

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

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

☐ AMENDED REPORT

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

¹ Operator Name and Address Marbob Energy Corporation PO Box 227 Artesia, NM 88211-0227		² OGRID Number 14049	
		³ API Number 30 -- 015-32070	
⁴ Property Code 32984	⁵ Property Name BB State Com		⁶ Well No 1
⁹ Proposed Pool 1 Atoka Proposed Pool 2 Strawn		¹⁰ Proposed Pool 3 Upper Penn (Canyon) Proposed Pool 4 Wolfcamp	

⁷ Surface Location

UL or lot no M	Section 2	Township 18S	Range 27E	Lot Idn	Feet from the 660	North/South line South	Feet from the 990	East/West line West	County Eddy
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⁸ 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
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Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3522' GL
¹⁶ Multiple N	¹⁷ Proposed Depth 10100'	¹⁸ Formation Morrow	¹⁹ Contractor	²⁰ Spud Date 9/20/03
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
²¹ Proposed Casing and Cement Program				

Pit ☐ Liner Synthetic ☐ _____ mils thick Clay ☐ Pit Volume: _____ bbls Drilling Method: _____
Closed-Loop System ☐ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	345'	500 sx	0
12 1/4"	9 5/8"	36#	1712'	590 sx	0
8 3/4"	5 1/2"	17#	10100'	2450 sx	0

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 proposed to perforate, acidize & test the Atoka, Strawn, Upper Penn (Canyon) and Wolfcamp zones as follows:

CIBP + 35' cmt @ 9575'	Atoka	9316' - 9320' (10 shots)	1500 gal NE Fe 15% HCl
CIBP + 35' cmt @ 9275'	Strawn	8908' - 8910' (6 shots)	750 gal NE Fe 15% HCl
CIBP + 35' cmt @ 8880'	Canyon	7876' - 7880' (10 shots)	1500 gal NE Fe 15% HCl
CIBP + 35' cmt @ 7840'	Wolfcamp	6627' - 7386' (20 shots)	10000 gal NE Fe 15% HCl

Any zone to be abandoned will be abandoned with a CIBP + 35' cmt set within 50' - 100' of the top perforation. Marginally-producing zones will be downhole commingled with NMOCD approval. A packer/RBP, packer/composite BP and/or packer/CIBP combination will be used when testing each zone.

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: _____

Printed name: Diana J Briggs

Title Production Analyst

E-mail Address production@marbob.com

Date 10/12/07

Phone (505) 748-3303

OIL CONSERVATION DIVISION

Approved by:

BRYAN G. ARANT
DISTRICT II GEOLOGIST

Title:

Approval Date: OCT 17 2007

Expiration Date: OCT 17 2008

Conditions of Approval Attached ☐

**BB St 1
M-2-18S-27E
Eddy Co., NM**

**Recompletion Procedure
19 July 07**

Basic Data:

13-3/8" @ 341' Circ. Cmt.
9-5/8" @ 1708' Circ. Cmt.
5-1/2" @ 10100' DV @ 7817' Circ. Cmt.

5.5"/17ppf/M95-110/LTC Burst=10640 psi, 8512 psi at 80% Nom. ID=4.892" Drift ID=4.767"
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: Test Morrow, Atoka, Strawn, Canyon and/or Wolfcamp zones until commercial production is established. Note: If decision made to commingle multiple zones, plug back method will likely be changed from the CIBP + cement plug backs in the procedure below—let's discuss.

Procedure:

1. When/if decision made to give up on upper Morrow 9601-12', reset packer at about 9625', attempt to load annulus, load tubing and pressurize tubing to 1000 psi to ensure packer is holding. Swab fluid level down to 9000'.
2. RU lubricator and perf middle Morrow with 1-11/16" Millenium Deep Star (8.1 g, 0.28" EHD, 19.6" penetration) decentralized capsule guns loaded 2 spf at 0 deg phasing at the depths shown below.

Middle Morrow: 9703-06', 9721-23', 9732-40' (32 shots)

3. Swab/flow test until notified to do otherwise. Zone 9732-40' may be wet.
4. If decision is made to acidize, pump down annulus to keep annulus full of fluid and acidize with 1000 gals NE Fe 7.5% HCl Morrow acid. Pump acid at 3-5 bpm while limiting treating pressure to 5000 psi. Drop 25 ballsealers spaced evenly through job. Swab/flow test until notified to do otherwise.

5. If decision made to abandon Morrow, RU lubricator, run gauge ring/junk basket to 9575', set CIBP + 35' cement at 9575' and perf the Atoka with 3-3/8" or 4" casing guns with deep penetrating charges loaded 2 spf at 180° phasing at the depths shown below.

Atoka: 9316-20' (10) OH Log

6. RIH with packer assembly with pump out plug on bottom, set packer, test annulus to 1000 psi, tree up and acidize Atoka with 1500 gals NE Fe 15% HCl at 3-5 bpm while limiting treating pressure to 5000 psi and holding 1000 psi on annulus. No ball sealers will be needed. Swab/flow test until notified to do otherwise.

7. If decision made to abandon Atoka, RU lubricator, run gauge ring/junk basket to 9275', set CIBP + 35' cement at 9275' and perf the Strawn with 3-3/8" or 4" casing guns with deep penetrating charges loaded 2 spf at 180° phasing at the depths shown below.

Strawn: 8908-10' (6) OH Log

8. RIH with packer assembly with pump out plug on bottom, set packer, test annulus to 1000 psi, tree up and acidize Strawn with 750 gals NE Fe 15% HCl at 3-5 bpm while limiting treating pressure to 5000 psi and holding 1000 psi on annulus. No ball sealers will be needed. Swab/flow test until notified to do otherwise.

9. If decision made to abandon Strawn, RU lubricator, run gauge ring/junk basket to 8880', set CIBP + 35' cement at 8880' and perf the Canyon with 3-3/8" or 4" casing guns with deep penetrating charges loaded 2 spf at 180° phasing at the depths shown below.

Canyon: 7876-80' (10) OH Log
Canyon: 7874-78' (10) GR/CCL

10. RIH with packer assembly with pump out plug on bottom, set packer, test annulus to 1000 psi, tree up and acidize Canyon with 1500 gals NE Fe 15% HCl at 3-5 bpm while limiting treating pressure to 5000 psi and holding 1000 psi on annulus. No ball sealers will be needed. Swab/flow test until notified to do otherwise.

11. If decision made to abandon Canyon, RU lubricator, run gauge ring/junk basket to 7840', set CIBP + 35' cement at 7840' and perf the Wolfcamp with 3-3/8" or 4" casing guns with deep penetrating charges loaded 1 spf at any phasing at the depths shown below.

Wolfcamp: 6627', 6629', 6631', 6683', 6769', 6826', 6911', 6991', 6992', 6993',
7026', 7073', 7074', 7075', 7251', 7352', 7354', 7363', 7382', 7386' (20) OH Log
Wolfcamp: 6625', 6627', 6629', 6681', 6767', 6824', 6909', 6989', 6990', 6991',
7024', 7071', 7072', 7073', 7249', 7350', 7352', 7361', 7380', 7384' (20) GR/CCL

12. RIH with packer to 7350', spot 750 gals NE Fe 15% HCl, pull packer to 6400', reverse circulate 20 bbls water down annulus, set packer, test annulus to 1000 psi and acidize Wolfcamp with 10000 gals NE Fe 15% HCl at 3-5 bpm while limiting treating pressure to 5000 psi and holding 1000 psi on annulus. Drop 60 ball sealers through job. Swab/flow test until notified to do otherwise.

===== Additional Procedures Will Be Issued If/As Necessary =====

Kbc/bb state 1 mrrw at str cnyn wc

Well: B/B St. Chen

Zero: 17.134

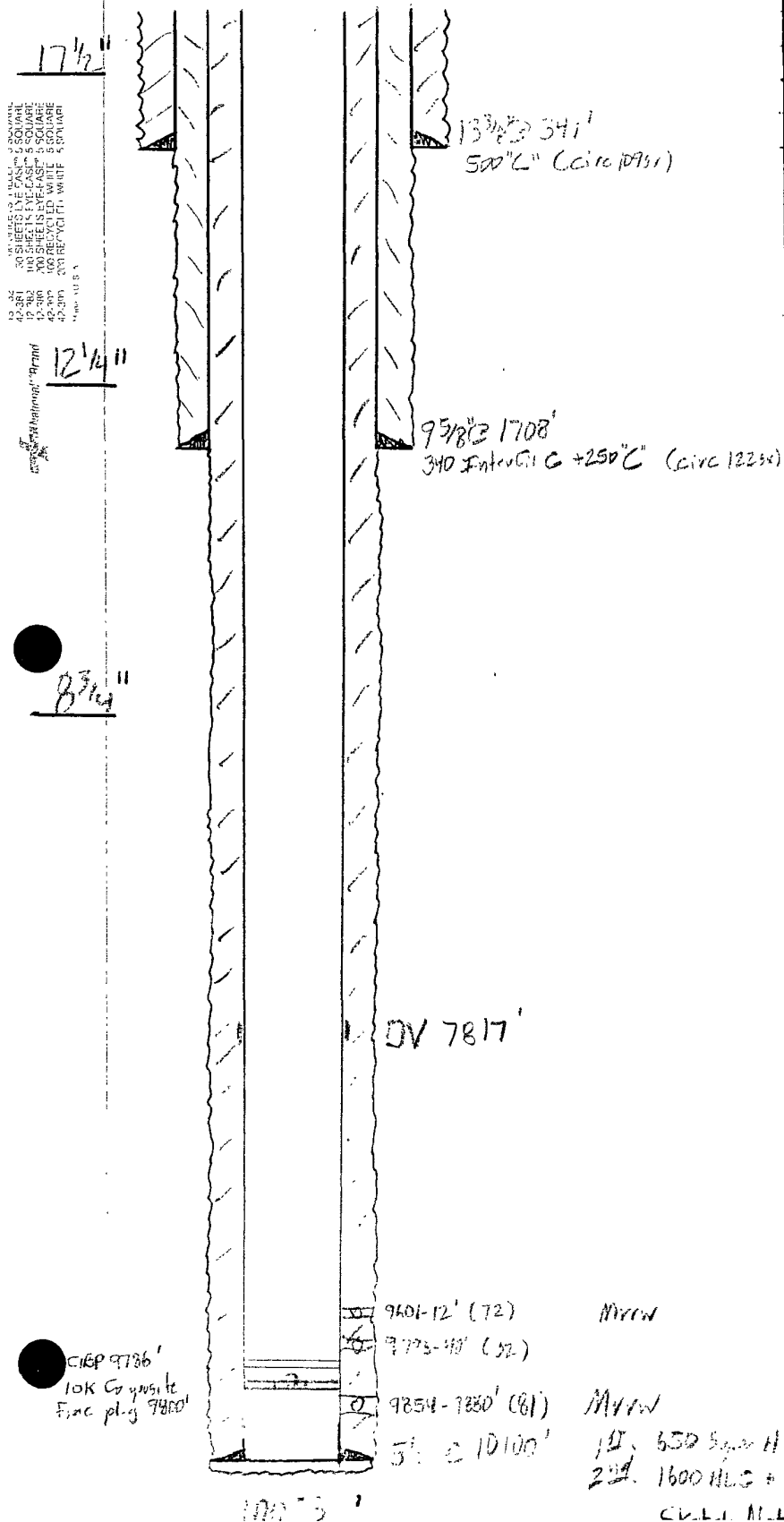
Location: 660°S 750°W
M-200-070
Edl. NM

KB : 3531

GL: 352

Casing Program:

Size	Wt.	Grade	Conn.	Depth
15 3/8"	42	H40	STC	341'
7 5/8"	36	J55	STC	1703'
5 1/2"	17	NBS-110	STC	10,100'
2 7/8"	4.7	L80	STC	



AFTER

Mr. W.

Mr. W.

10, 650 5.00 H (Cane 6/10)

229. 1600 HLG + 200 Sup + H (c. 1650)

CULT. M.L.T. C-1

1970-1971

Well: B/B St. Conn. 1

Zero: 17' AGL

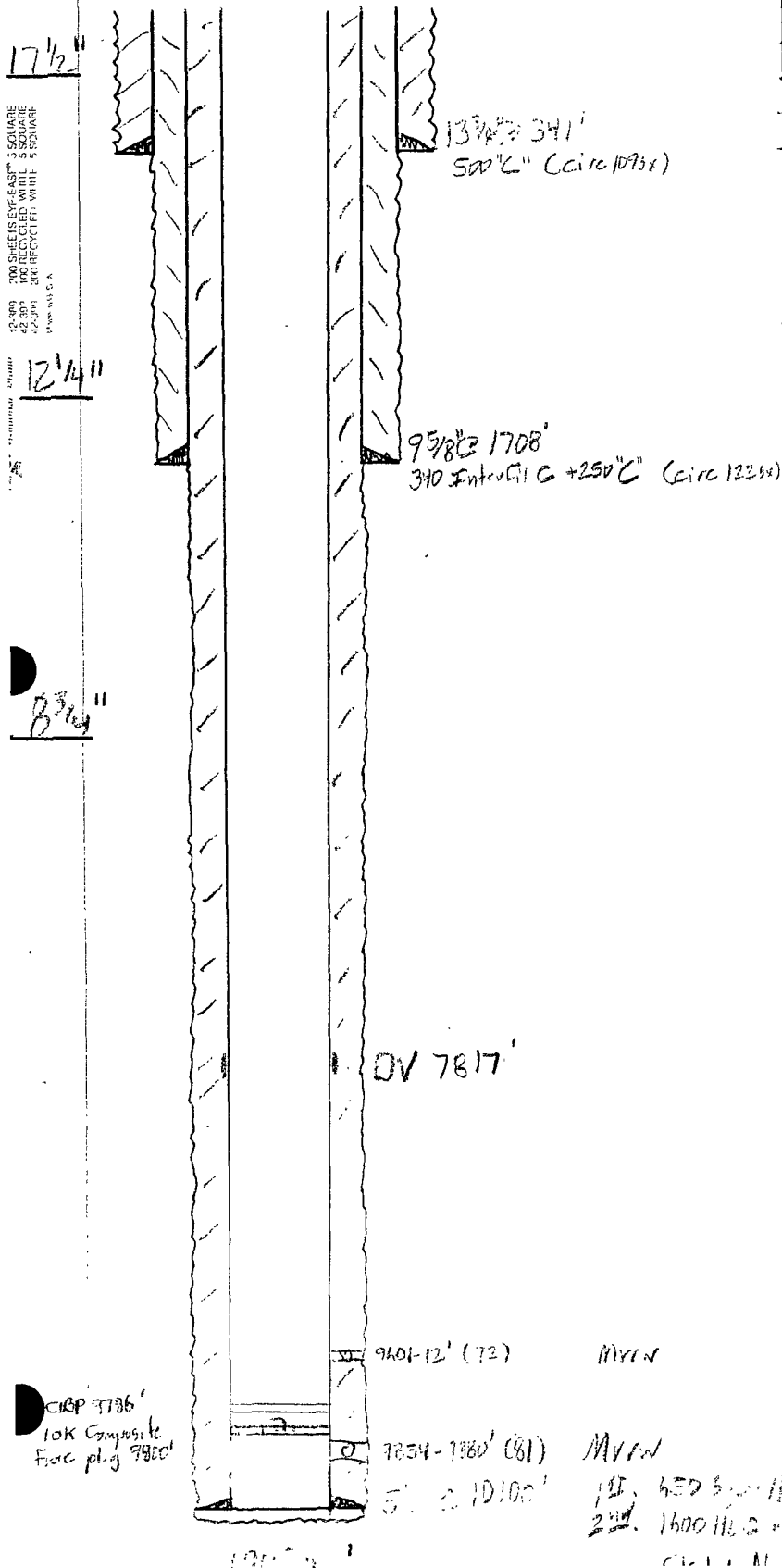
Location: 661' S 970' W
M-275-270
Field: NM

KB: 5538'

GL: 5522'

Casing Program:

Size	Wt.	Grade	Conn.	Depth
13 3/8"	48	H40	STC	341'
9 5/8"	36	J55	STC	1708'
5 1/2"	17	M5-H	LTC	10,100'
2 3/8"	4.7	L80	STC	



100 SHEETS OF EAST SQUARE
 100 SHEETS OF WEST SQUARE
 100 SHEETS OF NORTH SQUARE
 100 SHEETS OF SOUTH SQUARE
 100 SHEETS OF WHITE SQUARE
 100 SHEETS OF BLACK SQUARE
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 100 SHEETS OF BLUE SQUARE
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-32070	² Pool Code 8500C	³ Pool Name Scaggins Draw; Morrow
⁴ Property Code 32984	⁵ Property Name BB State Com	⁶ Well Number 1
⁷ OGRID No. 14049	⁸ Operator Name Marbob Energy Corporation	⁹ Elevation 3522' GL

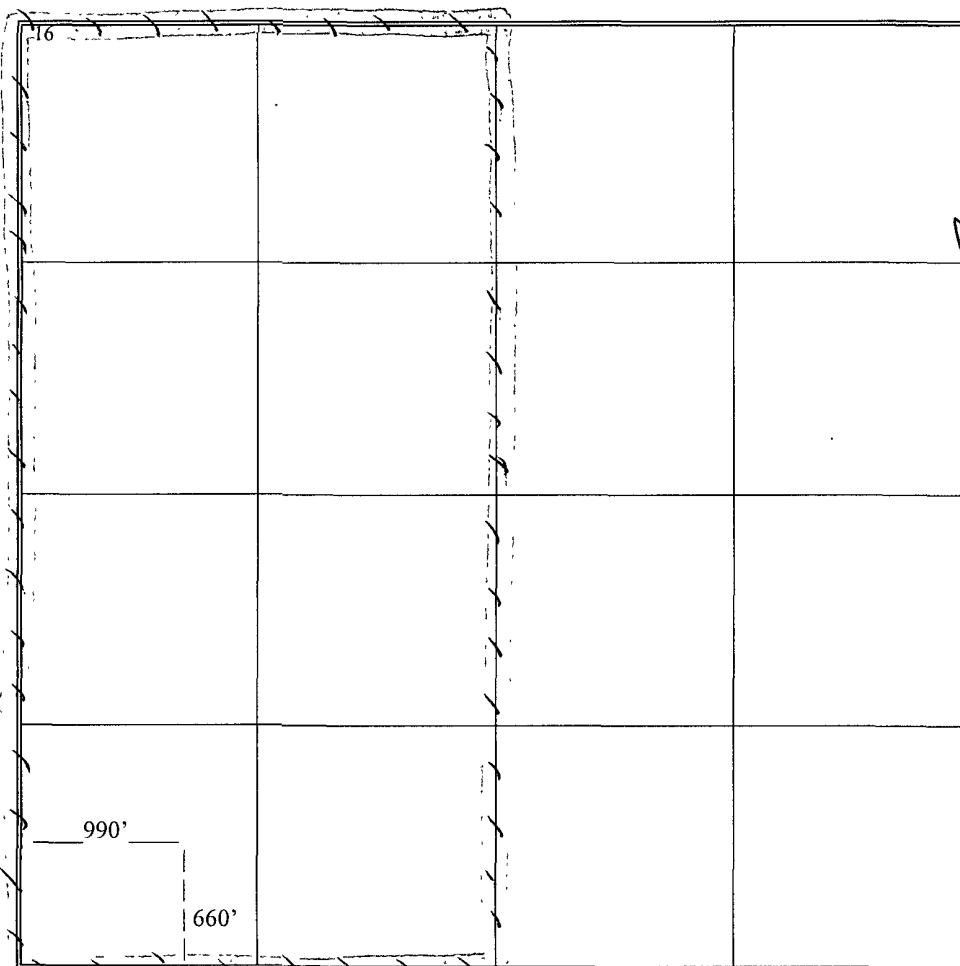
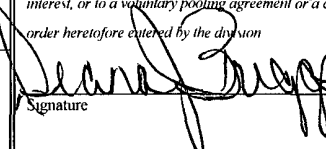
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	18S	27E		660	South	990	West	Eddy

¹¹ 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
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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.

¹⁶ 	<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</p> <p> 10/12/07 Signature Date Diana J. Briggs Production Analyst Printed Name</p>
	<p>¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>7/25/03 Date of Survey Signature and Seal of Professional Surveyor Gary G. Eidson 12641 Certificate Number</p>

District I

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State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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Santa Fe, NM 87505

Form C-102

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Fee Lease - 3 Copies

OCT 15 2007

OCD-AK-1000

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-015-32070	² Pool Code 85020	³ Pool Name UN Res Staggins Draw; Strawn
⁴ Property Code 32984	⁵ Property Name BB State Com	⁶ Well Number 1
⁷ OGRID No. 14049	⁸ Operator Name Marbob Energy Corporation	⁹ Elevation 3522' GL

¹⁰ Surface Location

UL or lot no. M	Section 2	Township 18S	Range 27E	Lot Idn	Feet from the 660	North/South line South	Feet from the 990	East/West line West	County Eddy
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¹¹ 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
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.	
	Signature 	Date 10/12/07
	Printed Name Diana J. Briggs Production Analyst	
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
Date of Survey 7/25/03		Signature and Seal of Professional Surveyor Gary G. Eidson 12641 Certificate Number

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-32070	² Pool Code	³ Pool Name WILDCAT Upper Penn (Canyon)
⁴ Property Code 32984	⁵ Property Name BB State Com	⁶ Well Number 1
⁷ OGRID No. 14049	⁸ Operator Name Marbob Energy Corporation	⁹ Elevation 3522' GL

¹⁰ Surface Location

UL or lot no. M	Section 2	Township 18S	Range 27E	Lot Idn	Feet from the 660	North/South line South	Feet from the 990	East/West line West	County Eddy
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¹¹ 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
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¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Signature: <i>Diana J. Briggs</i> Date: 10/12/07 Diana J. Briggs Production Analyst Printed Name
	¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> 7/25/03 Date of Survey Signature and Seal of Professional Surveyor. Gary G Eidson 12641 Certificate Number

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OCD-ARTESIA
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-32070	² Pool Code 11960	³ Pool Name Wolfcamp
⁴ Property Code 32984	⁵ Property Name BB State Com	⁶ Well Number 1
⁷ OGRID No. 14049	⁸ Operator Name Marbob Energy Corporation	⁹ Elevation 3522' GL

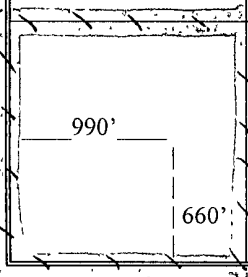
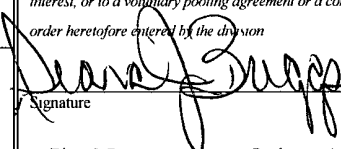
¹⁰ Surface Location

UL or lot no. M	Section 2	Township 18S	Range 27E	Lot Idn	Feet from the 660	North/South line South	Feet from the 990	East/West line West	County Eddy
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division  Signature _____ Date 10/12/07 Diana J. Briggs Production Analyst Printed Name _____			
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief 7/25/03 Date of Survey _____ Signature and Seal of Professional Surveyor _____ Gary G Eidson 12641 Certificate Number _____			

Well: B/B St. Com. 1

Zero: 17' AGL

Location: 660' S 970' W

KB: 3539'

GL: 3522'

M-2-186-27c

Edd; MM

Casing Program:

Size	Wt.	Grade	Conn.	Depth
13 3/8"	48	H40	STC	341'
9 5/8"	36	J55	STC	1708'
5 1/2"	17	M95-110	LTC	10,100'
2 3/8"	4.7	L80	EUE	

12-381 50 SHEETS EYE-EAST 5 SQUARE
42-380 100 SHEETS EYE-EAST 5 SQUARE
42-380 700 SHEETS EYE-EAST 5 SQUARE
42-380 200 SHEETS EYE-EAST 5 SQUARE
42-380 200 RECYCLED WHITE 5 SQUARE
1/2" x 11 1/2" x 1/2"

East National Brand

17 1/2"

12 1/4"

8 3/4"

13 3/8" @ 341'
500" C" (circ 1095x)

9 5/8" @ 1708'
340 Inteu Fil C + 250" C" (circ 1225x)

OV 7817'

AFTER

CIBP 9786'
10K Composite
Frac plug 9800'

9601-12' (72)

MVRW

9703-40' (32)

MVRW

9854-9880' (81)

1st: 650 Super H (circ 615x)

2nd: 1600 HLC + 200 Super H (circ 165x)

5 1/2" @ 10100'

- Sketch Not To Scale -

KBC Collins / 22 Oct 03

10073'

Well: BB St. Can. 1

Zero: 17' AGL

Location: 66i's 970' w

KB : 3539

GL : 3522'

M-216-270

Edy NM

Casing Program:

Size	Wt.	Grade	Conn.	Depth
1 3/8"	48	H40	STC	341'
1 7/8"	36	J55	STC	1708'
2 1/2"	17	M55-110	LTC	10,100'
2 3/8"	4.7	L80	EURO	

17 1/2

12 1/4"

834

133/80 341'

500" L" (circ 1093x)

95/8 @ 1708'

95/8" @ 1708'
340 Interfil C + 250"C" (circ 12234)

DV 7817'

9401-12' (72)

Myrw

9854-9880' (81)

Mrw

5' @ 10/100'

1st, 650 Super II (circ 6/14)

2nd. 1600 HLC + 200 Super H (give 16%)

— Sketch Not To Scale. —

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10073

CIBP 9786'
 10K Composite
 Frac plug 9800'

1st. 650 Super H (circ 6 1/2")
2nd. 1600 HLC + 200 Super H (circ 16 1/2")