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
District IV

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

1220 S. St. Fi				TA ND		ente			DI	LICDAC		۷ DD	A ZONE						
			R PERMIT Operator Name	e and Address	ILL, KE-I	ENIE	K, DI	LEPE	PL	UGBAG	OGRID N	ımber	A ZONE						
Cimarex E						- 162683 3 API Number													
600 N. Ma Midland,	_				30-015-33963														
³ Property Code ³ Property							Name					6 Well No.							
34631 Park Stat							te 36 Com 001												
9 Proposed Pool 1 Black River; Wolfcmap, NW (Gas)							¹⁰ Proposed Pool 2												
1	Location																		
UL or lot no.	Sectio36	Township 24S	Range 25E	Lot Ida	1	om the		outh line uth		from the	East/West li		County Eddy						
36		⁸ Proposed Bottor		n Hole Location If		Different From Surface		e GAS											
UL or lot no.	JL or lot no. Section Township		Range Lot Idn						from the East/Wes		t line County								
Additional Well Information																			
Plug Back to WC G								S	-		¹⁵ Ground Level Elevation 3539 GL								
¹⁶ Multiple N			¹⁷ Proposed D 11385 (PB			rmation fcamp			¹⁹ Cont N/		w		²⁰ Spud Date When Approved						
Depth to Groundwater Distance from nearest fre							ater well Distance from no				nearest surf	nearest surface water							
Pit: Liner: Synthetic ☐mils thick Clay ☐ Pit Volume:bbls Drilling Method: Closed-Loop System ☑ Flowback Tanks Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐																			
Close	ed-Loop Sys	tem 🔼			ed Casing a	nd Ce				Diesel/O	ıl-based	Gas/Air	Ц						
Hole S	Hole Size Casing Size Casing weight/foot					Setting Depth			Sacks of Cement Estimated TOC										
17½		133/8		54.5		203			225		Circ								
12¼		95%		40		1945				700		Circ							
8¾		5½		17		12074		2610		10	1900								
-																			
22 Describe t	he proposed	l program	If this application	n is to DEEPI	FN or PLUG RA	ACK give	e the dat	a on the r	resent n	roductive zo	one and prop	osed nev	v productive zone.						
Describe the Well curre	blowout pro	evention producing 1	ogram, if any. Use from Morrov per the attac	se additional v perfs @	sheets if necess 11458-118	ary. 807. Ci	marex	propo			3P @ 114	20 w/	35' cmt and						
RECEIVE											IVED								
								MAR 0					3 2011						
NMOCD ARTES										ARTESIA									
								OIL C	ONS	ERVAT	ION DI	VISIO	N						
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 ☐.							Approved by:												
an (attached) alternative OCD-approved plan . Signature: Wataw (Corr							Title:												
Printed name: Natalie Krueger							Godoogra												
Title: Regulatory							Approval Date: 3/18/2013 Expiration Date: 3/18/2013												
E-mail Address: nkrueger@cimarex.com							, , , , , ,												
Date: February 22, 2011 Phone: 432-620-1936 Conditions of Approval Attached								Date: February 22, 2011 Phone: 432-620-1936 Conditions of				ions of Approval Attached							

Park State 36 Com #1 Wolfcamp Recompletion Procedure

Well Data:

KB 23' above GL

TD 12073' PBTD 12007'

Casing 13-3/8" 54.5# J-55 @ 200'. Cmtd w/ 225 sx. Cmt circ.

9-5/8" 40# N-80 & P-110 @ 1940'. Cmtd w/ 700 sx. Cmt circ.

5-1/2" 17# P-110 @ 12072'. Cmtd w/ 1260 sx. Cmt circ.

DV Tool @ 7005'. Cmtd w/ 1350 sx. TOC @ 650' by CBL.

Perforations I

Morrow (11458' – 11807')

Procedure:

- 1. MIRU pulling unit. Kill well, ND WH, NU BOP. TOOH and LD 2-3/8" tbg. RU wireline and run CIBP and set @ ± 11420'. Dump 35' of cmt on top of CIBP. RU pump truck and pressure test csg to 5000 psig w/ FW. ND BOP, Change out 5K wellhead for 10K wellhead, and RU 10K goat head frac valve.
- 2. Perforate Wolfcamp (9416' 9419', 9435' 9438', 9459' 9461', 9466' 9474', 9477' 9479', 9493' 9496') (9413' 9416', 9432' 9435', 9456' 9458', 9463' 9471', 9474' 9476', 9490' 9493') 3 JSPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 60 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated May 15, 2005. Depth reference Halliburton Cement Bond Log dated June 6, 2005.
- 3. Acidize and frac Wolfcamp perfs (9416' 9496') down 5-1/2" csg w/ 8000 gals acid followed by 285,272 gals slick water containing 30,000# 100 mesh & 200,000# 30/50 sand. Set 10K flow thru composite plug @ 9405'.
- 4. Perforate Wolfcamp (9258' 9260', 9266' 9268', 9282' 9284', 9292' 9294', 9304' 9306', 9326' 9328', 9342' 9344', 9359' 9361', 9376' 9380') (9255' 9257', 9263' 9265', 9279' 9281', 9289' 9291', 9301' 9303', 9323' 9325', 9339' 9341', 9356' 9358', 9373' 9377') 3 JSPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 60 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated May 15, 2005. Depth reference Halliburton Cement Bond Log dated June 6, 2005.
- 5. Acidize and frac Wolfcamp perfs (9258' 9380') down 5-1/2" csg w/ 8000 gals acid followed by 222,099 gals slick water containing 25,000# 100 mesh & 175,000# 30/50 sand. Set 10K flow thru composite plug @ 9240'.

- 6. Perforate Wolfcamp (9029' 9031', 9044' 9046', 9065' 9067', 9100' 9102', 9121' 9123', 9155' 9157', 9180' 9182', 9186' 9188', 9202' 9204', 9210' 9212') (9025' 9027', 9040' 9042', 9061' 9063', 9097' 9099', 9118' 9120', 9152' 9154', 9197' 9199', 9183' 9185', 9199' 9201', 9207' 9209') 3 JSPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 57 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated May 15, 2005. Depth reference Halliburton Cement Bond Log dated June 6, 2005. RD wireline.
- 7. Acidize and frac Wolfcamp perfs (9029' 9212') down 5-1/2" csg w/ 8000 gals acid followed by 338,816 gals slick water containing 35,000# 100 mesh & 250,000# 30/50 sand. RD Cudd.
- 8. RU 1-3/4" coiled tbg unit. TIH w/ 4-3/4" butterfly mill & extreme downhole motor on 1-3/4" CT and drill out sand and composite plugs @ 9240', 9405'. Make a minimum of 2 gel sweeps while drilling out composite plugs. FIH w/ coiled tbg and CO sand to 9700'. TOOH w/ mill, motor, & CT. RD coiled tbg unit.
- 9. Flow back well until sand production cleans up, the SI well overnight.
- 10. RU wireline and full 10K lubricator. RIH w/ 4-3/4" GR to 9000'. TIH w/ 10K pkr w/ on-off tool, and a pump out plug (pinned for 7500 psi BHP) in place and set @ <u>+</u> 8950'. RD wireline and full lubricator.
- 11. ND goat head and NU BOP. TIH w/ on-off tool, tbg and gas lift valves as per recommendation testing tubing below slips to 8000 psi. Tag pkr and PU 1 jt. RU PT and establish circ w/ FW. Pickle tbg w/ 500 gals 15% HCl and reverse out acid. Circ hole until good clean wtr is left in annulus. FIH w/ tbg and latch on to pkr. ND BOP, NU WH. RD pulling unit.
- 12. RU PT & pressure up to 4000 psig to pump out plug. Put well on production.



