

Submit To Appropriate District Office Two Copies 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		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505		Form C-105 July 17, 2008																					
		1. WELL API NO. 30-025-33607		2. Type of Lease <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN																					
		3. State Oil & Gas Lease No B 3654		5. Lease Name or Unit Agreement Name McGrail State																					
		6. Well Number #9		7. Type of Completion <input type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input checked="" type="checkbox"/> OTHER: YESO-RECOMPLETION																					
4. Reason for filing <input checked="" type="checkbox"/> COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) <input type="checkbox"/> C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19 15 17 13 K NMAC)																									
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																									
8. Name of Operator Marathon Oil Company		9. OGRID 14021		10. Address of Operator P.O. Box 3487....Houston, TX 77253-3487.....Mail Stop #3308																					
11. Pool name or Wildcat Monument-Yeso-Northwest		12. Location <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Unit Ltr</td> <td>Section</td> <td>Township</td> <td>Range</td> <td>Lot</td> <td>Feet from the</td> <td>N/S Line</td> <td>Feet from the</td> <td>E/W Line</td> <td>County</td> </tr> <tr> <td>K</td> <td>26</td> <td>19-S</td> <td>36-E</td> <td></td> <td>1980'</td> <td>South</td> <td>1650'</td> <td>West</td> <td>LEA</td> </tr> </table>				Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County	K	26	19-S	36-E		1980'	South	1650'	West	LEA
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K	26	19-S	36-E		1980'	South	1650'	West	LEA																
13. Date Spudded 10/15/1996		14. Date T D Reached 11/04/1996		15. Date Rig Released 10/27/2008																					
16. Date Completed (Ready to Produce) 10/27/2008		17. Elevations (DF and RKB, RT, GR, etc) KB 3697' , GR 3681'		18. Total Measured Depth of Well 8000'																					
19. Plug Back 7095'		20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run																					
22. Producing Interval(s), of this completion - Top, Bottom, Name Yeso6,622'-6,716'																									
CASING RECORD (Report all strings set in well)																									
23. CASING SIZE 13 3/8"		WEIGHT LB./FT 48#		DEPTH SET 500																					
8 5/8"		24.32#		2850																					
5 1/2"		15.5-17#		7500																					
24. LINER RECORD <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SIZE</td> <td>TOP</td> <td>BOTTOM</td> <td>SACKS CEMENT</td> <td>SCREEN</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN						25. TUBING RECORD <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SIZE</td> <td>DEPTH SET</td> <td>PACKER SET</td> </tr> <tr> <td>2 7/8"</td> <td>3849'</td> <td>TAC 3563'</td> </tr> </table>				SIZE	DEPTH SET	PACKER SET	2 7/8"	3849'	TAC 3563'				
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26. Perforation record (interval, size, and number) 6622'-24', 6636'-38', 6644'-46', 6674'-78', 6694'-98', 6704'-08', 6714'-16', 50 holes		27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DEPTH INTERVAL</td> <td>AMOUNT AND KIND MATERIAL USED</td> </tr> <tr> <td>6622'-6716'</td> <td>60 bls 14% NEFE HCL Acid</td> </tr> <tr> <td>6622'-6716'</td> <td></td> </tr> <tr> <td>6622'-6716'</td> <td></td> </tr> </table>				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	6622'-6716'	60 bls 14% NEFE HCL Acid	6622'-6716'		6622'-6716'													
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PRODUCTION																									
28. Date First Production 10/27/2008		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping		Well Status (Prod or Shut-in) Producing																					
Date of Test 11/02/2008		Hours Tested 24		Choke Size 40/64																					
Flow Tubing Press 180		Casing Pressure 60		Calculated 24-Hour Rate 0																					
Oil - Bbl 0		Gas - MCF 0		Water - Bbl 905																					
Oil Gravity-API - (Corr) 39.4																									
29. Disposition of Gas (Sold, used for fuel, vented, etc) NOTE. Zero production shown, with current plans to significantly upgrade the 'ESP'					30. Test Witnessed By Field Operator on Duty!																				
31. List Attachments: Wellbore Diagram																									
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit <div style="text-align: right;">N/A</div>																									
33. If an on-site burial was used at the well, report the exact location of the on-site burial Latitude <div style="text-align: right;">N/A</div> Longitude <div style="text-align: right;">NAD 1927 1983</div>																									
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief																									
Signature: Rick R. Schell		Printed Name: Rick R. Schell		Title: Regulatory Compliance Rep.																					
Date: 11/12/2008		E-mail Address: rrschell@MarathonOil.com																							

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers 2994'	T. Devonian	T. Cliff House	T. Leadville
T. Queen 3618'	T. Silurian	T. Menefee	T. Madison
T. Grayburg 3843'	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 4064'	T. Simpson	T. Mancos	T. McCracken
T. Glorieta 5645'	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock 5788'	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinberry 6227'	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard 6727'	T. Bone Springs	T. Todilto	
T. Abo 6994'	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....

No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Recompletion Procedure

McGrail State Well No. 9

1980' FSL, 1650' FWL

Section 26, 19S-36E, UL "K"

Lea County, New Mexico

WBS NO: RW.08.17695 CAP

Date: May 30, 2008

Purpose: Recomplete to Yeso

Elevation: **KB:** 3697' **PBTD:** 7508'
GL: 3681' **TD:** 8000'

Estimated Cost: \$314,500

Estimated Rig Days: 5

WI: 100% **NRI:** 87.5%

Surface Casing: 13-3/8", 48#, H-40 casing set at 516'. Cemented w/ 525 sx. Circulated cement to surface (210 sx).

Inter. Casing: 8-5/8", 24/32#, K-55 casing set at 2845'. Cemented w/ 1000 sx. Circulated cement to surface (106 sx).

Production Casing: 5-1/2", 15.5/17#, K-55 casing to 8000'. Cemented shoe with 270 sx. TOC at 6450'. Remedial cement through perfs at 6080'. Sqz 1075 sx. TOC at 556' (TS- 2/97)

Production Tubing: 2-7/8", 6.5#, J-55, EUE, SN @ 7455'

Perforations: **Current:** 7183-87', 7322-26', 7350-54', 7376-79', 7396-410', 7419-29', 7422-51', 7452-55'

Safety Issues: High Concentration Of H₂S Gas (28,000 ppm)

Tubular Performance/Capacities:

	ID (in.)	Drift (in.)	Burst (psi)	Collapse (psi)	Capacity (bbl/ft)
2-7/8" 6.5# J-55	2.441	2.347	5808	7680	.00579
5-1/2" 15.5# K-55	4.95	4.825	3848	4040	.0238
Tbg/Csg Annulus	-----	-----	-----	-----	.0158

Procedure:

1. MIRU WSU. POOH with rods and pump. Install and test BOPE. POOH with 2-7/8" tubing.
2. Make bit and scraper run to PBTD at +/- 7500'. Pick-up additional tubing as needed for this operation
3. RIH with cast iron bridge plug (CIBP). Set CIBP at +/-7150'. Swab well down for negative test on sqz perfs @ 6080'. Circulate wellbore full w/freshwater and test to 500 psi. PU end of tubing to 6720' and circulate a balance 3-bbl slug of acid from 6720' to 6600' using 7-1/2" NEFEHCL inhibited for 48-hours at 125 deg F. Be sure to keep the acid off the squeezed perfs at 6080'. POOH with tubing and tools.
4. RU Baker Atlas electric line. Install pack-off. RU lubricator and RIH with 3-1/8" slick gun with 311T charges loaded 2 SPF, phasing is not critical. Perforate from top-down to maximize benefit of acid. For depth control use Wedge Dia-Log CBL dated 11/10/96.

RECOMPLETION PROCEDURE

McGrail State Well No. 9

Lea County, New Mexico

May 30, 2008

6622-24 (2', 4 holes)
6636-38 (2', 4 holes)
6644-46 (2', 4 holes)
6674-78 (4', 8 holes)
6694-98 (4', 8 holes)
6704-08 (4', 8 holes)
6714-16 (2', 4 holes)

Yeso 20 Net Feet – 40 Holes

Casing collars at 6722', 6676', 6633', 6587'. With 41' short joint @6904'-45'

After last gun has been shot, tag CIBP and verify setting depth of top of CIBP. Dump 1
bailer of cement on CIBP. Pump 5 bbls of fresh water down casing to flush excess acid

5. RIH w/TBG and PKR. Set packer @ 6590'. Load and test backside to 500 psi. Establish injection into new perforations.
6. RU acid company for acid stimulation. Need a minimum of 500 HHP on location. Pump +/- 60 bbls of 15% NEFEHCL inhibited for 4 hours at 125 deg F. Use a ball injector loaded with 50 (1.1 SG) ball sealers for acid diversion. Start off pumping 5 bbls of acid, then drop 1-ball for each 1-bbl of acid pumped. After last ball, pump remaining acid. Pump at maximum rate (4-5 BPM is desired) not to exceed 5000 psi surface pressure. Displace acid with 45 bbls of fresh water.
7. Release packer and lower past bottom perforation to knock ball sealers off perforations.
8. PU packer to 6590'. Set load and test the backside to 500 psi. Swab test well until dark. Report swab results. If fluid level is high, BHP in next step is not required. If fluid level is low, plan to obtain BHP as noted below.
9. Next morning RU slick line, RIH w/Amerada BHP gauge to measure the bottom hole pressure. Make last stop @ mid-perf (6669). Make stops every 1000' while GIH. RD slickline.
10. Release packer, POOH.
11. RIH with production tubing, insert pump and rods. PWOP