

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
May 27, 2004

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Marathon Oil Company P.O. Box 3487 Houston, TX 77253-3487		² OGRID Number 14021
⁴ Property Code 006411		⁵ Property Name North Indian Basin Unit
⁹ Proposed Pool 1 Indian Basin Morrow		⁶ Well No. 20
¹⁰ Proposed Pool 2		

Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
K	2	21-S	23-E		1650	South	2310	West	Eddy

Proposed 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
N	2	21-S	23-E		1200	South	1810	West	Eddy

Additional Well Location

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation GL 3736'
¹⁶ Multiple N	¹⁷ Proposed Depth 9579 MD 9400 TVD	¹⁸ Formation Morrow	¹⁹ Contractor	²⁰ Spud Date ASAP
Depth to ground water		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume _____ bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
20"	16"	Conductor	60'	REDI MIX	Surf
14 3/4"	9 5/8"	36#	1250'	1400	Surf
8 3/4"	7"	23 & 26#	8042'	1100	Surf
6 1/8"	4 1/2"	10.5#	9400'	150 sks	7700'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

The Upper Penn formation has been cement squeezed on the North Indian Basin Unit No. 20 well, and a lateral drilled to approximately 8850'. Marathon intends to squeeze back this lateral and redrill to a different bottom hole location. Please see the attachments for proposed new directional locations and work procedure to isolate the existing lateral. A new C-102 is included w/ this filing detailing the location of the BHL on the existing hole and the planned BHL for the proposed new directional hole.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature: *Charles E. Kendrix*
Printed name: Charles E. Kendrix

Title: Reg Compliance Rep II

E-mail Address: cekendrix@marathonoil.com

Date: 01/19/2007

Phone: 713-296-2096

OIL CONSERVATION DIVISION

Approved by:

BRYAN G. ARRANT

Title:

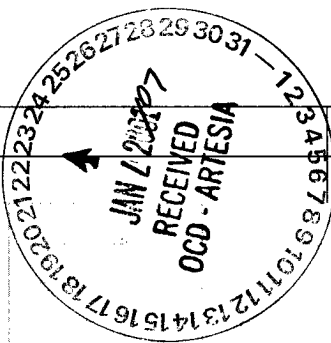
DISTRICT II GEOLOGIST

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐



Subject	Page No.	Of
File	By	Date

Mike,

This well (North Indian Basin unit #2a) is one that I had discussed with you back in November or December of last year. It was left with an open hole section that Marathon intends to plug by filling in two stages. The First stage we will bring cement to approximately 8500' and the second stage will be a cap that extends into the existing 7" casing approximately 100'.

The procedures as we have them written up call for us to tag up to check cement after the second stage. If you would like a test at that point Marathon would be willing to pressure test. We will be drilling out through this cement to complete the 2nd lateral. It might be better to pressure test after drill-out.

Marathon also would like to know if we need to notify the NMOC D before this squeeze job, so that you can have a chance to witness.

I will give you a call about these concerns on Tuesday Jan 23rd.

Thank you,
Charles Kandrak
MOC