

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

DISTRICT II
1301 W. Grand Avenue, 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 and Natural Resources Department

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37496 ✓	Pool Code 97882	Pool Name Wolfcamp Wildcat 9262616A, WOLF CAMP (GAS)
Property Code 37991 ✓	Property Name JUMPING SPRING "16" STATE COM	Well Number ✓ 1
OGRID No. 162683 ✓	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3390'

Surface Location

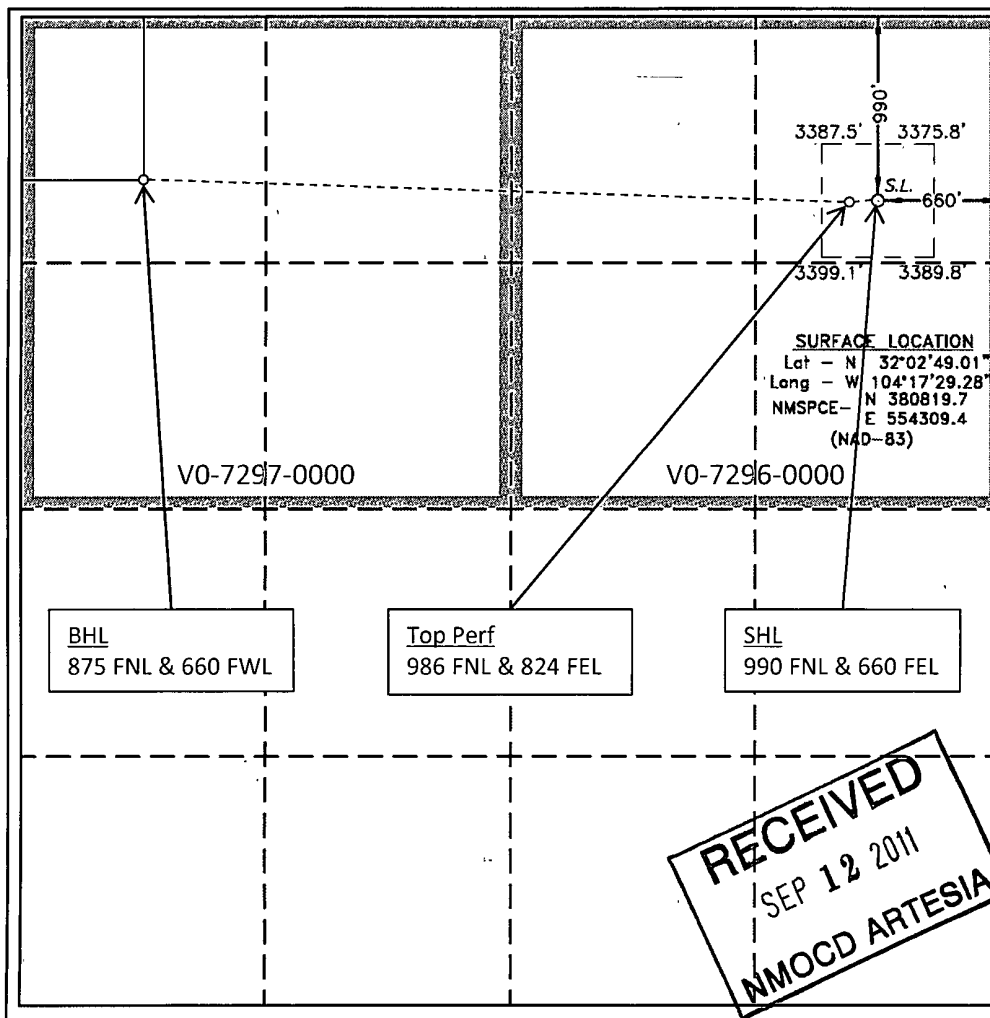
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	26 S	26 E		990	NORTH	660	EAST	EDDY

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
D	16	26 S	26 E		875	NORTH	660	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code P	Order No.
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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 belief, 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 heretofore entered by the division.

Natalie Krueger 9/6/2011
Signature Date
Natalie Krueger
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 supervision, and that the same is true and correct to the best of my belief.

DECEMBER 30, 2009
Date Surveyed
Signature of Surveyor
Professional Surveyor

7977
Certificate No. Gary L. Jones 7977

BASIN SURVEYS

CIMAREX ENERGY

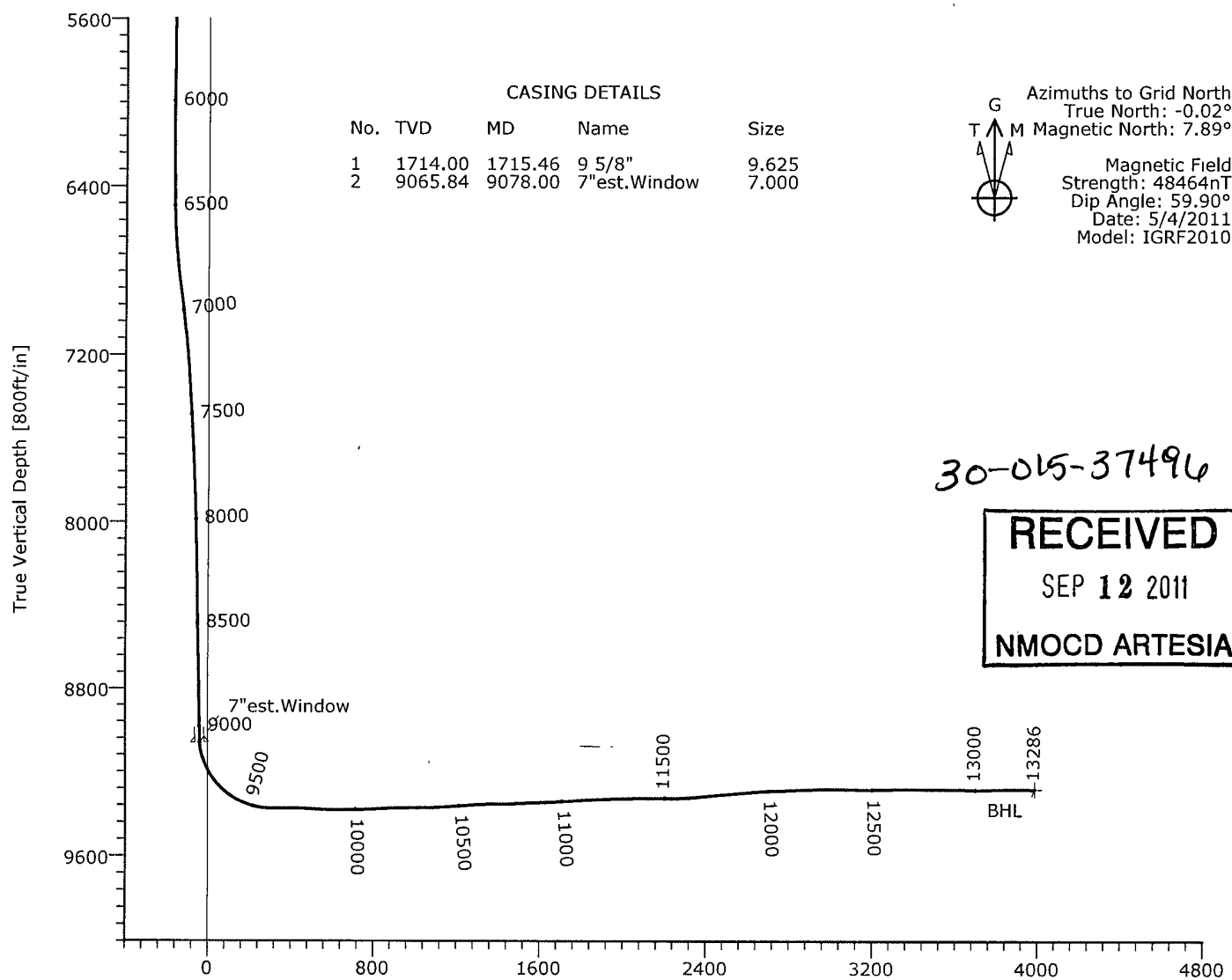
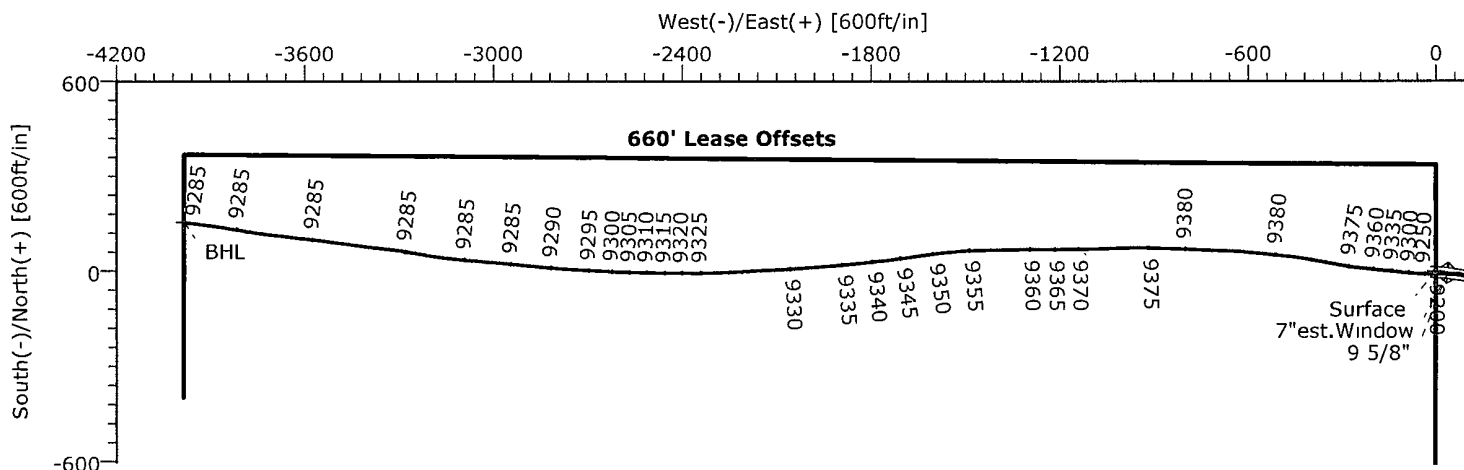
Field: Southeast NM E'83
Site: Jumping Spring "16" State Com
Well: #1
Wellpath: Sidetrack



Precision

Directional Services

30-015-37496



Azimuths to Grid North
 True North: -0.02°
 Magnetic North: 7.89°
 Magnetic Field
 Strength: 48464nT
 Dip Angle: 59.90°
 Date: 5/4/2011
 Model: IGRF2010

30-015-37496

RECEIVED

SEP 12 2011

NMOCD ARTESIA

Vertical Section at 273.83° [800ft/in]

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	380819.70	554309.40	32°02'48.999N	104°17'29.289W	Point
BHL	9285.00	152.07	-3983.53	380971.77	550325.87	32°02'50.517N	104°18'15.574W	Point

Wellpath (#1/Sidetrack)

Created By: Lance Rosenblad Date: 5/31/2011

PRECISION DIRECTIONAL SERVICES, INC.

Drake Office: 281-598-6740

Precision Directional Services, Inc.

Survey Report

Company: CIMAREX ENERGY		Date: 5/31/2011	Time: 06:09:07	Page: 1
Field: Southeast NM E'83		Co-ordinate(NE) Reference: Well: #1, Grid North		
Site: Jumping Spring "16" State Com		Vertical (TVD) Reference: 3390'GL+19'KB 3409.0		
Well: #1		Section (VS) Reference: Well (0.00N,0.00E,273.83Azi)		
Wellpath: Sidetrack		Survey Calculation Method: Minimum Curvature Db: Sybase		

Field: Southeast NM E'83				
Map System: US State Plane Coordinate System 1983		Map Zone: New Mexico, Eastern Zone		
Geo Datum: GRS 1980		Coordinate System: Well Centre		
Sys Datum: Mean Sea Level		Geomagnetic Model: IGRF2010		

Site: Jumping Spring "16" State Com Eddy County Section 16, T26S-R26E				
Site Position:	Northing: 380819.70 ft	Latitude: 32 2 48.999 N		
From: Map	Easting: 554309.40 ft	Longitude: 104 17 29.289 W		
Position Uncertainty: 0.00 ft		North Reference: Grid		
Ground Level: 3390.00 ft		Grid Convergence: 0.02 deg		

Well: #1 Slot Name:				
Well Position: +N/-S 0.00 ft	Northing: 380819.70 ft	Latitude: 32 2 48.999 N		
+E/-W 0.00 ft	Easting: 554309.40 ft	Longitude: 104 17 29.289 W		
Position Uncertainty: 0.00 ft				

Wellpath: Sidetrack				
Current Datum: 3390'GL+19'KB	Height 3409.00 ft	Drilled From: Original Hole		
Magnetic Data: 5/4/2011		Tie-on Depth: 9076.00 ft		
Field Strength: 48464 nT		Above System Datum: Mean Sea Level		
Vertical Section: Depth From (TVD)	+N/-S	Declination: 7.91 deg		
ft	ft	Mag Dip Angle: 59.90 deg		
		+E/-W	Direction	
		ft	deg	
0.00	0.00	0.00	273.83	

Survey Program for Definitive Wellpath				
Date: 5/30/2011	Validated: No	Version: 2		
Actual From ft	To ft	Survey	Toolcode	Tool Name
100.00	9076.00	Survey #1 (100.00-9076.00) (0)	Gyroscope	Gyroscope
9127.00	13238.00	Survey #1 (9127.00-13238.00)	MWD	Std MWD
13286.00	13286.00	Survey #2 (13286.00-13286.00)	Project	Projection

Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
100.00	0.27	200.79	100.00	-0.22	-0.08	0.07	0.27	0.27	0.00	Gyroscope
200.00	0.29	309.79	200.00	-0.28	-0.36	0.34	0.46	0.02	109.00	Gyroscope
300.00	0.05	265.03	300.00	-0.12	-0.60	0.59	0.26	-0.24	-44.76	Gyroscope
400.00	0.18	264.07	400.00	-0.14	-0.80	0.79	0.13	0.13	-0.96	Gyroscope
500.00	0.30	200.87	500.00	-0.40	-1.05	1.02	0.27	0.12	-63.20	Gyroscope
600.00	0.51	204.91	599.99	-1.05	-1.33	1.26	0.21	0.21	4.04	Gyroscope
700.00	0.65	208.76	699.99	-1.95	-1.79	1.66	0.15	0.14	3.85	Gyroscope
800.00	0.69	218.49	799.98	-2.92	-2.44	2.24	0.12	0.04	9.73	Gyroscope
900.00	0.53	223.52	899.98	-3.73	-3.13	2.87	0.17	-0.16	5.03	Gyroscope
1000.00	0.54	222.02	999.97	-4.41	-3.76	3.46	0.02	0.01	-1.50	Gyroscope
1100.00	1.22	102.54	1099.97	-4.99	-3.04	2.70	1.56	0.68	-119.48	Gyroscope
1200.00	2.24	88.40	1199.92	-5.17	-0.05	-0.30	1.10	1.02	-14.14	Gyroscope
1300.00	2.42	88.04	1299.84	-5.04	4.02	-4.34	0.18	0.18	-0.36	Gyroscope
1400.00	3.98	89.06	1399.68	-4.91	9.60	-9.90	1.56	1.56	1.02	Gyroscope
1500.00	5.24	90.32	1499.35	-4.88	17.63	-17.92	1.26	1.26	1.26	Gyroscope
1600.00	5.12	89.55	1598.94	-4.87	26.66	-26.93	0.14	-0.12	-0.77	Gyroscope
1700.00	4.56	92.77	1698.59	-5.03	35.09	-35.35	0.62	-0.56	3.22	Gyroscope
1800.00	4.23	95.53	1798.29	-5.58	42.73	-43.01	0.39	-0.33	2.76	Gyroscope
1900.00	4.16	96.62	1898.02	-6.35	50.01	-50.32	0.11	-0.07	1.09	Gyroscope
2000.00	4.07	96.94	1997.77	-7.20	57.13	-57.49	0.09	-0.09	0.32	Gyroscope

Precision Directional Services, Inc.

Survey Report

Company: CIMAREX ENERGY Field: Southeast NM E'83 Site: Jumping Spring "16" State Com Well: #1 Wellpath: Sidetrack	Date: 5/31/2011 Co-ordinate(NE) Reference: Well: #1, Grid North Vertical (TVD) Reference: 3390'GL+19'KB 3409.0 Section (VS) Reference: Well (0.00N,0.00E,273.83Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2100.00	3.93	97.97	2097.52	-8.10	64.05	-64.45	0.16	-0.14	1.03	Gyroscope
2200.00	3.83	98.77	2197.29	-9.09	70.74	-71.19	0.11	-0.10	0.80	Gyroscope
2300.00	3.83	99.55	2297.07	-10.15	77.34	-77.84	0.05	0.00	0.78	Gyroscope
2400.00	3.82	102.19	2396.85	-11.41	83.89	-84.46	0.18	-0.01	2.64	Gyroscope
2500.00	3.52	104.88	2496.64	-12.90	90.11	-90.77	0.35	-0.30	2.69	Gyroscope
2600.00	3.16	104.09	2596.47	-14.36	95.75	-96.50	0.36	-0.36	-0.79	Gyroscope
2700.00	3.09	104.15	2696.32	-15.69	101.04	-101.86	0.07	-0.07	0.06	Gyroscope
2800.00	2.83	106.17	2796.19	-17.03	106.02	-106.92	0.28	-0.26	2.02	Gyroscope
2900.00	2.69	110.07	2896.07	-18.53	110.60	-111.59	0.23	-0.14	3.90	Gyroscope
3000.00	2.55	112.29	2995.97	-20.18	114.86	-115.95	0.17	-0.14	2.22	Gyroscope
3100.00	2.48	116.24	3095.87	-21.98	118.86	-120.06	0.19	-0.07	3.95	Gyroscope
3200.00	2.42	119.69	3195.78	-23.98	122.63	-123.96	0.16	-0.06	3.45	Gyroscope
3300.00	2.35	120.46	3295.70	-26.06	126.24	-127.69	0.08	-0.07	0.77	Gyroscope
3400.00	2.10	121.18	3395.62	-28.05	129.57	-131.15	0.25	-0.25	0.72	Gyroscope
3500.00	2.11	123.28	3495.55	-30.01	132.68	-134.38	0.08	0.01	2.10	Gyroscope
3600.00	2.05	126.31	3595.49	-32.08	135.66	-137.50	0.13	-0.06	3.03	Gyroscope
3700.00	1.99	126.13	3695.43	-34.16	138.50	-140.47	0.06	-0.06	-0.18	Gyroscope
3800.00	2.03	130.64	3795.36	-36.34	141.25	-143.36	0.16	0.04	4.51	Gyroscope
3900.00	1.76	136.57	3895.31	-38.61	143.65	-145.90	0.33	-0.27	5.93	Gyroscope
4000.00	1.62	133.86	3995.27	-40.70	145.72	-148.11	0.16	-0.14	-2.71	Gyroscope
4100.00	1.53	136.89	4095.23	-42.66	147.65	-150.17	0.12	-0.09	3.03	Gyroscope
4200.00	1.38	133.24	4195.20	-44.46	149.44	-152.08	0.18	-0.15	-3.65	Gyroscope
4300.00	1.39	139.57	4295.17	-46.20	151.11	-153.86	0.15	0.01	6.33	Gyroscope
4400.00	1.24	139.63	4395.14	-47.95	152.59	-155.46	0.15	-0.15	0.06	Gyroscope
4500.00	1.17	151.86	4495.12	-49.68	153.78	-156.75	0.27	-0.07	12.23	Gyroscope
4600.00	1.15	155.58	4595.10	-51.49	154.67	-157.77	0.08	-0.02	3.72	Gyroscope
4700.00	1.26	153.44	4695.08	-53.39	155.58	-158.80	0.12	0.11	-2.14	Gyroscope
4800.00	1.08	161.22	4795.05	-55.26	156.37	-159.72	0.24	-0.18	7.78	Gyroscope
4900.00	1.11	158.94	4895.04	-57.06	157.03	-160.49	0.05	0.03	-2.28	Gyroscope
5000.00	1.12	166.81	4995.02	-58.91	157.60	-161.18	0.15	0.01	7.87	Gyroscope
5100.00	1.14	174.14	5095.00	-60.86	157.92	-161.63	0.15	0.02	7.33	Gyroscope
5200.00	1.16	169.46	5194.98	-62.84	158.21	-162.05	0.10	0.02	-4.68	Gyroscope
5300.00	0.94	174.18	5294.96	-64.65	158.48	-162.44	0.24	-0.22	4.72	Gyroscope
5400.00	0.95	178.94	5394.95	-66.30	158.57	-162.65	0.08	0.01	4.76	Gyroscope
5500.00	1.00	156.82	5494.93	-67.93	158.93	-163.12	0.38	0.05	-22.12	Gyroscope
5600.00	0.99	142.81	5594.92	-69.42	159.80	-164.08	0.24	-0.01	-14.01	Gyroscope
5700.00	0.96	137.18	5694.90	-70.72	160.89	-165.26	0.10	-0.03	-5.63	Gyroscope
5800.00	0.90	130.40	5794.89	-71.84	162.06	-166.50	0.13	-0.06	-6.78	Gyroscope
5900.00	1.02	115.29	5894.88	-72.73	163.46	-167.95	0.28	0.12	-15.11	Gyroscope
6000.00	0.66	90.10	5994.87	-73.11	164.84	-169.36	0.51	-0.36	-25.19	Gyroscope
6100.00	0.45	283.95	6094.86	-73.02	165.04	-169.55	1.10	-0.21	-166.15	Gyroscope
6200.00	0.68	306.14	6194.86	-72.58	164.18	-168.66	0.31	0.23	22.19	Gyroscope
6300.00	0.87	306.82	6294.85	-71.77	163.09	-167.52	0.19	0.19	0.68	Gyroscope
6400.00	0.95	315.23	6394.84	-70.73	161.90	-166.26	0.16	0.08	8.41	Gyroscope
6500.00	2.09	342.31	6494.80	-68.40	160.76	-164.97	1.32	1.14	27.08	Gyroscope
6600.00	6.63	338.58	6594.49	-61.29	158.10	-161.84	4.55	4.54	-3.73	Gyroscope
6700.00	8.88	330.82	6693.57	-49.17	152.22	-155.17	2.48	2.25	-7.76	Gyroscope
6800.00	8.91	314.01	6792.38	-37.05	142.89	-145.05	2.59	0.03	-16.81	Gyroscope
6900.00	8.56	297.65	6891.24	-28.22	130.73	-132.32	2.50	-0.35	-16.36	Gyroscope
7000.00	6.93	292.81	6990.32	-22.42	118.57	-119.80	1.75	-1.63	-4.84	Gyroscope
7100.00	6.17	293.86	7089.67	-17.91	108.10	-109.05	0.77	-0.76	1.05	Gyroscope
7200.00	5.01	294.57	7189.19	-13.92	99.21	-99.92	1.16	-1.16	0.71	Gyroscope
7300.00	3.77	294.68	7288.90	-10.73	92.25	-92.76	1.24	-1.24	0.11	Gyroscope
7400.00	3.30	286.56	7388.71	-8.54	86.50	-86.88	0.69	-0.47	-8.12	Gyroscope

Precision Directional Services, Inc.

Survey Report

Company: CIMAREX ENERGY
Field: Southeast NM E'83
Site: Jumping Spring "16" State Com
Well: #1
Wellpath: Sidetrack

Date: 5/31/2011 **Time:** 06:09:07 **Page:** 3
Co-ordinate(NE) Reference: Well: #1, Grid North
Vertical (TVD) Reference: 3390'GL+19'KB 3409.0
Section (VS) Reference: Well (0.00N,0.00E,273.83Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7500.00	3.16	283.28	7488.55	-7.09	81.06	-81.36	0.23	-0.14	-3.28	Gyroscope
7600.00	2.58	279.79	7588.42	-6.07	76.16	-76.40	0.61	-0.58	-3.49	Gyroscope
7700.00	2.51	273.37	7688.32	-5.56	71.76	-71.97	0.29	-0.07	-6.42	Gyroscope
7800.00	2.19	268.43	7788.24	-5.48	67.66	-67.88	0.38	-0.32	-4.94	Gyroscope
7900.00	2.09	267.17	7888.17	-5.62	63.93	-64.16	0.11	-0.10	-1.26	Gyroscope
8000.00	1.96	265.07	7988.11	-5.86	60.41	-60.66	0.15	-0.13	-2.10	Gyroscope
8100.00	1.66	259.77	8088.06	-6.27	57.28	-57.57	0.34	-0.30	-5.30	Gyroscope
8200.00	1.48	263.15	8188.02	-6.68	54.57	-54.89	0.20	-0.18	3.38	Gyroscope
8300.00	1.25	258.12	8287.99	-7.05	52.22	-52.57	0.26	-0.23	-5.03	Gyroscope
8400.00	1.08	261.84	8387.97	-7.41	50.22	-50.60	0.19	-0.17	3.72	Gyroscope
8500.00	1.11	250.23	8487.95	-7.87	48.38	-48.79	0.22	0.03	-11.61	Gyroscope
8600.00	1.12	254.31	8587.93	-8.47	46.52	-46.98	0.08	0.01	4.08	Gyroscope
8700.00	1.13	284.79	8687.92	-8.48	44.63	-45.10	0.59	0.01	30.48	Gyroscope
8800.00	1.17	283.59	8787.90	-7.99	42.68	-43.12	0.05	0.04	-1.20	Gyroscope
8900.00	1.05	286.68	8887.88	-7.48	40.81	-41.22	0.13	-0.12	3.09	Gyroscope
9000.00	0.98	290.24	8987.86	-6.93	39.13	-39.51	0.09	-0.07	3.56	Gyroscope
9076.00	1.47	280.41	9063.84	-6.52	37.56	-37.92	0.70	0.64	-12.93	Gyroscope
9127.00	13.80	272.50	9114.30	-6.14	30.82	-31.16	24.21	24.18	-15.51	MWD
9159.00	18.00	270.50	9145.06	-5.93	22.06	-22.40	13.23	13.12	-6.25	MWD
9191.00	24.70	270.80	9174.85	-5.79	10.41	-10.78	20.94	20.94	0.94	MWD
9221.00	29.10	269.50	9201.60	-5.77	-3.15	2.76	14.80	14.67	-4.33	MWD
9253.00	34.70	268.50	9228.76	-6.08	-20.05	19.60	17.58	17.50	-3.12	MWD
9284.00	39.60	272.20	9253.46	-5.93	-38.76	38.28	17.37	15.81	11.94	MWD
9316.00	45.20	274.00	9277.08	-4.74	-60.30	59.84	17.90	17.50	5.62	MWD
9347.00	50.90	274.40	9297.80	-3.05	-83.28	82.89	18.41	18.39	1.29	MWD
9379.00	56.60	274.40	9316.71	-1.07	-109.00	108.68	17.81	17.81	0.00	MWD
9411.00	61.60	274.60	9333.14	1.08	-136.36	136.13	15.63	15.62	0.62	MWD
9442.00	66.50	276.10	9346.70	3.69	-164.11	163.99	16.39	15.81	4.84	MWD
9474.00	71.60	276.30	9358.14	6.92	-193.81	193.84	15.95	15.94	0.62	MWD
9505.00	76.50	276.10	9366.65	10.13	-223.43	223.61	15.82	15.81	-0.65	MWD
9537.00	82.10	275.60	9372.59	13.33	-254.70	255.02	17.57	17.50	-1.56	MWD
9565.00	87.10	280.30	9375.23	17.19	-282.29	282.81	24.45	17.86	16.79	MWD
9605.00	90.40	280.40	9376.10	24.38	-321.62	322.53	8.25	8.25	0.25	MWD
9637.00	90.50	280.00	9375.85	30.04	-353.12	354.33	1.29	0.31	-1.25	MWD
9700.00	89.00	279.90	9376.12	40.93	-415.17	416.97	2.39	-2.38	-0.16	MWD
9763.00	87.10	275.50	9378.27	49.36	-477.54	479.77	7.60	-3.02	-6.98	MWD
9826.00	86.50	276.40	9381.79	55.88	-540.11	542.63	1.72	-0.95	1.43	MWD
9881.00	89.00	274.30	9383.95	61.01	-594.82	597.56	5.93	4.55	-3.82	MWD
9945.00	91.60	272.40	9383.61	64.75	-658.70	661.55	5.03	4.06	-2.97	MWD
10007.00	90.30	272.00	9382.58	67.13	-720.64	723.52	2.19	-2.10	-0.65	MWD
10071.00	93.10	272.60	9380.68	69.69	-784.56	787.46	4.47	4.37	0.94	MWD
10134.00	92.80	271.90	9377.44	72.16	-847.42	850.35	1.21	-0.48	-1.11	MWD
10197.00	91.50	271.10	9375.08	73.81	-910.36	913.25	2.42	-2.06	-1.27	MWD
10261.00	90.50	269.30	9373.96	74.03	-974.34	977.11	3.22	-1.56	-2.81	MWD
10324.00	89.90	267.60	9373.74	72.33	-1037.32	1039.83	2.86	-0.95	-2.70	MWD
10387.00	92.70	268.50	9372.31	70.19	-1100.26	1102.49	4.67	4.44	1.43	MWD
10451.00	94.10	269.70	9368.52	69.18	-1164.13	1166.15	2.88	2.19	1.87	MWD
10514.00	93.90	269.80	9364.12	68.91	-1226.98	1228.84	0.35	-0.32	0.16	MWD
10577.00	93.30	269.50	9360.17	68.52	-1289.85	1291.55	1.06	-0.95	-0.48	MWD
10641.00	91.10	268.80	9357.71	67.57	-1353.79	1355.28	3.61	-3.44	-1.09	MWD
10704.00	89.80	269.00	9357.21	66.37	-1416.78	1418.05	2.09	-2.06	0.32	MWD
10768.00	93.50	267.90	9355.37	64.64	-1480.72	1481.73	6.03	5.78	-1.72	MWD
10831.00	92.60	265.60	9352.02	61.07	-1543.52	1544.15	3.92	-1.43	-3.65	MWD

Precision Directional Services, Inc.

— Survey Report

Company: CIMAREX ENERGY
Field: Southeast NM E'83
Site: Jumping Spring "16" State Com
Well: #1
Wellpath: Sidetrack

Date: 5/31/2011 **Time:** 06:09:07 **Page:** 4
Co-ordinate(NE) Reference: Well: #1, Grid North
Vertical (TVD) Reference: 3390'GL+19'KB 3409.0
Section (VS) Reference: Well (0.00N,0.00E,273.83Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
10894.00	91.30	262.00	9349.88	54.27	-1606.11	1606.14	6.07	-2.06	-5.71	MWD
10957.00	93.60	261.70	9347.18	45.35	-1668.41	1667.71	3.68	3.65	-0.48	MWD
11020.00	93.10	262.80	9343.50	36.87	-1730.72	1729.32	1.92	-0.79	1.75	MWD
11084.00	93.10	263.60	9340.04	29.30	-1794.18	1792.13	1.25	0.00	1.25	MWD
11147.00	93.10	264.60	9336.63	22.83	-1856.75	1854.13	1.58	0.00	1.59	MWD
11211.00	92.40	265.00	9333.56	17.04	-1920.42	1917.27	1.26	-1.09	0.62	MWD
11274.00	91.20	265.60	9331.58	11.88	-1983.17	1979.54	2.13	-1.90	0.95	MWD
11337.00	91.40	266.10	9330.15	7.32	-2045.99	2041.91	0.85	0.32	0.79	MWD
11401.00	90.50	267.30	9329.09	3.64	-2109.87	2105.41	2.34	-1.41	1.87	MWD
11464.00	89.30	267.20	9329.20	0.62	-2172.80	2167.99	1.91	-1.90	-0.16	MWD
11527.00	90.10	267.50	9329.53	-2.30	-2235.73	2230.59	1.36	1.27	0.48	MWD
11590.00	92.80	267.60	9327.94	-4.99	-2298.65	2293.18	4.29	4.29	0.16	MWD
11652.00	95.40	270.50	9323.51	-6.02	-2360.47	2354.80	6.27	4.19	4.68	MWD
11715.00	95.30	270.30	9317.63	-5.58	-2423.19	2417.41	0.35	-0.16	-0.32	MWD
11780.00	94.70	270.90	9311.97	-4.90	-2487.94	2482.06	1.30	-0.92	0.92	MWD
11843.00	95.30	271.50	9306.47	-3.59	-2550.69	2544.75	1.34	0.95	0.95	MWD
11907.00	95.40	272.00	9300.51	-1.64	-2614.38	2608.43	0.79	0.16	0.78	MWD
11970.00	93.30	272.90	9295.73	1.05	-2677.14	2671.23	3.62	-3.33	1.43	MWD
12033.00	91.50	273.10	9293.09	4.34	-2739.99	2734.16	2.87	-2.86	0.32	MWD
12096.00	93.10	274.80	9290.56	8.68	-2802.79	2797.11	3.70	2.54	2.70	MWD
12160.00	92.20	275.30	9287.60	14.30	-2866.47	2861.02	1.61	-1.41	0.78	MWD
12223.00	92.00	275.50	9285.30	20.23	-2929.15	2923.96	0.45	-0.32	0.32	MWD
12286.00	90.40	275.10	9283.98	26.05	-2991.86	2986.92	2.62	-2.54	-0.63	MWD
12349.00	89.00	274.70	9284.31	31.43	-3054.63	3049.91	2.31	-2.22	-0.63	MWD
12412.00	88.60	275.50	9285.63	37.03	-3117.37	3112.88	1.42	-0.63	1.27	MWD
12474.00	90.20	278.50	9286.27	44.58	-3178.89	3174.77	5.48	2.58	4.84	MWD
12537.00	91.20	280.20	9285.50	54.81	-3241.05	3237.47	3.13	1.59	2.70	MWD
12605.00	90.30	276.50	9284.61	64.69	-3308.31	3305.24	5.60	-1.32	-5.44	MWD
12665.00	90.20	276.50	9284.35	71.48	-3367.92	3365.17	0.17	-0.17	0.00	MWD
12728.00	90.20	277.60	9284.13	79.21	-3430.44	3428.07	1.75	0.00	1.75	MWD
12792.00	89.80	277.30	9284.13	87.51	-3493.90	3491.95	0.78	-0.62	-0.47	MWD
12855.00	89.20	277.10	9284.68	95.40	-3556.40	3554.83	1.00	-0.95	-0.32	MWD
12918.00	88.70	276.50	9285.84	102.86	-3618.95	3617.74	1.24	-0.79	-0.95	MWD
12982.00	88.70	276.40	9287.29	110.05	-3682.53	3681.65	0.16	0.00	-0.16	MWD
13045.00	91.90	278.20	9286.96	118.05	-3745.01	3744.53	5.83	5.08	2.86	MWD
13108.00	91.30	279.10	9285.20	127.53	-3807.26	3807.28	1.72	-0.95	1.43	MWD
13171.00	90.80	278.40	9284.05	137.11	-3869.52	3870.04	1.37	-0.79	-1.11	MWD
13238.00	89.00	277.10	9284.16	146.14	-3935.90	3936.88	3.31	-2.69	-1.94	MWD
13286.00	89.00	277.10	9285.00	152.07	-3983.53	3984.79	0.00	0.00	0.00	Project

30-015-37496

CIMAREX ENERGY

Morrow Wildcat

Eddy County, NM

Jumping Spring "16" State Com #1

VH - Job #32K0411385



Survey: Actual

SDI Standard Survey Report

12 May, 2011

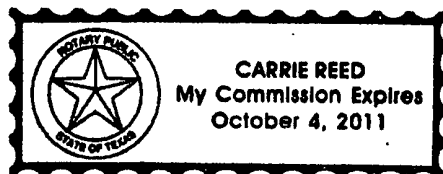
This survey is correct to the best of my knowledge and is supported by actual field data.

K. Wharton

Notarized this date 13th of June, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling
Directional Drilling Operations

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	CIMAREX ENERGY	Local Co-ordinate Reference:	Well Jumping Spring "16" State Com #1
Project:	Morrow Wildcat	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Jumping Spring "16" State Com #1	North Reference:	Grid
Wellbore:	VH - Job #32K0411385	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411385	Database:	EDM-Regulatory

Project	Morrow Wildcat		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Eddy County, NM			
Site Position:		Northing:	380,807 30 usft	Latitude:	32° 2' 49 010 N
From:	Lat/Long	Easting:	512,971.83 usft	Longitude:	104° 17' 29.280 W
Position Uncertainty:	0 0 usft	Slot Radius:	0"	Grid Convergence:	0 02 °

Well	Jumping Spring "16" State Com #1, Directional (Precision)					
Well Position	+N/-S	0 0 usft	Northing:	380,807 30 usft	Latitude:	32° 2' 49.010 N
	+E/-W	0 0 usft	Easting:	512,971 83 usft	Longitude:	104° 17' 29 280 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore		VH - Job #32K0411385			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/2/2011	7.91	59 90	48,465

Design	VH - Job #32K0411385			
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0 0	0 0	273 83

Survey Program		Date 5/12/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100 0	9,076 0	Actual (VH - Job #32K0411385)	Keeper	Keeper Gyro

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
0 0	0 00	0 00	0.0	0 0	0 0	0 00		0 0
100 0	0 27	200 79	100.0	-0 2	-0 1	200 79		0 2
200 0	0 29	309 79	200 0	-0 3	-0 4	232 40		0 5
300 0	0 05	265 03	300 0	-0 1	-0 6	258.65		0 6
400 0	0 18	264 07	400 0	-0 1	-0 8	260 04		0 8
500 0	0 30	200 87	500 0	-0 4	-1 0	249 06		1 1
600 0	0 51	204 91	600 0	-1 0	-1 3	231.71		1.7
700 0	0 65	208.76	700 0	-2 0	-1 8	222 54		2 6
800 0	0 69	218 49	800 0	-2 9	-2 4	219 86		3 8
900 0	0 53	223 52	900 0	-3 7	-3 1	220 04		4 9
1,000 0	0.54	222 02	1,000 0	-4 4	-3 8	220.48		5 8
1,100 0	1 22	102 54	1,100 0	-5 0	-3 0	211 35		5 8

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	CIMAREX ENERGY	Local Co-ordinate Reference:	Well Jumping Spring "16" State Com #1
Project:	Morrow Wildcat	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Jumping Spring "16" State Com #1	North Reference:	Grid
Wellbore:	VH - Job #32K0411385	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411385	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200 0	2 24	88 40	1,199 9	-5 2	0 0	180 53	5 2
1,300 0	2 42	88 04	1,299 8	-5 0	4 0	141 47	6 4
1,400 0	3 98	89 06	1,399 7	-4 9	9 6	117 11	10 8
1,500 0	5 24	90 32	1,499 4	-4.9	17 6	105 48	18.3
1,600 0	5 12	89 55	1,598 9	-4 9	26 7	100 36	27 1
1,700 0	4 56	92 77	1,698 6	-5 0	35 1	98 16	35 5
1,800 0	4 23	95 53	1,798 3	-5 6	42 7	97 43	43 1
1,900 0	4 16	96 62	1,898.0	-6 4	50 0	97 24	50 4
2,000 0	4 07	96.94	1,997 8	-7 2	57 1	97 18	57 6
2,100 0	3 93	97 97	2,097 5	-8 1	64 1	97 21	64 6
2,200 0	3 83	98 77	2,197 3	-9.1	70 7	97.32	71 3
2,300 0	3.83	99 55	2,297.1	-10 1	77 3	97.48	78.0
2,400 0	3 82	102 19	2,396.8	-11.4	83 9	97 74	84 7
2,500 0	3 52	104 88	2,496.6	-12 9	90 1	98.15	91 0
2,600 0	3 16	104 09	2,596 5	-14.4	95 8	98 53	96.8
2,700 0	3.09	104 15	2,696 3	-15.7	101 0	98 83	102 2
2,800 0	2 83	106.17	2,796 2	-17 0	106 0	99 13	107 4
2,900 0	2 69	110 07	2,896 1	-18.5	110 6	99 51	112 1
3,000 0	2 55	112 29	2,996 0	-20 2	114 9	99 96	116 6
3,100 0	2 48	116 24	3,095 9	-22 0	118 9	100 47	120.9
3,200 0	2 42	119 69	3,195 8	-24 0	122 6	101 06	125 0
3,300 0	2 35	120 46	3,295 7	-26 1	126 2	101 67	128 9
3,400 0	2 10	121 18	3,395 6	-28 1	129.6	102 22	132 6
3,500 0	2 11	123 28	3,495 6	-30 0	132 7	102 75	136 0
3,600.0	2 05	126 31	3,595.5	-32.1	135 7	103.30	139 4
3,700 0	1 99	126 13	3,695 4	-34 2	138 5	103 86	142 7
3,800 0	2 03	130.64	3,795 4	-36 3	141 2	104 43	145 8
3,900 0	1 76	136.57	3,895 3	-38 6	143 6	105 04	148 7
4,000 0	1 62	133 86	3,995 3	-40 7	145.7	105 61	151 3
4,100 0	1 53	136 89	4,095 2	-42 7	147 7	106 11	153 7
4,200 0	1 38	133 24	4,195 2	-44 5	149 4	106 57	155 9
4,300 0	1 39	139 57	4,295 2	-46 2	151 1	107.00	158 0
4,400 0	1 24	139 63	4,395 1	-48 0	152 6	107 45	160 0
4,500 0	1 17	151 86	4,495 1	-49 7	153 8	107 90	161 6
4,600 0	1 15	155.58	4,595 1	-51 5	154 7	108 41	163 0
4,700 0	1 26	153 44	4,695.1	-53 4	155 6	108 94	164 5
4,800 0	1 08	161.22	4,795 1	-55 3	156 4	109 46	165 9
4,900 0	1 11	158.94	4,895 0	-57 1	157 0	109 97	167 1
5,000 0	1 12	166 81	4,995 0	-58 9	157 6	110 50	168 2
5,100 0	1 14	174.14	5,095 0	-60 9	157 9	111 07	169 2
5,200 0	1 16	169.46	5,195 0	-62 8	158 2	111 66	170 2
5,300 0	0 94	174 18	5,295.0	-64 7	158 5	112 19	171 2
5,400 0	0 95	178.94	5,394 9	-66 3	158 6	112 69	171 9
5,500 0	1 00	156 82	5,494 9	-67 9	158 9	113 14	172 8

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	CIMAREX ENERGY	Local Co-ordinate Reference:	Well Jumping Spring "16" State Com #1
Project:	Morrow Wildcat	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Jumping Spring "16" State Com #1	North Reference:	Grid
Wellbore:	VH - Job #32K0411385	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411385	Database:	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600 0	0 99	142 81	5,594 9	-69 4	159 8	113 48	174 2
5,700 0	0 96	137 18	5,694 9	-70 7	160 9	113 73	175 7
5,800 0	0 90	130 40	5,794 9	-71 8	162 1	113 91	177 3
5,900 0	1 02	115 29	5,894 9	-72 7	163 5	113 99	178 9
6,000 0	0 66	90 10	5,994 9	-73 1	164 8	113 92	180 3
6,100 0	0 45	283 95	6,094 9	-73 0	165 0	113 87	180 5
6,200 0	0 68	306 14	6,194 9	-72 6	164 2	113 85	179 5
6,300 0	0 87	306 82	6,294 9	-71 8	163 1	113 75	178 2
6,400 0	0 95	315 23	6,394 8	-70 7	161 9	113 60	176 7
6,500 0	2 09	342 31	6,494 8	-68 4	160 8	113 05	174 7
6,600 0	6 63	338 58	6,594 5	-61 3	158 1	111 19	169 6
6,700 0	8 88	330 82	6,693 6	-49 2	152 2	107 90	160 0
6,800 0	8 91	314 01	6,792 4	-37 1	142 9	104 54	147 6
6,900 0	8 56	297 65	6,891 2	-28 2	130 7	102 18	133 7
7,000 0	6 93	292 81	6,990 3	-22 4	118 6	100 71	120 7
7,100 0	6 17	293 86	7,089 7	-17 9	108 1	99 41	109 6
7,200 0	5 01	294 57	7,189 2	-13 9	99 2	97 99	100 2
7,300 0	3 77	294 68	7,288 9	-10 7	92 3	96 64	92 9
7,400 0	3 30	286 56	7,388 7	-8 5	86 5	95 64	86 9
7,500 0	3 16	283 28	7,488 5	-7 1	81 1	95 00	81 4
7,600 0	2 58	279 79	7,588 4	-6 1	76 2	94 56	76 4
7,700 0	2 51	273 37	7,688 3	-5 6	71 8	94 43	72 0
7,800 0	2 19	268 43	7,788 2	-5 5	67 7	94 63	67 9
7,900 0	2 09	267 17	7,888 2	-5 6	63 9	95 03	64 2
8,000 0	1 96	265 07	7,988 1	-5 9	60 4	95 54	60 7
8,100 0	1 66	259 77	8,088 1	-6 3	57 3	96 24	57 6
8,200 0	1 48	263 15	8,188 0	-6 7	54 6	96 98	55 0
8,300 0	1 25	258 12	8,288 0	-7 1	52 2	97 69	52 7
8,400 0	1 08	261 84	8,388 0	-7 4	50 2	98 40	50 8
8,500 0	1 11	250 23	8,488 0	-7 9	48 4	99 25	49 0
8,600 0	1 12	254 31	8,587 9	-8 5	46 5	100 31	47 3
8,700 0	1 13	284 79	8,687 9	-8 5	44 6	100 76	45 4
8,800 0	1 17	283 59	8,787 9	-8 0	42 7	100 60	43 4
8,900 0	1 05	286 68	8,887 9	-7 5	40 8	100 39	41 5
9,000 0	0 98	290 24	8,987 9	-6 9	39 1	100 04	39 7
9,076 0	1 47	280 41	9,063 8	-6 5	37 6	99 85	38 1



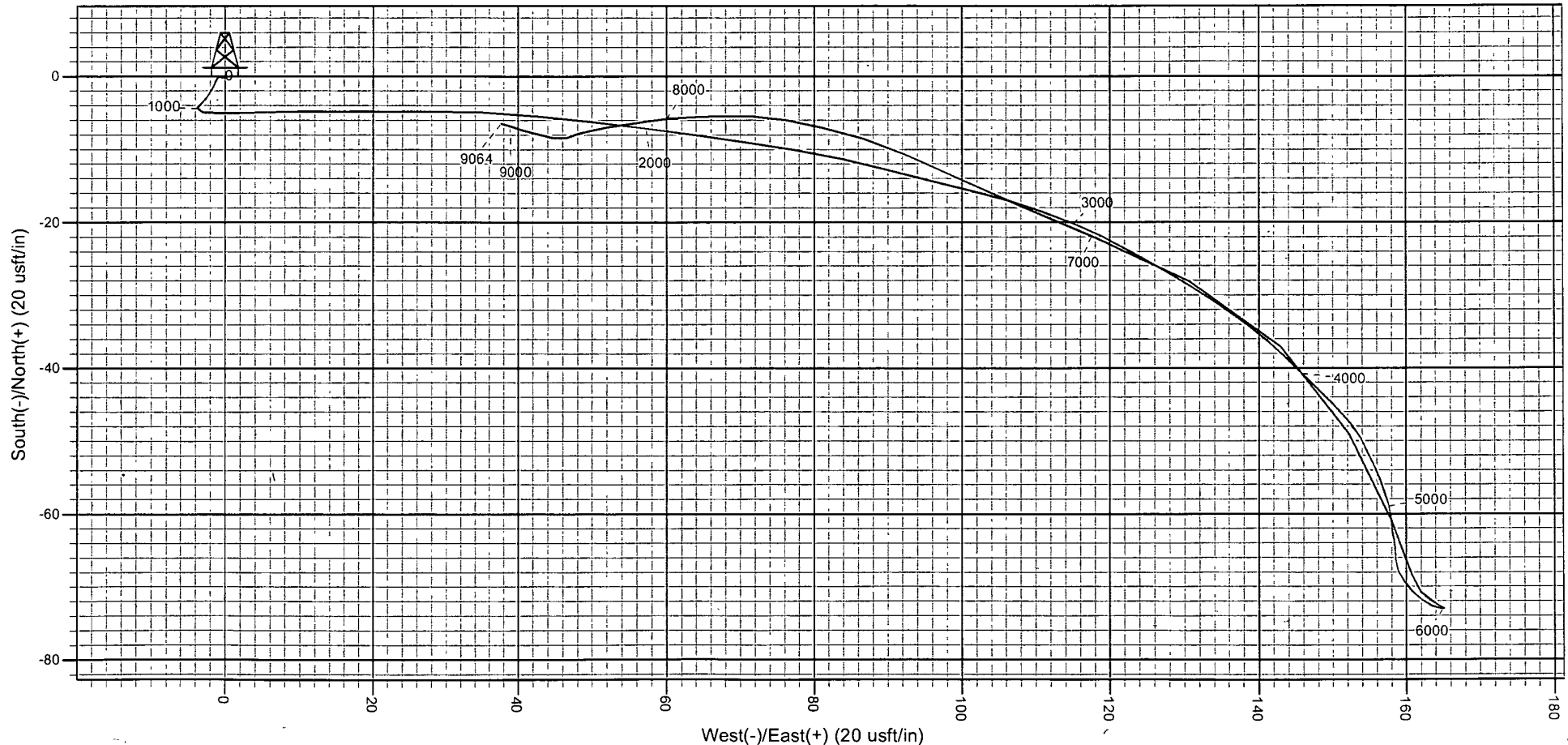
Project: Morrow Wildcat
Eddy County, NM
Well: Jumping Spring "16" State Com #1
Wellbore: VH - Job #32K0411385
Design: VH - Job #32K0411385



Azimuths to Grid North
True North -0.02°
Magnetic North 7.89°
Magnetic Field
Strength: 48465 0snT
Dip Angle: 59.90°
Date: 5/2/2011
Model: IGRF2010

WELL DETAILS: Jumping Spring "16" State Com #1
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	380807.30	512971.83	32° 2' 49.010 N	104° 17' 29.280 W	



PROJECT DETAILS: Morrow Wildcat
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 2' 49.010 N
Longitude: 104° 17' 29.280 W
Positional Uncertainty: 0.0
Convergence: 0.02
Local North: Grid

Submit To: Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, 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 and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised June 10, 2003 WELL API NO. 30-015-37496 5. Indicate Type of Lease STATE ☒ FEE ☐ State Oil & Gas Lease No.
---	---	--

WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
1a Type of Well. OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____			7. Lease Name or Unit Agreement Name Jumping Spring 16 State Com		
b Type of Completion NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. WELL OVER BACK RESVR. ☐ OTHER			8. Well No. 001		
2. Name of Operator Cimarex Energy Co. of Colorado			9. Pool name or Wildcat Wolfcamp Wildcat Gas		
3 Address of Operator 600 N. Marienfeld St., Ste 600 Midland, Texas 79701			4 Well Location SHL: Unit Letter <u>A</u> <u>990</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line Section <u>16</u> Township <u>26S</u> Range <u>26E</u> NMPM County <u>Eddy</u>		
10 Date Spudded 01-28-10	11. Date T D Reached 05-31-11	12. Date Compl. (Ready to Prod.) 07-05-11	13. Elevations (DF& RKB, RT, GR, etc) 3390 GR	14 Elev Casinghead	
15. Total Depth MD 13286 TVD 9286	16. Plug Back T.D MD 13229 TVD 9284	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary	Rotary Tools Cable Tools	
19. Producing Interval(s), of this completion - Top, Bottom, Name 9451-13219 Wolfcamp				20. Was Directional Survey Made Yes	
21. Type Electric and Other Logs Run Porosity & Resistivity				22. Was Well Cored No	
23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB /FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13.375	48	467	17.5	400	
12.25 9.625	40	1714	12.25	610	
7	26	10875	8.75	1320	
4.5	11.6	8895-13278	6.125	525	
24. LINER RECORD			25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE
					2.875
					8846
					8840
26. Perforation record (interval, size, and number) See Attached			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED See Attached See Attached		
28. PRODUCTION					
Date First Production 07-24-11		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing		Well Status (Prod or Shut-in) Producing	
Date of Test 08-12-11	Hours Tested 24	Choke Size 19/64	Prod'n For Test Period	Oil - Bbl 141	Gas - MCF 2635
Flow Tubing Press 1850	Casing Pressure 610	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl 503
				Gas - Oil Ratio 18688	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold					Test Witnessed By
30. List Attachments C-102, WBD, Directional Survey, Deviation					
31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief					
Signature <u>Natalie Krueger</u>		Printed Name <u>Natalie Krueger</u>		Title <u>Regulatory</u>	
E-mail Address <u>nkrueger@cimarex.com</u>		Date <u>9/6/2011</u>			

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy			T. Canyon		
T. Salt	1038		T. Strawn	10598	
B. Salt	1596		T. Atoka	10825	
T. Yates			T. Miss		
T. 7 Rivers			T. Devonian		
T. Queen			T. Silurian		
T. Grayburg			T. Montoya		
T. San Andres			T. Simpson		
T. Glorieta			T. McKee		
T. Paddock			T. Ellenburger		
T. Blinebry			T. Gr. Wash		
T. Tubb			T. Delaware	1793	
T. Drinkard			T. Bone Spring	5340	
T. Abo Shale			T. Morrow		
T. Wolfcamp	8400		T. SBSS		
T. Penn			T. Barnett		
T. Cisco (Bough C)	10373		T. Rustler		
			T. Ojo Alamo		T. Penn. "B"
			T. Kirtland-Fruitland		T. Penn. "C"
			T. Pictured Cliffs		T. Penn. "D"
			T. Cliff House		T. Leadville
			T. Menefee		T. Madison
			T. Point Lookout		T. Elbert
			T. Mancos		T. McCracken
			T. Gallup		T. Ignacio Otzte
			B. Greenhorn		T. Granite
			T. Dakota		T.
			T. Morrison		T.
			T. Todilto		T.
			T. Entrada		T.
			T. Wingate		T.
			T. Chinle		T.
			T. Permian		T.
			T. Penn "A"		T.

OIL OR GAS SANDS OR ZONES

No. 1, fromto.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

Attachment - Frac Job Details
Jumping Spring 16 St Com 1
Cimarex Energy Co. of Colorado
16-26S-26E
30-015-37496
Eddy County, NM

Stage	Depth	Description
1	12957-13219 6 spf 48 holes	607,868 gal 15# XL Borate 366,538 # 30/70 Sand
2	12568-12830 6 spf 48 holes	523,565 gal 15# XL Borate 357,110 # 30/70 Sand
3	12179-12441 6 spf 48 holes	491,778 gal 15# XL Borate 348,084 # 30/70 Sand
4	11790-12052 6 spf 48 holes	415,446 gal 15# XL Borate 365,971 # 30/70 Sand
5	11401-11663 6 spf 48 holes	478,329 gal 15# XL Borate 363,039 # 30/70 Sand
6	11012-11274 6 spf 48 holes	493,055 gal 15# XL Borate 362,130 # 30/70 Sand
7	10623-10885 6 spf 48 holes	509,560 gal 15# XL Borate 359,366 # 30/70 Sand
8	10234-10496 6 spf 48 holes	461,491 gal 15# XL Borate 359,583 # 30/70 Sand
9	9843-10107 6 spf 48 holes	472,224 gal 15# XL Borate 300,471 # 30/70 Sand
10	9451-9715 6 spf 48 holes	500,077 gal 15# XL Borate 434,883 # 30/70 Sand

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised June 10, 2003

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWANCE

HORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. of Colorado 600 N. Marienfeld., Ste. 600 Midland, TX 79701		² OGRID Number 162683
		³ Reason for Filing Code/ Effective Date NW / 07-24-11
⁴ API Number 30-015-37496	⁵ Pool Name Wolfcamp Wildcat 5262616A; WOLF CAMP (GAS)	⁶ Pool Code 97882
⁷ Property Code 37991	⁸ Property Name Jumping Spring 16 State Com	⁹ Well Number 001

This well has been placed in the pool designated below
If you do not concur notify the Hobbs OCD Geologist.

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	16	26S	26E		990	North	660	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	26S	26E		875	North	660	West	Eddy

¹² Lse Code S	¹³ Producing Method Code F	¹⁴ Gas Connection Date 08-01-11	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
21778	Sunoco Inc R&M PO Box 2039 Tulsa, OK		O	
180055	Duke Energy Field Services 6120 S. Yale Ave. Ste 1100 Tulsa, OK		G	

RECEIVED
SEP 12 2011
NMOCD ARTESIA

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description Same as above
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V. Well Completion Data

²⁵ Spud Date 01-28-10	²⁶ Ready Date 07-05-11	²⁷ TD MD 13286 TVD 9286	²⁸ PBSD MD 13229 TVD 9284	²⁹ Perforations 9451-13219	³⁰ DHC, MC
³¹ Hole Size 17.5	³² Casing & Tubing Size 13.375	³³ Depth Set 467	³⁴ Sacks Cement 400		
12.25	12.25 9.625	1714	610		
8.75	7	10875	1320		
6.125	4.5	8895-13278	525		
	2.875	8846	PKR @ 8840		

VI. Well Test Data

³⁵ Date New Oil 07-24-11	³⁶ Gas Delivery Date 08-01-11	³⁷ Test Date 08-12-11	³⁸ Test Length 24 hrs	³⁹ Tbg. Pressure 1850	⁴⁰ Csg. Pressure 610
⁴¹ Choke Size 19/64	⁴² Oil 141	⁴³ Water GAS 2635	⁴⁴ Gas WATER 503 403	⁴⁵ AOF	⁴⁶ Test Method Producing

⁴⁷ 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: Natalie Krueger

Printed name: Natalie Krueger

Title: Regulatory Analyst

E-mail Address: nkrueger@cimarex.com

Date: September 6, 2011 Phone: 432-620-1936

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

JAN 30 2012

dm