D1 . 1 . 1				-	State of N					Form C-101
District I 1625 N. French Di	r., Hobbs, NM	88240		Energy,	Minerals &	z Natu	ral Resources			May 27, 2004
District II 1301 W. Grand Ay	venue Artesia	NM 88210								
1301 W. Grand Avenue, Artesia, NM 88210Oil ConserDistrict III1000 Rio Brazos Rd., Aztec, NM 874101220 S						31	ubilit to approp	priate District Office		
District IV	. ,				1220 S. St					
1220 S. St. Franci					Santa Fe,					ENDED REPORT
APPLIC	CATION	FOR PE	ERMIT 1	<b>FO DRI</b>	LL, RE-E	NTE	R, DEEPEN,	PLUGBACI	K, OR ADI	D A ZONE
		' Opei	rator Name ar	nd Address					<sup>2</sup> OGRID Numbe	er –
Marathon Oi		1		-					014021 <sup>3</sup> API Number	
P.O. Box 34	87 rty Code	Hoy	iston,	<u> </u>	77253			30- DZ	5 - 37	1027
<b>63</b>		1			<sup>5</sup> Property Dayton H	, .			<sup>6</sup> We	ell No.
		<sup>9</sup> Proposed I			~	1		<sup>10</sup> Proposed Po		5
	Penros	se Skelly	Grayburg	<del>.</del>						
					<sup>7</sup> Surface	Locat	tion			
UL or lot no.	Section	Township	Range	Lot. Idr	n Feet from	the	North/South Line	Feet from the	East/West line	County
J	20	<u>21-S</u>	37-E		180	_	South	1500'	East	Lea
r	·	<sup>8</sup> Pı	oposed I	Bottom	Hole Locat	tion If	Different Fro	m Surface		
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from	the	North/South Line	Feet from the	East/West line	County
L	<u> </u>			L		7 11 7				
<sup>11</sup> Work Typ	e Code	12	Well Type Cod		dditional W	_				
Noix I jr			oil	ue	<sup>13</sup> Cable/	Rotary R	<sup>14</sup> Leas	e Type Code 🖌 🖊		evel Elevation
<sup>16</sup> Multi	ple	17	Proposed Dept				-		<b>3491 '</b> <sup>20</sup> Spud Date	
Depth to ground v	votor		4,500'		Gray		U	nknown	А	SAP
Depin to ground v		> 50'		Distance fr	om nearest fresh	water w	/ell I	Distance April fie ale	55 surface water	
Pit: Liner: Synt	thetic X 12	MIL mils th	nick Cla	y 🗖	Pit Volume _2	,000		1.1	14	
Closed-Lo	op System 🗌	]				Fresh W	1	Q		_ 1
[			21							Gas/Air
			ł	ropose	d Casing ar	T	ment Program			
Hole Si									07	
	ze		g Size	Casing	g weight/foot	<u> </u>	Setting Depth		t Es	stimated TOC
<u>11</u> "			g Size 25"	Casing	g weight/foot 24#	S		A. 150	t Es	surface
<u>11"</u> 7.875		8.6		Casing		S	<u> </u>	6,	t Es	
		8.6	25"	Casing	24#	s	400'	A. 150	t Es	surface
		8.6	25"	Casing	24#		400'	A. 150	t Es	surface
7.875		8.6 5.	5"		24#		400' 4,500'	67 07 150 27 07 51 71 820 171		surface
<b>7.875</b> 22 Describe the pr	roposed progr	8.6 5.	5"	o DEEPEN	24# 17		400' 4,500'	67 07 150 27 07 51 71 820 171		surface
7.875	roposed progr	8.6 5. am. If this a program, if a	525" 5" pplication is t any. Use addi	o DEEPEN tional sheet	24# 17 V or PLUG BAC s if necessary.	CK, give	<b>400 '</b> <b>4, 500 '</b> the data on the pres	67 07 150 27 07 51 71 820 171		surface
<ul> <li>7.875</li> <li><sup>22</sup> Describe the product of the blow of the b</li></ul>	roposed progr but prevention	8.6 5. am. If this a program, if a Sks. Class	5" 5" pplication is t iny. Use addi	o DEEPEN tional sheet	24# 17 Nor PLUG BAC s if necessary.	CK, give	400 ' 4, 500 ' the data on the pres	ent productive zone	t Es	surface surface w productive zone.
22 Describe the pr Describe the blowd Surface cas: Production of Tail- 270 sl	roposed progr pout prevention ing: 150 casing: L ks. class	8.6 5. 5. am. If this a program, if a Sks. Class ead-550 s H, 50/50	pplication is t my. Use addi ss C W/ 2 sks. clas	o DEEPEN tional sheet % CACL2, s H 35/( 2% gral.	24# 17 17 17 17 17 17 17 17 17 17	25# 025	400' 4,500' the data on the pres 14.8 ppg , 5% salt, .2!	ent productive zone	t Es	surface surface w productive zone.
22 Describe the pr Describe the blowd Surface cas: Production of Tail- 270 sl Mud program	roposed progr pout prevention ing: 150 casing: L ks. class : 0-400'f	8.6 5. 5. am. If this a program, if a Sks. Class ead-550 s H, 50/50 resh wate	5" 5" 5" pplication is t any. Use addi ss C W/ 2 sks. clas ) poz w/ ar, CIRC	• DEEPEN tional sheet % CACL2, s H 35/( 2% gel, pits or	24# 17 Vor PLUG BAC s if necessary. , yield 1.3 55 POZ w/ 6 5% salt, . reserve. w	25# ca	400' 4,500' the data on the pres 14.8 ppg , 5% salt, .2! ell., 1.35 yie	5# cell., yie	t Es	surface surface w productive zone.
22 Describe the pr Describe the blowd Surface cas: Production of Tail- 270 sl Mud program 400'-4,500'	toposed progr pout prevention ing: 150 casing: L ks. class : 0-400'f - Brine w	am. If this a program, if a sks. Clas ead-550 s H, 50/50 resh wate ater, 10r	pplication is t any. Use addi ss C W/ 2 sks. clas ) poz w/ ar, CIRC )	• DEEPEN tional sheet % CACL2, s H 35/( 2% gel, pits or c. Resen	24# 17 Vor PLUG BAC s if necessary. , yield 1.3 55 POZ w/ 6 5% salt, . reserve, v cves. Lime	25# cr isc 2:	400' 4,500' the data on the pres 14.8 ppg , 5% salt, .25 ell., 1.35 yie 8.	5# cell., yie	t Es	surface surface w productive zone.
22 Describe the pr Describe the blowd Surface cas: Production of Tail- 270 si Mud program 400'-4,500'- BOPE- 11",31	roposed progr put prevention ing: 150 casing: L ks. class : 0-400'f Brine w M, Dual r	8.6 5. 5. am. If this a program, if a Sks. Clas ead-550 s H, 50/50 resh wate ater, 10 rams, rota	pplication is t ny. Use addi ss C W/ 2 sks. clas poz w/ ar, CIRC p pg., cira	o DEEPEN tional sheet % CACL2, s H 35/0 2% gel, pits or c. Reser d,-insta	24# 17 I or PLUG BAC s if necessary. , yield 1.3 65 POZ w/ 66 5% salt, . reserve, v reserve, v rues, Lime alled and t	25# cr isc 2:	400' 4,500' the data on the pres 14.8 ppg , 5% salt, .2! ell., 1.35 yie	5# cell., yie	t Es	surface surface w productive zone.
22 Describe the pr Describe the blowd Surface cas: Production of Tail- 270 sl Mud program 400'-4,500'- BOPE- 11", 31 23 I hereby certify t	roposed progr put prevention ing: 150 casing: L ks. class : 0-400'f - Brine w M, Dual r that the inform	8.6 5. 5. am. If this a program, if a Sks. Class ead-550 s H, 50/50 resh wate ater, 10 rams, rota	pplication is t my. Use addi ss C W/ 2 sks. clas ) poz w/ ar, CIRC 1 pg., circ ating hear bove is true a	o DEEPEN tional sheet % CACL2, s H 35/0 2% gel, pits or c. Resen d, -insta	24# 17 17 17 17 17 17 17 17 17 17	25# cr isc 2:	400' 4,500' the data on the pres 14.8 ppg , 5% salt, .29 all., 1.35 yie 8. VISC 29, gel is to OCD rules	5# cell., yie	t Es	surface surface new productive zone. g.12.4
22 Describe the pr Describe the blow Surface cas: Production s Mud program 400'-4,500'- BOPE- 11", 31 23 I hereby certify t my knowledge and constructed accor	toposed progr put prevention ing: 150 casing: L ks. class : 0-400'f - Brine w M, Dual r that the inform belief. I furth ding to NMO	8.6 5. 5. am. If this a program, if a Sks. Class ead-550 s H, 50/50 resh wate ater, 10 rams, rota ater, 10 rams, rota	pplication is t my. Use addi ss C W/ 2 sks. clas ) poz w/ ar, CIRC 1 boye is true a at the drilling es[X] a g	o DEEPEN tional sheet % CACL2, s H 35/0 2% gel, pits or c. Resen d, -insta nd complete g pit will be	24# 17 17 17 17 17 17 17 17 17 17	25# cc PH9, `` ested	400' 4,500' the data on the pres 14.8 ppg , 5% salt, .2! ell., 1.35 yie 8. VISC 29, gel i to OCD rules OIL CO	5# cell., yie ald, wt. 14.2 f needed. 109 & 114	t Es	surface surface new productive zone. g.12.4
7.875 22 Describe the pr Describe the blowd Surface cas: Production of Tail- 270 si Mud program 400'-4,500'- BOPE- 11",31 23 I hereby certify to my knowledge and	toposed progr put prevention ing: 150 casing: L ks. class : 0-400'f - Brine w M, Dual r that the inform belief. I furth ding to NMO mative OCD	8.6 5. 5. am. If this a program, if a Sks. Class ead-550 s H, 50/50 resh wate ater, 10p ams, rota ater, 10p ams, rota ater certify the CD guidelin approved pl	pplication is t my. Use addi ss C W/ 2 sks. clas ) poz w/ ar, CIRC 1 boye is true a at the drilling es[X] a g	o DEEPEN tional sheet % CACL2, s H 35/0 2% gel, pits or c. Resen d, -insta nd complete g pit will be	24# 17 17 17 17 10 10 10 10 10 10 10 10 10 10	25# cc PH9, `` ested	400' 4,500' the data on the pres 14.8 ppg , 5% salt, .29 all., 1.35 yie 8. VISC 29, gel is to OCD rules	5# cell., yie ald, wt. 14.2 f needed. 109 & 114	t Es	surface surface new productive zone. g.12.4
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7.875 <sup>22</sup> Describe the pr Describe the blowd Surface cas: Production of Tail- 270 sl Mud program 400'-4,500'- BOPE- 11",31 <sup>23</sup> I hereby certify the my knowledge and constructed accord an (attached) alter Signature: Printed name: Mil Title: Adt	roposed progr put prevention ing: 150 casing: L ks. class : 0-400'f Brine w M, Dual r that the inform belief. I furth ding to NMO rnative OCD m?r ke Mick v. Sr. En	8.6 5. 5. 5. am. If this a program, if a Sks. Class ead-550 s H, 50/50 resh wate ater, 10 rams, rota ater, 10 rams, rota ater certify the OCD guidelin approved pl much	pplication is t iny. Use addi ss C W/ 2 sks. clas ) poz w/ ar, CIRC j bove is true a at the drilling es X a g an	o DEEPEN tional sheet % CACL2, s H 35/0 2% gel, pits or c. Resen d, -insta nd complete g pit will be	24# 17 17 17 17 10 10 10 10 10 10 10 10 10 10	K, give	400' 4,500' the data on the pres 14.8 ppg , 5% salt, .2! ell., 1.35 yie 8. VISC 29, gel i to OCD rules OIL CO	5# cell., yie ald, wt. 14.2 if needed. 109 & 114 DNSERVATIO	t Es	surface surface new productive zone. g.12.4
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Permit Expires 1 Year From Approval Date Unlass Onling Underway

DISTRICT I 1625 N. PRENCH DR.,	HOBBS, NM 88	Energy, Minerals and Natural Resources Department								
For DISTRICT II 1301 W. GRAND AVENUR, ARTESIA, NM 88210 1220 SOUTH ST. FRANCIS DR. State Lease								Form C-102 UNE 10, 2003 District Office e - 4 Copies e - 3 Copies		
DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT									ED REPORT	
30-025 Property (	Code	27	503	Pool Code 50350 Penerose Property Name			Pool Name SKe	SKelly (Grayburg) Well Number		
OO 6399DAYTON HARDYOGRID No.Operator Name14021MARATHON OIL COMPANY							5 Elevation 3491'			
		4		<u>_</u> _	Surface L	ocation		015	·	
UL or lot No.	Section	Townshi		Lot Idn	Feet from th	e North/South line	Feet from the	Bast/West line	County	
J	20	21-	-S 37-E		1800	SOUTH	1500	EAST	LEA	
( <sup></sup>		J		Hole Loc	cation If Di	fferent From Sur	face			
UL or lot No.	Section	Townshi	p Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/West line	County	
Dedicated Acres	s Joint o	r Infill	Consolidation	Code Or	der No.	• -	I	1	L	
40_						15L-515				
NO ALLO	WABLE W	VILL BE OR A	ASSIGNED	TO THIS NDARD UN	COMPLETION	UNTIL ALL INTE N APPROVED BY	RESTS HAVE BI THE DIVISION	EEN CONSOLID	ATED	
			GEODETIC	COOPDINAT				OR CERTIFICAT		
	1			27 NME	23			y certify the the in		
				699.0 N 441.2 E			contained herei	n is true and compl vledge and belief.		
					.,					
			$LAT = 32^{\circ}2$ LONG = 103	?7'43.11" "10'51.40"			mike	Mick		
<u></u>	' 		<u> </u>	+	· ' '		Signature MIK	E Mi	V II	
				ł			Printed Nam	· · ·		
				1			Title	eng.	lesh	
	ĺ				1		11-20-	04		
	1						Date			
				<u> </u> 				OR CERTIFICAT	TION	
	1			V #4	· · · · ·			y that the well locat as plotted from field		
			•	K	1		actual surveys	made by me or a that the same is	under my	
				Y				e best of my belie		
				1		1300		BER 12, 2004	+	
				/ 40 ////	AC. /		Date Surveye Signature &	Seal dt	JR	
							Professional	Surveyor		
	1				1800,		A A	So the		
				1	Ī		I san B	4 11 1336	17/04	
				1			Certificate N	o. GARY EIDSON	12641	
	l				I					
							and the second second second	1.000 ·		

## State of New Mexico

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SECTION 20, TOWNSHIP 21 SO	OUTH, RANGE 37 EAST, N.M.P.M., NEW MEXICO
	600'
	KOATH.
66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	HARDY #5 O 3490.7' 27'43.11" N 3°10'51.40" W
	500'
DIRECTIONS TO LOCATION	
FROM THE INTERSECTION OF ST. HWY. #8 AND CO. RD. #E33 (N. TURNER RD.) GO NORTH ON N. TURNER RD. FOR APPROX. 1.5 MILES TO A CALICHE ROAD ON THE LEFT. TURN LEFT (WEST)	100 0 100 200 Feet <b>БРРНН</b> Scale: 1"=100'
AND GO APPROX. 0.3 MILES. PROPOSED LOCATION IS APPROX. 300' SOUTH.	MARATHON OIL COMPANY
PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY	DAYTON HARDY #5 WELL LOCATED 1800 FEET FROM THE SOUTH LINE AND 1500 FEET FROM THE EAST LINE OF SECTION 20, TOWNSHIP 21 SOUTH, RANGE 37 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.
412 N. DAL PASO HOBES, N.M. 88240 (505) 383-3117	Survey Date:         10/12/04         Sheet         1         of         1         Sheets           W.O.         Number:         04.11.1336         Dr         By:         J.R.         Rev         1:N/A           Date:         11/16/04         Disk:         CD#10         04111336         Scale: 1"=100'

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VICINITY MAP



SEC. <u>20</u> TWP. <u>21-S</u> RGE. <u>37-E</u>

SURVEY N.M.P.M. COUNTY LEA DESCRIPTION 1800' FSL & 1500' FEL ELEVATION 3491' MARATHON OPERATOR OIL COMPANY LEASE DAYTON HARDY



# LOCATION VERIFICATION MAP



## DRILLING CONTROL





#### DRILLING CONTROL

### MATERIAL LIST - CONDITION II - B

Wellhead

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- 30000 W.P. drilling spool with a 2" minimum flanged outlat for kill line and 3" minimum flanged outlat for choke line.
- 30000 W.P. Dual ram type preventer, hydraulic operated with 1" steel, 30000 W.P. control lines (where sub-structure height is adequate, 2 30000 W.P. single ram type preventers may be utilized).
- Rotating Need with fill up outlet and extended Blogie
- 2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. 1,3,4,7,8,
  - 2" minimum 3000# W.P. back pressure valve.
- 3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. 5,6.9
- ]" minimum schedule 80, Grade "8", seamless line pipe. 12
- 2" minimum x 3" minimum 30008 W.P. flanged cross. 13
- 10.11
- 2" minimum 3000# W.P. adjustable choke bodies. 14
- Cameron Hud Gauge or equivalent ( location optional in 15
  - 2" minimum J000f W.P. flanged or threaded full opening steel gate velve, or Halliburton Lo Torc Plug velve.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Is pit or below-grade tan	ade Tank Registration or Closu k covered by a "general plan"? Yes N br below-grade tank Closure of a pit or below-gr	$\overline{\mathbf{X}}$
Operator:Marathon Oil CoTelephone:         Address:P.O. Box 3487       Houston, Tx. 77253         Facility or well name:Dayton Hardy #5API #:       30.025.37         County:LEA       Latitude	0 <b>2 7</b> U/L or Qtr/Qtr_NWSE_Sec_20_T_21S_R_37E	 
Pit         Type:       Drilling ⊠ Production □ Disposal □         Workover □ Emergency □         Lined ⊠ Unlined □         Liner type:       Synthetic ⊠ Thickness 12_ mil       Clay □ Volume _2000_bbl	Below-grade tank         Volume:      bbl       Type of fluid:          Construction material:           Double-walled, with leak detection?       Yes       If n	_
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more X	(20 points) (10 points) ( 0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No X	(20 points) ( 0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more X	<ul><li>(20 points)</li><li>(10 points)</li><li>( 0 points)</li></ul>
If this is a pit closure: (1) attach a diagram of the facility showing the pit's onsite ⊠ offsite □ If offsite, name of facility		tion taken including remediation start date and end ole results. (5) Attach soil sample results and a
Date: 11-20-04	Signature <u>MPM</u> is should the contents of	CD-approved plan [].
Approval: DEC 3 0 2004 Date: Printed Name/Title PETROLEUM ENGINEER	_Signature	

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