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.

Submit to appropriate District Office

Santa Fe, NM 87505

NOV 2 1 2007 ☐ AMENDED REPORT

OCD ARTERIA

APPL	ICATI	ON FO	R PERMIT	TO DI	RILL, R	E-ENTI	ER, DI	EEPEN	, PLUGBAC	ČK , OI	RAD	D A ZONE
Marbob Energ			Operator Name	and Addre	SS				14049	² OGRID	Number	
PO Box 227 Artesia, NM &	•								30 – 015-33	³ API N	umber	
	rty Code	ſ			³ Prope	erty Name			<u> </u>	039	⁶ Wel	l No.
34326 Dime Sta											1	
9 Proposed Poo			a (96049)					osed Pool 3	Wildcat, Can			
10 Proposed Po	ol 2 W	/ıldcat, Strav	vn (96081) 🗸		7			osed Pool 4	Wildcat, Wol	fcamp (9	6086)	
					['] Surfa	ce Loca	tion	<u> </u>				
UL or lot no	Section	Township	Range	Lot I	dn Fe	et from the 1980			Feet from the 1580	East/Wes	I	County Eddy
J	30	18S	8 Drono	and Potts	m Hole L				.,.	Easi		Eddy
UL or lot no.	Section	Township	Range	Lot I		et from the	T	outh line	Feet from the	East/Wes	et line	County
OL OF IOCHO.	Section	township	Kange	Lot	un re	et from the	North	·	reet from the	Lasu W C	st inic	County
				Ad	ditional `	Well Inf	ormati					
	Type Code		12 Well Type Co	de	13	Cable/Rotary R		¹⁴ I	Lease Type Code S		15 Grou	nd Level Elevation 3561'
	P ultiple		17 Proposed Dep	th	11	Formation			19 Contractor		2	⁰ Spud Date
	N		10780'			Morrow						11/9/04
Depth to Grou	ndwater			Distance	from neares	fresh water	well		Distance fron	nearest su	ırface wa	ater
<u>Pit</u> Liner.	Synthetic	n	nils thick Clay	☐ Pit Vo	olume:	bbls	D	rılling Meth	od.			
Close	d-Loop Sys	tem 🔲					Fı	esh Water	☐ Brine ☐ Die	sel/Oil-bas	ed 🗌	Gas/Air 🔲
			21	Propos	ed Casin	g and C	ement	Progran	n	•		
Hole S	ıze	Cas	sing Size				Setting Depth		Sacks of Cement			Estimated TOC
17 ½	,,, ,	13	3 3/8"	5	54.5#		432'		425 sx			0
12 1/2	,,, 1	9	5/8"	36#			2235'		800 sx			0
8 3/4	"	- 4	5 1/2"		17#		1075	7'	1750 sx		ļ	1200'
											<u> </u>	
22 Describe th	ne proposed	l program	If this application	is to DEEI	PEN or PLUC	BACK, gi	ve the dat	a on the pro	esent productive zo	one and pr	oposed i	new productive zone.
			gram, if any. Us					•	•	•	•	•
Marbob Energ	zy Corporat	ion propose	s to perforate, aci	dıze, test &	possibly fra	c the Atoka	. Strawn.	Canyon and	d/or Wolfcamp zoi	nes as follo	ws	
Set 10K comp		olug @ 1017	75'				,,	,				•
Atoka Plug back tech	hniques to l)129' (15 shots) ed	2500	gal NE Fe 1:	% HCI						
Strawn		9529' 9'	750' (44 shots)		gal NE Fe 15							
Canyon			104' (18 shots)		gal NE Fe 15							
•	Wolfcamp 8289' – 8488' (18 shots) 3000 gal NE Fe 15% HCl Wolfcamp Dolomite 7910' – 7916' (14 shots) 1000 gal NE Fe 20% HCl											
***Note An	***Note Any zone to be abandoned will be done with a CIBP + 35' cmt set within 50' – 100' of the top perforation. Marginally producing zones will be downhole											
commingled v	vith NMOC	D approval	A pkr/RBP, pki	/ CBP and	or pkr/CIBP	combinatio			testing each zone		ig zones	will be downline
			n given above is						ONIGEDALLE		XX II O I	· O. V
			urther certify the guidelines ., a					OIL C	ONSERVAT	ION D	IVISI	.ON
an (attached)	alternațiv	e QCD apr	proved plan	<u></u>	 ,		oved by.					
Signature RANA CON							orea oy.		BRYANG.	a a crefi d	Trire	
Printed name	-	Brigge				Title.]	DISTRICT I	I CEU FKKVI	I UU	1QP
							oval Date	NOV 2	9 2007 F	xpiration I	in in	10√2 9 2008
E-mail Addre	Title Production Analyst E. mail Address Production@marbob.com									-Pumou I		
								pproval Att	tached \square			
Date: 11/20/07 Phone (575) 748-3303							ILIONS OF A	φριοναί Αθ	iaciicu 🔲			

Dime St 1 J-30-18S-28E Eddy Co., NM

Recompletion Procedure 1 6 Sept 2005

Basic Data:

13-3/8" @ 432' Circ. Cmt.
9-5/8" @ 2235' 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: Recomplete well to the Atoka, Strawn, Canyon and/or Wolfcamp.

Procedure:

- 1. When ready to move to next zone, blow well down, pump small slug of 7% KCl water down tubing, NU BOP and TOOH with packer using as little fluid to control well as possible.
- 2. RU lubricator, run gauge ring to 10200', set 10k composite frac plug (ball on top) at 10175', load casing with KCl water, test casing to 2000 psi and perf the Atoka with 3-3/8" or 4" casing guns loaded 1 spf at any phasing at the depths shown below.

Atoka: 9937', 9941', 9954', 9970', 10006', 10017', 10025', 10027', 10029', 10048', 10057', 10103', 10107', 10109', 10129' (15 shots)

- 3. RIH with packer assembly to approx. 9900', space out, set packer, test annulus to 500 psi, tree up, swab tubing dry, install tree saver and acidize with 2500 gals. NE Fe 15% HCl acid at 3-5 bpm while limiting treating pressure to 8500 psi and holding 1000 psi on annulus. Drop 45 ballsealers throughout job. Swab/flow test until notified to do otherwise.
- 4. When ready to move to next zone, plugback technique will be determined based on results of previous zone(s). RU lubricator and perf the Strawn with 3-3/8" or 4" casing guns loaded 2 spf at any phasing at the depths shown below.

<u>Strawn</u>: 9529-9534', 9539-9545', 9734', 9736', 9738', 9740', 9742', 9744', 9746', 9748', 9750' (44 shots)

5. RIH with packer/RBP (ball catcher) assembly, straddle 9734-9750', pump acid close to packer, close bypass and acidize with 1500 gals. NE Fe 15% HCl acid at 3-5 bpm while limiting treating pressure to 8000 psi and holding 1000 psi on annulus. Drop 40 ballsealers through job. Swab/flow test until notified to do otherwise.

- 6. When ready to move up hole, straddle 9529-9545', pump acid close to packer, close bypass and acidize with 1000 gals. NE Fe 7.5% HCl acid at 3-5 bpm while limiting treating pressure to 8000 psi and holding 1000 psi on annulus. Drop 40 ballsealers through job. Swab/flow test until notified to do otherwise.
- 7. If decision made to frac, kill well, install 10k frac valve with BOP on top, unseat packer, swab as much fluid out of casing as possible while still allowing for a safe trip OOH, and TOOH with packer and tubing. RU lubricator, run gauge ring to 9600', set CIBP/composite BP/composite frac plug (to be determined) at 9570' and reperf 9529-34' and 9539-45' with 3 spf at 120° phasing using 3-3/8" or 4" casing gun.
- 8. Install casing saver and frac down casing at 20 bpm with 65Q CO2 foam carrying approx. 25,000 lbs. 18/40 versaprop. Flow back until gas burns. Dump 15 bbls clean 7% KCl water down casing, shut in overnight, set a retrievable packer with pump out plug on wireline, blow casing down, run tubing, circulate packer fluid, tree up, pump out plug, swab well in, clean it up and SIWOPL.
- 9. When ready to move to next zone, plugback technique will be determined based on results of previous zone(s). RU lubricator and perf the Canyon with 3-3/8" or 4" casing guns loaded 1 spf at any phasing at the depths shown below.

<u>Canyon</u>: 8965', 8973', 8980', 8986', 8999', 9011', 9029', 9037', 9058', 9061', 9064', 9071', 9074', 9078', 9087', 9095', 9099', 9104' (18 shots)

- 10. RIH with packer assembly to approx. 8900', space out, set packer, test annulus to 500 psi, tree up, swab tubing dry, install tree saver and acidize with 3000 gals. NE Fe 15% HCl acid at 3-5 bpm while limiting treating pressure to 8500 psi and holding 1000 psi on annulus. Drop 60 ballsealers throughout job. Swab/flow test until notified to do otherwise.
- 11. When ready to move to next zone, plugback technique will be determined based on results of previous zone(s). RU lubricator and perf the Wolfcamp with 3-3/8" or 4" casing guns loaded 2 spf at any phasing at the depths shown below.

Wolfcamp: 8289', 8290', 8291', 8336', 8337', 8338', 8486', 8487', 8488' (18 shots)

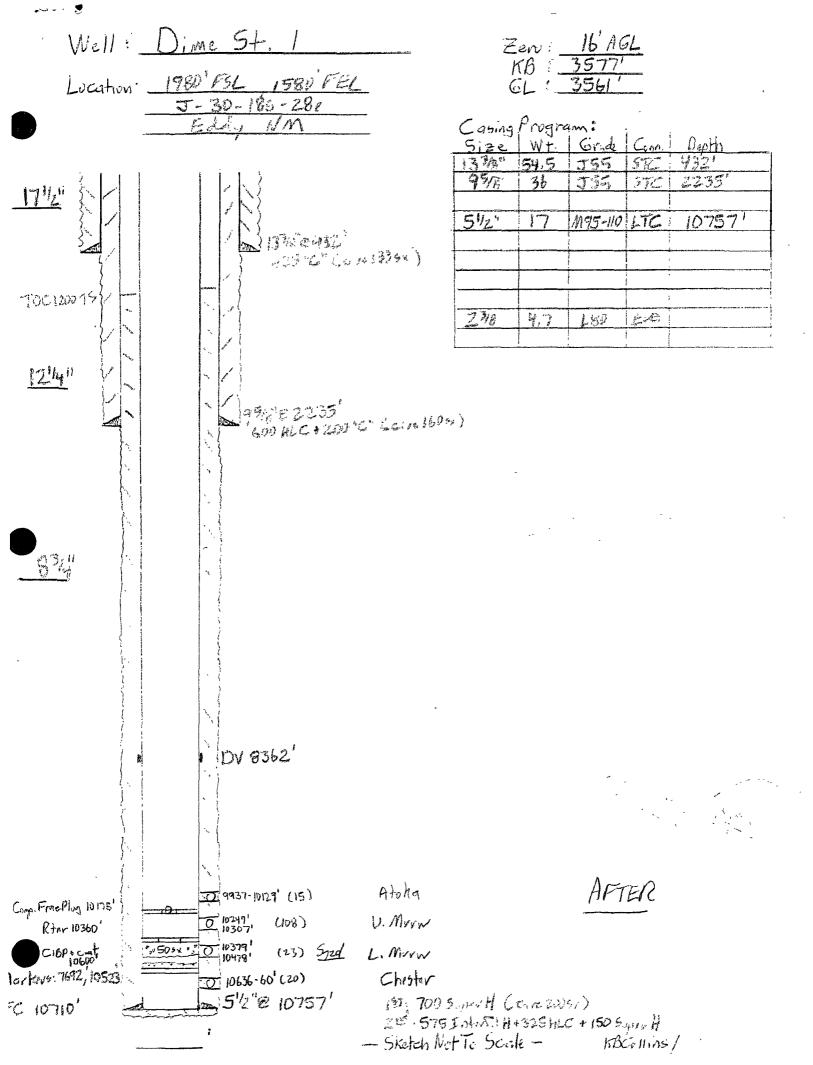
- 12. RIH with packer assembly, pump acid close to packer, close bypass and acidize with 3000 gals. NE Fe 15% HCl acid at 3-5 bpm while limiting treating pressure to 8000 psi and holding 1000 psi on annulus. Drop 60 ballsealers throughout job. Swab/flow test until notified to do otherwise.
- 13. When ready to move to next zone, plugback technique will be determined based on results of previous zone(s). Spot 500 gals double inhibited NE Fe 20% HCl acid at 7900'. RU lubricator, pressurize the casing to 1500 psi and perf the Wolfcamp Dolomite with 3-3/8" or 4" casing guns loaded 2 spf at any phasing at the depths shown below. If well doesn't go on vacuum, pump the spot acid away at ½ to1 bpm. If well comes in flowing, be prepared to lubricate a packer in on wireline.

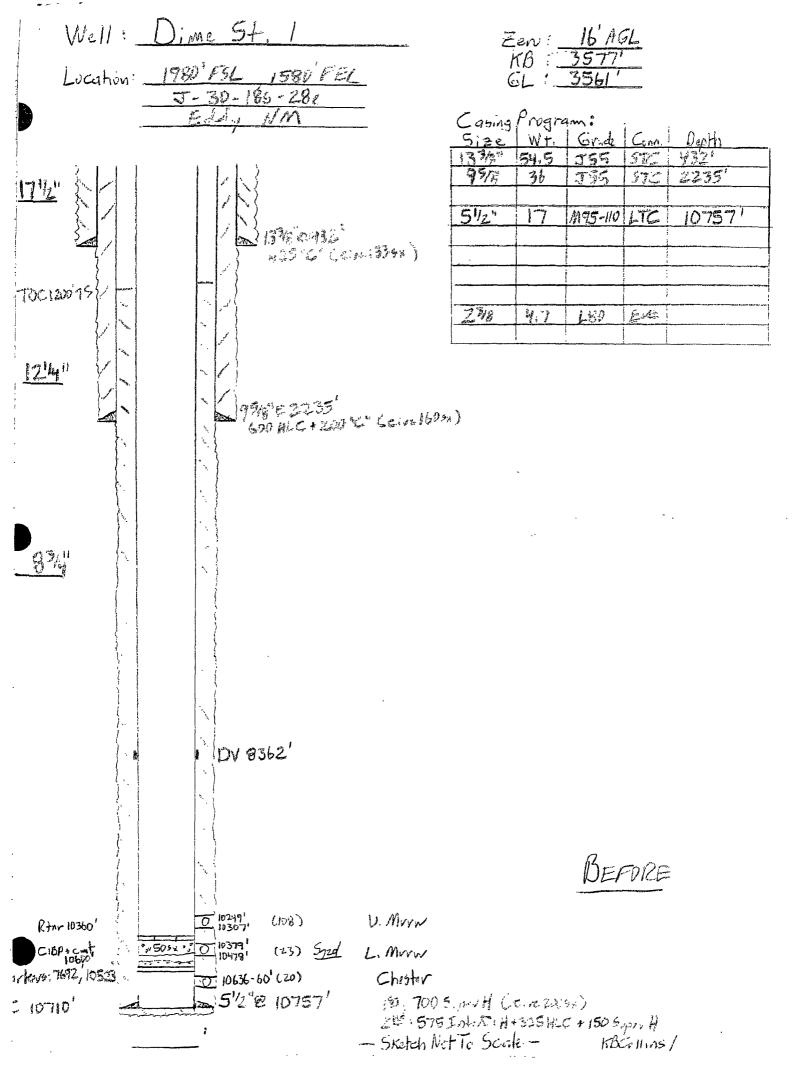
Wolfcamp Dolomite: 7910-7916' (14 shots)

- 14. RIH with packer assembly and swab/flow test until notified to do otherwise.
- 15. If decision is made to acidize, pump 1000 gals. NE Fe 20% HCl acid at 1-2 bpm while limiting treating pressure to 5000 psi and holding 1000 psi on annulus. No ballsealers will be used. Swab/flow test until notified to do otherwise.

Kbc/dime st 1 atoka

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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>

1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u>

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

¹ API Number

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 Pool Code 96049 Wildcat; Atoka

¹⁰ Surface Location

					Sullado	Dodanon				_
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	ĺ
J	30	188	28E		1980	South	1580	East	Eddy	ĺ

11 Bottom Hole Location If Different From Surface

			D	THOILI I IO	ic Location is	Different From	II Buriace		
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	13 Joint of	Infill 14 C	Consolidation	Code 15 Or	rder No.				
326.48	· ·								
!	1								

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				¹⁷ OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and complete
				to the best of my knowledge and beltef, and that this organization either
				owns a working interest or unleased mineral interest in the land including
li di				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
			1	interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division
			•	Dignature Dignature Dignature Production Analyst
<u>.</u>				Printed Name
		1 1	1 1 1	18SURVEYOR CERTIFICATION
k				I hereby certify that the well location shown on this
,				plat was plotted from field notes of actual surveys
			1580'	
}				made by me or under my supervision, and that the
			·	same is true and correct to the best of my belief.
)			,	8/31/04
				Date of Survey
1				Signature and Seal of Professional Surveyor
			,	organiae and sear of Frotessional Surveyor
		1980'		
N			\	Gary Eidson
1				12641
				Certificate Number
7 7	, ,	1		T

District 1 1625 N. French Dr., Hobbs, NM 88240 District II

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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

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☐ AMENDED REPORT

Fee Lease - 3 Copies

		W	ELL LC	CATION	N AND ACR	EAGE DEDIC	ATION PLAT	Γ				
1	API Numbe	r		² Pool Code		³ Pool Name						
	30-015-33659			96081			Wildcat; Stra	iwn				
⁴ Property Code			⁵ Property Name									
34326			Dime State									
7 OGRID No.		8 Operator Name							⁹ Elevation			
14049			Marbob Energy Corporation									
					¹⁰ Surface 1	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
J	30	18S 28E 1980 South 1580 East						Eddy				
			11 Во	ttom Hol	le Location If	Different Fron	n Surface					
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Count			

12 Dedicated Acres ¹³ Joint or Infill 14 Consolidation Code 15 Order No. 326.48

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				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
			'	erder heretofore entered by the division
				11/20/07
				Sugnature Date
				Diana J Briggs Production Analyst
				Printed Name
	' ' '	, , , , , , , , , , , , , , , , , , ,	' ' ' '	¹⁸ SURVEYOR CERTIFICATION
1				I hereby certify that the well location shown on this
1				plat was plotted from field notes of actual surveys
		0	1580'	
1		I		made by me or under my supervision, and that the
P		1	,	same is true and correct to the best of my belief.
				8/31/04
				Date of Survey
				Signature and Seal of Professional Surveyor
.		†		Signature and Sear Of Frotessional Surveyor
		1980'	\	4
Į				Gary Eidson
)			`	12641
)				Certificate Number
				Continue Mandel
		\		<u></u>