1025 N. French Dr, Hobols, NM 88240 Energy Minerals and Natural Resource IOBBS OCD N District II 1301 W. Grand Avenue, Artesia, NM 88210 Oil Conservation Division AUG 0 5 2011 III 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. Submit to appropriate Division AUG 0 5 2011 III 1220 S. St Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 RECEIVED AMENDEX Operator Name and Address ¹ Operator Name and Address ² OGRID Number 162683 ⁶ Oon N. Marienfeld, Ste. 600 ³ API Number 30-025- 40 ⁹ Property Code ⁹ Property Name ⁹ Well No. ⁹ Proposed Pool 1 ⁹ Proposed Pool 2 ¹⁰ Proposed Pool 2 ⁹ Proposed Pool 1 ¹⁰ Proposed Pool 2 ¹⁰ Proposed Pool 2	D REPORT				
RECEIVED APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A Z Operator Name and Address Operator Name and Address 20GRID Number Cimarex Energy Co. of Colorado 162683 600 N. Marienfeld, Ste. 600 30-025- 40 Midland, TX 79701 30-025- 40 ³ Property Code ³ Property Name ³ Proposed Pool 1 JG SWD ³ Proposed Pool 1 497869 ⁴ Surface Location ⁴⁰ Proposed Pool 2					
¹ Operator Name and Address Cimarex Energy Co. of Colorado 600 N. Marienfeld, Ste. 600 Midland, TX 79701 ³ Property Code ³ Property Code ³ Property Code ³ Proposed Pool 1 ⁹ Surface Location					
600 N. Marienfeld, Ste. 600 Midland, TX 79701 ³ Property Code ³ Property Code ³ Proposed Pool 1 ⁹ Proposed Pool 1 ⁹ Proposed Pool 1 ⁹ Proposed Pool 1 ⁹ Proposed Pool 2 ¹⁰ Proposed Pool 2 ⁹ Surface Location	224				
38726 JG SWD 001 ⁹ Proposed Pool 1 Supp Devonion - Silurian <97869 ⁹ Surface Location					
Surface Location					
Surface Location					
I H as let us Sectors Tourselup Dange Lot Idn East from the North/South Inte Fast from the East/West Inte					
F 16 17S 32E 1695 North 1343 West	County Lea				
⁸ Proposed Bottom Hole Location If Different From Surface	County				
UL or lot no Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line	County				
Additional Well Information					
¹¹ Work Type Code ¹² Well Type Code ¹³ Cable/Rotary ¹⁴ Lease Type Code ¹⁵ Ground Level New Well SWD S 4055 C					
¹⁶ Multiple17 Proposed Depth18 Formation19 Contractor20 Spud DN14100DevonianN/AWhen App					
Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water					
	ed TOC				
	irc				
8¾ 5½ 20 & 17 13700* 2300 Ci 1 *13700-14100 open hole	irc				
 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 Drill Devonian SWD well. Wells disposing into the SWD will be Cimarex operated Paddock/Blinebry wells in the area. Injection interval will be 13730-13900. Acidize perfs with 20000 gal 20% HCl acid. Packer to be set @ 13700 with 3½" 9.3# N80 or 2½" 8.7# N80 tubing from 0-13700. See attached proposed WBD. C-108 approved: SWD-1294. 					
Drill Devonian SWD well. Wells disposing into the SWD will be Cimarex operated Paddock/Blinebry wells in the Injection interval will be 13730-13900. Acidize perfs with 20000 gal 20% HCl acid. Packer to be set @ 13700 wi 9.3# N80 or 2%" 8.7# N80 tubing from 0-13700. See attached proposed WBD.	th 3½"				
Drill Devonian SWD well. Wells disposing into the SWD will be Cimarex operated Paddock/Blinebry wells in the Injection interval will be 13730-13900. Acidize perfs with 20000 gal 20% HCl acid. Packer to be set @ 13700 wi 9.3# N80 or 2%" 8.7# N80 tubing from 0-13700. See attached proposed WBD. C-108 approved: SWD-1294.	th 3½"				
Drill Devonian SWD well. Wells disposing into the SWD will be Cimarex operated Paddock/Blinebry wells in the Injection interval will be 13730-13900. Acidize perfs with 20000 gal 20% HCl acid. Packer to be set @ 13700 wi 9.3# N80 or 2%" 8.7# N80 tubing from 0-13700. See attached proposed WBD. C-108 approved: SWD-1294.	th 3½"				
Drill Devonian SWD well. Wells disposing into the SWD will be Cimarex operated Paddock/Blinebry wells in the Injection interval will be 13730-13900. Acidize perfs with 20000 gal 20% HCl acid. Packer to be set @ 13700 wi 9.3# N80 or 2%" 8.7# N80 tubing from 0-13700. See attached proposed WBD. C-108 approved: SWD-1294 A ²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief 1 further certify that the drilling pit will be constructed according to NMOCD guidelines], a general permit], or an (attached) alternative OCD-approved plan]. Signature: Watab Wata Title	th 3½"				
Drill Devonian SWD well. Wells disposing into the SWD will be Cimarex operated Paddock/Blinebry wells in the Injection interval will be 13730-13900. Acidize perfs with 20000 gal 20% HCl acid. Packer to be set @ 13700 wi 9.3# N80 or 2%" 8.7# N80 tubing from 0-13700. See attached proposed WBD. C-108 approved: SWD-1294. • A 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: Watalie Krueger Printed name: Natalie Krueger	th 3½"				
Drill Devonian SWD well. Wells disposing into the SWD will be Cimarex operated Paddock/Blinebry wells in the Injection interval will be 13730-13900. Acidize perfs with 20000 gal 20% HCl acid. Packer to be set @ 13700 wi 9.3# N80 or 2%" 8.7# N80 tubing from 0-13700. See attached proposed WBD. C-108 approved: SWD-1294. • A ²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief 1 further certify that the drilling pit will be constructed according to NMOCD guidelines], a general permit], or an (attached) alternative OCD-approved plan]. Signature: Watab MMC	th 3½"				

.

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210 DISTRICT III

1000 Rio Brazos Rd., Axtec, NM 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy, Minerals and Natural Resources Department

□ AMENDED REPORT

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe. New Mexico 87505

Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name Silurian Pool Code API Number a 4022 866 7 30-025-! Devonian SWD Wildcat รามก Property Code 38726 **Property** Name Well Number JG STATE SWD 1 OGRID No. **Operator** Name Elevation 162683 4055 CIMAREX ENERGY CO. OF COLORADO Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County F 17 S 32 E 1695 NORTH 1343 WEST 16 LEA 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 or Infill **Consolidation** Code Order No. SWD-1294•A 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 **OPERATOR CERTIFICATION** I hereby certify that the information contained herein is true and complete to the best of my knowledge and beitef, 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 herelofore entered by the division. 695 8/4/2011 h<u>fa</u> SURFACE LOCATION Lat - N 32'50'14.07" Long - W 103'46'32.43" 1343'-Signature Date S.L. NMSPCE- N 668773.5 E 712617.2 Natalie Krueger (NAD-83) Printed Name 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 supervison, and that the same is true and correct to the best of my belief. 2010 MA WEXICO Date Surve Signature S Profession W. 6 Certificate No. Gary Jones 7977 Τ. BASIN SURVEYS



Ryan Braxton

.

Engineer:

DRILLING PROGNOSIS Cimarex Energy Company

4/25/2011

Well:	JG SWD	Lse Serial #	
Location:	Sec 16, T17S, R32E	Field:	Loco Hills
County, State	Lea County, NM	Objective:	Wolfcamp/Cisco
Surface Location:	1800 FNL, 1400 FWL	TVD/MD:	14100
Bottomhole Loc:		Cementing	: Hallıburton
E-Mail:		Mud:	Baroid
Wellhead:	SEC A: 11" 5M x 9-5/8" SOW	Motors:	
	SEC B: 11" 5M X 7-1/16" 10M	OH Logs	Halliburton
		Rig:	Cactus
Xmas Tree	2 9/16 3M	Offset Wells	
Tubing:	2-7/8"		
Superintendent:	Jim Evans		

Hole Size	Formation Tops Other Logs		Mud Weight
17-1/2"	13-3/8", 48#, H40, ST&C @ 800'	20 bbl FW spacer Lead: 350 sx Econocem + 4% Bentonite + 2% CaCl2 , Mixed at 13.5 ppg, 1.75 cuft/sx, 9.16 gal/sx fresh, water Tail: 250 sx Class C + 1% CaCl2 + 0 125 pps LCM Mixed at 14.8 ppg, 1 34 cuft/sx, 6 33 gal/sx TOT @ 500 TOC @ surface 50% excess	8.4 - 8 6 PPG fresh water spud mud
12-1/4"	Yates @ 2080 Seven Rivers @ 2420' Queen @ 3020' San Andres @ 3770' 9-5/8", 40#, N80, LTC @ 4600'	10 bbl FW spacer Lead: 1100 sks 12.9 ppg Econocem w/ 5% salt, 5 lb gitsonite, 9.32 gal/sk water, 1 85 yield Taill: 350 sks C w/ 1% CaCl2, 6 36 gal/sak, 1 34 yield TOC @ surface, TOT @ 3800' (75% excess)	Drill with 10 0 ppg brine water to eliminate leeching of salt sections
8-3/4"	Giorieta @ 5260' Paddock @ 5310' Blinebry @ 6015' Tubb @ 6800' DVTool @ 7700' or where needed Abo @ 7500' Wolfcamp @ 9350' Cisco @ 10050' Strawn @ 11500' Atoka @ 11890' Morrow @ 12274' Missisippian @ 12550' Woodford @ 13600' Devonian @ 13730' -1800' 5-1/2'', 20#, L80, BTC - 8200' 5-1/2'', 17# L80, BTC - 3700' 5-1/2'', 20# L80, BTC (on bottom)	Spacer.10bbls FW + 24bbls superflush 101 + 10bbls FW, STAGE ONE: Lead: 400 SKS EconoCem - H + 0.2 % HR-601 2 44 11.9pp 2.44yield Tail:1000 SKS Versacem - H + 0.5% Halad(R)-344 + 0.4% CFR-3 + 1 bm/sk salt + 0.1% HR-601 14 5ppg 1 22 yield STAGE TWO: 900 SKS EconoCem - H + 0.2 % HR-601 2.44 11 9ppg 2.44yield TOC @ surface', TOT @ 10000' (25% excess)	9-10 ppg brine

NOTES:

Cement volumes for surface csg include a 50% excess in the open hole section If drilling conditions deem necessary, fluid caliper hole and adjust volumes.

Cement volumes for intermediate csg include a 50% excess in the open hole section. If drilling conditions deem necessary, fluid caliper hole and adjust volumes.

Cement volumes for production csg include a 25% excess in the open hole section Adjust volumes after caliper + 25% excess. ALL INVOICES ARE TO SHOW <u>CIMAREX ENERGY</u> AS OPERATOR AND USE CIMAREX ACCOUNTING CODES. Directions: