District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue Aitesia NM 88210 District III tce NM 87410 1000 Rio Brazos Road District IV

Date:

7/31/07

Phone

(505) 748-3303

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

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

Submit to appropriate District Office

AUG 03 2007 ☐ AMENDED REPORT

OCD-ARTESIA

1220 S St Francis Di Santa Fe NM 87505 APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE OGRID Number Operator Name and Address 14049 Marbob Energy Corporation PO Box 227 API Number Artesia, NM 88211-0227 30 - 015-32818 Well No Property Name Property Code 32426 Edsel's Wand Waver Fee Proposed Pool 2 Wolfcamp "Proposed Pool 1 Proposed Pool 3 Delaware Strawn Surface Location UL or lot no Township Lot Idn Feet from the North/South line Feet from the East/West line County Section Range 28E 1650 North 660 West Eddy ⁸ Proposed Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line UL or lot no Range Feet from the East/West line County Section Township Additional Well Information 13 Cable/Rotary 14 Lease Type Code 15 Ground Level Elevation 11 Work Type Code 12 Well Type Code 3096' GL 16 Multiple 19 Contractor 20 Spud Date Proposed Depth 18 Formation 12820 Могтом 6/23/03 Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water bbls Drilling Method: Liner. Synthetic mils thick Clay Pit Volume: Pit: Fresh Water Brine Diesel/Oil-based Gas/Air Closed-Loop System ²¹ Proposed Casing and Cement Program Setting Depth Sacks of Cement Casing weight/foot Estimated TOC Hole Size Casing Size 17 1/2" 13 3/8" 48# 513' 560 sx 0 12 1/2" 2203 0 9 5/8" 36# 710 sx8 3/1" 7" 23# 10164 $1870 \, sx$ 0 4 1/2" 12820' $280 \, sx$ 8500° 6.1/8" 11.6# 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. Marbob Energy Corporation proposes to perforate, acidize, test & possibly frac the following Strawn, Wolfcamp & Delaware zones: CIBP + 35' cmt set @ 11425' 11168' - 11172' (10 shots) 2000 gal NE Fe 15% HCl Strawn Wolfcamp CIBP + 35' cmt set @ 11125' 2000 gal NE Fe 15% HCl 10040' - 10068' (12 shots) CIBP + 35' cmt set @ 10000' & 500 gal NE Fe 7 1/2% HCl Delaware 1 5779' - 5788' (30 shots) CIBP + 35' cmt set within 50' of csg stub Delaware 2 5660' - 5669' (30 shots) 500 gal NE Fe 7 1/2% HCl 500 gal NE Fe 7 1/2% HCl Delaware 3 5286' - 5292' (21 shots) Delaware 4 4008' - 4016' (27 shots) 500 gal NE Fe 7 1/2% HC1 (See attached procedure & wellbore schematics) 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 OIL CONSERVATION DIVISION constructed according to NMOCD guidelines □, a general permit □, or Approved by Signature BRYAN G. ARRANT DISTRICT II GEOLOGIST Printed name Diana J Briggs Title. AUG 2 0 2008 Title Production Analyst Approval Date AUG 2 0 2007 Expiration Date E-mail Address production@marbob com

Conditions of Approval Attached

Edsel's Wand Waver 1 E-6-24S-28E Eddy Co., NM

Recompletion Procedure 26 July 07

Basic Data:

13-3/8" @ 508' Circ. Cmt.
9-5/8" @ 2203' Circ. Cmt.
7" @ 10164' Circ. Cmt.
4.5"/11.6ppf/M95-110/LTC Burst=10690 psi, 8552 psi at 80% Nom. ID=4.000" Drift ID=3.875"
2.375"/4.7ppf/L80/EUE Burst=11200 psi, 8960 psi at 80% Nom ID=1.995" Drift ID=1.901"
Collapse=11780 psi, 9424 at 80%
Tensile=104,300 lb with no safety factor

Objective: Complete well in the Strawn, Wolfcamp and/or Delaware.

Procedure:

1. When ready to move to next zone, RU lubricator, run gauge ring to 11950' and set CIBP + 35' cement at 11950' (Morrow). Set another CIBP + 35' cement at 11425' (Atoka). RU lubricator and perf Strawn with 3-1/8" or 3-3/8" deep penetrating casing guns loaded 2 spf at any phasing at the depths shown below (inclusive):

<u>Strawn</u>: 11168-72' (10) OH Log Strawn: 11164-68' (10) GR/CCL

- 2. RIH with packer assembly with pump out plug on bottom, set packer, test annulus to 1000 psi, install treesaver and acidize with 2000 gals. NE Fe 15% HCL acid. Pump acid at 3-5 bpm while limiting treating pressure to 9500 psi and holding 2000 psi on annulus. No ballsealers will be used. Swab/flow test until notified to do otherwise.
- 3. When ready to move to next zone, RU lubricator, run gauge ring to 11125' and set CIBP + 35' cement at 11125' (Strawn). RU lubricator and perf Wolfcamp with 3-1/8" or 3-3/8" deep penetrating casing guns loaded 2 spf at any phasing at the depths shown below (inclusive):

Wolfcamp: 10040-42', 10066-68' (12) OH Log Wolfcamp: 10030-32', 10056-58' (12) GR/CCL

4. RIH with packer assembly with pump out plug on bottom, set packer, test annulus to 1000 psi, install treesaver and acidize with 2000 gals. NE Fe 15% HCL acid. Pump acid at 3-5 bpm while limiting treating pressure to 9500 psi and holding 2000 psi on annulus. Drop 2 slugs of 6 ballsealers through job. Swab/flow test until notified to do otherwise.

5. When ready to move to next zone, RU lubricator, run gauge ring to 10000' and set CIBP + 35' cement at 10000'. ND tubing head, weld extension onto 4-1/2" casing, remove slips, run a freepoint and cut casing with chemical or jet cutter 50' above free point (TOC 8500' TS). RU casing handling equipment and pull and lay down casing. When bottom of casing is at 6000' circulate the well bore full of clean 2% KCl water. Decision might be made to run a scraper inside the 7" casing after laying down the 4-1/2" casing—let's discuss.

Note: If frac is to be pumped down tubing and/or a zone is to be put on pump, lay down 2-3/8" tubing and pick up 2-7/8"/6.5ppf/J55/EUE production tubing for frac or PWOP.

6. Install lubricator, run gauge ring within 50' of 4-1/2" casing stub and set CIBP + 35' cement within 50' of casing stub. Run GR/CCL from 6000' to 3500' and perf the Delaware 1 with 3 spf at 60-120° phasing as shown below using a 4" casing gun.

Delaware 1: 5779-88' (30) OH Log

- 7. RIH with packer, spot acid close to packer, close bypass then acidize with 500 gals. NE Fe 7.5% HCl at 3-5 bpm while limiting surface pressure to 5500 psi and holding 1000 psi on annulus. Drop slug of 15 ballsealers half way through job. Swab test until notified to do otherwise.
- 8. If decision made to frac, install frac valve onto tubing, and frac down tubing at 10-15 bpm using low gel XL carrying 30,000 lbs 1630 expedite coated brown sand (4 ppg max). Limit treating pressure to 5500 psi while holding 1000 psi on annulus. Have pump on annulus ready to reverse circulate in case well screens out. When concentration falls below 4 ppg, bypass blender and go to quick flush.
- 9. Will likely PWOP and test this zone if fraced—let's discuss.
- 10. When ready to move up hole, RU lubricator and perf the Delaware 2 with 3 spf at 60-120° phasing as shown below using a 4" casing gun.

Delaware 2: 5660-69' (30) OH Log

- 11. RIH with packer, spot acid close to packer, close bypass then acidize with 500 gals. NE Fe 7.5% HCl at 3-5 bpm while limiting surface pressure to 5500 psi and holding 1000 psi on annulus. Drop slug of 15 ballsealers half way through job. Swab test until notified to do otherwise.
- 12. If decision made to frac, install frac valve onto tubing, and frac down tubing at 8-10 bpm using low gel XL carrying 15,000 lbs 1630 expedite coated brown sand (4 ppg max). Limit treating pressure to 5500 psi while holding 1000 psi on annulus. Have pump on annulus ready to reverse circulate in case well screens out. When concentration falls below 4 ppg, bypass blender and go to quick flush.
- 13. Will likely PWOP and test this zone if fraced—let's discuss.
- 14. When ready to move up hole, RU lubricator and perf the Delaware 3 with 3 spf at 60-120° phasing as shown below using a 4" casing gun.

Delaware 3: 5286-92' (21) OH Log

- 15. RIH with packer, spot acid close to packer, close bypass then acidize with 500 gals. NE Fe 7.5% HCl at 3-5 bpm while limiting surface pressure to 5500 psi and holding 1000 psi on annulus. Drop slug of 10 ballsealers half way through job. Swab test until notified to do otherwise.
- 16. If decision made to frac, install frac valve onto tubing, and frac down tubing at 8-10 bpm using low gel XL carrying 15,000 lbs 1630 expedite coated brown sand (4 ppg max). Limit treating pressure to 5500 psi while holding 1000 psi on annulus. Have pump on annulus ready to reverse circulate in case well screens out. When concentration falls below 4 ppg, bypass blender and go to quick flush.

17. Will likely PWOP and test this zone if fraced—let's discuss.	

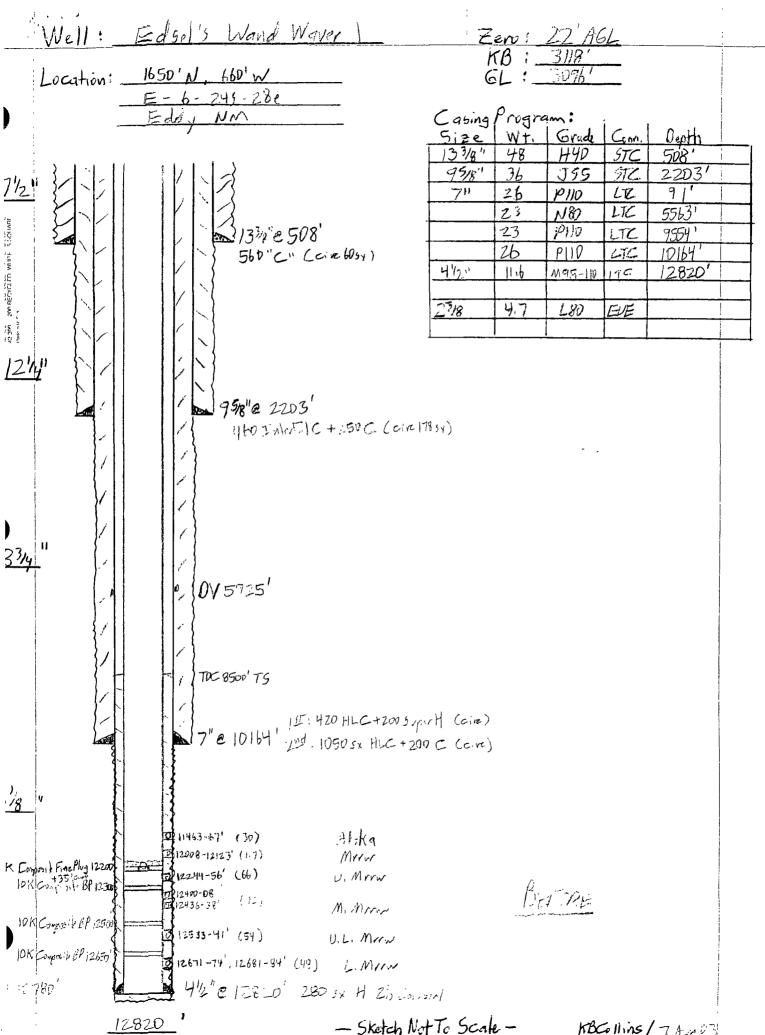
18. When ready to move up hole, RU lubricator and perf the Delaware 4 with 3 spf at 60-120° phasing as shown below using a 4" casing gun.

Delaware 4: 4008-16' (27) OH Log

- 19. RIH with packer, spot acid close to packer, close bypass then acidize with 500 gals. NE Fe 7.5% HCl at 3-5 bpm while limiting surface pressure to 5500 psi and holding 1000 psi on annulus. Drop slug of 15 ballsealers half way through job. Swab test until notified to do otherwise.
- 20. If decision made to frac, install frac valve onto tubing, and frac down tubing at 8 bpm using low gel XL carrying 5,000 lbs 1630 expedite coated brown sand (4 ppg max). Limit treating pressure to 5500 psi while holding 1000 psi on annulus. Have pump on annulus ready to reverse circulate in case well screens out. When concentration falls below 4 ppg, bypass blender and go to quick flush.

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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 68211-0719

DISTRICT IV

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

P.O. BOX 2088, SANTA FE, N.M. 87604-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

API Number	Pool Code Pool	Pool Name		
30-015-32818		WOLFCAMP		
Property Code	Property Name	Well Number		
32426	EDSEL'S WAND WAVER FEE COM	1		
OGRID No.	Operator Name	Elevation		
14049	MARBOB ENERGY CORPORATION	3096		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
5	6	24-S	28-E		1650'	NORTH	660'	WEST	EDDY

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
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				
320									

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

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DISTRICT IV

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

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Santa Fe, New Mexico 87504-2088
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API Number	Pool Code	Pool Nam	ne .
30-015-32818	9 1636		STRAWN_
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320									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION