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g Array/NGT	, 3 Detec		• -					27. WAS	NO		
		COT LI	thodensit	ty CN/1	NGI, N						
	CASI DEPTH SET		ORD (Report HOLE	E SIZE		TOP OF CEN	IENT, CEMENTING RE	CORD	AMOUNT PULLEI)	
WEIGHT, LB./FT.	1804'		17.5"			1150 sx,	circ. 60 sx				
0/43.5	8870'		12.25"			2310 sx,	<u>circ. 905 sx</u>				
// 1010								. <u> </u>			
						30.	TUBING	FCORD			
	ER RECORD	SACKS	CEMENT*	SCREE	EN (MD)	SIZE	DEPTH SET		PACKER SET (MD)	
P (MD) BC	TTOM (MD)	JACKS	CEIVILLA			3-1/2	853	3'	RBP-8678'		
					.,q						
erval, size and num	ber ACCE	PTED	FUR HE	32			ACTURE, CEMEN	T SOUEEZ	E, ETC.		
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Y GOURLE	1 Alere	-		44						·	
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					type of pu	(mp)	ľ	chut_in)			
and the second sec						GAS - MCF	, WATER -		GAS - OIL RATIO		
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THE REFERENCE		OIL -	- BBL	1	AS - MCF		WATER - BBL.	OILG	RAVITY - API (CORR.)		
								42.	8		
	d, etc.)						TEST WIT	NESSED BY			
v. logs		<u> </u>		anailable -	corde						
	is complete and	correct as det						-	105 (01		
and attached information		/	TITLE Eng	gineer	Tech	nician		date <u>3</u>	/26/01		
	erval, size and num. 2'-8050', 8 30 total sho Y GOURLE PRODUCTIO 3-K62 S ING PRESSURE 5 used for fuel, vente	PRODUCTION METHOD (Fla 3-K62 Sub pumps RS TESTED CHOKE SIZE Used for fuel, vented, etc.) CALCULATED 24-HOUR RAT CALCULATED 24-HOUR RAT CALCULATED 24-HOUR RAT	PRODUCTION METHOD (Flowing, gas 3-K62 Sub pumps w/2-21 ING PRESSURE CALCULATED 24-HOUR RATE CALCULATED 24-HOUR RATE CALCULATED 24-HOUR RATE CALCULATED 24-HOUR RATE CALCULATED 24-HOUR RATE CALCULATED 24-HOUR RATE CALCULATED CALCULA	PRODUCTION METHOD (Flowing, gas lift, pumping 3-K62 Sub pumps w/2-280 HP mov RS TESTED CHOKE SIZE PRODN. FOR TEST PERIOD ING PRESSURE CALCULATED 24-HOUR RATE 5 Used for fuel, vented, etc.)	PRODUCTION METHOD (Flowing, gas lift, pumping - size and number) PRODUCTION METHOD (Flowing, gas lift, pumping - size and number) PRODUCTION METHOD (Flowing, gas lift, pumping - size and number) 3-K62 Sub pumps w/2-280 HP motors RS TESTED CHOKE SIZE PROD'N. FOR OIL - BE CHOKE SIZE PROD'N. FOR OIL - BE Sub pumps difference of the size	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pu 3-K62 Sub pumps w/2-280 HP motors RS TESTED CHOKE SIZE PRODN. FOR 1 CALCULATED OIL - BBL. 1 GAS - MCF 1 GAS - MCF 1 COS 1 C	ACCEPTED FOR NET 2 ACID. SHOT. FR 2'-8050', 8053'-874', 0 total shots Y GOURLEY PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 3-K62 Sub pumps w/2-280 HP motors RS TESTED CHOKE SIZE PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 3-K62 Sub pumps w/2-280 HP motors RS TESTED CHOKE SIZE CALCULATED 24HOUR RATE 5 USE OF fuel, vented, etc.) Y LOCIS and attached information is complete and correct as determined from all available records	and number 3-1/2" 8538 and number ACCEPTED FOR HELL ACID. SHOT. FRACTURE. CEMENT 2'-8050', 8058'-8,74', DEPTH INTERVAL (MD) AMOUNT AND 30 total shots APR 1 2001 B016 -8346' 22167 cals Y GOURLEY APR 1 2001 B016 -8346' 22167 cals PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) w 3-K62 Sub pumps w/2-280 HP motors GAS - MCF WATER- TEST PERIOD 382 1977 5270 ING PRESSURE CALCULATED 24-HOUR RATE OIL - BBL GAS - MCF. WATER - BBL. sused for fuel, vented, etc.) TEST WIT TEST WIT	3-1/2" 8538' ACCEPTED FORTHER 32 ACID. SHOT. FRACTURE. CEMENT SOUEEZ 2'-8050', 8058'-8,74', DEPTH INTERVAL (MD) AMOUNT AND KIND OF MA 30 total shots Y GOURLEY PRODUCTION METHOD (Flowing, gas lift, pumping - site and type of pump) WELL STATUS SCONDUCTION 3-K62 Sub pumps w/2-280 HP motors OIL - BBL. GAS - MCF WATER - BBL. TEST PERIOD 382 1977 S270 ING PRESSURE CALCULATED 24-HUIR RATE OIL - BBL. GAS - MCF. WATER - BBL. 5270 TEST WITNESSED BY JUS First witnessed by JUS First witnessed by STOT ST TEST WITNESSED BY STOT ST <td colsp<="" td=""><td>3-1/2" 8538' RBP-8678' ACCLEPTED FOR HE 32 ACID. SHOT. FRACTURE. CEMENT SOUEEZE, ETC. 2'-8050', 8058'-874', DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 2'-8050', 8058'-874', DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 2001 ACID. SHOT. FRACTURE. CEMENT SOUEEZE, ETC. AMOUNT AND KIND OF MATERIAL USED OEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED OEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED Y GOURLEY PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 3-K62 Sub pumps w/2-280 HP motors TEST PERIOD 382 1977 5270 SITS TESTED CHOKE SIZE PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) SITS TESTED CHOKE SIZE RENDIN FOR <</td></td>	<td>3-1/2" 8538' RBP-8678' ACCLEPTED FOR HE 32 ACID. SHOT. FRACTURE. CEMENT SOUEEZE, ETC. 2'-8050', 8058'-874', DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 2'-8050', 8058'-874', DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 2001 ACID. SHOT. FRACTURE. CEMENT SOUEEZE, ETC. AMOUNT AND KIND OF MATERIAL USED OEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED OEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED Y GOURLEY PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 3-K62 Sub pumps w/2-280 HP motors TEST PERIOD 382 1977 5270 SITS TESTED CHOKE SIZE PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) SITS TESTED CHOKE SIZE RENDIN FOR <</td>	3-1/2" 8538' RBP-8678' ACCLEPTED FOR HE 32 ACID. SHOT. FRACTURE. CEMENT SOUEEZE, ETC. 2'-8050', 8058'-874', DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 2'-8050', 8058'-874', DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 2001 ACID. SHOT. FRACTURE. CEMENT SOUEEZE, ETC. AMOUNT AND KIND OF MATERIAL USED OEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED OEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED Y GOURLEY PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 3-K62 Sub pumps w/2-280 HP motors TEST PERIOD 382 1977 5270 SITS TESTED CHOKE SIZE PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) SITS TESTED CHOKE SIZE RENDIN FOR <

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdicton.

37. SUMMARY OF P drill-stem, tests, in recoveries):	OROUS ZONES: Icluding depth inte	(Show all importan rval tested, cushion	SUMMARY OF PORUUS ZONES: (Show all important zones of porosity and contents inferori, cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	GEOI	GEOLOGIC MARKERS	S
EABM A TION	TOP	MOTTOA	DESCRIPTION CONTENTS ETC		Ē	TOP
	5	WOTTOO		NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Upper Penn	.0108	8556 '	Dolomite, shale, limestone; Oil, gas & water	Queen	437	437
				San Andres	1128	1128
				Glorietta	2830	2830
				Yeso	2998	2998
				Bone Spring	5511	5430
				Bone Spring Sand	9669	6823
				Wolfcamp	7245	7056
				Upper Penn	8010	9777
				Strawn	8671	8362
		n an			Received and Received	<u>E</u>

U.S. GOVERNMENT PRINTING OFFICE: 1992-774-672

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U	N.) STATES	N.M. Oil	s. Division	AB NO. 1004-0135
Form 3160-5	ENT OF THE INTERIOR	4	L CTYOOT Evnire	s November 30, 2000
BUREAU O	F LAND MANAGEMENT	0110	NA 88210-283	No.
OUNDRY NOT	ES AND REPORTS O	811 S. 15 N WELLS Artesia, to re-enter and	NM 07260	
SUNDRY NOTIC	For proposals to drill or Form 3160-3 (APD) for	to re-enter and	6. If Indian,	Allottee or Tribe Name
Do not use this form abandoned well Use	Form 3160-3 (APD) for	such proposals.		
		{m	The second secon	CA/Agreement, Name and/or N
SUBMIT IN TRIPLICA	TE - Other instructions	on reverse side RECE	VED todian H	ills Unit
	·····	\\UUU•A 1	TESIA IN 70964	
1. Type of Well		15	8. Well Nar	ne and No.
Oil Well X Gas Well Other				ills Unit #28
2. Name of Operator		2225	297 VILLE 9. API Wel	1 No.
Marathon Oil Company		3b. Phone No. (include area	code) 30-015-3	1267
3a. Address	2	800-351-1417		nd Pool, or Exploratory Area
P.O. Box 552 Midland, TX 7970 4. Location of Well (Footage, Sec., T., R., M., or S	urvey Description)			asin Upper Penn ed Gas Pool
	0 FEL, Section 16			or Parish, State
Bottom Hole: UL "B", 946' FNL	& 1975' FEL, Sectio	m 21	Eddy	NM
				OTHER DATA
12. CHECK APPROPE	LATE BOX(ES) TO IN	DICATE NATURE OF NO		
TYPE OF SUBMISSION		TYPE	OF ACTION	
	Acidize	Deepen	Production (Start/Resume	e) Water Shut-Off
Notice of Intent		Fracture Treat	Reclamation	Well Integrity
	Alter Casing		Recomplete	X Other Off-lease
Subsequent Report	Casing Repair	New Construction		
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Abandon	storage & sales, &
	Convert to Injec	tion Plug Back	Water Disposal	msmt, & Commingle
13. Describe Proposed or Completed Operation If the proposal is to deepen directionally on Attach the Bond under which the work wi following completion of the involved oper testing has been completed. Final Aband determined that the final site is ready for fit Marathon Oil Company, in accur requesting approval of off production from this well. we are requesting off-lease commingling of liquid hydroo The production from this we facility in UL "N", Section from this well at this time East Indian Basin Central F Indian Basin Gas Plant for be measured through this se approvals, then transported separated, sent to the liqu loading rack.	Il be performed or provide the ations. If the operation results omment Notices shall be filed nal inspection.) cordance with 43 CFF lease measurement, storage measurement, storage carbon production for 11 is sent from the 17, T-21-S, R-24-E 2. After being meass facility, Section 19 processing and sale sparator, using turb 1 via pipeline to the rid hydrocarbon stor	Bond No. on file with BLMF in a multiple completion or re- only after all requirements, inc a 3162.7-3 and Onshor storage and sales, ar e with 43 CFR 3162.7- ge and sales, alterna- rom this well. wellhead to a 3 phase to this separator is ured, the gas produce to T-21-S, R-24-E, fo bine meters as the al- me East Indian Basin rage tanks, and then	The Required subsequences completion in a new interval luding reclamation, have been re Oil and Gas Orde and surface commingle 2 and Onshore Oil ate measurement met se separator locate used to measure of tion is transported r compression, and carbon production ternate measuremen Central Facility w	, a Form 3160-4 shall be filed once en completed, and the operator has ing of gas and Gas Order No. 4, thod, and surface ed at the satellite aly the production d via pipeline to the then on to the from this well will t method per prior here it will again be
14. I hereby certify that the foregoing is true at Name (Printed/Typed)	id correct	Title		
Name (Printed/Typed) Ginny Larke	my Ann	Engin	eer Technician	
	\mathcal{O} .	Date 3/26/03		
	THIS SPACE FOR	FEDERAL OR STATE O	FICE USE	

THIS SPACE FOR FEDERAL	OR STATE OFFICE	JSE
	Title	Date
Approved by		
Conditions of approval, if any, are attached. Approval of this notice does not warrant or Conditions of approval, if any, are attached. Approval of this notice does not warrant or	Office	
which would entitle the applicant to conduct of	person knowingly and wil	Ifully to make to any department or agency of the United
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a clinic to any States any false, fictitious or fraudulent statements or representations as to any matter with	nn its juristiction.	

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APPLICATION FOR SURFACE COMMINGLING OFF-LEASE MEASUREMENT, STORAGE AND ALTERNATE MEASUREMENT APPROVAL

To: Bureau of Land Management P.O. Box 1778 Carlsbad, New Mexico 88220-1778

<u>Marathon Oil Company</u> is requesting approval for Surface Commingling, Off-Lease Storage, Measurement and Sales, and Alternate Measurement of hydrocarbon production from the following formation(s) and well(s) on:

Lease Name: Indian Hills Unit

Well No.	UL	Sec	<u>TWP</u>	<u>RNG</u>	<u>Formation</u>	Lease #
28-Surface	P	10			Upper Penn	State Lease
28-Bottom Hole	В	21	21-S	24-E	Upper Penn	NM-07260

Marathon would like to commingle the production from this well with the production of the following wells, which is commingled at the East Indian Basin Central Facility, (Order R-11186)

	BOPD	<u>API ^O</u>	<u>MCFD</u>
WELL NO.	$\frac{2}{29}$	48.2	6227
1	51	35.7	862
8	161	40.7	2075
9	335	46.3	5676
10	122	42.2	2303
11	118	40.6	1903
12	395	41.3	4419
17	264	44.7	3628
18	145	46.3	5763
19	184	46.1	2707
20	364	41.5	7499
21	685	46.0	10868
22	53	48.0	4220
24	46	42.6	14528
Gas Com 27	9	41.2	7244
Gas Com 14	10	44.8	6821
Gas Com 13	4	61.6	3014
Gas Com 3	2	41.2	5732
IB "32" State 1-Y	3	56.0	10616
IB "32" State #2	93	38.6	301
IB "32" State #3	93	50.0 N/A	2855
IB "32" State #4	U	11/11	

Liquid hydrocarbon production is measured using turbine meters, per prior approval. These meters are proved on a regular schedule. A map is enclosed showing the lease numbers and location of all leases and wells that will contribute production to the commingled/common storage facility. A schematic diagram of the satellite facility is attached and clearly identifies all equipment that will be utilized.



The Storage and Measurement facility is located at <u>UL "P"</u>, <u>Sec. 19, T-21-S, R-24-E, Eddy County, New</u> <u>Mexico.</u> The satellite facility is located in UL "N", Section 17, T-21-S, R-24-E, Eddy County, NM. The BLM was notified of this satellite facility in a prior application.

The gas, liquid hydrocarbons and water from this well will be sent from the wellhead to the satellite facility where a 3-phase separator will separate the production. After separation, the gas is metered at the satellite facility before being delivered to the compressors at the Storage and Measurement facility in Section 19. After compression, the gas is processed through a dehydrator, metered and delivered to the Indian Basin Gas Plant for further processing. After processing, the gas and NGLs will be metered and sold at the tailgate of the plant.

The liquid hydrocarbons and water, after being metered through the separator at the satellite facility, will be recombined and then flow to a 3-phase separator at the Storage and Measurement facility in Section 19, via liquid pipeline. After separation, the liquid hydrocarbon production will be processed and stored in tanks at the Storage and Measurement facility. Processing may include the use of heat treating or other liquid hydrocarbon processing equipment. The liquid hydrocarbons will then be metered through a LACT unit, per prior approval, and sold at the truck loading rack.

The water production, after being processed through the 3-phase separator at the Storage and Measurement facility, will be sent to the gun barrel tank for further separation. It will then be sent to the water storage tanks prior to being metered and pumped to various wells in the produced water disposal system.

The working interest owners were notified of the original commingling proposal. The proposed commingling of production is in the interest of conservation and will not result in reduced royalty or improper measurement of production. The proposed commingling is necessary for the continued operation of the above referenced Federal Leases.

We understand that the requested approval will not constitute the granting of any right-of-way or construction rights not granted by lease instrument and we will submit, within 30 days, an application for right-of-way to the BLM's Realty Section in your office, if we have not already done so. Additional wells will require additional commingling approvals.

Signature:

Ginny Larke

Name: Ginny Larke Title: Engineer Technician March 26, 2001

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Attachments



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MARATHON OIL COMPANY CONSOLIDATED FACILIT COMMINGLE PERMIT NO. PLC-140 GATHERING SYSTEMS

R-24-E











