District 1 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

State of New Mexico Energy Minerals and Natural Resources

APR -7 2009

For June 16, 2008

Oil Conservation Division

Submit to appropriate District Office

•	RM
rm C-101	' ('
ne 16 2008	

District IV 1220 S St F		Santa Fe, NM			1220 So Santa		Franc M 875				☐ AM	IENDED REPORT
AP. Operator Na			OR PERM	IT TO I	DRILL, RI	E-EN	TER,	DEEPI	EN, PLUGB	ACK,	OR A	DD A ZONE
Орегасот на	ane and rac	11033	Marbob Energy PO Box	Corporation	1				OGIND HUM	140 3 API N		
3 Drone	erty Code		Artesia, NM 8	88211-0227		Nloren			30 – 15-222		" Well	No
Рторс	21597				Property		, ,				wen	no -
	21397	<u>l</u> ºP	roposed Pool 1		Lakewood AQE	State Sv	VD		10 Prope	osed Pool 2	 -	
			ylvanian (Cısco	-Canyon)						3004 7 007 2		
					⁷ Surfac	ce Lo	cation					
UL or lot no F	Section 30	Township 19S	Range 26E	Lot Id	In Feet fro			outh line	Feet from the 1980	East/Wes		County Eddy
			⁸ Pro	oposed Bo	ottom Hole Lo	cation	If Diffe	rent Fror	n Surface			
UL or lot no	Section	Township	Range	Lot Id			1	outh line	Feet from the	East/We	st line	County
	1	I I		A	Additional V	Well I	nforma	ation	,			
	Type Code E		12 Well Type Co O	ode		e/Rotary R		14	Lease Type Code S			nd Level Elevation 3436' GL
	fultiple N		¹⁷ Proposed Dep 9726'	oth		mation rrow			¹⁹ Contractor		20	⁰ Spud Date 8/9/77
				²¹ Prop	osed Casing	g and	Cemer	nt Progi	am			
Hole S	Size	Casıı	ng Size	Casing	weight/foot	5	Setting D	epth	Sacks of Ce	ment		Estimated FOC
17 ½	/ ''	13 3/8"	existing	4	48#	500'		600 sx		0		
12 ½	4''	9 5/8"	existing		36#			,	750 sx		0	
8 3/2	,,	7" ex	cisting	23# & 26#			8567	**	1650 sx		0	
						ļ					<u> </u>	
Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed on productive zone Describe the blowout prevention program, if any Use additional sheets if necessary Marbob Energy Corporation proposes to re-enter this well and convert it to a Salt Water Disposal well										a w productive zone		
	-		es are attached	well and con	iiveit it to a bait	Water E	risposui v	1011				1
				(5	See Administrati	ve Orde	r SWD-84	16-Δ)				
				()	oce Aummistrati	ve Oraci	1 3 W D-0-	10-A)				
23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief OIL CONSERVATION DIVISION									ON			
Signature II MA							Approved by acqui house					
Printed name Diana J Briggs							Title Caplegist					,
Title. Production Manager							val Date	418	,	xpiration I	Date 4	18/2011
E-mail Addre	ess <u>pro</u>	duction@mar	bob com									
Date: 4/6/09 Phone (575) 748-3303						Condi	tions of A	pproval At	tached	-		

Lakewood AQE St 1 SWD
(Formerly Lakewood AQE St 1)
1980' fnl, 1980' fwl
F-30-19s-26e
Eddy Co., NM
Conversion Procedure 1
25 Mar 09

13-3/8" @ 500' Circ. Cmt.
9-5/8" @ 1400' Circ. Cmt.
7" @ 8567' Circ. Cmt.
7"/23ppf/J55/LTC Burst=4360 psi, 3488 psi at 80% Nom. ID=6.366" Drift ID=6.241"
7"/26ppf/J55/LTC Burst=4980 psi, 3984 psi at 80% Nom. ID=6.276" Drift ID=6.151"
7"/26ppf/N80/LTC Burst=7240 psi, 5792 psi at 80% Nom. ID=6.276" Drift ID=6.151"
2.875"/6.5ppf/J55/EUE Burst=7260 psi, 5808 psi at 80% Nom ID=2.441" Drift ID=2.347"
Collapse=7680 psi, 6144 at 80%
Tensile=99700 lb with no safety factor

Objective: Complete well as SWD in Upper Penn dolomite per attached Order SWD-846-A. Notify OCD at least 24 hrs in advance of testing the casing shoe and testing the injection packer.

Note: Will be fishing ASI-X packer with 3 slip segments on top after drilling out CIBP above San Andres. If we don't make progress getting packer OOH after a few days of fishing, decision might be made to abort reentry—let's discuss.

Procedure:

- 1. Blade road into location and upgrade pad as needed. Dig out cellar, remove dryhole marker, dress off 7" casing and install 7" extension if needed. Install wellhead onto 7".
- 2. MIRU WSU and reentry equipment. Install BOP and test BOP and wellhead to 2000 psi. Pick up 6-1/8" bit and DCs and drill out the following plugs using fresh water.

Cement plug 0-160'
Cement plug 385-546'
Cement plug 1305-1467'
CIBP + cement 2339' (CIBP should be in 2480-2488' range, S Andres perfs 2536-60')
ASI-X packer to be fished should be just below CIBP (records show packer at 2480')

- 3. RU fishing tools and fish packer at approx. 2480' (see attached Kenco installation plan). After packer is recovered, RIH with bit and drill out CIBP + cement 2850' (Yeso perfs 2888-3060'). RIH to CIBP + cement above Upper Penn (approx. 7851') and tag up (don't drill plug).
- 4. RIH with retrievable packer, set below bottom Yeso perf at 3060', test casing and plug above Upper Penn to 2500 psi and TOOH with packer. Pick up retainer, set at approx. 2830', sting out, pump tubing volume, sting into retainer, keep annulus full and monitor, establish injection rate and squeeze Yeso perfs 2888-3060' (60) with 50 sx. Class "C" with low fluid loss followed by 150-200 sx. Class "C" neat. Resqueeze with 100 sx. Class "C" neat if running squeeze not obtained. Sting out of retainer, reverse excess cement out of tubing and TOOH with tubing.

- 5. Pick up retainer, set at approx. 2475', sting out, pump tubing volume, sting into retainer, trap 500 psi on annulus, establish injection rate and squeeze San Andres perfs 2536-60' (25) with 50 sx. Class "C" with low fluid loss followed by 100-150 sx. Class "C" neat. Have more Class "C" neat on hand in case running squeeze not obtained on first attempt. When squeeze pressure achieved, sting out of retainer, reverse tubing clean, TOOH and WOC 24-36 hrs.
- 6. After WOC, drill out squeezes and test squeezed perfs to 1000-1500 psi. Resqueeze as necessary to get perfs to hold pressure. After successful pressure test is obtained, drill out CIBP at 7886' and push to at least 8250'. Well will likely go on a vacuum as soon as plug is drilled.
- 7. RU lubricator, run gauge ring/junk basket to 8250' and perf'the Upper Penn dolomite with 1 spf at any phasing at the depths shown below using a 4" casing gun (inclusive).

Upper Penn: 7974-7980', 7992-8002', 8014-8038', 8104-8122', 8132-8150', 8166-8180', 8194-8210' (113 shots) CBL

8. RIH with packer on 2-7/8"/6.5/N80/EUE work string, set packer at 8250°, test casing shoe to 2500 psi, reset packer above perfs, test annulus to 1000 psi and pump 20,000 gals. 20% HCl acid (no additives other than corrosion inhibitor) down tubing at 10-15 bpm (if can't get 10 bpm, pump at highest rate achievable while limiting treating pressure to 7500 psi). Drop 10 slugs of 25 ballsealers spaced evenly through job. Flush acid with 2 transports of fresh or produced water. Limit surface treating pressure to 7500 psi while holding 1000 psi on the annulus.

Note: Notify OCD Artesia 24 hrs before testing casing shoe in case they want to witness test.

9. TOOH and lay down tubing work string. Pick up nickel plated injection packer on 2.875"/6.5/J55/EUE Duoline 20 internally lined tubing and RIH to 7900°. Pump 150 bbls clean inhibited packer fluid down annulus, set packer, fill annulus with inhibited packer fluid (approx. 240 bbls total annular volume) test annulus to 500 psi for 30 minutes and record the data on a chart for submission to OCD. Plumb tubing x casing annulus so that pressure can be monitored at surface. Limit injection pressure to 1587 psi using a pressure limiting device.

Note: Notify OCD Artesia 24 hrs before testing annulus in case they want to witness test.

Kbc/Lakewood age st 1 swd

Lakewood AQE 3t, 15WD

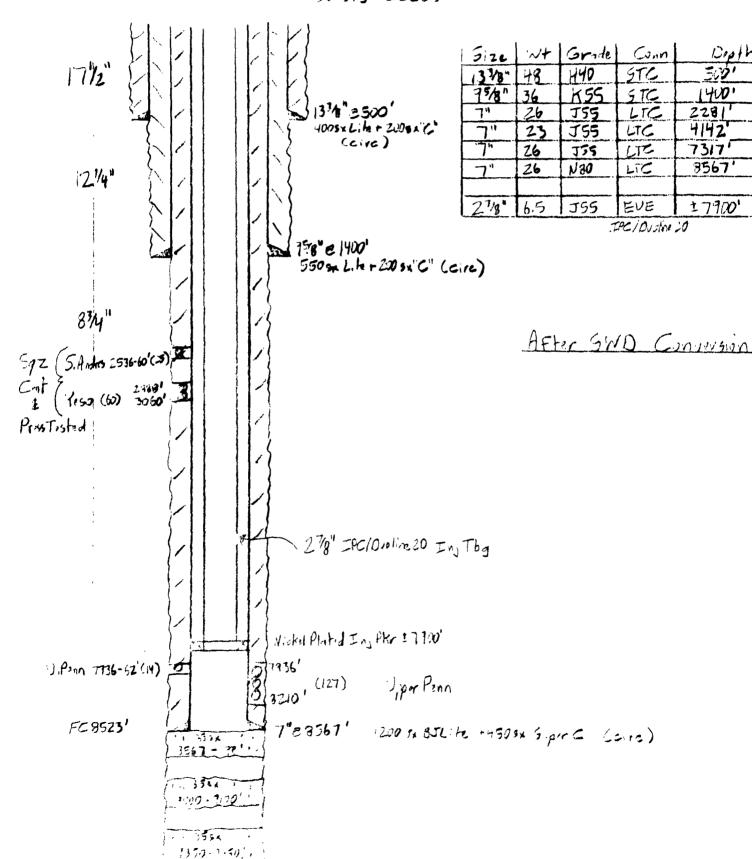
(Lakewood AQE 5t. 1)

1780'FNL, 1780'FNL

F- 30-175-26e

Edd, N.M

30-013. 22233



Lakewood AQE St. 1 1780'FNL, 1780' FWL F-30-175-26e Edd, Nin 30-015. 22233

Zen: 14' ASL HO: 3436' SL: 3422'

17/2"		30 x C 1 0 - 160 12 25 5 x C 2	1111	P4A 6/04)	512e 1378" 75/8"	√+ +8 36 26 23	Gr.1e H40 K55 J55 J55	Conn STC STC LIC LIC	Dooth 300' 1400' 2281' 4142'
121/4"		'255×'C	/ / /	1005x Life + 2004x C	7"	26 26	132 132	LIC	7317' 7567'
834"		1305-1457' 2339'		778" e 1400' 550 m L.h. + 200 sn' C" (CIGP+25 sx c-+ 24%)' C= 161-X pkr	(cire)	BeF	51e 51	ND C	201451 2 150 V
5. Andres 2536-6 (60) =) ;			C18P+35's-At 2850'					
:			/						
J.Ponn 7736-62	(H) 5	<u></u>	1	C138 :55'cot 1386'				,	
FC 8523'	35	-77A 37' 67- 37'	1	7"e 8567' (200 sx 851)	L to +450	م و که ۱۶	irc (eire)	
		12.122°	·]						

District !
1625 N. French Dr., Hobbs, NM 88240
District !!
1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410
District !!V

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

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

VELL LOCATION	4315 (~~	

	API Numbe 0-015-22233	1 to 1 to 1							SWD C	
¹ Property 0 21597	Code			" Well Number						
² OGRID 1 14049	No.	⁹ Operator Name Marbob Energy Corporation							⁹ Elevation 5456' GR	
		-			10 Surface	Location			.,	
UL ar lot 190. F	Section 30	Lownship 198	Range 26E	Lot Idn	Feet from the 1980	North/South line North	Feet from the 1980	East/West line West	County Eddy	
			n Bo	ottom flo	le Location I	Different Fro	m Surface	<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
t'l, or for na	Section	Township	Range	Lut ldn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres	io iniol. ⁽¹	r Infilt i+ Co	msoldation	Code 13 Or	der No.	<u></u>				

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.

14		
16	, oabi	17 OPERATOR CERTIFICATION I hereis certify that the information compound herein is true and complete us the best of my knowledge and belonf, and that this regumentation entire onesses with no rest or indicased amoved in the hand no hading the prepared bottom hole has man or have a right to direct in the tocation parsition to a contract with an owner of such a time of working interest, or have voluntary probling agreement or a computatory pushing and inventification partition the division.
1080,		Signature Date Distance Production Manager Production Manager
		18SURVEYOR 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 July 15, 1977
		Date of Survey Signature and Seaf of Professional Surveyor REFER TO ORIGINAL PLAT Richard is Dinnyen 488.2 Configure Number