

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

CONFIDENTIAL

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. of Colorado 600 N. Marienfeld Street, Suite 600 Midland, TX 79701		² OGRID Number 162683
		³ Reason for Filing Code/ Effective Date NW - 8/18/14
⁴ API Number 30 -015 - 39355	⁵ Pool Name Wolfcamp Sage Draw, East	⁶ Pool Code 96890
⁷ Property Code 38769	⁸ Property Name Hayduke 34 Federal Com	⁹ Well Number 3H

II. ¹⁰ Surface Location

Ul or lot no. I	Section 34	Township 25S	Range 26E	Lot Idn	Feet from the 1880	North/South Line South	Feet from the 200	East/West line East	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. L	Section 34	Township 25S	Range 26E	Lot Idn	Feet from the 664	North/South line South	Feet from the 752	East/West line West	County Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 8/23/14	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
21778	Sunoco Inc. R & M P O Box 2039; Tulsa OK	
226737	DCP Midstream. 370 17th St., Ste 2500 Denver, CO 80202	
OIL CONSERVATION ARTESIA DISTRICT NOV 21 2014 RECEIVED		

IV. Well Completion Data

²¹ Spud Date 6/6/14	²² Ready Date 8/18/14	²³ TD 16105	²⁴ PBTD 16008	²⁵ Perforations 9629-16000	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	475	510		
12 1/4"	9 5/8"	3700	1585		
8 3/4"	7	9815	845		
6	4 1/2"	16100	690 TOC @ 0		

V. Well Test Data

³¹ Date New Oil 8/24/14	³² Gas Delivery Date 8/19/14	³³ Test Date 8/27/14	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 2700
³⁷ Choke Size 19/64	³⁸ Oil 81	³⁹ Water 1305	⁴⁰ Gas 1568	⁴¹ Test Method	

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Aricka Easterling</i>		OIL CONSERVATION DIVISION Approved by: <i>RDade</i> Title: <i>Dist J Spencer</i> Approval Date: <i>12/18/14</i>	
Printed name: Aricka Easterling			
Title: Regulatory Analyst			
E-mail Address: aeasterling@cimarex.com			
Date: 11/20/14	Phone: 918-560-7060		

Pending BLM approvals will
subsequently be reviewed
and scanned

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Cimarex Hayduke 34 Federal Com #3H XEM+MWD 0ft to Update Survey Report (Non-Def Survey)



Report Date:	July 10, 2014 - 10:04 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	186.330 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Hayduke 34 Federal Com #3H / Hayduke 34 Federal Com #3H	TVD Reference Datum:	RKB
Well:	Hayduke 34 Federal Com #3H	TVD Reference Elevation:	3382.000 ft above
Borehole:	Original Borehole	Seabed / Ground Elevation:	3364.000 ft above
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.691 °
Survey Name:	Cimarex Hayduke 34 Federal Com #3H XEM+MWD 0ft to Update	Total Gravity Field Strength:	998.4255mgn (9.80665 Based)
Survey Date:	June 07, 2014	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	222.295 ° / 7341.029 ft / 6.436 / 0.762	Total Magnetic Field Strength:	48114.762 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.850 °
Location Lat / Long:	N 32° 5' 3.11560", W 104° 16' 22.54780"	Declination Date:	June 07, 2014
Location Grid N/E Y/X:	N 394373.800 ftUS, E 560044.700 ftUS	Magnetic Declination Model:	BGGM 2014
CRS Grid Convergence Angle:	0.0321 °	North Reference:	Grid North
Grid Scale Factor:	0.99990949	Grid Convergence Used:	0.0321 °
Version / Patch:	2.7.1043.0	Total Corr Mag North->Grid North:	7.6589 °

Local Coord Referenced To: Structure Reference Point

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 21 2014
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Provide signature page for directional survey

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Hayduke 34 Fed Com #3H	0.00	0.00	300.00	0.00	-3382.00	0.00	N/A	0.00	0.00	394373.80	560044.70	N 32 5 3.12	W 104 16 22.55
	152.00	0.40	342.72	152.00	-3230.00	-0.49	0.26	0.51	-0.16	394374.31	560044.54	N 32 5 3.12	W 104 16 22.55
	181.00	0.40	319.21	181.00	-3201.00	-0.65	0.56	0.68	-0.25	394374.48	560044.45	N 32 5 3.12	W 104 16 22.55
	211.00	0.31	304.18	211.00	-3171.00	-0.76	0.43	0.80	-0.39	394374.60	560044.31	N 32 5 3.12	W 104 16 22.55
	238.00	0.31	353.09	238.00	-3144.00	-0.86	0.95	0.92	-0.46	394374.72	560044.24	N 32 5 3.12	W 104 16 22.55
	263.00	0.48	346.59	263.00	-3119.00	-1.03	0.70	1.09	-0.49	394374.89	560044.21	N 32 5 3.13	W 104 16 22.55
	408.00	0.48	347.60	407.99	-2974.01	-2.17	0.01	2.27	-0.76	394376.07	560043.94	N 32 5 3.14	W 104 16 22.56
	441.00	0.40	145.40	440.99	-2941.01	-2.22	2.62	2.31	-0.73	394376.11	560043.97	N 32 5 3.14	W 104 16 22.56
	478.00	0.31	350.32	477.99	-2904.01	-2.22	1.87	2.30	-0.67	394376.10	560044.03	N 32 5 3.14	W 104 16 22.56
	508.00	0.31	338.81	507.99	-2874.01	-2.37	0.21	2.46	-0.71	394376.26	560043.99	N 32 5 3.14	W 104 16 22.56
	536.00	0.40	333.40	535.99	-2846.01	-2.52	0.34	2.62	-0.78	394376.42	560043.92	N 32 5 3.14	W 104 16 22.56
	590.00	0.40	316.88	589.99	-2792.01	-2.80	0.21	2.92	-1.00	394376.72	560043.70	N 32 5 3.14	W 104 16 22.56
	624.00	0.48	317.32	623.99	-2758.01	-2.97	0.24	3.12	-1.18	394376.91	560043.53	N 32 5 3.15	W 104 16 22.56
	674.00	0.40	308.18	673.99	-2708.01	-3.20	0.21	3.38	-1.45	394377.18	560043.25	N 32 5 3.15	W 104 16 22.56
	750.00	0.48	313.98	749.98	-2632.02	-3.53	0.12	3.76	-1.89	394377.56	560042.81	N 32 5 3.15	W 104 16 22.57
	839.00	0.48	280.32	838.98	-2543.02	-3.78	0.31	4.09	-2.53	394377.89	560042.17	N 32 5 3.16	W 104 16 22.58
	908.00	0.40	280.58	907.98	-2474.02	-3.82	0.12	4.18	-3.05	394377.98	560041.65	N 32 5 3.16	W 104 16 22.58
	994.00	0.48	296.09	993.98	-2388.02	-3.97	0.17	4.40	-3.67	394378.20	560041.03	N 32 5 3.16	W 104 16 22.59
	1117.00	0.40	299.30	1116.97	-2265.03	-4.31	0.07	4.83	-4.50	394378.63	560040.20	N 32 5 3.16	W 104 16 22.60
	1204.00	0.09	286.51	1203.97	-2178.03	-4.44	0.36	5.00	-4.83	394378.80	560039.87	N 32 5 3.17	W 104 16 22.60
	1295.00	0.31	98.21	1294.97	-2087.03	-4.44	0.44	4.99	-4.66	394378.79	560040.04	N 32 5 3.16	W 104 16 22.60
	1366.00	0.31	55.19	1365.97	-2016.03	-4.56	0.32	5.07	-4.31	394378.87	560040.39	N 32 5 3.17	W 104 16 22.60
	1390.00	0.31	71.31	1389.97	-1992.03	-4.63	0.36	5.13	-4.20	394378.93	560040.50	N 32 5 3.17	W 104 16 22.60
	1483.00	0.62	89.59	1482.97	-1899.03	-4.80	0.37	5.21	-3.45	394379.01	560041.25	N 32 5 3.17	W 104 16 22.59
	1578.00	1.19	98.21	1577.95	-1804.05	-4.83	0.62	5.07	-1.96	394378.87	560042.74	N 32 5 3.17	W 104 16 22.57

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")		Longitude (E/W ° ' ")
	1672.00	1.71	94.12	1671.92	-1710.08	-4.85	0.56	4.83	0.40	394378.63	560045.10	N	32 5 3.16	W 104 16 22.54
	1767.00	0.79	57.60	1766.90	-1615.10	-5.31	1.24	5.08	2.37	394378.88	560047.07	N	32 5 3.17	W 104 16 22.52
	1860.00	0.31	6.58	1859.90	-1522.10	-5.97	0.69	5.68	2.94	394379.48	560047.64	N	32 5 3.17	W 104 16 22.51
	1954.00	0.40	355.60	1953.90	-1428.10	-6.54	0.12	6.26	2.94	394380.06	560047.64	N	32 5 3.18	W 104 16 22.51
	2048.00	0.40	348.30	2047.89	-1334.11	-7.18	0.05	6.90	2.85	394380.70	560047.55	N	32 5 3.18	W 104 16 22.51
	2143.00	0.48	355.90	2142.89	-1239.11	-7.88	0.10	7.63	2.75	394381.43	560047.45	N	32 5 3.19	W 104 16 22.52
	2237.00	0.48	353.49	2236.89	-1145.11	-8.65	0.02	8.41	2.68	394382.21	560047.38	N	32 5 3.20	W 104 16 22.52
	2331.00	0.62	353.00	2330.88	-1051.12	-9.53	0.15	9.31	2.57	394383.11	560047.27	N	32 5 3.21	W 104 16 22.52
	2425.00	0.40	322.81	2424.88	-957.12	-10.27	0.36	10.07	2.31	394383.87	560047.01	N	32 5 3.22	W 104 16 22.52
	2519.00	0.48	297.10	2518.88	-863.12	-10.64	0.22	10.51	1.77	394384.31	560046.67	N	32 5 3.22	W 104 16 22.53
	2614.00	0.79	288.10	2613.87	-768.13	-10.92	0.34	10.90	0.79	394384.70	560045.49	N	32 5 3.22	W 104 16 22.54
	2708.00	0.79	285.90	2707.86	-674.14	-11.16	0.03	11.28	-0.45	394385.08	560044.25	N	32 5 3.23	W 104 16 22.55
	2803.00	0.79	282.38	2802.85	-579.15	-11.34	0.05	11.60	-1.72	394385.40	560042.98	N	32 5 3.23	W 104 16 22.57
	2898.00	1.01	276.01	2897.84	-484.16	-11.40	0.25	11.82	-3.19	394385.62	560041.51	N	32 5 3.23	W 104 16 22.58
	2993.00	1.41	277.02	2992.82	-389.18	-11.41	0.42	12.06	-5.19	394385.85	560039.52	N	32 5 3.23	W 104 16 22.61
	3088.00	4.09	279.61	3087.70	-294.30	-11.62	2.82	12.76	-9.69	394386.56	560035.01	N	32 5 3.24	W 104 16 22.66
	3184.00	4.31	277.81	3183.44	-198.56	-11.91	0.27	13.83	-16.64	394387.62	560028.07	N	32 5 3.25	W 104 16 22.74
	3278.00	5.80	287.48	3277.08	-104.92	-12.92	1.82	15.73	-24.67	394389.53	560020.04	N	32 5 3.27	W 104 16 22.83
	3372.00	6.42	293.72	3370.54	-11.46	-15.41	0.97	19.27	-34.01	394393.07	560010.70	N	32 5 3.31	W 104 16 22.94
	3467.00	6.02	292.62	3464.98	82.98	-18.39	0.44	23.33	-43.47	394397.12	560001.24	N	32 5 3.35	W 104 16 23.05
	3561.00	6.02	291.48	3558.47	176.47	-21.06	0.13	27.03	-52.61	394400.82	559992.10	N	32 5 3.38	W 104 16 23.16
	3655.00	5.80	289.59	3651.97	269.97	-23.44	0.31	30.42	-61.67	394404.22	559983.04	N	32 5 3.42	W 104 16 23.26
	3843.00	6.90	301.41	3838.82	456.82	-30.41	0.91	39.49	-80.26	394413.29	559964.45	N	32 5 3.51	W 104 16 23.48
	3937.00	6.28	303.61	3932.20	550.20	-35.16	0.71	45.28	-89.36	394419.08	559955.35	N	32 5 3.56	W 104 16 23.59
	4031.00	5.80	302.20	4025.68	643.68	-39.58	0.53	50.66	-97.66	394424.46	559947.05	N	32 5 3.62	W 104 16 23.68
	4126.00	5.41	301.10	4120.22	738.22	-43.56	0.43	55.53	-105.55	394429.33	559939.16	N	32 5 3.67	W 104 16 23.77
	4222.00	4.92	300.00	4215.83	833.83	-47.10	0.52	59.93	-112.99	394433.72	559931.72	N	32 5 3.71	W 104 16 23.86
	4317.00	5.58	296.88	4310.43	928.43	-50.36	0.76	64.05	-120.64	394437.85	559924.07	N	32 5 3.75	W 104 16 23.95
	4413.00	5.58	294.51	4405.98	1023.98	-53.46	0.24	68.10	-129.05	394441.89	559915.66	N	32 5 3.79	W 104 16 24.05
	4507.00	5.32	295.21	4499.55	1117.55	-56.29	0.29	71.85	-137.15	394445.64	559907.56	N	32 5 3.83	W 104 16 24.14
	4602.00	5.89	297.10	4594.10	1212.10	-59.45	0.63	75.95	-145.48	394449.74	559899.24	N	32 5 3.87	W 104 16 24.24
	4698.00	6.59	298.11	4689.53	1307.53	-63.24	0.74	80.79	-154.72	394454.58	559889.99	N	32 5 3.92	W 104 16 24.35
	4792.00	6.59	298.69	4782.91	1400.91	-67.29	0.07	85.92	-164.21	394459.71	559880.50	N	32 5 3.97	W 104 16 24.46
	4887.00	6.28	297.72	4877.31	1495.31	-71.26	0.35	90.95	-173.59	394464.74	559871.12	N	32 5 4.02	W 104 16 24.56
	4983.00	6.28	298.69	4972.73	1590.73	-75.17	0.11	95.91	-182.85	394469.71	559861.87	N	32 5 4.07	W 104 16 24.67
	5077.00	6.28	300.18	5066.17	1684.17	-79.21	0.17	100.97	-191.80	394474.76	559852.92	N	32 5 4.12	W 104 16 24.78
	5172.00	6.02	300.09	5160.62	1778.62	-83.31	0.27	106.08	-200.60	394479.87	559844.12	N	32 5 4.17	W 104 16 24.88
	5265.00	5.89	301.19	5253.12	1871.12	-87.28	0.19	110.99	-208.90	394484.78	559835.82	N	32 5 4.22	W 104 16 24.98
	5360.00	5.49	301.41	5347.65	1965.65	-91.26	0.42	115.89	-216.95	394489.68	559827.77	N	32 5 4.26	W 104 16 25.07
	5455.00	5.01	297.98	5442.25	2060.25	-94.72	0.60	120.20	-224.49	394493.99	559820.23	N	32 5 4.31	W 104 16 25.16
	5551.00	5.01	294.82	5537.89	2155.89	-97.59	0.29	123.93	-232.00	394497.72	559812.72	N	32 5 4.34	W 104 16 25.24
	5646.00	4.61	293.81	5632.55	2250.55	-100.05	0.43	127.21	-239.26	394501.00	559805.46	N	32 5 4.38	W 104 16 25.33
	5739.00	4.31	298.69	5725.27	2343.27	-102.51	0.52	130.40	-245.74	394504.18	559798.98	N	32 5 4.41	W 104 16 25.40
	5834.00	4.79	303.21	5819.97	2437.97	-105.66	0.63	134.28	-252.19	394508.07	559792.53	N	32 5 4.45	W 104 16 25.48
	5930.00	4.79	294.99	5915.64	2533.64	-108.75	0.71	138.17	-259.18	394511.96	559785.54	N	32 5 4.48	W 104 16 25.56
	6024.00	5.19	294.20	6009.28	2627.28	-111.31	0.43	141.57	-266.62	394515.36	559778.11	N	32 5 4.52	W 104 16 25.65
	6118.00	5.58	293.19	6102.87	2720.87	-113.94	0.43	145.11	-274.69	394518.90	559770.03	N	32 5 4.55	W 104 16 25.74
	6211.00	6.90	295.21	6195.31	2813.31	-117.06	1.44	149.27	-283.90	394523.06	559760.82	N	32 5 4.59	W 104 16 25.85
	6300.00	7.38	299.21	6283.62	2901.62	-121.01	0.78	154.34	-293.73	394528.13	559751.00	N	32 5 4.64	W 104 16 25.96
	6394.00	7.12	301.02	6376.87	2994.87	-125.80	0.37	160.29	-303.99	394534.07	559740.74	N	32 5 4.70	W 104 16 26.08
	6486.00	7.38	298.11	6468.14	3086.14	-130.37	0.49	166.01	-314.09	394539.80	559730.64	N	32 5 4.76	W 104 16 26.20
	6582.00	7.60	302.20	6563.32	3181.32	-135.43	0.60	172.30	-324.90	394546.08	559719.83	N	32 5 4.82	W 104 16 26.32
	6676.00	7.60	301.98	6656.49	3274.49	-140.83	0.03	178.90	-335.43	394552.69	559709.30	N	32 5 4.89	W 104 16 26.45

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6770.00	7.69	299.78	6749.66	3367.66	-146.02	0.33	185.32	-346.16	394559.10	559698.57	N 32 5 4.95	W 104 16 26.57
	6865.00	7.21	298.29	6843.85	3461.85	-150.78	0.54	191.30	-356.93	394565.08	559687.80	N 32 5 5.01	W 104 16 26.70
	6960.00	7.12	301.41	6938.11	3556.11	-155.51	0.42	197.20	-367.21	394570.98	559677.53	N 32 5 5.07	W 104 16 26.81
	7054.00	6.68	299.78	7031.43	3649.43	-160.15	0.51	202.95	-376.92	394576.73	559667.81	N 32 5 5.13	W 104 16 26.93
	7148.00	6.81	299.70	7124.78	3742.78	-164.54	0.14	208.42	-386.51	394582.20	559658.23	N 32 5 5.18	W 104 16 27.04
	7242.00	6.59	297.72	7218.14	3836.14	-168.72	0.34	213.69	-396.12	394587.47	559648.61	N 32 5 5.23	W 104 16 27.15
	7337.00	6.11	295.92	7312.56	3930.56	-172.40	0.55	218.44	-405.50	394592.22	559639.24	N 32 5 5.28	W 104 16 27.26
	7432.00	5.10	289.90	7407.10	4025.10	-175.09	1.23	222.09	-414.02	394595.87	559630.72	N 32 5 5.32	W 104 16 27.36
	7525.00	6.68	293.72	7499.61	4117.61	-177.67	1.75	225.67	-422.86	394599.45	559621.88	N 32 5 5.35	W 104 16 27.46
	7618.00	6.11	296.09	7592.03	4210.03	-180.96	0.68	230.02	-432.25	394603.80	559612.49	N 32 5 5.39	W 104 16 27.57
	7713.00	5.58	287.70	7686.54	4304.54	-183.58	1.06	233.65	-441.19	394607.43	559603.55	N 32 5 5.43	W 104 16 27.67
	7807.00	6.11	284.89	7780.05	4398.05	-185.23	0.64	236.33	-450.38	394610.10	559594.36	N 32 5 5.46	W 104 16 27.78
	7902.00	5.89	280.01	7874.53	4492.53	-186.29	0.58	238.47	-460.07	394612.25	559584.67	N 32 5 5.48	W 104 16 27.89
	7998.00	5.89	284.89	7970.02	4588.02	-187.34	0.52	240.59	-469.68	394614.37	559575.06	N 32 5 5.50	W 104 16 28.01
	8091.00	6.20	291.00	8062.51	4680.51	-189.33	0.77	243.62	-478.98	394617.40	559565.77	N 32 5 5.53	W 104 16 28.11
	8186.00	6.50	292.01	8156.92	4774.92	-192.08	0.34	247.47	-488.75	394621.25	559555.99	N 32 5 5.57	W 104 16 28.23
	8280.00	6.02	287.48	8250.36	4868.36	-194.47	0.73	250.95	-498.39	394624.72	559546.36	N 32 5 5.60	W 104 16 28.34
	8377.00	5.80	284.18	8346.85	4964.85	-196.12	0.42	253.68	-507.99	394627.45	559536.76	N 32 5 5.63	W 104 16 28.45
	8470.00	5.80	281.81	8439.37	5057.37	-197.21	0.26	255.79	-517.15	394629.57	559527.60	N 32 5 5.65	W 104 16 28.56
	8565.00	5.58	278.60	8533.90	5151.90	-197.85	0.41	257.46	-526.41	394631.24	559518.34	N 32 5 5.67	W 104 16 28.66
	8660.00	5.41	276.58	8628.47	5246.47	-198.06	0.27	258.67	-535.43	394632.44	559509.32	N 32 5 5.68	W 104 16 28.77
	8754.00	5.01	272.19	8722.08	5340.08	-197.78	0.60	259.33	-543.93	394633.11	559500.82	N 32 5 5.68	W 104 16 28.87
	8847.00	4.79	271.88	8814.74	5432.74	-197.19	0.24	259.61	-551.87	394633.39	559492.88	N 32 5 5.69	W 104 16 28.96
	8940.00	4.61	269.99	8907.43	5525.43	-196.47	0.26	259.74	-559.49	394633.52	559485.26	N 32 5 5.69	W 104 16 29.05
	9034.00	4.22	268.10	9001.15	5619.15	-195.56	0.44	259.63	-566.72	394633.40	559478.03	N 32 5 5.69	W 104 16 29.13
Last XEM Survey	9114.00	4.00	264.41	9080.94	5698.94	-194.56	0.43	259.26	-572.44	394633.03	559472.31	N 32 5 5.68	W 104 16 29.20
First Pathfinder MWD Survey	9158.00	4.05	258.68	9124.83	5742.83	-193.77	0.92	258.80	-575.49	394632.58	559469.26	N 32 5 5.68	W 104 16 29.24
	9188.00	6.80	254.89	9154.70	5772.70	-192.80	9.24	258.13	-578.25	394631.91	559466.51	N 32 5 5.67	W 104 16 29.27
	9221.00	11.24	247.02	9187.28	5805.28	-190.51	13.93	256.36	-583.10	394630.14	559461.66	N 32 5 5.66	W 104 16 29.32
	9252.00	15.72	242.89	9217.42	5835.42	-186.72	14.77	253.27	-589.62	394627.05	559455.14	N 32 5 5.63	W 104 16 29.40
	9281.00	20.23	239.76	9245.00	5863.00	-181.56	15.90	248.95	-597.45	394622.73	559447.30	N 32 5 5.68	W 104 16 29.49
	9315.00	24.45	236.50	9276.44	5894.44	-173.55	12.93	242.10	-608.40	394615.88	559436.35	N 32 5 5.51	W 104 16 29.62
	9346.00	27.56	232.39	9304.30	5922.30	-164.46	11.59	234.18	-619.44	394607.96	559425.32	N 32 5 5.44	W 104 16 29.75
	9376.00	29.88	227.65	9330.61	5948.61	-154.03	10.83	224.91	-630.46	394598.69	559414.30	N 32 5 5.34	W 104 16 29.87
	9409.00	31.62	220.19	9358.98	5976.98	-140.67	12.69	212.76	-642.12	394586.54	559402.64	N 32 5 5.22	W 104 16 30.01
	9440.00	34.49	213.80	9384.97	6002.97	-126.12	14.55	199.25	-652.26	394573.03	559392.50	N 32 5 5.09	W 104 16 30.13
	9470.00	37.17	207.74	9409.30	6027.30	-110.14	14.81	184.17	-661.20	394557.95	559383.56	N 32 5 4.94	W 104 16 30.23
	9503.00	40.02	205.67	9435.09	6053.09	-90.84	9.48	165.77	-670.44	394539.56	559374.32	N 32 5 4.76	W 104 16 30.34
	9564.00	47.40	199.36	9479.17	6097.17	-50.39	14.04	126.84	-686.41	394500.63	559358.35	N 32 5 4.37	W 104 16 30.53
	9597.00	52.09	195.77	9500.49	6118.49	-25.70	16.46	102.84	-693.98	394476.63	559350.78	N 32 5 4.14	W 104 16 30.61
	9629.00	56.39	193.05	9519.19	6137.19	0.00	15.10	77.69	-700.43	394451.49	559344.34	N 32 5 3.89	W 104 16 30.69
	9658.00	59.57	189.34	9534.57	6152.57	24.50	15.42	53.58	-705.18	394427.38	559339.58	N 32 5 3.65	W 104 16 30.74
	9692.00	61.89	185.15	9551.20	6169.20	54.14	12.73	24.17	-708.91	394397.97	559335.86	N 32 5 3.36	W 104 16 30.79
	9723.00	64.32	181.66	9565.22	6183.22	81.74	12.74	-3.42	-710.54	394370.38	559334.22	N 32 5 3.09	W 104 16 30.81
	9756.00	67.62	179.18	9578.66	6196.66	111.71	12.13	-33.55	-710.75	394340.25	559334.01	N 32 5 2.79	W 104 16 30.81
	9844.00	76.48	177.78	9605.76	6223.76	194.56	10.18	-117.15	-708.51	394256.66	559336.25	N 32 5 1.96	W 104 16 30.78
	9875.00	78.77	177.83	9612.40	6230.40	224.50	7.39	-147.41	-707.35	394226.40	559337.41	N 32 5 1.66	W 104 16 30.77
	9906.00	80.75	177.99	9617.91	6235.91	254.68	6.41	-177.89	-706.24	394195.92	559338.53	N 32 5 1.36	W 104 16 30.76
	9938.00	82.79	178.30	9622.49	6240.49	286.02	6.45	-209.55	-705.21	394164.27	559339.55	N 32 5 1.05	W 104 16 30.75
	10032.00	87.01	178.40	9630.85	6248.85	378.72	4.49	-303.11	-702.52	394070.71	559342.25	N 32 5 0.12	W 104 16 30.72
	10131.00	87.93	178.92	9635.22	6253.22	476.74	1.07	-401.99	-700.21	393971.85	559344.56	N 32 4 59.14	W 104 16 30.69

CONFIDENTIAL

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	10226.00	89.41	178.85	9637.42	6255.42	570.91	1.56	-496.94	-698.36	393876.90	559346.41	N 32 4 58.20	W 104 16 30.67
	10322.00	89.14	178.50	9638.64	6256.64	666.05	0.46	-592.91	-696.14	393780.94	559348.63	N 32 4 57.25	W 104 16 30.64
	10418.00	90.93	179.18	9638.58	6256.58	781.22	1.99	-688.89	-694.20	393684.98	559350.57	N 32 4 56.30	W 104 16 30.62
	10513.00	89.07	178.22	9638.58	6256.58	855.38	2.20	-783.86	-692.04	393590.02	559352.72	N 32 4 55.36	W 104 16 30.60
	10609.00	90.34	178.36	9639.07	6257.07	950.43	1.33	-879.81	-689.18	393494.07	559355.59	N 32 4 54.41	W 104 16 30.56
	10705.00	90.45	178.30	9638.41	6256.41	1045.49	0.13	-975.77	-686.38	393398.12	559358.39	N 32 4 53.46	W 104 16 30.53
	10801.00	90.72	178.68	9637.43	6255.43	1140.59	0.49	-1071.73	-683.85	393302.17	559360.92	N 32 4 52.51	W 104 16 30.50
	10897.00	90.34	178.63	9636.54	6254.54	1235.73	0.40	-1167.70	-681.59	393206.21	559363.17	N 32 4 51.56	W 104 16 30.48
	10992.00	90.58	178.03	9635.78	6253.78	1329.80	0.68	-1262.65	-678.83	393111.26	559365.94	N 32 4 50.62	W 104 16 30.45
	11088.00	89.90	178.19	9635.38	6253.38	1424.81	0.73	-1358.60	-675.66	393015.33	559369.10	N 32 4 49.68	W 104 16 30.41
	11183.00	89.62	177.30	9635.77	6253.77	1518.75	0.98	-1453.52	-671.92	392920.41	559372.84	N 32 4 48.74	W 104 16 30.37
	11279.00	89.76	179.44	9636.29	6254.29	1613.81	2.23	-1549.48	-669.19	392824.46	559375.57	N 32 4 47.79	W 104 16 30.34
	11374.00	90.21	180.07	9636.32	6254.32	1708.19	0.81	-1644.48	-668.79	392729.47	559375.98	N 32 4 46.85	W 104 16 30.33
	11470.00	92.13	180.20	9634.36	6252.36	1803.60	2.00	-1740.45	-669.01	392633.51	559375.75	N 32 4 45.90	W 104 16 30.33
	11565.00	89.52	179.49	9632.99	6250.99	1897.98	2.85	-1835.43	-668.75	392538.54	559376.01	N 32 4 44.96	W 104 16 30.33
	11662.00	89.48	182.86	9633.84	6251.84	1994.57	3.47	-1932.40	-670.74	392441.58	559374.02	N 32 4 44.00	W 104 16 30.36
	11758.00	89.76	181.60	9634.47	6252.47	2090.32	1.34	-2028.32	-674.48	392345.67	559370.28	N 32 4 43.05	W 104 16 30.40
	11854.00	90.03	182.24	9634.65	6252.65	2186.03	0.72	-2124.26	-677.70	392249.73	559367.07	N 32 4 42.10	W 104 16 30.44
	11951.00	90.86	181.69	9633.90	6251.90	2282.75	1.03	-2221.20	-681.02	392152.80	559363.74	N 32 4 41.14	W 104 16 30.48
	12046.00	90.03	179.13	9633.16	6251.16	2377.23	2.83	-2316.19	-681.70	392057.83	559363.06	N 32 4 40.20	W 104 16 30.49
	12142.00	90.38	179.56	9632.81	6250.81	2472.51	0.58	-2412.18	-680.60	391961.84	559364.16	N 32 4 39.25	W 104 16 30.47
	12236.00	90.24	179.79	9632.31	6250.31	2565.88	0.29	-2506.18	-680.07	391867.85	559364.69	N 32 4 38.32	W 104 16 30.47
	12332.00	89.86	179.23	9632.22	6250.22	2661.20	0.70	-2602.17	-679.25	391771.87	559365.51	N 32 4 37.37	W 104 16 30.46
	12427.00	90.24	179.96	9632.14	6250.14	2755.54	0.87	-2697.17	-678.58	391676.88	559366.19	N 32 4 36.43	W 104 16 30.45
	12522.00	89.72	179.83	9632.17	6250.17	2849.94	0.56	-2792.17	-678.40	391581.89	559366.36	N 32 4 35.49	W 104 16 30.45
	12618.00	90.38	180.52	9632.09	6250.09	2945.39	0.99	-2888.17	-678.70	391485.90	559366.07	N 32 4 34.54	W 104 16 30.45
	12713.00	90.28	180.70	9631.54	6249.54	3039.92	0.22	-2983.16	-679.71	391390.91	559365.05	N 32 4 33.60	W 104 16 30.47
	12809.00	90.10	180.74	9631.22	6249.22	3135.46	0.19	-3079.15	-680.91	391294.93	559363.85	N 32 4 32.65	W 104 16 30.48
	12905.00	90.17	180.19	9631.00	6249.00	3230.95	0.58	-3175.15	-681.69	391198.94	559363.07	N 32 4 31.70	W 104 16 30.49
	13001.00	92.41	180.55	9628.84	6246.84	3326.40	2.36	-3271.12	-682.31	391102.99	559362.45	N 32 4 30.75	W 104 16 30.50
	13096.00	92.13	179.58	9625.07	6243.07	3420.76	1.06	-3366.04	-682.42	391008.07	559362.34	N 32 4 29.81	W 104 16 30.50
	13192.00	92.55	181.10	9621.15	6239.15	3516.15	1.64	-3461.96	-682.99	390912.16	559361.77	N 32 4 28.86	W 104 16 30.51
	13288.00	91.79	180.07	9617.52	6235.52	3611.60	1.33	-3557.88	-683.97	390816.25	559360.79	N 32 4 27.91	W 104 16 30.52
	13384.00	91.69	180.03	9614.60	6232.60	3706.98	0.11	-3653.84	-684.05	390720.30	559360.71	N 32 4 26.96	W 104 16 30.52
	13480.00	91.76	179.63	9611.71	6229.71	3802.32	0.42	-3749.79	-683.77	390624.35	559361.00	N 32 4 26.01	W 104 16 30.52
	13575.00	91.62	179.45	9608.91	6226.91	3896.61	0.24	-3844.75	-683.01	390529.41	559361.76	N 32 4 25.07	W 104 16 30.51
	13671.00	90.07	177.78	9607.50	6225.50	3991.73	2.37	-3940.70	-680.69	390433.46	559364.08	N 32 4 24.12	W 104 16 30.48
	13766.00	91.62	181.70	9606.09	6224.09	4086.07	4.44	-4035.67	-680.25	390338.50	559364.51	N 32 4 23.18	W 104 16 30.48
	13862.00	90.55	180.89	9604.28	6222.28	4181.68	1.40	-4131.63	-682.42	390242.56	559362.34	N 32 4 22.24	W 104 16 30.51
	13958.00	88.18	178.88	9605.34	6223.34	4277.05	3.24	-4227.61	-682.23	390146.58	559362.53	N 32 4 21.29	W 104 16 30.50
	14053.00	90.83	182.09	9606.16	6224.16	4371.54	4.38	-4322.58	-683.03	390051.62	559361.73	N 32 4 20.35	W 104 16 30.51
	14149.00	90.28	181.80	9605.23	6223.23	4467.25	0.65	-4418.52	-686.29	389955.69	559358.47	N 32 4 19.40	W 104 16 30.55
	14246.00	90.76	181.45	9604.35	6222.35	4563.92	0.61	-4515.48	-689.04	389858.74	559355.72	N 32 4 18.44	W 104 16 30.58
	14341.00	91.55	181.86	9602.44	6220.44	4658.58	0.94	-4610.42	-691.79	389763.81	559352.98	N 32 4 17.50	W 104 16 30.62
	14437.00	90.79	181.90	9600.48	6218.48	4754.27	0.79	-4706.35	-694.94	389667.89	559349.83	N 32 4 16.55	W 104 16 30.65
	14531.00	91.51	182.24	9598.59	6216.59	4847.99	0.85	-4800.26	-698.33	389573.98	559346.43	N 32 4 15.62	W 104 16 30.69
	14627.00	91.24	181.69	9596.29	6214.29	4943.69	0.64	-4896.18	-701.62	389478.07	559343.14	N 32 4 14.67	W 104 16 30.73
	14722.00	91.62	182.10	9593.92	6211.92	5038.37	0.59	-4991.10	-704.76	389383.16	559340.00	N 32 4 13.73	W 104 16 30.77
	14818.00	91.96	180.64	9590.92	6208.92	5133.96	1.56	-5087.02	-707.06	389287.25	559337.71	N 32 4 12.78	W 104 16 30.80
	14913.00	89.79	179.59	9589.47	6207.47	5228.39	2.54	-5182.00	-707.25	389192.28	559337.52	N 32 4 11.84	W 104 16 30.80
	15009.00	90.79	179.45	9588.98	6206.98	5323.71	1.05	-5278.00	-706.44	389096.29	559338.32	N 32 4 10.89	W 104 16 30.79
	15105.00	90.31	180.16	9588.06	6206.06	5419.08	0.89	-5373.99	-706.11	389000.31	559338.65	N 32 4 9.94	W 104 16 30.79

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	15202.00	91.07	180.64	9586.89	6204.89	5515.55	0.93	-5470.98	-706.79	388903.33	559337.97	N 32 4 8.98	W 104 16 30.80
	15298.00	90.79	179.62	9585.33	6203.33	5610.98	1.10	-5566.97	-707.01	388807.35	559337.76	N 32 4 8.03	W 104 16 30.80
	15394.00	90.48	179.83	9584.27	6202.27	5706.33	0.39	-5662.96	-706.55	388711.37	559338.22	N 32 4 7.08	W 104 16 30.80
	15489.00	90.28	179.10	9583.64	6201.64	5800.65	0.80	-5757.95	-705.66	388616.38	559339.10	N 32 4 6.14	W 104 16 30.79
	15584.00	90.86	180.25	9582.69	6200.69	5895.00	1.36	-5852.94	-705.12	388521.40	559339.64	N 32 4 5.20	W 104 16 30.78
	15680.00	91.34	179.32	9580.85	6198.85	5990.36	1.09	-5948.92	-704.76	388425.43	559340.00	N 32 4 4.25	W 104 16 30.78
	15775.00	90.07	179.99	9579.68	6197.68	6084.71	1.51	-6043.91	-704.19	388330.45	559340.57	N 32 4 3.31	W 104 16 30.77
	15869.00	90.00	179.84	9579.62	6197.62	6178.12	0.18	-6137.91	-704.05	388236.46	559340.71	N 32 4 2.38	W 104 16 30.77
	15965.00	89.00	177.90	9580.46	6198.46	6273.29	2.27	-6233.88	-702.16	388140.49	559342.61	N 32 4 1.43	W 104 16 30.75
Final Survey 10- July-2014	16060.00	91.34	179.63	9580.18	6198.18	6367.46	3.06	-6328.85	-700.11	388045.53	559344.65	N 32 4 0.49	W 104 16 30.72
TD - PTB	16105.00	91.34	179.63	9579.13	6197.13	6412.14	0.00	-6373.84	-699.82	388000.55	559344.94	N 32 4 0.05	W 104 16 30.72

Survey Type: Non-Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	18.000	Act Stns	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Cimarex Hayduke 34 Federal Com #3H
	1	18.000	9114.000	Act Stns	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Hayduke 34 Federal Com #3H
	1	9114.000	16105.000	Act Stns	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Hayduke 34 Federal Com #3H

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**CONFIDENTIAL****SUNDRY NOTICES AND REPORTS ON WELLS****Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**Lease Serial No.
NMNM120887

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
HAYDUKE 34 FED COM 3H9. API Well No.
30-015-3935510. Field and Pool, or Exploratory
WOLFCAMP SAGE DRAW, EAST

11. County or Parish, and State

EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
CIMAREX ENERGY COMPANYContact: ARICKA EASTERLING
E-Mail: aeasterling@cimarex.com3a. Address
202 S. CHEYENNE, SUITE 1000
TULSA, OK 741033b. Phone No. (include area code)
Ph: 918-560-7060

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 34 T25S R26E NESE 1880FSL 200FEL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Completion:

7/30/14 Test Casing to 9000 psi for 30 min. Good Test. TOC at 0'.

8/7/14 to 8/16/14 Perf wolfcamp at 9629 - 16000, 672 holes. Frac with 10,472,028 gal of frac fluid and 8,101,738 # Sand.

8/17/14 Mill out plugs. Wash to plugback TD @ 16008'. Flow well.

8/18/14 Turn well to production.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #280203 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (Printed/Typed) ARICKA EASTERLING

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/18/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Pending BLM approvals will
subsequently be reviewed
and scanned**

Department or agency of the United

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****