith Federal Well No. 3 well pad (T22S, R23E, Section 11, 1514 FNL, 870 FEL, Eddy Co., New Mexico).

ASC Report 00-040 (25-Aug.-2000) covered the archaeological survey of the Marathon Oil Company Smith Federal Well No. 3 well pad and Access Road R/W. Archaeological survey revealed the occurrence of 4 Isolated Finds, none of which appear significant past the level of field recording.

In addition, archaeological survey revealed the occurrence of 2 BIM Category 2 sites (significant past the level of field recording): LA 120252, straddling the initially staked (and cancelled) access road R/W, and LA 130972 situated in the SE quadrant of the finally staked well pad, to the SE of a NE trending barbwire fenceline.

The proposed Smith Federal Well No. 4 is an offset, 3 ft. north and 31 ft. east of the Smith Federal Well No. 3 well bore, within the built wellpad. LA 130972 should not be endangered by well drilling activity.

An archaeological survey is not required, since the well falls entirely within the previously inspected 400 ft. square area, and no new construction is envisioned outside of the originally inspected well pad. A BLM stipulation should state that no new construction, vehicular, or drilling activity should occur SE of the extant NE trending barbwire fenceline.

Priority 5: Marathon Oil Company Indian Basin State 32 Well No. 5 (T21S, R24E, Section 32, 628 FNL, 820 FWL, Eddy Co., N.M.): situated on the previously inspected Indian Basin State 32 Well No. 4 well pad (T21S, R24E, Section 32, 660 FNL, 810 FWL, Eddy Co., New Mexico).

ASC Report 99-027 (26-March-1999) covered the archaeological survey within the Indian Basin State 32 Well No. 4 well pad. No cultural material was found within the surveyed well pad. The proposed Indian Basin State 32 Well No. 5 is an offset, 32 ft. north & 10 ft. east of the Indian Basin State 32 Well No. 4 well bore.

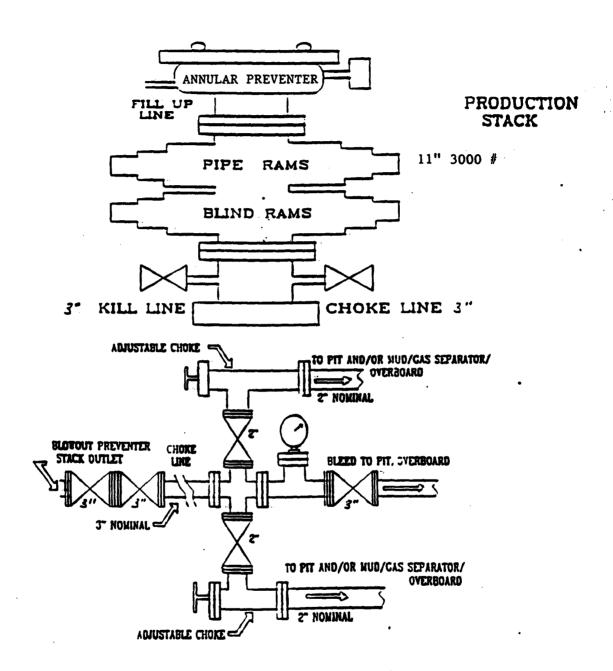
An archaeological survey is not required, since the well falls entirely within the previously inspected 600 ft. square area, and no new construction is envisioned outside of the originally inspected well pad.

Priority 6: Marathon Oil Company North Indian Basin Unit Federal Well No. 35 (T21S, R23E, Section 10, 1650 FNL, 1650 FWL, Eddy Co., N.M.): situated on the previously inspected North Indian Basin Unit Federal Well No. 33 (Alternate Location # 2) well pad (T21S, R23E, Section 10, 1650 FNL, 1650 FWL, Eddy Co., New Mexico).

ASC Report 96-123 (24-Nov.-1996) covered the archaeological survey within the North Indian Basin Unit Federal Well No. 33 (Alternate Location # 2) well pad. Only 4 prolated Finds occurred within the well pad.

An archaeological survey is not required, since the well falls entirely within the previously inspected 400 ft. square area, and no new construction is envisioned outside of the originally inspected well pad.

D. M. Griffiths.



MARATHON OIL COMPANY

H2S DRILLING OPERATIONS PLAN

I. 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.
- 2. 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 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 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 accomodate all pipe sizes
- b. blind rams
- c. choke manifold
- d. closing unit

Auxillary equipment added as appropriate includes:

a. annular preventor	<i>i</i> /
b. rotating head	1/
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.

D. Drill Stem Test intervals are as follows:

DST No. 1	ft. toft	
DST No. 2	ft. to ft	
DST No. 3	ft. to ft	

Drill Stem Testing Safety Rules are attached.

III. WELL SITE DIAGRAM

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

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

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^{* =} Link to an external document

1. PURPOSE (Back to Top)

This plan is intended to protect the health and safety of the public, contractors and Marathon personnel should an unanticipated release of a potentially hazardous volume of *Hydrogen Sulfide* (H₂S) occur.

Further to:

- Comply with the Bureau of Land Management's (BLM) Onshore Oil and Gas
 Operations; Onshore Oil and Gas Order No. 6, Hydrogen Sulfide Operations (43
 CFR Part 3160:
- Comply with State of New Mexico Oil Conservation Division's (NMOCD) rule 19 NMAC 15.C.118.
- Comply with Marathon's Emergency Preparedness Policy & Plan located at; http://mweb2.hst.moc.com/epg/eppp/eppp1.htm
- Comply with EPA's Risk Management Plant (RMP)
- Assure proper notification of the appropriate parties and agencies

2. SCOPE

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The provisions of this document are intended address hydrogen sulfide (H_2S) releases and H_2S emergencies at Marathon's Indian Basin Gas Plant and all surrounding Marathon operated field locations in the Indian Basin field. Facilities for which calculations indicate a potentially hazardous volume of H_2S could occur have additional site specific response information and radius of exposure drawn on the attached plat map. The field is located in Eddy County New Mexico, approximately 20 miles west of Carlsbad New Mexico.

This plan is intended to be used in conjunction with the Southern Business Unit's Emergency Response Plan, available electronically on the company intranet at http://mweb.mid.moc.com/SBU_WEB/SBUHES/Emergency_Response/ERP2002.doc and applies to RMS Level I incidents, those that can be reasonably addressed by the Indian Basin Area field office and resolved within two days (approximate). Any incident which exceeds this scope will be managed by progressive levels of company resource. These are the Southern Business Unit and then by the Corporate Emergency Response Team (CERT).

3. DEFINITIONS

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All Clear – Notification of effected personnel, by the response leader, that the incident has ended and the area is safe to re-enter.

A Potentially Hazardous Volume means a volume of hydrogen sulfide (H_2S) gas of such concentration that:

- The 100-ppm ROE includes any public area.
- The 500-ppm ROE includes any public road.
- The 100-ppm ROE exceeds 3,000 feet.

Facility – Equipment involved in producing, processing, or transporting natural gas and/or crude oil, including the property to the edge of the pad or fence.

Hydrogen Sulfide Gas (H₂S) -is a extremely flammable, colorless, poisonous gas that may occur naturally as a component of production streams, such as crude oil, produced water and natural gas. At low concentrations it has a rotten egg odor, but at higher concentrations deadens the sense of smell. Its specific gravity is heavier than air giving it a tendency to collect in low-lying areas on still days. The permissible exposure limit is 10 ppm and the short term exposure limit is 15 ppm. It is considered to be immediately dangerous to life and health at 300 ppm. H₂S is readily dispersed in air and is water soluble.

ICS (Incident Command System) – A team based concept for emergency response in which roles and responsibilities are predetermined.

Incident Commander (IC) - Senior Marathon employee in charge of an emergency response.

Incipient Stage Fire – A fire in the beginning or very early stages of development, which can be effectively extinguished by one or more persons with portable fire fighting equipment.

Muster site - A pre-defined staging or meeting area.

RMS (Response Management System) - A project management system which facilitates taking command of an emergency event when response is initiated and turning the event into a controlled project with strategic objectives by providing daily and long-range planning.

RMS Level I – an emergency that can be reasonably addressed by SBU Area Office in which the incident occurs and that can be resolved in approximately two days or less.

ROE (Radius of Exposure) – The radius constructed with the point of escape (of gas) as its starting point and its length calculated using the Pasquill-Gifford derived equation or computer modeling where the H_2S concentration is greater than 10%.

PPM - Parts per Million

Public Area – Any building or structure that is not associated with the well, facility or operation for which the ROE is being calculated and that is used as a dwelling, office, place of business, church, school, hospital, or government building, or any portion of a park, city, town, village or designated school bus stop or other similar area where members of the public may reasonably be expected to be present.

Public Road - Any federal, state, municipal or county road or highway.

SBU - Southern Business Unit

Serious Incident – An event which results or has the potential to result in severe personal injury and / or significant equipment damage.

Sulfur Dioxide (SO_2) - A heavy colorless toxic gas that is formed when hydrogen sulfide is burned. It has a pungent odor and is a respiratory irritant. The permissible exposure limit is 2 ppm, the short term exposure limit is 5 ppm, It is considered to be immediately dangerous to life and health at 100 ppm. SO_2 is readily dispersed in air and is water soluble.

Total Personnel Evacuation - An evacuation of all person (Marathon employees, contract employees, or visitors) from the emergency area to a muster area.

4. THE PLAN

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Training:

All personnel (company, contractors and sub-contractors) working in the plant or field for Marathon Oil Company are required to complete hydrogen sulfide training before beginning work and annually thereafter.

Training on the contents of this plan shall be provided to all Marathon and appropriate contract personnel working at Indian Basin:

- initially when the plan is first implemented,
- whenever the employees' responsibilities or designated actions under the plan change,
- whenever the contents of the plan are changed/revised.
- whenever a new employee begins employment, and
- periodically as needed for all employees.

Marathon supervision is responsible for this training. Mock emergency drills involving facility evacuation and public protection measures shall be held periodically. Training and drills shall be critiqued, documented and kept on file for future reference.

Orientation:

All persons visiting or working at Indian Basin shall receive an orientation covering the following minimum items:

	Southorn	Rusinoss	Linit	cofety &	environmenta	Loriontation
`□	Southern	business	Unii	salety &	environmenta	Lorientation

- What types of emergencies are possible,
- □ What the emergency evacuation alarm sounds like in the gas plant,
- □ How to report an incident/emergency,
- ☐ Who will be in charge during an emergency,
- How to safely evacuate the plant, and
- □ Where to assemble so that all persons can be accounted for.

The Marathon representative responsible for the contractors or visitors shall conduct the orientations and shall document attendees and dates.

H₂S Monitors:

All personnel working at Indian Basin are required to wear a personal H₂S monitor at all times when working in the plant or field. Monitors should have a vibrating alarm if used in high noise areas.

Activation:

Phase I - activated when:

- 1. Sustained H₂S concentration reaches 10 parts per million (ppm) in any work area and the source is not readily identified and/or controllable.
- Continuous H₂S levels are detected at 10 ppm (or greater) at any public road, near an
 occupied residence or bus stop, and the source is not readily identified and/or
 immediately controlled.

Phase II - activated when:

- 1. A potentially hazardous volume of H₂S is detected.
- 2. When sustained H₂S concentrations exceed 50 ppm at any facility boundary.

Phase I:

Upon d	liscovery on-site personnel should; Make others on-site aware of the presence of H₂S and leave the area upwind or
	crosswind to a safe location. (Pre-determined if a pre-job tailgate meeting was conducted).
Þ	Prevent unauthorized persons from entering the area. Request assistance if needed.
O	If a residence or other public area is in the vicinity, monitor for H ₂ S to ensure exposure is less than 10 ppm. Notify supervision if higher exposures are noted or if any other questions arise about steps necessary to protect these sensitive areas.
a	If considering re-entering the area to assess the H ₂ S source, ensure you have been properly trained to respond. Use an H ₂ S monitor with digital display (preferably a multi-
	gas monitor) and have a supplied air respirator (SAR) and back up person with SAR readily available. Consider notification of supervisor if appropriate.
0	Proceed with caution. If H ₂ S concentration reaches 10 ppm in your breathing zone, back out and use SAR to re-enter. If H ₂ S concentration reaches 50 ppm at the facility boundary immediately notify supervision.
۵	If source can be safely controlled, monitor area to ensure H ₂ S levels are below 10 ppm.
	End response here and sound all clear to allow others to re-enter the area. Report length of release and volume to supervisor.
	If the source of H ₂ S cannot be identified and/or controlled, or if you cannot do so with out exposing yourself to danger, leave the area to a safe distance.
0	Notify supervision Continue to monitor for H ₂ S and maintain site security until instructed by supervision to
_	do otherwise.
Superv	
0	Gather necessary information to determine the course of action and level of response. Mobilize any additional man power or equipment necessary.
0	Ensure Phase II measures are implemented if appropriate.
	Continue to monitor situation until incident is over.
	Make notifications if required.
0	Complete reports if required. Investigate as indicated.
	Reference: SBU Emergency Response Plan for reporting guidance.
	http://mweb.mid.moc.com/SBU_WEB/SBUHES/Emergency_Response/ERP2002.doc
Phase	<u>II</u>
Upon c	discovery on-site personnel should;
0	Make others on-site aware of the presence of H ₂ S and leave the area upwind or crosswind to a safe location. (Pre-determined if a pre-job tailgate meeting was conducted).
	Active the facility ESD if available and it can be safely done.
	Prevent unauthorized persons from entering the area.
	Notify Supervisor.
Superv	vision:
Superv	Initiate the <u>Incident Command System</u> as deemed appropriate.
	Mobilize the resources necessary to maintain site security and provide for the protection
	of personnel and the public

□ Issue warnings to all MOC personnel by radio and or phone (IB Contact List) to make

If deemed necessary, order a total personnel evacuation of the area.

them aware of the incident and its location. Have non-essential personnel leave the area.

- Notify non-company personnel known to work or reside in the area (IB Contact List). If necessary to ensure their safety, dispatch MOC personnel with the appropriate monitor, supplied air respirators and means of communication to these locations. (Appendix B)
- Have MOC personnel set up road blocks to prevent unauthorized entry into impacted areas until relieved by law enforcement or other authorized personnel.
- ☐ Make all appropriate notifications to MOC, Federal, State and local authorities.

 Reference: SBU Emergency Response Plan for reporting guidance (section 9.0)
- □ When the release has been contained and monitoring indicates the area is safe to reenter, terminate operations and sound the all clear.
- Complete reports if required.
- Investigate as indicated.
- □ For spills, well blowouts, fires, natural disasters and terrorist or bomb threats are found in the SBU Emergency Response Plan (Appendix B Response Guidance Documents).
- Refer to the facility specific response documents in <u>Appendix C</u> for more specific information.

All other personnel not involved in the immediate response;

- If a total evacuation is ordered, report to the Incident command center or nearest muster site to which you have safe access. (See appendix A for muster site locations)
- ☐ Ensure all contract personnel working for you (or in your area) are accounted for and have them report to a safe muster site.
- Senior employee at each muster site should make a roster of all personnel reporting to that muster site and be prepared to make it available to the incident commander (IC).
- Maintain communication with the IC and be prepared to offer assistance as it is requested.

Ignition of H2S:

While no uncontrollable release of H_2S is anticipated, should ignition of gas be necessary for the protection of personnel or the public, the determination would be made by the Marathon Incident Commander. The method of ignition will maintain the safety of the person performing this task as the primary concern. The most likely method would be the use of a flare gun from a safe distance.

If this becomes necessary, monitoring will include sulfur dioxide (SO₂) in addition to H₂S.

5. DISTRIBUTION AND REVIEW

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After approval, copies of this Plan shall be distributed to the following:

KA Tatarzan

RV Coleman

DA Brodbeck

JJ Harrison

CM Schweser

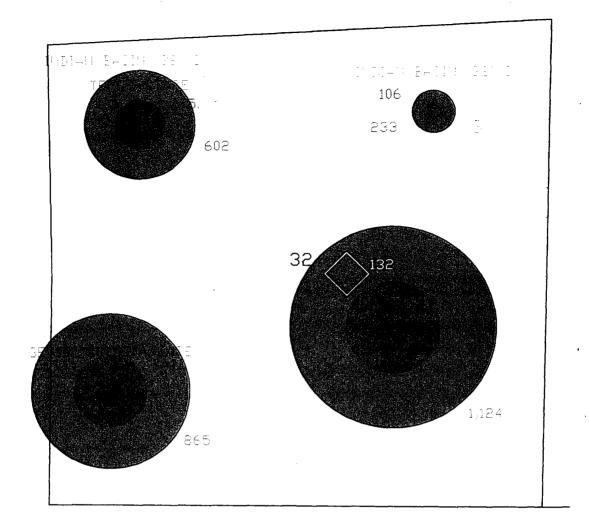
6. APPRO	DVALS	(Back to Top)
Approved by:	Name: Title: Maintenance Supervisor	Date
	Name: Title: Production Supervisor	Date
	Name: Title: Plant Superintendent	Date
	Name: Title: Operations Superintendent	Date

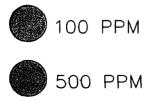
7. Appendix A

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ROE PLAT ROE Calculations

21S R 24 E





MARATHON OIL COMPANY
SOUTHERN BUSINESS UNIT

INDIAN BASIN FIELD

AREA MAP
EDDY COUNTY, NEW MEXICO

8. Appendix B

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Contacts List All IB contact Info List.xls
Maintained at O:/Permanent/Indian Basin Contacts

REGULATORY CONTACTS

	Contact I	Name				
Agency	First	Last	Division/Area	Main Phone Number	Cell Phone 1	Home Phone Number
NMOCD	Emergency Number		Distict 2	(505) 746-4302		*
NMOCD	Field Rep On-Call		Distict 2	(505) 939-8622		
NMOCD	Tim	Gum	Distict 2	(505) 748-1283	(505) 365-7566	(505) 324-1387
NMOCD	Mike	Stubblefield	Distict 2	(505) 748-1283	(505) 365-8211	·· ·
NMOCD	Gary	Williams	Distict 2	(505) 748-1283	(505) 365-7562	-1
NMOCD	Gerry	Guye	Distict 2	(505) 748-1283	(505) 365-7563	
NMOCD	Phil	Hawkins	Distict 2	(505) 748-1283	(505) 365-7564	(505) 746-9272
NMOCD	Bryan	Arrant	Distict 2		(505) 365-7565	
NMOCD	Lori	Wortenberhy	Santa Fe Division Offices		(505) 476-3460	
NMOCD	Ed	Martin	Santa Fe Division Offices	(505) 827-7131	(505) 476-3492	~3
NMOCD	Roger	Anderson	Santa Fe Division Offices		(505) 476-3490	
NM State Police			District 3, Roswell	(505) 827-9312		
NM State Police			Sub-District 3, Roswell	(505) 622-7200	(call this number	for dispatch to our area
BLM			Carlsbad	(505) 887-6544		
US Coast Guard			National Response Center	(800) 424-8802		
NMED			Air Quality Bureau	(505) 827-1494		
	State Emergency Res	sponse Center		(505) 827-9126		
LEPC	Local Emerg Planning	g Commission	Eddy County	(505) 885-2111		
NM OSHA	New Mexico OSHA C	Office		(505) 827-2850		

Emergency Services

Service Provider	Description	Main Phone
General Emergency	Police, Fire, Ambulance	911
Carlsbad Police, Fire & Ambulance Service		(505) 885-2111
Artesia General Hospital	Medical Services	(505) 748-3333
Carslbad Fire Dept.	Fire Control	(500) 885-3124
Artesia Fire Dept.	Fire Control	(505) 746-2701
Happy Valley Fire Dept.	Fire Control	(505) 885-1982
NM State Police	Sub-District 3, Carlsbad	
NM State Police	District 3, Roswell	(505) 622-7200 Dispatcher for our are
Eddy County Sheriff	Law enforcement	(505) 887-7551

First	Last		C	Cell Phone 2	 -	Radio #	Home Number		City	Zφ
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13		ъ́			866-499-7620	and held	(505) 885-2883		Carlsbad	88220
Carisbad S05) 764-9071 Carisbad S05) 365-7660 S87-210-8641 16 S05) 748-2575 E. BLEVINIS RD. Loving S96-7662 S86-499-7612 10 S05) 885-582 S90 W. Church Apt 29 Carisbad Artesia S96-499-7612 10 S05) 885-8440 S129 HASTON RD. Loving S87-8334 S86-499-7612 10 S05) 887-3836 S14 SOLANA Carisbad S98-4499-7624 hand held S05) 746-2619 S100 W. CLAYTON AVE Artesia S66-499-7624 hand held S05) 746-2619 S100 ENTER Carisbad S66-499-7624 hand held S05) 887-2025 S15 Washington Artesia S05) 365-4459 S05 Washington S05) 887-2025 S18 Washington Carisbad S05) 887-8245 S08 CENTER Carisbad S05) 887-8256 S08 CENTER Carisbad S05) 887-8256 S08 CENTER Carisbad S05) 887-8256 S08 CENTER Carisbad Carisbad S05) 887-8256 S08 CENTER Carisbad S05) 887-8262 S08 CENTER Carisbad Carisbad S05) 887-8262 S08 CENTER Carisbad Carisbad S05) 887-986 S07 S 7 RIVERS Carisbad Carisbad Carisbad S05) 887-986 S07 S 7 RIVERS Carisbad Artesia Carisbad Car	Klein			(505) 365-5606		ವ	(505) 484-3675 F	O BOX1463	Hope	88250
22	Larke						(505) 704-9071		Carlsbad	88220
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Substitute						,	2020-200(016)		Callsbad	17700
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NOTICE TO THE PROPERTY OF THE	Winters		-1-		364.1910	4	(505) 746 4660 2		Artosia	
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PRODUCTION AREA ICS STRUCTURE INDIAN BASIN

Pat Bowen	Public	Jack Ivy	Jim Wilson	Pat Reynolds*	Sa	Bruce Waldrip*	Sharky Morgan	James Faught*	Logistic	Monty Corbett	Ken Nasit	Richard Aves	Jim Tomlinson	Grant Smith	Plannin	Tim Winters	Timmy Klein	Jerry Harrison	Mike Schweser * IGBP	Dwight Brodbeck * Field	Operation	Bob Coleman	Incident (
	Public Affairs			*	Safety	p*	an	*	Logistics Section	a)n		Planning Section			ח	er*IGBP ◆	beck* Field ◆	Operations Section	1	Incident Commander	
(505) 457-2621 (Ext 133)	· · · · · · · · · · · · · · · · · · ·	(505) 457-2621 (Ext 128)	(505) 457-2621 (Ext 106)	(505) 457-2621 (Ext 139)	各篇 \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P	(505) 457-2621 (Ext 107)	(505) 457-2621 (Ext 111)	(505) 457-2162 (Ext 151)	· 原体 1. 1 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(505) 457-2621 (Ext 140)	(505) 457-2621 (Ext 115)	(505) 457-2621 (Ext 105)	(505) 457-2621 (Ext 126)	(505) 457-2621 (Ext 137)		(505) 457-2621 (Ext 120)	(505) 457-2621 (Ext 108)	(505) 457-2621 (Ext 121)	(505) 457-2621 (Ext 104)	(505) 457-2621 (Ext 131)		(505) 457-2621 (Ext 103)		
(505) 365-8422		(505) 365-4859	(505) 365-4257	(505) 365-4871		(866) 499-7641	877-210-6841	(505) 361-8260		(505) 365-7607	(505) 365-7650	(505) 361-8258	(505) 361-8404	(505) 365-7528			(505) 361-5606	(505) 365-5864	(505) 361-7331	(505) 365-7253	· · · · · · · · · · · · · · · · · · ·	(505) 361-0898		
(505) 365-8411		(505) 365-8442		(505) 365-7514			(505) 365-7618	(505) 365-8259		(505) 361-7607	(505) 365-7660	(505) 365-8258	(505) 365-8403			(505) 365-7589	(505) 365-5518	(505) 365-5863						
(505) 748-2885		(505) 748-2763	(505) 746-6481	(505) 748-1472		(505) 457-2252	(505) 745-3327	(505) 392-6575		(505) 628-3298	(505) 885-4582	(505) 885-1990	(505) 885-1838	(505) 887-8245		(505) 746-4662	(505) 484-3675	(505) 746-6754	(505) 885-0716	(505) 887-9097		(505) 628-0049		
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26		17	Handheld	Handheld		13	16	32		34			35	8		4	13	3	2	36		_		

Denotes Command Staff/Section Chief "Lead" if applicable.

Denotes Alternate Incident Commanders

AREA RESIDENTS AND OFFSET OPPERATORS

PRINTED	
7/8/2003	

		(505) 305-4040	(305) /48-66 (3				Moorehead	Robert	Yates Pertroleum (Agave)
		(505) 365-4615	(505) 748-6816			Foreman	Johnson	Bill	Yates Pertroleum (Agave)
			(505) 748-1471					Main Office	Yates Pertroleum (Agave)
		(505) 706-3669	(505) 390-1540				Brannon	Steve	KMG (Kerr McGee)
							Wilson	James	KMG (Kerr McGee)
		(505) 706-3543	(505) 234-2703			Team Leader	Hess	Bobby	KMG (Kerr McGee)
		(505) 910-0342	(505) 234-2703			Production foreman	Chalker	Andy	KMG (Kerr McGee)
		(505) 706-3423	(505) 234-2703			Superintendent	Deese	Tommy	KMG (Kerr McGee)
			(5058) 857-2158			Gas measurement	Jacquez	David	El Paso
			(505) 910-4675				Valenzuela	Oscar	Duke Energy
			(505) 628-0282		Carlsbad			Main Office	Duke Energy
			(505) 390-2791			Foreman	Lamb	Johnny	Duke Energy
			(505) 457-2613					"Doghouse"	Devon
			(505) 390-5438			Superintendent	Huber	Joe	Devon
			(505) 390-5431					Brady	Devon
			(505) 748-5503				Canada	Don	Devon
			(505) 748-5502				Huber	Mike	Devon
			(505) 748-7749				Crosbey	Owen	Devon
			(505) 390-5850					Daniel	Devon
		O+C1-08C (COC)					Angel	Kenneth	Chevron Oil
		(505) 390-7232					Boles	Randy	Chevron Qil
		200,000 7000	none				DeMoss	Neil	Patsy's old house
	1000 1100		1 303 437 2300	Carlsbad, NM 66220	646 Gureens Highway		Biebelle	Stacey	Schafer Ranch
	Also own the trailer house where Patsy lived		1 605 757 2060	88970				4.000	
	Houses near low water crossing on Hwy 137.						- Control	T TOOK	Old Jories Painter (Lock Invest)
			(505) 457-2108				asiter		Sale Park (see Park)
	Queens.		1 505 457 2233	Carlsbad, NM 88220	1762 Qureen Highway		Marbauch	3	
	about two miles past the mile marker 42 toward								
	Lives at ranch house, just east of Hwy 137		- 000 000	Callsbad, INN 00220	2911 Octobily Carryon Or		Kincaid	Hugh	Kincaid Ranch
			1 605 885 9458	Carlsbad, NM 88220	2913 Octobily Canyon Dr.		Kincaid	Gene	Kincaid Ranch
			1 505 997 6019	Lakewood, NM 88254	P.O. Box 94		Howell	Richard	Howell Ranch
			C+22 /C# COC	Artesia, NM 88211-0234	P.O. Box 234		Houghtaling	Hàrold	HH Ranch
			200 457 7040	Carlsbad, NM 88220	617 Queens Highway		Gregory	Wayne	Gregory's
			1 505 457 2245	Carisbad, NM 88220	344 Ponderosa Pine		Cox	Billy	Gissler Ranch
	Haller income light strain		1 505 457 2307	Lakewood, NM 88254	P.O. Box 89		Lee	Dean	Forrest Lee Ranch
ne 13 539490 east 3595793 north			1 505 45/ 2105	Artesia, NM 88211-0103	P.O. Box 103		Foster	John	Foster Ranch
			2202 754 505 1	Carlsbad, NM 88220	1073 Marathon Road		Wilkie	Mark & Sandi	4TK + (Boles)
		0011	LIMIN .		Address	Title	Contact	20	Location Description
GPS data	Location Information.	Cell 1							Updated 4/16/03

						_		D	
(505)887-8372	<u> </u>		(505) 234-2448		(505) 361-2002		Contreras	Ramon	WSI Unit 110
(505)628-0726	100						Franco	Jesse	WSI Unit 100
(505) 885-8041							Fierro	Fernando	WSI Unit 100
(505) 628-1788	100	The state of the s	(505)364-1858		(505) 361-2027		Martinez	George	WSI Unit 100
(505) 887-0542	103						Olivas	Luis	WSI Unit 103
(505)628-8355	ន						Chavez	Juan	WSI Unit 103
(505)887-7096	103		(505)364-1871	302-3086	(505) 361-3804		Martinez	Thomas	WSI / Unit103
(505)628-1067	101		(505)364-1872		(505) 365-4735		Perez	James	WSI / Unit101
			800-232-3073		(505) 365-6758		Wilson	David	Truck &Tractor
(505) 628-0203					(505) 390-6520		Sanchez	Michael	TESSCO
(505) 631-8303					(505) 390-6520		Hernandez	Jr.	TESSCO
(505) 885-3490		1		(505) 390-5871	(505) 390-5836		Methola	Tim	TESSCO
(505) 887-0743			Office 236-6266	(505) 631-9492	(505) 631-7660		Whitaker	Mike	TESSCO
(505)628-8449	14			(505) 390-9833	(505) 390-3542		Hodge	Gary	TESSCO
							Bustamente	David	Ryder Welding
			866-499-7637		(505) 365-5172	457-2163	Anaya	David	RedMan
(505) 887-9174	!				(505) 910-0319		Fuentez	Alfonso	NGM
(505)623-8423				(505)420-7751	(505) 420-7752		Lejune	Larry	NGM
(505) 234-1696					(806) 215-0771	ļ	Porras	Ismael	Nalco/Exxon
(806) 592-3153			(877) 209-7701		(806) 893-1462		Howell	Brad	Nalco/Exxon
(505) 885-1990	39				(432) 208-2280	155	Fulwider	Randy	
	1						Buendia	Ricky	
	107		1-800-560-9557	(505) 420-4399	(505) 910-5056		Moreno	Arturo	Mesquite Services
	108						Соре	Tony	Key Energy
	109						Houchin	Jimmy	Key Energy
	<u>ယ</u>			(505) 706-0229	(505) 706-0228	136	Hernandez	Marcos	Key Energy
i					(505) 369-8629		Cochran	Travis	Indian Fire & Safety
:			(505) 339-1402		(505) 706-0903		Goff	Chris	Hanover
	24		(505) 339-1404		(505) 706-0901	!	Rocha	<u>-</u>	Hanover
(505) 887-8256			(505) 339-1400		(505) 706-0890		Bryan	Billy	
(505) 887-6139			(505) 339-1309	:	(505) 706-0900		Estes	Nei	Hanover
(505)746-8797			(500) 364-1237		(505) 748-5861		Atkins	p	
					(915) 638-5834		Parrish	Ronnie	
(915) 758-5855		T			(915) 661-9195		Morrison	Tommy	
					(505) 361-0656	145	McKee	Jay	Champion Technologies
			(888) 848-2491		(915) 413-2117	134	Lisenbe	Joe	Centrilift
(505)/46-0160		(505)364-1867	(877)715-5026		(915) 413-2144		Ruiz	Daniel	Centrilift
(505)234-1658	ပ	(505)364-1852	(877)405-2413	Annual control of the	(915) 413-9324	134	Fulwider	Steve	Centrilift
			(800) 647-4350		(505) 706-0565		Walker	Alan	_
	!		A COLUMN TO A COLU		(505) 706-0550		Wright	Mike	_
	ĕ				(505) 365-8079		Aranda	Joe	Aranda's Welding
Kadio # Hollie Nulliber	Kaulo #	Pager #2	Pager Number	Cell Phone 2	Cell Phone 1	Ext.	Last	First	Company
No.] 	5	2) :	! !				
	_			-		_	_		

WSI Unit 110	Anthony	Trevino		 		110	(505)887-8
Weatherford Barney	Barney						2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Wild Well Control							

9. Appendix C

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C-1 Indian Basin Gas Plant - Site specific response information

Content

Facilities Data

- A. Location
- B. Operations
- C. Fire Protection
- D. Emergency Alarm System
- E. Plant Communications
- F. Emergency Shutdown System
- G. Manning

Action Plans for Emergency Situations

Response Equipment

FACILITIES DATA

A. Location

The Indian Basin Gas Plant (IBGP) is located in Eddy County of southeastern New Mexico approximately 24 miles from Carlsbad, New Mexico and 30 miles from Artesia, New Mexico. The plant is surrounded by Federal Government lands managed by the Bureau of Land Management (BLM). There are no residences or private dwellings in close proximity to the plant; however, much of the land is used for cattle grazing. County road 401 runs east west directly to the north of the plant and carries very light public traffic. The terrain is uneven with hills and dry waterways. Vegetation in the area is sparse.

B. Operations

The plant is currently processing approximately 300 MMSCF/D. Residue gas is sold on a spot market basis. Approximately 12.500 BPD of natural gas liquids (NGL) and 360 BPD of condensate are recovered.

Gas from the field passes through inlet separators, and then into one of two parallel treating units to remove hydrogen sulfide and carbon dioxide. Gas from the first amine unit (A-1) flows to a glycol contactor to remove moisture, molecular sieve beds to remove remaining moisture, a dust filter and then on to one of two cryogenic units for NGL extraction. Demethanizer towers adjacent to the cryo skids provide final separation of the methane sales gas and NGL product.

Overhead sales gas from the demethanizers pass through heat exchangers, the expander booster compressors and is compressed further by one of four solar turbine compressors.

Gas that passes through the second amine system (A-2) then flows to a molecular sieve treater (GTU) to remove water and any remaining sulfur compounds, residue from the GTU recombines with the residue from the cryogenic plants prior to being compress to pipeline pressure in the tubing outlet compressor.

NGL's from the two demethanizers flow to their respective product surge tanks at 320 to 360 psig. From there the NGL's are pumped by booster pumps to a Chevron Operated product pipeline, via pipeline pumps. located inside the plant fence at the southeast corner of the yard approximately 50 feet from condensate storage bullets located immediately outside the south fence. Occasionally, NGL's are stored in three of the bullets when product cannot be shipped.

Condensate is received directly from the field and is recovered from inlet separators. Water is removed from the condensate by settling in the inlet tank. The condensate is then processed through a stabilizer and sent to storage. Two of the seven total bullet tanks are currently used for condensate storage. One bullet is a flare drum, three are designated for emergency product storage and one is idle. Condensate is shipped by truck from the rack located east of the plant approximately 100 feet from the fence. Truck shipments are usually two or three trucks per day. There are days when no truck shipments are made.

C. Fire Protection

Gas plant employees and contract employees shall attempt to only extinguish incipient stage fires. Fires that cannot be effectively extinguished with hand or wheeled portable fire extinguishers shall not be fought by employees or contractors.

Portable 30 lb. And 150 lb. (wheeled) fired extinguishers are strategically located throughout the gas plant. All company trucks are also equipped with 30 lb. fire extinguishers.

D. Emergency Alarm System

The gas plant emergency alarm system has two encoders for activating the various system capabilities. These encoders are located in the gas plant main office and in the control room. The alarm system has several different tones that can be used; however, the WAlL tone is currently used for emergency evacuation purposes. The system also has the capability for delivering pre-programmed voice messages to warn of "high H2S", "fire", "high pressure line rupture", "tornado warning", and "plant evacuation". A public address (PA) system is also built into the system so that customized messages can be voiced over the speaker tower. The system utilizes one speaker tower located in the center of the plant.

The IBGP radio must be set to <u>CHANNEL F1</u> in the gas plant office for the emergency alarm system to be functional.

The emergency evacuation alarm should be tested monthly at a minimum. This test should be documented and kept on file for future reference. Tests are performed at the start of each monthly safety meeting.

E. Plant Communications

Aside from the PA function of the emergency alarm system, the gas plant has a telephone system with multiple lines. Phones are located throughout the gas plant offices and in the control room. Several handheld radios are maintained and utilized by gas plant operators. Plant and field vehicles are equipped with radio as well.

An emergency telephone is located on County Road 401 approximately 1/4 mile east of the gas plant (by borehole

84). In the event that a total personnel evacuation is initiated and appropriate calls cannot be made before leaving the plant, this telephone, equipped with a combination locked enclosure, can be accessed by gas plant personnel to notify Marathon supervision, nearby residents, support agencies, etc.

Lock Box Combination: 2621

Telephone Number: 505-457-2486

F. Emergency Shutdown System

The gas plant is equipped with an emergency shutdown (ESD) system and a blowdown system. In the event of an emergency, appropriate personnel will determine the need for ESD and blowdown system actuation. Six (6) actuation stations are located throughout the gas plant. These locations are:

1 Southeast plant fence exit

4 West plant fence exit

2 East plant fence exit

5 Near South amine pump

3 Front plant gate (Northeast)

6 Control room

F. Hydrogen Sulfide Detection

Fixed hydrogen sulfide (H2S) detection equipment is located at the Sulfur Recovery Unit (SRU), the Acid Gas Compressor and throughout the Amine Systems. Upon detection of hydrogen sulfide, a beacon light and audible alarm will actuate in the area where H2S is detected. Personnel shall immediately evacuate the area. The alarm is also annunciated in the control room. Personal hydrogen sulfide monitors shall be worn at all times when in the gas plant.

G. Manning

The plant is attended 24 hours per day, 365 days per year. A minimum of two operators are on duty in the plant at all times.

ACTION PLANS FOR EMERGENCY SITUATIONS

The primary Incident Control Center will be the Gas Plant Office Conference Room. In the event that this area is deemed unsafe, the Gas Plant Superintendent will designate an alternative location.

The **primary muster area** is located across the road of the main office. If this primary location is deemed unsafe for assembly due to the close proximity of the incident site, wind direction, or other reason; an alternative (**secondary**) muster area has been designated southeast of the plant near the scrap metal storage area (beyond the horizontal storage bullet tanks). If this area is also deemed unsafe for any reason, another muster area will be announced over the PA speaker.

In the event of a serious incident within or in close proximity of the Indian Basin Gas Plant, the Plant Superintendent will assume emergency command. If the incident occurs on a lightly manned shift, the senior employee will assume emergency command until the Plant Superintendent or designee arrives on site.

A. General Emergency Action

- When a serious incident is discovered, the Plant Superintendent shall be immediately notified by radio or telephone. If this notification time increases the risk of injury to personnel or serious damage to facilities, the employee shall take immediate action (s) to control or attempt control of the incident if trained to do so. This action may include activation of the ESD system and /or plant evacuation alarm.
- 2. Once the Plant Superintendent assumes command of the incident, all other personnel, both Marathon and contractor, are responsible to take appropriate actions as directed by the plant Superintendent or designee.
- 3. If the incident cannot be immediately controlled and significant risk of injury to personnel is apparent, the Plant Superintendent shall order total personnel evacuation of the plant by activating the emergency alarm system for evacuation.

Field personnel shall be notified by radio of the situation and instructed to proceed to one of the designated muster sites to await further instruction.

- 4. All personnel shall immediately take notice of the wind direction and proceed crosswind or upwind of the incident or plant to the main muster area, located at the front plant entrance gate. If this primary muster area is deemed unsafe, an alternative muster area will be announced over the PA system.
- 5. The Plant Superintendent shall designate one of the Marathon employees to take a written head count of all persons, both Marathon and contract employees and any visitors. IBGP employees and contractors/visitors should muster in separate groups to aid in a swift headcount. Personnel unaccounted for will then be reported to the Plant Superintendent as soon as possible.
- 6. A search for missing personnel will be made only if it can be performed safely. Two volunteer Marathon employees with appropriate training and personal protective gear shall perform the search. These searchers shall remain within eye contact of one another and in radio contact of the Plant Superintendent for the duration of the search. A backup team of two employees with appropriate training and gear shall be designated and on standby.
- 7. Once all personnel are accounted for at the muster area, the Plant Superintendent or his designee may assign incident-specific assignments to respond and attempt control of the emergency. Personnel designated to reenter the plant shall be provided all necessary personal protective and atmospheric monitoring equipment and shall at all times utilize the buddy system and maintain radio contact with the muster area.
- Once the incident is determined by the Plant Superintendent to be under control, he/she shall appoint a team of at least two Marathon employees with appropriate personal protective and monitoring equipment to perform a post-incident survey.
- 9. Once the plant is determined by the survey team to be safe, the Plant Superintendent will give the "all clear" for personnel to reenter the plant.
- 10. Appropriate notification of Marathon and governmental agencies shall then be made. Reference: SBU Emergency Response Plan for reporting guidance (section 9.0)
- 11. While the incident scene remains undisturbed, an incident investigation team shall commence investigation as soon as possible.

Response Equipment:

The following items and equipment should be located at or be readily accessible from the Incident Control Center for effective emergency assessment, communication and action:

Company vehicles

- Hand-held portable radios (intrinsically safe)
- Personal hydrogen sulfide monitors
- Multi-function gas detector (hydrogen sulfide, LEL, oxygen) Normally found in plant control room
- Self-contained breathing apparatus (SCBA)*
- This plan
- Gas plant layout maps
- Process flow diagrams
- Chemical resistant clothing, gloves, and boots*
- Goggles, face shields, hearing protection, etc.*
- Portable fire extinguishers.*
- * Located in Emergency Response Trailer

PUBLIC PROTECT:
MARATHON OIL COMPANY - INDIA:

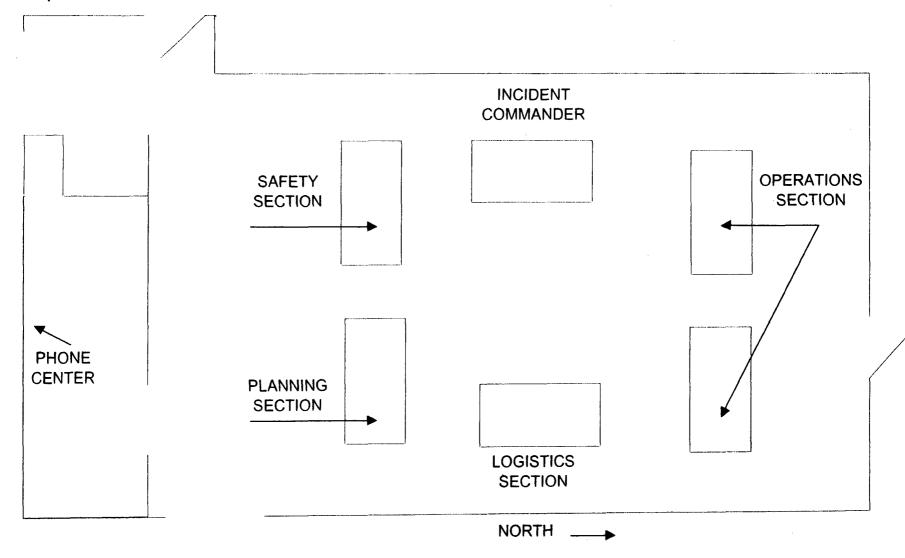
AN

SIN OPERATIONS

11. Appendix E

(Back to Top)

Tables will be arranged according to the lay out below when implementing the ICS structure at Indian Basin in the plant office conference room.



Revised (Date)

- 16 -

MARATHON OIL COMPANY -INDIAN BASIN INTEGRATED CONTINGENCY PLAN

Section I – Plan Introduction Elements

1. Purpose and Scope of Plan Coverage

This integrated contingency plan is meant to provide guidance in the event of emergencies resulting from identified hazards for all of Marathon's Indian Basin Gas Plant and Field operations. These operations include normal gas production operations, drilling, workovers/completions, and salt water disposal. Events addressed by this plan include, uncontrolled gas release, fires, explosions, bomb threats, natural disasters and spills.

It provides site specific information and is intended to be used in conjunction with Marathon's corporate and Southern Business Unit emergency action plans. The main objective is to protect the safety and health of employees, the public and to protect the environment.

Reference:

EPA's Oil Pollution Prevention Regulation - 40 CFR part 112.7(d) and 112.20-.21 EPA's Risk Management Programs - 40 CFR part 68 EPA's RCRA Continency Planning - 40 CFR part 264, Subpart D, 40 CFR part 265, Subpart D, and 40 CFR 279.52 OSHA's Emergency Action Plan - 29 CFR 191038(a) OSHA's Process Safety Standard - 29 CFR 1910.119 OSHA's HAZWOPER Regulation - 29 CFR 1910.120 BLM's Onshore Order 6 OCD's Rule 118

2. Table of Contents

- Section I Plan Introduction Elements
- Section II Core Plan Elements
 - o Discovery
 - o Initial Response
 - o Sustained Actions
 - o Termination and Follow-Up Actions
- Section III Annexes
 - 1. Facility and Locality Information
 - 2. Notification
 - 3. Response Management System
 - 4. Incident Documentation
 - 5. Response Critique and Plan Review and Modification Process
 - 6. Prevention
 - 7. Regulatory Compliance and Cross-Reference Matrices
- 3. Plan created date: 3/25/02

Revised date:

MARATHON OIL COMPANY -INDIAN BASIN INTEGRATED CONTINGENCY PLAN

- 4. General Facility Identification Information
 - a. Indian Basin Gas Plant & Field Operations
 - b. Owner/Operator Marathon Oil Company

c. (1) Physical Address:

329 Marathon Road

Lakewood, NM 88254

(2) Mailing Address:

P.O. Box 1324

Artesia, NM 88210

Phone: 1-505-457-2621

The Indian Basin Gas Plant is located approximately 25 miles West of Carlsbad in Eddy county New Mexico, Unit Letter G, Section 23, Township 21 South, Range 23 East. The Indian Basin field operations surround the plant location.

Driving instructions:

From Carlsbad, NM drive North on US Hwy 285 for approximately 12 miles until you reach the NM 137 turn off, just past mile marker 45, turn left (south west) onto NM 137 and drive approximately 8 miles to the junction of NM 137 and Marathon Road (also County Road 401). Turn right onto Marathon Road. Drive approximately 7 miles. The plant and field offices are located on the left hand (South) side of the road.

From Artesia, NM drive South on US Hwy 285 to mile marker 51. Turn right onto White Pine (also called County road 28) and drive until the paved road dead ends at the intersection with Marathon Road (Cty 401). Turn right and drive approximately 3 miles. The plant and field offices are located on the left hand (South) side of the road.

d. Send correspondence to the address above (4.c.2).

Attention: C.M. Schweser for plant related items.

Attention: D.A. Brodbeck for field related items

e. Other identifying information

SIC codes:

f. Contacts for plan development and maintenance.

R.V. Coleman – Operations Superintend Ext. 103

C.M Schweser - Plant Superintend Ext. 104

D.A. Brodbeck – Production Supervisor Ext. 131

P.J. Reynolds – E&S Technician Ext 139

g. Phone number for contacts: 1-505-457-2621 + extension.

MARATHON OIL COMPANY -INDIAN BASIN INTEGRATED CONTINGENCY PLAN

- h. Facility phone number is 1-505-457-2621, For emergencies dial 8 to ring all extensions.
- i. Facility fax number is 1-505-457-2621.

MARATHON OIL COMPANY -INDIAN BASIN INTEGRATED CONTINGENCY PLAN

Section II - Core Plan Elements

Termination and Follow-Up Actions.

1.	Discovery						
	Ensure safety of yourself and all other personnel working in the area by moving to a safe area.						
	Notify Marathon supervision of the emergency. Specify nature and extent.						
	If you can safely shut in the source, (i.e. remote ESD or valves) do so, otherwise await instructions.						
2.	Initial Response						
a.	Procedures for notifications.						
b. 'c.	IC System Marathon utilizes the ICS (Incident Command System). The Production Superintendent or his designee serves as incident commander for local responses. The ICS structure for Indian Basin operations is attached. Procedures for incident assessment.						
d.	Response Procedures						
	1 Immediate goals						
	2 Mitigating actions						
	3 Response resources						
e.	Procedures for implementation of tactical plan						
f.	Procedure for resource mobilization.						
3.	Sustained Actions:						

4.

NOTE: Test Gas Rate is highest monthly test three (3) most recent tests as of 9/30/02 NOTE: Test Gas Rate is under assumption that well is vented to atmosphere with artificial lift st

Percentage over test buffer =	20%			Pasquill	- Gifford
		Can Bata	Gas Rate		
Loose	Well	Gas Rate (MSCFD)	(MSCFD) w/Buffer	100 ppm	500 ppm
Lease Bone Flats Federal 12	1	8	10	26	12
Bone Flats Federal 12	2	4	5	17	8
Bone Flats Federal 12	3	30	36	60	27
Bone Flats Federal 12	4	144	173	159	73
Bone Flats Federal 12	5	44	53	76	35
Bone Flats Federal 12	6	28	34	57	26
Comanche Federal 3	1	795	954	372	170
Comanche Federal 3	2	295	354	200	91
Federal C 35	1	2234	2681	547	250
Federal C 35	2	120	144	88	40
Federal C 35	3	4040	4848	793	362
Federal Indian Basin A Gas Com	1	461	553	222	101
Federal Indian Basin A Gas Com	2	1044	1253	370	169
Federal Indian Basin B Gas Com	1	233	280	160	73
Federal Indian Basin C Gas Com	1	529	635	304	139
Federal Indian Basin C Gas Com	2	791	949	391	179
Federal Indian Basin D Gas Com	2	0	0	0	0
Indian Basin A	1	770	924	306	140
Indian Basin A	2	1120	1344	387	177
Indian Basin A	3	384	461	198	90
Indian Basin A	4	807	968	315	144
Indian Basin C	1	487	584	230	105
Indian Basin C	2	96	115	83	38
Indian Basin C	3	2072	2486	570	260
Indian Basin D	1	588	706	244	111
Indian Basin D	2	1131	1357	367	168
Indian Basin E	1	299	359	160	73
Indian Basin E	2	6	7	14	6
Indian Basin State 32	1-Y	6401	7681	1,083	495
Indian Basin State 32	2	8512	10214	1,294	591
Indian Basin State 32	3	924	1109	322	147
Indian Basin State 32	4	4152	4982	775	354
Indian Federal Gas Com	1	74	89	0	0
Indian Federal Gas Com	2	620	744	ō	Õ
Indian Hills State Com	1	345	414	275	125
Indian Hills State Com	3	62	74	94	43
Indian Hills State Com	4	72	86	103	47
Indian Hills State Com	5	136	163	153	70
Indian Hills State Com	6	99	119	126	57
Indian Hills State Com	8	41	49	72	33
Indian Hills Unit	1	5423	6508	930	425
Indian Hills Unit	6	411	493	185	85
Indian Hills Unit	8	1457	1748	451	206
Indian Hills Unit	9	1300	1560	420	192
Indian Hills Unit	10	6747	8096	1,066	487
Indian Hills Unit	11	1828	2194	520	238
Indian Hills Unit	12	1689	2027	495	226
Indian Hills Unit	17	2713	3256	603	276
Indian Hills Unit	18	2681	3217	599	274
Indian Hills Unit	19	5082	6098	893	408
Indian Hills Unit	20	2341	2809	550	251
Indian Hills Unit	21	10367	12440	1,395	638
Indian Hills Unit	22	10277	12332	1,532	700
Indian Hills Unit	24	2913	3496	630	288
Indian Hills Unit	25	5250	6300	894	408
Indian Hills Unit	26	1047	1256	0	0
Indian Hills Unit	28	3718	4462	720	329

= #50n Same Location as 32#4

NOTE: Test Gas Rate is highest monthly test three (3) most recent tests as of 9/30/02 NOTE: Test Gas Rate is under assumption that well is vented to atmosphere with artificial lift st

Percentage over test buffer =	20%		Gas Rate	Pasquill	- Gifford
		Gas Rate	(MSCFD)		
Lease	Well	(MSCFD)	w/Buffer	100 ppm	500 ppm
Indian Hills Unit	29	3574	4289	791	361
Indian Hills Unit	31	2118	2542	506	231
Indian Hills Unit	32	5952	7142	967	442
Indian Hills Unit	33	4185	5022	791	361
Indian Hills Unit	34	1405	1686	399	183
Indian Hills Unit	35	2150	2580	575	263
Indian Hills Unit	36	2184	2621	526	241
Indian Hills Unit	37 Y	2248	2698	526	240
indian Hills Unit	39	1880	2256	470	215
Indian Hills Unit	40	6450	7740	1,016	464
Indian Hills Unit	42	2143	2572	510	233
Indian Hills Unit	43	3905	4686	836	382
Indian Hills Unit	45	143	172	96	44
Indian Hills Unit	50	996	1195	316	144
Indian Hills Unit Gas Com	3	3141	3769	651	297
Indian Hills Unit Gas Com	13	7159	8591	1,090	498
Indian Hills Unit Gas Com	14	5031	6037	874	399
Indian Hills Unit Gas Com	27	7492	8990	1,139	520
Indian Hills Unit Gas Com	47		0	0	0
J.C. Williamson	1	88	106	87	40
MOC Federal	1	156	187	167	76
MOC Federal	2	123	148	144	66
MOC Federal	3	212	254	202	93
MOC Federal	4	89	107	118	54
MOC Federal	5	159	191	169	77
MOC Federal MOC Federal	6 7	410 24	492	306	140
MOC Federal	8	184	29 221	52 0	24 0
North Indian Basin Unit	1	1724	2069	499	228
North Indian Basin Unit	4	997	1196	354	162
North Indian Basin Unit	5	1584	1901	473	216
North Indian Basin Unit	7	56	67	88	40
North Indian Basin Unit	8	388	466	196	90
North Indian Basin Unit	9	1685	2022	492	225
North Indian Basin Unit	10	51	61	67	30
North Indian Basin Unit	11	2	2	9	4
" North Indian Basin Unit	12	124	149	116	53
North Indian Basin Unit	13	287	344	245	112
North Indian Basin Unit	14	190	228	189	86
North Indian Basin Unit	15	259	311	230	105
North Indian Basin Unit	16	279	335	193	88
North Indian Basin Unit	17	175	210	144	66
North Indian Basin Unit	18	125	150	117	53
North Indian Basin Unit	19	163	196	138	63
North Indian Basin Unit	20	108	130	107	49
North Indian Basin Unit	21	0	0	0	0
North Indian Basin Unit	22	96	115	99	45
North Indian Basin Unit	23	44	53	76	35
North Indian Basin Unit	24	188	226	151	69
North Indian Basin Unit	25	218	262	166	76
North Indian Basin Unit	26	85	102	114	52
North Indian Basin Unit	27	1	1	6	3
North Indian Basin Unit	30	410	492	246	112
North Indian Basin Unit	31	1004	1205	356	162
North Indian Basin Unit	34	74	89	0	O
North Indian Basin Unit	36	1485	1782	454	208
North Indian Basin Unit Gas Com	3	1549	1859	565	258

NOTE: Test Gas Rate is highest monthly test three (3) most recent tests as of 9/30/02

NOTE: Test Gas Rate is under assumption that well is vented to atmosphere with artificial lift st

20% Pasquill - Gifford Percentage over test buffer = Gas Rate Gas Rate (MSCFD) w/Buffer (MSCFD) Well 100 ppm 500 ppm Lease North Indian Basin Unit Gas Com 32 Pronghorn Federal Smith Federal Smith Federal Smith Federal Stinking Draw Stinking Draw Stinking Draw Stinking Draw

EMERGENCY REPORTING GUIDELINES Southern Business Unit – Marathon Oil Company

<u>April 2002</u>

(E.S.)	SI	3U	HOUSTON	CERT	
MARATHON	Asset Manager	Unit Manager	Sr. Vice President	Team Leader	
Emergency Type	Report-Yes/No	Report-Yes/No	Report-Yes/No	Report-Yes/No	
Company/Contractor Injury or Illness					
Fatality	Yes - ASAP	Yes - ASAP	Yes – ASAP	Yes – ASAP	
LTA – w/Hospitalization: < 3	Yes – ASAP	Yes - ASAP	Yes - 24 hrs	No	
LTA – w/Hospitalization: 3 or Greater	Yes – ASAP	Yes – ASAP	Yes - ASAP	Yes – ASAP	
LTA - w/o Hospitalization	Yes - ASAP	Yes - ASAP	Yes -24 hrs	No	
OSHA Recordable	Yes - ASAP	Yes - 24 hrs	Yes -24 hrs	No	
Compensable	Yes - 8hrs	Yes - 24 hrs	No	No	
Minor w/First Aid	Yes - 24 hrs	No	No	No	
Company Vehicle/Property Damage					
Vehicle damage \$1,001 to \$5,000	Yes - ASAP	Yes - 8 hrs	No	No	
Vehicle damage >\$5,000	Yes - ASAP	Yes - ASAP	No	No	
MOC Property Damage - \$1,000 to \$4,999	Yes - 8 hrs	Yes - 24 hrs	No	No	
MOC, Property Damage - \$5,000 to \$250,000	Yes - ASAP	Yes - ASAP	No	No	
MOC Property Damage - >\$250,000	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
3rd Party Damage > \$100,000	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
Explosion/Fire		the second			
Company Controlled	Yes - 8 hrs	Yes - 24 hrs	No	No	
Local Resource Controlled	Yes - ASAP	Yes - 8 hrs	Yes - 8 hrs	No	
Uncontrolled by Local Resources	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
Spills/Releases			· · · · · · · · · · · · · · · · · · ·		
Any Spill/Release - Sensitive Area	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
Any Spill/Release - Local Media	Yes - ASAP	Yes - ASAP	Yes - 8 hrs	No	
Any Spill/Release - Regional/National Media	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
Any HC Spill > 500 bbls	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
Any HC Spill to Water > 50 bbls	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
Any HC Spill to Water < 50 bbls	Yes - ASAP	Yes - 8 hrs	No	No	
Hazardous Mat Spill/Rel>3 x Fed RQ	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
Hazardous Mat Spill/Rel<3 x Fed RQ	Yes - ASAP	Yes - ASAP	No	No	
Any Produced Fluid Spill > RQ	Yes - ASAP	Yes - ASAP	No	No	
Any Designated Env. Incident (DEI)	Yes - ASAP	Yes - ASAP	No	No	
Non-Reportable to any Agency	Yes - 12 hrs	No	No	No	
Evacuation, Well Control, Media Attention	& PSI				
Potentially Serious Incident	Yes - 8 hrs	Yes - 24 hrs	No	No	
Evacuation of Residences, Public Building or Blocked Public Road	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
Loss of Well Control	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	
Natural Disasters w/major emergency	Yes - ASAP	Yes - ASAP	· · · · · · · · · · · · · · · · · · ·	·····	
Significant Media Attention		Yes - ASAP	Yes - ASAP	Yes - ASAP	
	Yes - ASAP		Yes - ASAP	Yes - ASAP	
Terrorist Activities	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP	

LTA: Lost Time Accident; RQ: Reportable Quantity; PSI: Potentially Serious Incident

MOC CERT Team Leader: 1-713-629-7118 (Available 24 hours - ask for CERT Team Leader)

Note: CERT notifications to be made by SBU Manager or designee.