MARATHON DRILLING 915 687 8337 10/19 '99 09:49 NO.035 05/06 FORM APPROVED UNITED STATES Form 3160-5 Budget Bureau No. 1004-0135 (November 1994) DEPARTMENT OF THE INTERIOR Expires November 30 2000 BUREAU OF LAND MANAGEMENT 5. Lense Sorial No. SUNDRY NOTICES AND REPORTS ON WELLS TRACT 251. CONTRACT 1.54 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to re-enter an ebandoned well. Use Form 3160-3 (APD) for such proposals. JICARILLA APACHE 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on reverse side Type of Wall 8. Well Name and No Oil Well Other JICARILLA APACHE #13 E 2. Name of Operator Marathon Oil Company 9. API Well No. 3b. Phone No. (include area code) 3a. Address 30-039-22446 915-687-8356 10. Field and Pool, or Exploratory Area P.O. Box 552 Midland, TX 79702 4. Location of Well (Fontage, Sec., T., R. M., or Survey Description) BLANCO MESA VERDE UL "E", SEC. 33, T-26-N, R-5-W 11. County or Parish, State 1850' FNL & 930' FWL NM RIO_ARRIBA CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12 TYPE OF ACTION TYPE OF SUBMISSION Production (Start/Resume) Water Shut-Off Deepen Acidizo X Notice of Intent Well Integrity After Casing Frocture Treat Reclamation Subsequent Report Casing Repair New Construction Plug and Abandon Change Plans Temporarily Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal Describe Proposed or Coommpleted 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 recomplete 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 recompletion 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.) PROPOSE TO ADD PERF'S IN THE BLANCO MESA VERDE POOL 4916' - 5296'. ISOLATE LOWER GRANEROS & DAKOTA PERFS AND PRODUCTION TEST THE MESA VERDE. SEE ATTACHED WORKOVER PROCEDURE FOR DETAIL. **AFMSS** bujbA Engr Gecl of Approval For 30 day How Sur Appvl 14. Thereby certify that the foregoing is true and correct Name (PrintedTyped) Title DRILLING SUPERINTENDENT LONGMIRE 10/19/99 Date THIS SPACE FOR FEDERAL OR STATE OFFICE USE Date 10 /19/59 Approved by

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, fletitious or franciulem statements or representations as to any matter within its jurisdiction.

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 lesses

which would entitle the applicant to conduct operations thereon.

WORKOVER PROCEDURE

Jicarilla Apache #13E

Jicarilla Field

1850' FNL & 930' FWL Section 33, T-26-N, R-5-W Rio Arriba County, New Mexico

Date: October 13, 1999

Purpose: Add Menefee Pay

GWI: 100% <u>NRI:</u> 87.5%

AFE#: 377799 AFE Amount: \$125,000

AFE Days: 10

Elevations: KB. 6610

GL: 6598'

7473 TD:

PBTD: 7310'

Surface Csg:

9-5/8" 36# K-55 ST&C @ 526' cmt'd w/ 400 sks (circulated)

Production Csg:

7" 20# K-55 ST&C (1054-3353'), 23# K-55 ST&C (0 to 1054' & 3353-5399'), & 29# N-80 LT&C @ 7473' cmt'd w/ 999 sks in 2 stages w/ DV tool @ 4107' (1st stage 416 sks - DNC, 2nd stage 583

sks -DNC) [Drifts: (29#) = 6.059", (23#) = 6.241" 80% Burst (20#) = 2992 psi]

Tubing: 230 jts 2-3/8" 4.7# J-55 EUE 8rd tbg @ 7201' w/ API SN @ 7200'

Fish In Hole: Baker Retrieva "D" packer & jewelry underneath @ 7262-96"

Perforations; Point Lookout: 5126', 28', 30', 32', 33', 34', 36', 38', 40', 41', 42', 44', 46', 48', 50' (15 holes)

Graneros:

Dakota:

7107', 11', 12', 15', 17' (5 holes)
7241', 42', 44', 46', 49', 51', 53', 55', 73', 85', 87', 89', 91', 95' (14 holes)

Morrison: 7353-58', 7376-84' (1 SPF) - Under Cement Retainer @ 7310'

Anticipated BHP: 800 psi in the Mesaverde

500 psi in the Dakota

Comments: 1) Use 2% KCl in all workover fluids.

2) Use 3-1/2" 9.3# N-80 tubing for frac string. [Drift = 2.867" 80% Burst = 8128 psi]

- 1. Irrspect location and improve if necessary. Test safety anchors to 22,500#.
- 2. MIRU PU. ND wellhead. NU BOP w/ pipe rams for 2-3/8" the on top & 2 valves below blind rams on bottom. Test BOP as per Drilling Department. POOH w/ 2-3/8" tubing.
- 3. Change pipe rams to 2-7/8". PU 2-7/8" workstring. RIH & mill/fish out Retrieva "D" packer @ 7262'. Do not spend more than two days on the attempt. Clean out well to PBTD @ ±7310'. POOH.
- 4. RIH w/ 5-1/2" straddle assembly & set RBP @ ±5350'. Pressure test RBP to 1500 psi. Dump 2 sacks sand on RBP. POOH & LD packer & 2-7/8" tubing.
- 5. RU WL. Run GR-CCL log across interval ±5350-3750'. Correlate with Dresser Atlas CNL-CDL dated 11/15/80. Perforate the Mesaverde @ 4916', 4966', 4960', 4994', 5030', 5045', 5055', 5062', 5070', 5082', 5083', 5091', 5093', 5153', 5156', 5206', 5217', 5246', 5282', & 5296' (20' - 20 shots) w/ 3-1/3" csg guns loaded 1 SPF using 12 gram charges.
- 6. Change pipe rams to 3-1/2". RIH w/5-1/2" packer on 3-1/2" tubing & set @ ±4850". Hydrotest the in hole to 7000 psi.
- 7. RU stimulation company. Breakdown Mesaverde perfs 4916-5296' (35 holes) w/ 1750 gallons 15% HCl using 55 x 1.1 SG BioBalls spaced evenly to divert. Allow time for BioBalls to dissolve, then sand fracture stimulate perfs as per recommendation (exact job design forthcoming) with approximately 100,000# 20/40 sand @ 60-70 BPM and 7000 psi maximum pressure. Tag all sand stages w/radioactive isotopes. RD stimulation company.
- 8. Flow back load. POOH w/ packer & LD 3-1/2" tubing. Tag TD with sinker bar to check sand fill (clean out if necessary). RU slickline. Run after frac log across interval ±5350-4550'. RD slickline.
- 9. Change pipe rums to 2-3/8". RIH with 2-3/8" production tubing and set packer @ ±4850'. ND BOP. NU wellthead. RDMO PU.
- 10. Place well on production & test Mesaverde. RBP will be pulled at a later date when rate stabilized.

xc: D. W. Arnst

D. K. Barker

G. W. Donaghey

W. J. Ducease T. P. Kacir

R. L. Kleiv W. S. Landon

R. J. Longmire

R. Skinner

Well File