

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

MAR 10 2009

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36716	Pool Code 91687 96541	Pool Name Cottonwood Draw; Delaware
Property Code 300600	Property Name WHITE CITY "14" FEDERAL	Well Number 6
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3316'

Surface Location

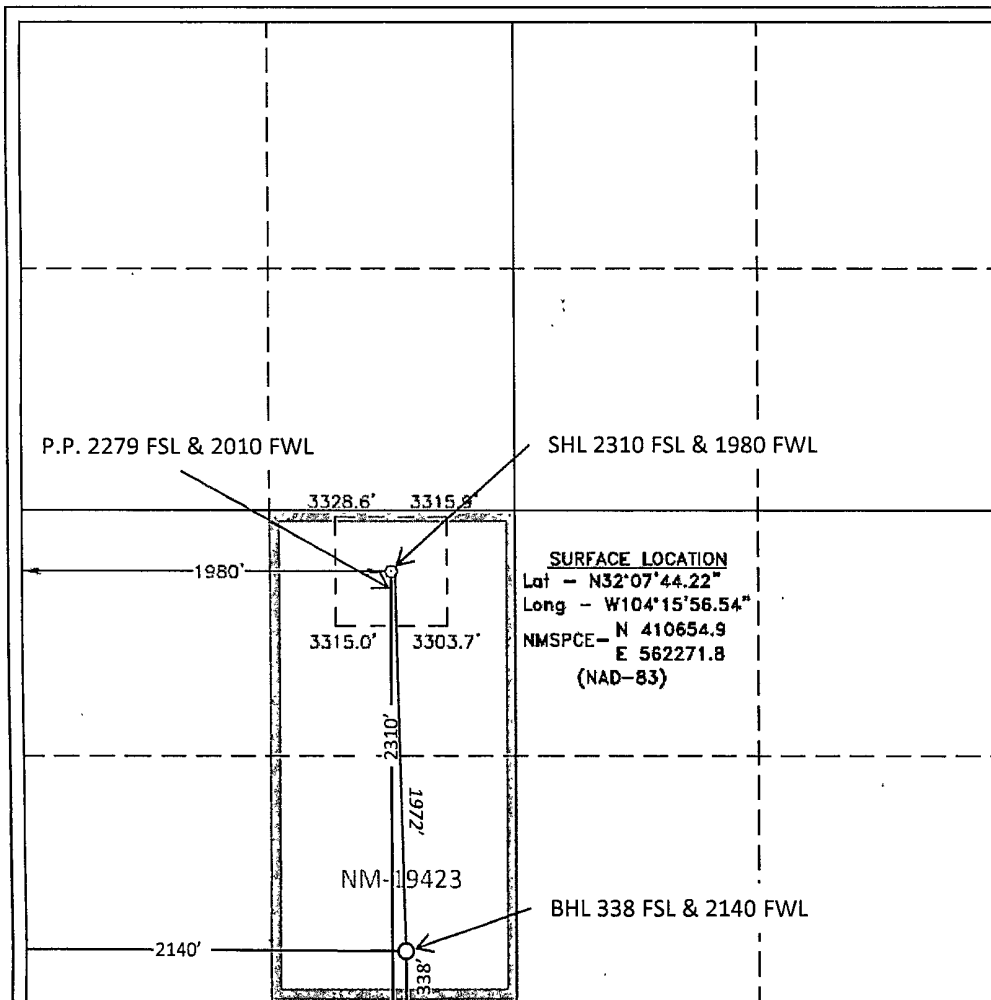
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	14	25 S	26 E		2310	SOUTH	1980	WEST	EDDY

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
N	14	25 S	26 E		338	SOUTH	2140	WEST	EDDY

Dedicated Acres 80	Joint or Infill	Consolidation Code	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 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.

Signature: *Scott Haynes* Date: 03/08/09

Printed Name: Scott Haynes

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.

JULY 19, 2008

Date Surveyed: *July 19, 2008*
Signature: *Garry L. Jones*
Professional Seal: *Garry L. Jones*

Certificate No. Garry L. Jones 7977

BASIN SURVEYS

INCLINATION REPORT

LOCATION
Tulsa, Oklahoma 74103

RECORD OF INCLINATION

 GREGG MUNGER	NAME OF COMPANY
	KEY ENERGY DRILLING, INC.
	TELEPHONE NUMBER
	432-580-3063

SURVEY.TXT

Job Number: 01086-433-21

State/Country: NM

Company: CIMRAX
Lease/Well: WHITE CITY #6
Location: WHITE CITY
Rig Name: KEY#298
RKB:
G.L. or M.S.L.:

Declination:
Grid:
File name: C:\WINSERVE\WR32-25.SVY
Date/Time: 14-Jan-09 / 17:12
Curve Name:

Quantum Drilling Motors

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 179.29

Vertical Section Referenced to offset from wellhead: EW =.00 Ft , NS=.00 Ft
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
2755.00	.56	122.87	2754.20	-27.92	29.48	28.28	40.60	133.44	.00
2859.00	2.50	185.60	2858.16	-30.45	29.69	30.82	42.53	135.73	2.21
2869.00	5.40	179.70	2868.14	-31.14	29.67	31.51	43.01	136.39	29.25
2879.00	8.00	175.80	2878.07	-32.31	29.72	32.67	43.90	137.39	26.38
2891.00	11.00	173.30	2889.90	-34.28	29.91	34.64	45.49	138.89	25.23
2901.00	14.00	176.80	2899.66	-36.43	30.09	36.80	47.25	140.44	30.93
2911.00	16.40	180.60	2909.31	-39.05	30.15	39.42	49.33	142.33	25.97
2922.00	18.80	180.00	2919.80	-42.38	30.13	42.75	52.00	144.59	21.88
2932.00	21.80	179.80	2929.18	-45.85	30.14	46.22	54.86	146.68	30.01
2942.00	24.40	179.60	2938.37	-49.77	30.16	50.14	58.19	148.79	26.01
2954.00	28.10	179.70	2949.13	-55.08	30.19	55.45	62.81	151.27	30.84
2964.00	31.10	179.80	2957.83	-60.01	30.21	60.38	67.19	153.28	30.00

SURVEY.TXT									
2974.00	33.80	180.80	2966.27	-65.38	30.18	65.75	72.01	155.22	27.53
2986.00	36.80	181.60	2976.06	-72.31	30.03	72.68	78.30	157.44	25.29
2996.00	39.60	181.80	2983.92	-78.49	29.85	78.86	83.98	159.18	28.03
3006.00	42.20	181.60	2991.47	-85.04	29.66	85.40	90.06	160.77	26.03
3018.00	45.20	182.10	3000.15	-93.32	29.39	93.68	97.84	162.52	25.17
3029.00	48.00	183.10	3007.71	-101.30	29.02	101.66	105.38	164.01	26.30
3039.00	50.70	183.30	3014.22	-108.88	28.60	109.22	112.57	165.28	27.04
3049.00	53.70	182.00	3020.35	-116.77	28.24	117.11	120.14	166.41	31.71
3059.00	57.60	181.40	3025.99	-125.02	27.99	125.36	128.12	167.38	39.31
3069.00	61.50	182.00	3031.06	-133.64	27.74	133.97	136.48	168.27	39.34
3081.00	65.80	182.30	3036.38	-144.38	27.33	144.71	146.94	169.28	35.90
3091.00	69.80	182.50	3040.16	-153.63	26.94	153.95	155.97	170.05	40.04
3101.00	73.60	182.60	3043.30	-163.11	26.52	163.43	165.25	170.76	38.01

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
3109.00	76.70	182.30	3045.35	-170.84	26.19	171.15	172.83	171.28	38.92
3141.00	87.60	181.90	3049.71	-202.47	25.03	202.76	204.01	172.95	34.08
3173.00	89.10	181.20	3050.63	-234.44	24.17	234.72	235.68	174.11	5.17
3205.00	91.00	180.70	3050.61	-266.44	23.64	266.71	267.48	174.93	6.14
3236.00	91.50	180.40	3049.93	-297.43	23.34	297.69	298.34	175.51	1.88
3267.00	91.70	180.30	3049.06	-328.41	23.15	328.68	329.23	175.97	.72
3299.00	92.10	180.60	3048.00	-360.40	22.90	360.65	361.12	176.36	1.56
3330.00	92.60	181.00	3046.73	-391.37	22.47	391.61	392.01	176.71	2.06
3362.00	92.40	180.20	3045.34	-423.33	22.13	423.58	423.91	177.01	2.57
3392.00	92.40	179.40	3044.08	-453.31	22.24	453.55	453.85	177.19	2.66

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					SURVEY.TXT				
3424.00	91.90	178.80	3042.88	-485.28	22.74	485.52	485.81	177.32	2.44
3455.00	91.20	178.00	3042.04	-516.26	23.60	516.51	516.80	177.38	3.43
3486.00	91.60	178.30	3041.28	-547.23	24.61	547.49	547.78	177.43	1.61
3585.00	88.80	177.50	3040.94	-646.15	28.23	646.45	646.77	177.50	2.94
3645.00	87.50	176.80	3042.88	-706.05	31.21	706.38	706.74	177.47	2.46
3739.00	89.10	175.90	3045.66	-799.81	37.20	800.21	800.67	177.34	1.95
3771.00	88.90	175.30	3046.22	-831.71	39.65	832.14	832.66	177.27	1.98
3866.00	88.00	173.60	3048.79	-926.23	48.83	926.76	927.51	176.98	2.02
3961.00	90.00	173.50	3050.45	-1020.61	59.50	1021.26	1022.34	176.66	2.11
4056.00	91.40	172.50	3049.29	-1114.89	71.08	1115.68	1117.15	176.35	1.81
4151.00	90.30	173.20	3047.88	-1209.14	82.90	1210.07	1211.97	176.08	1.37
4245.00	90.30	174.30	3047.39	-1302.57	93.14	1303.63	1305.90	175.91	1.17
4339.00	90.40	173.90	3046.81	-1396.07	102.80	1397.24	1399.85	175.79	.44
4435.00	90.20	174.20	3046.31	-1491.56	112.75	1492.84	1495.81	175.68	.38
4529.00	90.30	174.70	3045.90	-1585.11	121.84	1586.50	1589.79	175.60	.54
4624.00	90.00	174.00	3045.65	-1679.65	131.19	1681.15	1684.77	175.53	.80
4718.00	89.40	174.10	3046.14	-1773.14	140.94	1774.75	1778.74	175.46	.65
4813.00	91.10	173.60	3045.73	-1867.59	151.11	1869.32	1873.70	175.37	1.87
4872.00	92.00	173.50	3044.13	-1926.20	157.74	1928.00	1932.64	175.32	1.53

Acid, Fracture, Treatment, Cement Squeeze, etc. Attachment

White City 14 Federal 6

14-25S-26E

Eddy County, NM

Depth Interval	Amount and Type of Material Used
Stage 1 4548'-4918'	Pump 1974 gal Abromax 1015 x-linked pad. Start sand. Pump 2562 gal Abromax 1015 carrying 5000# 16/30 brown sand ramped from 1 ppg to 3 ppg. Flush with 1680 gal linear fluid. Dropped 1-1/2" ball.
Stage 2 4188'-4548'	Ball seated and port opened at 2030 psi. Shut down. ISIP - 899 psi. Pump 1512 gal Abromax 1015 x-linked pad. Start sand. Pump 2730 gal Abromax 1015 carrying 5000# 16/30 brown sand ramped from 1 ppg to 3 ppg. Flush with 1554 gal linear fluid. Dropped 1-3/4" ball.
Stage 3 3858'-4188'	Ball seated and port opened at 3100 psi. Shut down. ISIP - 926 psi. Pump 1428 gal Abromax 1015 x-linked pad. Start sand. Pump 2394 gal Abromax 1015 carrying 5000# 16/30 brown sand ramped from 1 ppg to 3 ppg. Flush with 1428 gal linear fluid. Dropped 2" ball.
Stage 4 3493'-3858'	Ball seated and port opened at 2190 psi. Shut down ISIP - 932 psi. Pump 1470 gal Abromax 1015 x-linked pad. Start sand. Pump 3150 gal Abromax 1015 carrying 5000# 16/30 brown sand ramped from 1 ppg to 3 ppg. Flush with 1050 gal linear fluid. Dropped 2-1/4" ball.
Stage 5 3167'-3493'	Ball seated and port opened at 3500 psi. Shut down ISIP - 905 psi. Pump 1470 gal Abromax 1015 x-linked pad. Start sand. Pump 3360 gal Abromax 1015 carrying 5000# 16/30 brown sand ramped from 1 ppg to 3 ppg. Flush with 798 gal linear fluid. ISIP - 1002 psi. 5 min - 830 psi. 10 min - 780 psi. 15 min - 750 psi. Close well in. RDMO frac equipment. RU to flowback. Total load to recover is 664 bbl. Total fluid recovered this AM is 256 BW and 40 BO. FTP is stable at 15 psi on 2" choke. Note: no frac balls recovered. Will RU CTU this AM and drill out balls.