

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

OMB NO. 1004-0137

EFFECTIVE DATE 12/28/1995

N.M.O. Jones Division
(See the instructions on reverse side)

811 S. 1st Street

Artesia, NM 88210-2834

4512

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

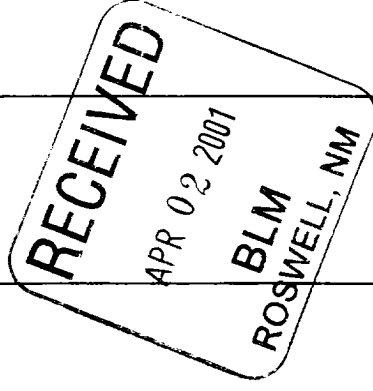
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____				7. UNIT AGREEMENT NAME NM 70964X	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR <input type="checkbox"/> Other _____				8. FARM OR LEASE NAME, WELL NO. INDIAN HILLS UNIT #28	
2. NAME OF OPERATOR Marathon Oil Company				9. API WELL NO. 30-015-31267	
3. ADDRESS AND TELEPHONE NO. P.O. Box 552 Midland, TX 79702				10. FIELD AND POOL, OR WILDCAT INDIAN BASIN UPPER PENN ASSOCIATED GAS POOL	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface UL "P", 218' FSL & 660' FEL, SECTION 16 At top prod. interval reported below				11. SEC., T., R., M., OR BLK. AND SURVEY OF AREA SECTION 16, T-21-S, R-24-E	
At total depth UL "B" 687' FNL & 1681' FEL, SEC. 21				12. COUNTY OR PARISH EDDY COUNTY	
14. PERMIT NO.				13. STATE NM	
15. DATE SPUDDED 10/10/00		16. DATE T.D. REACHED 10/30/00		17. DATE COMPL. (Ready to prod.) 2/18/01	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB-4042'; GL-4014'		19. ELEV. CASINGHEAD			
20. TOTAL DEPTH, MD & TVD 8870' MD/8575' TVD		21. PLUG, BACK T.D., MD & TVD 8820' MD/8531' TVD		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY all		24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* Upper Penn, 8010' MD, 7779' TVD = Top, 8556' MD, 8289' TVD = Bottom		25. WAS DIRECTIONAL SURVEY MADE YES	
26. TYPE ELECTRIC AND OTHER LOGS RUN High Res. Laterolog Array/NGT, 3 Detector Lithodensity CN/NGT, NGR				27. WAS WELL CORED NO	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE		WEIGHT, LB./FT.		DEPTH SET (MD)	
13-3/8", J-55		54		1804'	
9-5/8", K-55/L-80		40/43.5		8870'	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
30. TUBING RECORD					
SIZE		DEPTH SET (MD)		PACKER SET (MD)	
3-1/2"		8538'		RBP-8678'	
31. PERFORATION RECORD (Interval, size and number)					
8016'-8028', 8042'-8050', 8058'-8174',		ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
8266'-8346', 1080 total shots		DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
		8016'-8346'		22167 gals 15% HCl acid	
(ORIG. SGD.) GARY GOURLEY					
32. ACCEPTED FOR RECORD APR 11 2001					
33.*					
DATE FIRST PRODUCTION 2/18/01		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 3-K62 Sub pumps w/2-280 HP motors			WELL STATUS (Producing or shut-in) Producing
DATE OF TEST 2/26/01		HOURS TESTED 24		CHOKE SIZE 382	
FLOW. TUBING PRESS. 450		CASING PRESSURE 205		CALCULATED 24-HOUR RATE 42.8	
OIL - BBL. 382		GAS - MCF. 1977		WATER - BBL. 5270	
OIL GRAVITY - API (CORR.) 42.8		GAS - OIL RATIO 5175		TEST WITNESSED BY	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) sold					
35. LIST OF ATTACHMENTS directional survey, logs					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED Garry Gourley		TITLE Engineer Technician		DATE 3/26/01	

*(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 jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Upper Penn	8010'	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	6996	6823
				Wolfcamp	7245	7056
				Upper Penn	8010	7779
				Strawn	8671	8362



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil & Gas Division
811 S. 1st Street
Artesia, NM 88210-2834

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

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1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Marathon Oil Company

3a. Address
P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)
800-351-1417

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface: UL "P", 218' FSL & 660' FEL, Section 16
Bottom Hole: UL "B", 946' FNL & 1975' FEL, Section 21
T-21-S, R-24-E

5. Well No.
NM 07260
6. If Indian, Allottee or Tribe Name
Indian Hills Unit
7. Well Name and No.
Indian Hills Unit #28
8. Well Name and No.
Indian Hills Unit #28
9. API Well No.
30-015-31267
10. Field and Pool, or Exploratory Area
Indian Basin Upper Perm
Associated Gas Pool
11. County or Parish, State
Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other <u>Off-lease</u>
	<input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon <u>storage & sales, &</u>
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal <u>msmt, & Commingling</u>

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Marathon Oil Company, in accordance with 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 5, is requesting approval of off-lease measurement, storage and sales, and surface commingling of gas production from this well. Also, in accordance with 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4, we are requesting off-lease measurement, storage and sales, alternate measurement method, and surface commingling of liquid hydrocarbon production from this well.

The production from this well is sent from the wellhead to a 3 phase separator located at the satellite facility in UL "N", Section 17, T-21-S, R-24-E. This separator is used to measure only the production from this well at this time. After being measured, the gas production is transported via pipeline to the East Indian Basin Central Facility, Section 19, T-21-S, R-24-E, for compression, and then on to the Indian Basin Gas Plant for processing and sales. The liquid hydrocarbon production from this well will be measured through this separator, using turbine meters as the alternate measurement method per prior approvals, then transported via pipeline to the East Indian Basin Central Facility where it will again be separated, sent to the liquid hydrocarbon storage tanks, and then be metered and sold at the truck loading rack.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)
Ginny Larke

Title
Engineer Technician

Date 3/26/01

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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 jurisdiction.

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BLM

POSWELL, NM

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

Marathon Oil Company 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**

<u>Well No.</u>	<u>UL</u>	<u>Sec</u>	<u>TWP</u>	<u>RNG</u>	<u>Formation</u>	<u>Lease #</u>
28-Surface	P	16	21-S	24-E	Upper Penn	State Lease
28-Bottom Hole	B	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)

<u>WELL NO.</u>	<u>BOPD</u>	<u>API °</u>	<u>MCFD</u>
1	29	48.2	6227
8	51	35.7	862
9	161	40.7	2075
10	335	46.3	5676
11	122	42.2	2303
12	118	40.6	1903
17	395	41.3	4419
18	264	44.7	3628
19	145	46.3	5763
20	184	46.1	2707
21	364	41.5	7499
22	685	46.0	10868
24	53	48.0	4220
Gas Com 27	46	42.6	14528
Gas Com 14	9	41.2	7244
Gas Com 13	10	44.8	6821
Gas Com 3	4	61.6	3014
IB "32" State 1-Y	2	41.2	5732
IB "32" State #2	3	56.0	10616
IB "32" State #3	93	38.6	301
IB "32" State #4	0	N/A	2855

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.

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BLM
ROSWELL, NM

The Storage and Measurement facility is located at UL "P", Sec. 19, T-21-S, R-24-E, Eddy County, New Mexico. 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:



Name: Ginny Larke

Title: Engineer Technician

March 26, 2001

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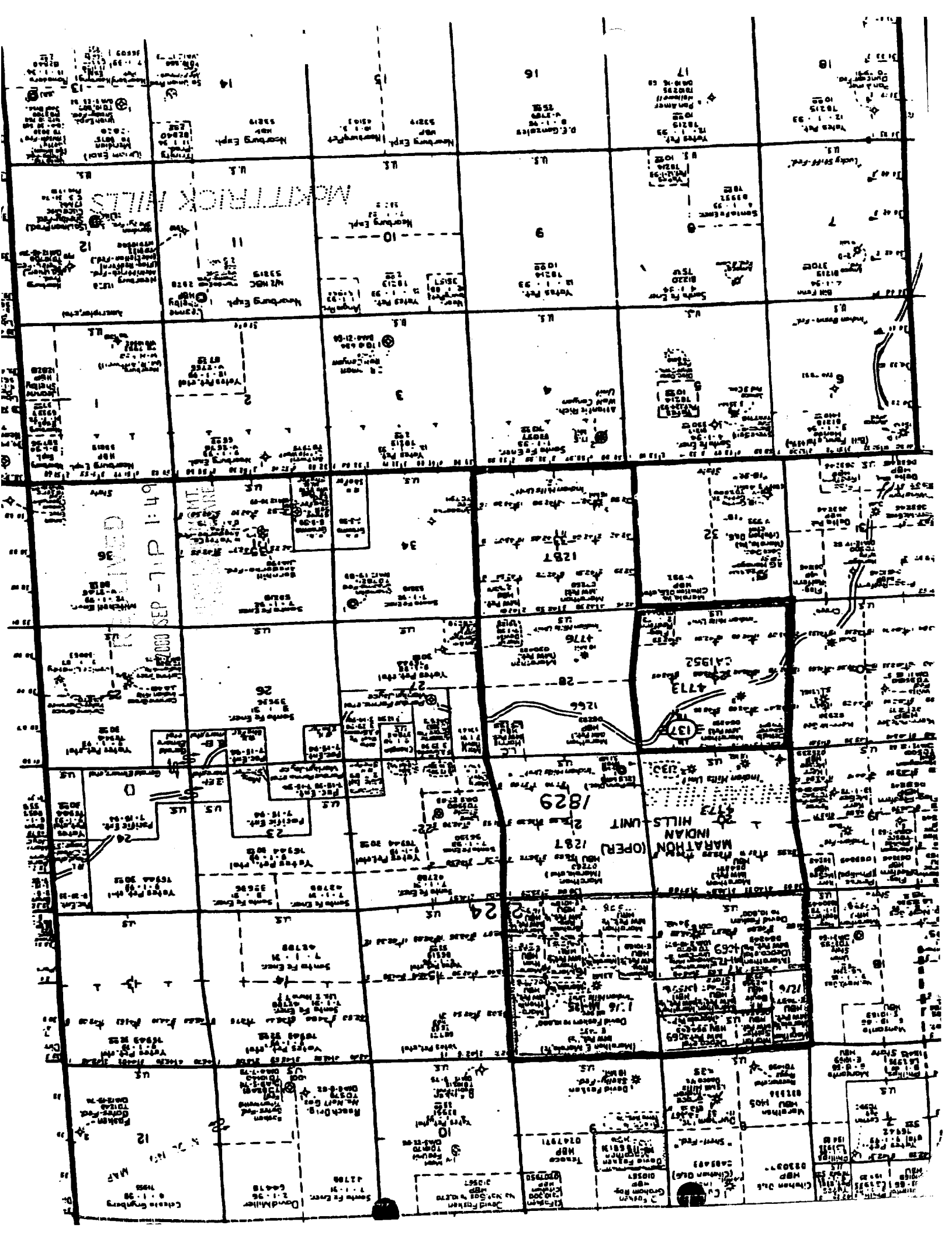
Attachments

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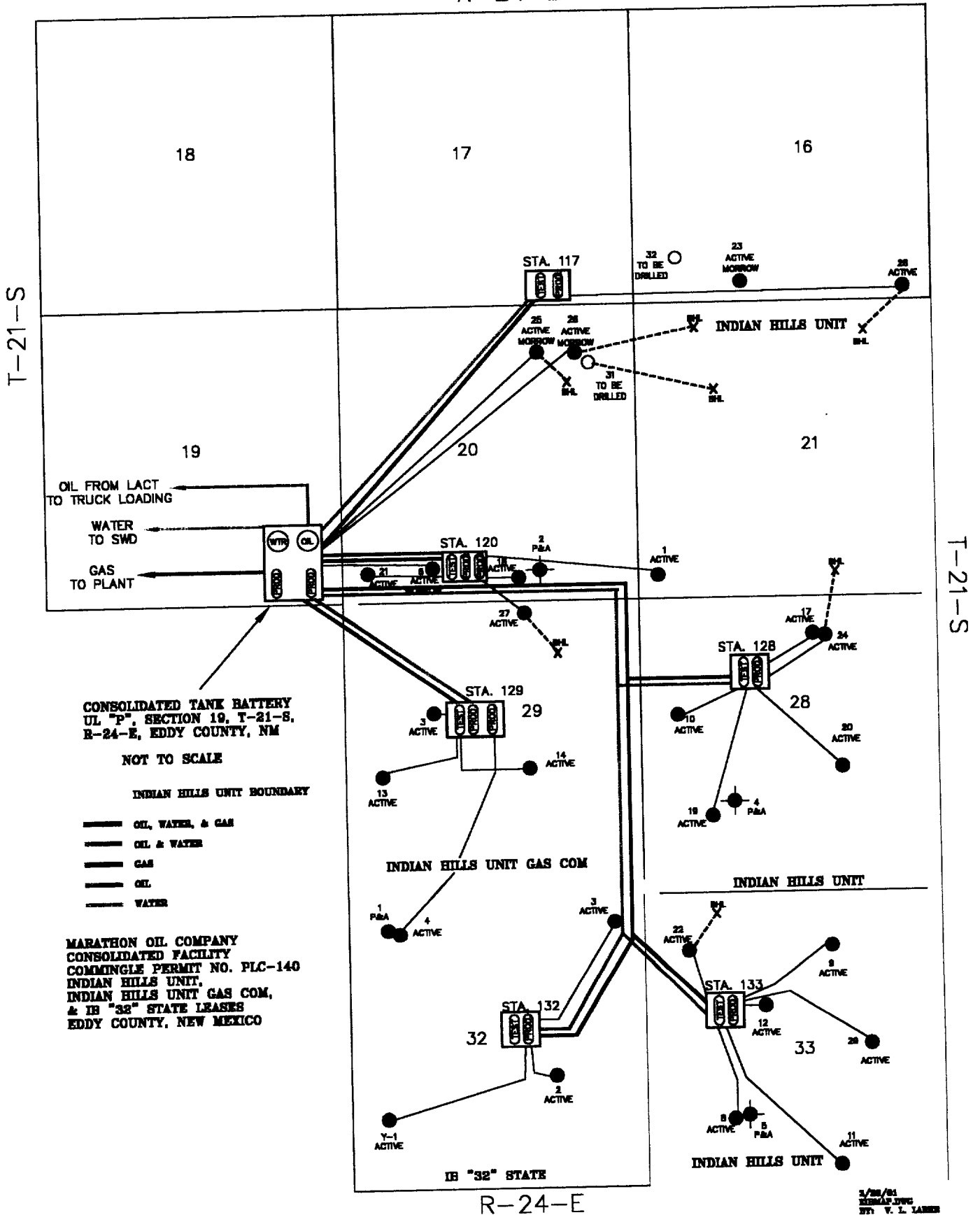
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ROSWELL, NM

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

R-24-E



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BLM

POWER



**Marathon
Oil Company**

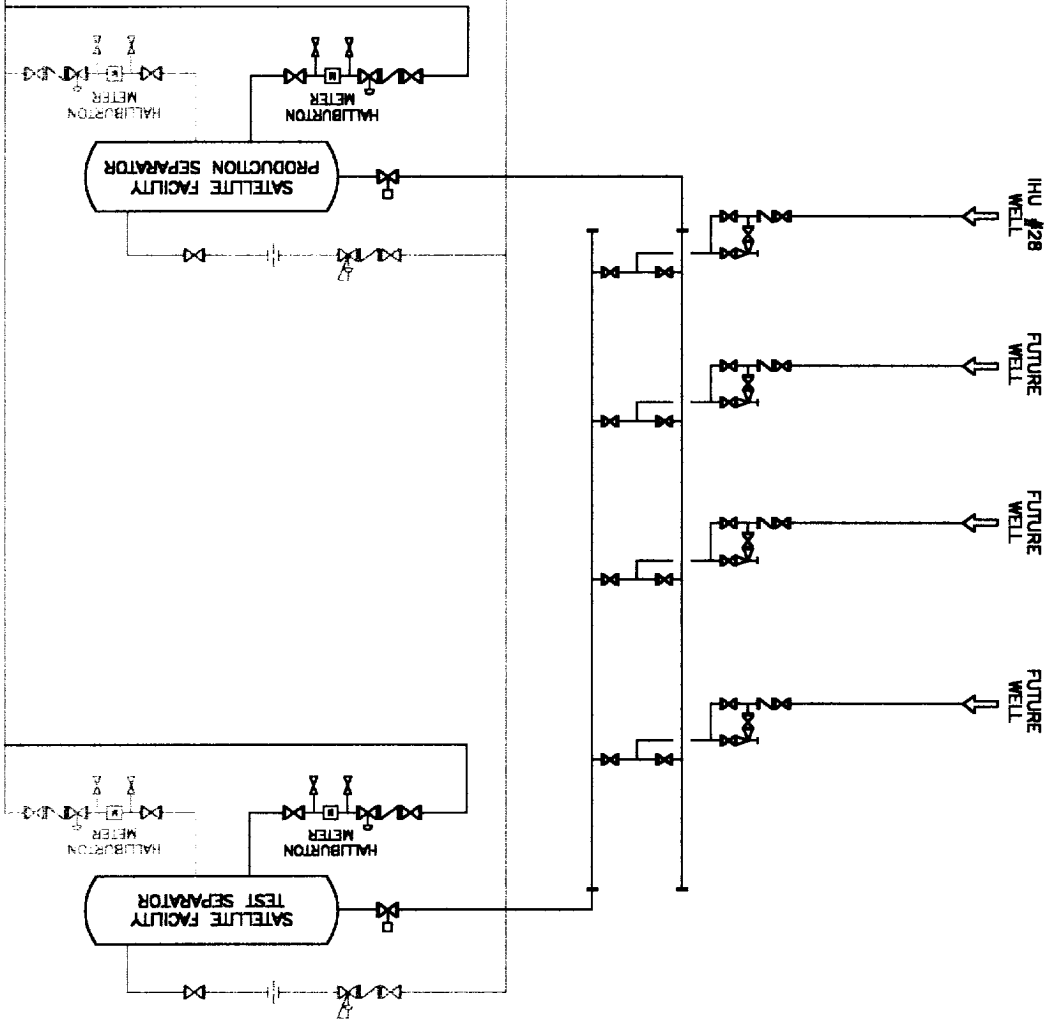
**SECTION 17 SATELLITE
SEPARATION FACILITY
STATION 117**

LEGEND

- LHC-GAS-WATER PIPING
- GAS PIPING
- LHC PIPING
- WATER PIPING
- LHC-WATER PIPING

TO LEASE PRODUCTION
SEPARATOR AT
INDIAN HILLS PRODUCTION
FACILITY

TO INDIAN HILLS PRODUCTION
FACILITY COMPRESSOR
SUCTION HEADER



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ROSWELL, NM



SEC. 28, 29, 32
3-PHASE
PRODUCTION SEPARATOR

SEC. 20, 21, 32, 33
3-PHASE PRODUCTION
SEPARATOR

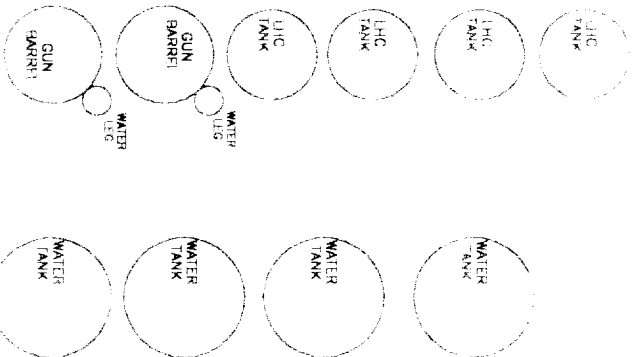


FILTER SEPARATOR

GYCOL REC'DN. SKID

VAUGHN
RECOVERY
UNIT

AC
IN



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TANK

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