

WELL LOGS

K Z

API number:	30-025-38585		
OGRID:		Operator:	CIMAREX ENERGY CO
		Property:	BIERSTADT 12 FEE # 4

surface	ULSTR:	O	12	T	15S	R	37E
			430	FSL	1750	FEL	

BH Loc	ULSTR:	J	12	T	15S	R	37E
			2292	FSL	1741	FEL	

Ground Level:	3776	DF:	3796	KB:	3797	
Datum:	KB			TD:	11005	

Land:	FEE	Completion Date: (1)	2/16/2008	
		Date Logs Received:	6/12/2008	***LATE***
		Date Logs Due in: (2)	3/7/2008	

Confidential:	NO			Date out:		
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Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval		
TD LD CN/GR	200	9774	Three Detector Litho-Density
HRLA	4536	9751	High Resolution Laterolog
RCBL	2410	9672	Radial Cement Bond Log

K Z

OCD TOPS

Rustler	2150	Strawn			
Tansill		Atoka			
Yates	3159	Morrow			
7 rvrs	3344				
		Austin			
		Chester			
Queen	3950	Miss Lime			
Penrose					
Grayburg					
San Andres	4444				
Glorieta	6757				
Paddock					
Blinbry					
Tubb	7559				
Drinkard	7808				
Abo	8268				
Wolfcamp	9394				

Results of Directional Survey

API number:	30-025-38585		
OGRID:		Operator:	CIMAREX ENERGY CO
		Property:	BIERSTADT 12 FEE # 4

surface	ULSTR:	O	12	T 15S	R 37E
		430	FSL	1750	FEL

BH Loc	ULSTR:	J	12	T 15S	R 37E
		2292	FSL	1741	FEL

	MD	N/S	E/W	VD
	9611	473.86	-16.62	9411.77
TOP PERFS/OH	9634	496.18	-22.14	9412.26
	9636	498.12	-22.62	9412.30
	10935	1791.94	11.94	9380.55
BOT PERFS/OH	11005	1861.89	9.24	9379.82
	10962	1818.92	10.90	9380.27

NEXT TO LAST	10935	1791.94	11.94	9380.55
LAST READING	10962	1818.92	10.90	9380.27
TD	11005	1861.89	9.24	9379.82

Surface Location	430	FS	1750	FE
Projected BHL	2292	FS	1741	FE
Location of				
Top Perfs/OH	926	FS	1772	FE
Bottom Perfs/OH	2292	FS	1741	FE

SUMMARY of Subsurface Locations

Surface Location	O-12-15S-37E	430	FS	1750	FE	Vert. Depth
Top Perfs/OH	O-12-15S-37E	926	FS	1772	FE	9412.26
Bottom Perfs/OH	J-12-15S-37E	2292	FS	1741	FE	9379.82
Projected TD	J-12-15S-37E	2292	FS	1741	FE	9379.82

RECEIVED

JUN 12 2008

HOBBS OIL

OPERATOR: Cimarex Energy Corp.
 WELL/LEASE: Bierstadt 12 Fee #4
 COUNTY: Lea County, NM
 Sec.12 T15S R37E

STATE OF NEW MEXICO
DEVIATION REPORT

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
209	1/2	5,739	1/2
585	1	6,213	1 1/2
1,037	3/4	6,582	1 3/4
1,517	1/2	7,032	2 1/2
1,952	0	7,222	2 1/2
2,407	1/4	7,539	2 1/4
2,890	3/4	8,039	5 1/2
3,324	1/2	8,414	4 3/4
3,766	1 3/4	8,670	4
4,050	3/4	8,920	3 1/4
4,430	1 1/4	9,237	2 1/2
4,845	3/4	9,553	1 3/4
5,286	3/4	9,742	1 1/2

SUR: O-12-15s-37e, 430/S & 1750/E
 BHL: J-12-15s-37e, 2292/S & 1741/E
 API # 30-025-38585

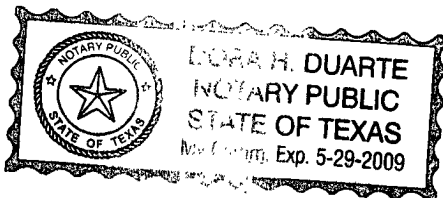
Patriot Drilling, LLC



M. Leroy Peterson, Executive Vice-
 President

The foregoing instrument was acknowledged before me on this 3rd day of January, 2008 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling, LLC.

My Commission Expires: 5/29/2009




Dora H. Duarte
 Notary Public for Midland Co., Texas



SUR: O-12-15s-37e, 430/S & 1750/E
 BHL: J-12-15s-37e, 2292/S & 1741/E
 API # 30-025-38585



Client : Cimarex Energy Company
 Well : Bierstadt 12 Fee #4
 Location : Lea County, New Mexico

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 Date : 1/23/2008
 File : 4013482 S

Vertical Section Calculated Along Azimuth 360.00°
KB Elevation = 3797.00ft GR. Elevation = 3776.00ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %/100	Build %/100	Turn %/100
0	9101.00	3.07	49.20	9096.42	143.12	107.91	143.12	0.00	0.00	0.00
1	9139.00	15.00	352.70	9133.92	148.69	108.06	148.69	35.64	31.39	-148.68
2	9171.00	24.20	342.90	9164.04	159.09	105.60	159.09	30.43	28.75	-30.63
3	9199.00	32.00	330.60	9188.74	171.07	100.25	171.07	34.57	27.86	-43.93
4	9231.00	36.00	335.70	9215.27	187.04	92.22	187.04	15.34	12.50	15.94
5	9263.00	36.60	336.20	9241.06	204.33	84.50	204.33	2.09	1.88	1.56
6	9295.00	36.80	338.00	9266.72	221.95	77.06	221.95	3.42	0.62	5.63
7	9326.00	41.10	338.00	9290.82	240.01	69.76	240.01	13.87	13.87	0.00
8	9358.00	46.20	337.30	9313.97	260.43	61.36	260.43	16.01	15.94	-2.19
9	9390.00	51.30	336.20	9335.06	282.53	51.85	282.53	16.15	15.94	-3.44
10	9421.00	56.30	336.70	9353.36	305.45	41.86	305.45	16.18	16.13	1.61
11	9453.00	61.90	337.80	9369.79	330.77	31.26	330.77	17.75	17.50	3.44
12	9485.00	67.20	338.70	9383.54	357.60	20.56	357.60	16.76	16.56	2.81
13	9516.00	71.80	340.60	9394.39	384.82	10.47	384.82	15.91	14.84	6.13
14	9548.00	76.80	342.70	9403.05	414.05	0.78	414.05	16.85	15.62	6.56
15	9580.00	82.00	343.80	9408.93	444.16	-8.28	444.16	16.60	16.25	3.44
16	9611.00	87.50	344.80	9411.77	473.86	-16.62	473.86	18.03	17.74	3.23
INT	9636.00	90.08	347.46	9412.30	498.12	-22.62	498.12	14.80	10.31	10.63
18	9643.00	90.80	348.20	9412.24	504.97	-24.09	504.97	14.80	10.31	10.62
19	9674.00	92.60	352.00	9411.32	535.48	-29.42	535.48	13.56	5.81	12.26
20	9706.00	90.90	353.80	9410.35	567.22	-33.37	567.22	7.74	-5.31	5.62
21	9737.00	89.30	354.30	9410.29	598.05	-36.58	598.05	5.41	-5.16	1.61
22	9769.00	89.90	356.40	9410.52	629.95	-39.18	629.95	6.82	1.88	6.56
23	9801.00	89.40	355.00	9410.71	661.85	-41.58	661.85	4.65	-1.56	-4.37
24	9831.00	89.30	357.10	9411.05	691.78	-43.64	691.78	7.01	-0.33	7.00
25	9862.00	89.80	358.20	9411.30	722.75	-44.92	722.75	3.90	1.61	3.55
26	9894.00	89.90	0.50	9411.38	754.75	-45.28	754.75	7.19	0.31	7.19
27	9926.00	90.00	0.80	9411.41	786.75	-44.92	786.75	0.99	0.31	0.94
28	9958.00	91.90	2.60	9410.88	818.72	-43.97	818.72	8.18	5.94	5.62
29	9989.00	93.00	3.50	9409.55	849.65	-42.32	849.65	4.58	3.55	2.90
30	10021.00	93.30	5.60	9407.79	881.50	-39.78	881.50	6.62	0.94	6.56
31	10053.00	93.40	4.90	9405.92	913.31	-36.86	913.31	2.21	0.31	-2.19
32	10085.00	94.20	5.20	9403.80	945.12	-34.05	945.12	2.67	2.50	0.94
33	10116.00	94.90	4.20	9401.34	975.91	-31.52	975.91	3.93	2.26	-3.23
34	10148.00	93.70	5.20	9398.94	1007.72	-28.90	1007.72	4.88	-3.75	3.12
35	10179.00	92.80	5.00	9397.19	1038.54	-26.15	1038.54	2.97	-2.90	-0.65



Client : Cimarex Energy Company
Well : Bierstadt 12 Fee #4
Location : Lea County, New Mexico

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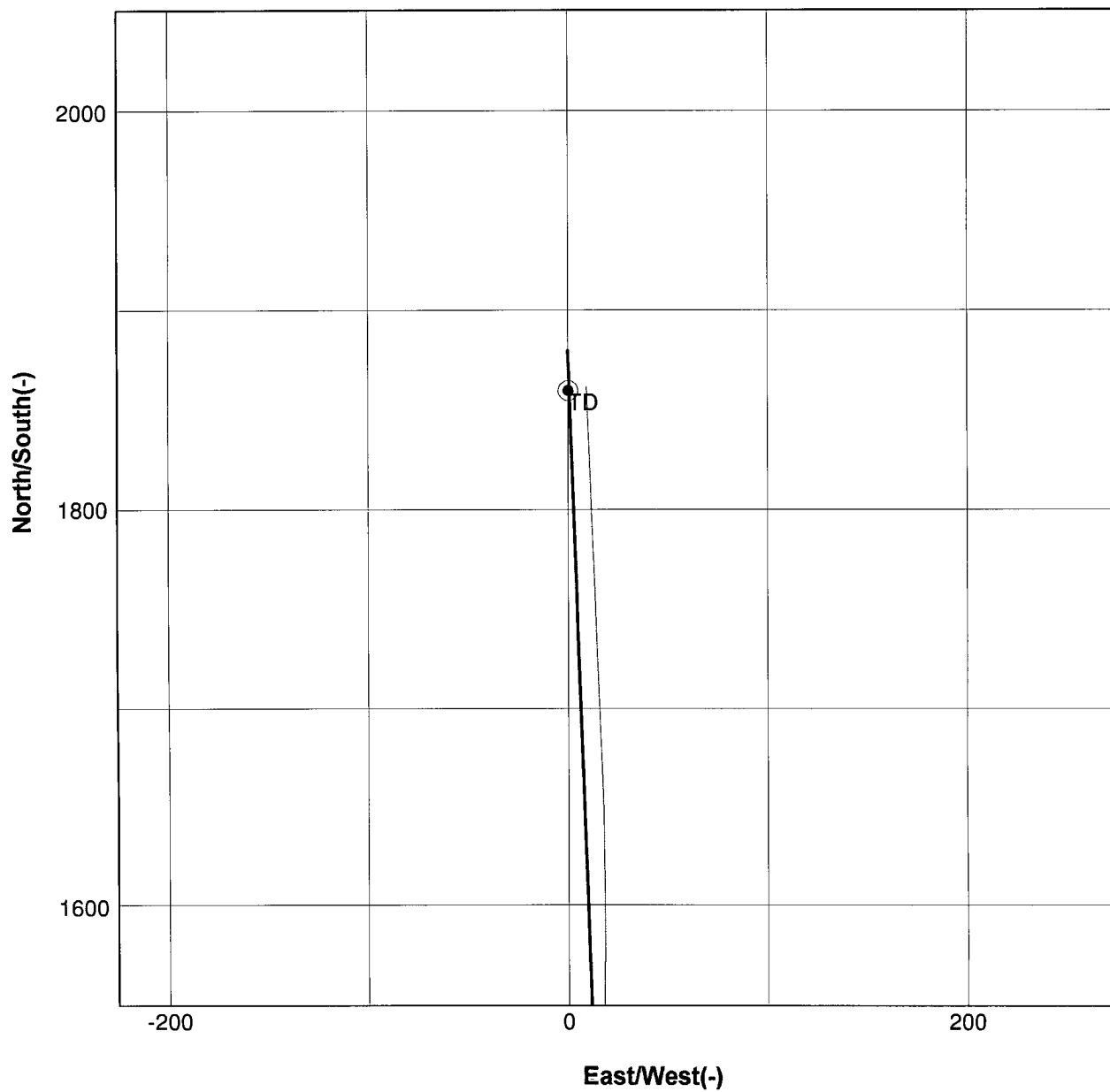
Vertical Section Calculated Along Azimuth 360.00°										
KB Elevation = 3797.00ft				GR. Elevation = 3776.00ft						
	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %/100	Build %/100	Turn %/100
36	10210.00	91.70	5.60	9395.97	1069.39	-23.29	1069.39	4.04	-3.55	1.94
37	10241.00	92.60	5.20	9394.81	1100.23	-20.38	1100.23	3.18	2.90	-1.29
38	10273.00	91.40	6.10	9393.69	1132.05	-17.23	1132.05	4.69	-3.75	2.81
39	10304.00	92.20	6.10	9392.72	1162.86	-13.93	1162.86	2.58	2.58	0.00
40	10336.00	91.40	7.00	9391.71	1194.63	-10.29	1194.63	3.76	-2.50	2.81
41	10367.00	91.70	7.20	9390.87	1225.39	-6.46	1225.39	1.16	0.97	0.65
42	10398.00	90.90	6.30	9390.17	1256.16	-2.81	1256.16	3.88	-2.58	-2.90
43	10430.00	91.70	6.30	9389.44	1287.96	0.70	1287.96	2.50	2.50	0.00
44	10461.00	92.00	5.90	9388.44	1318.77	3.99	1318.77	1.61	0.97	-1.29
45	10492.00	92.40	5.90	9387.25	1349.58	7.17	1349.58	1.29	1.29	0.00
46	10524.00	91.70	5.00	9386.11	1381.42	10.21	1381.42	3.56	-2.19	-2.81
47	10556.00	92.10	4.90	9385.05	1413.28	12.97	1413.28	1.29	1.25	-0.31
48	10587.00	92.30	3.10	9383.86	1444.18	15.13	1444.18	5.84	0.65	-5.81
49	10619.00	92.40	1.70	9382.54	1476.12	16.47	1476.12	4.38	0.31	-4.37
50	10650.00	91.30	1.40	9381.54	1507.10	17.31	1507.10	3.68	-3.55	-0.97
51	10682.00	91.20	0.10	9380.85	1539.09	17.73	1539.09	4.07	-0.31	-4.06
52	10714.00	91.70	1.00	9380.04	1571.07	18.03	1571.07	3.22	1.56	2.81
53	10745.00	90.60	359.40	9379.41	1602.06	18.14	1602.06	6.26	-3.55	-5.16
54	10776.00	90.50	359.20	9379.12	1633.06	17.76	1633.06	0.72	-0.32	-0.65
55	10808.00	89.00	357.80	9379.26	1665.05	16.93	1665.05	6.41	-4.69	-4.37
56	10840.00	88.90	357.80	9379.84	1697.02	15.70	1697.02	0.31	-0.31	0.00
57	10871.00	89.00	357.80	9380.41	1727.99	14.51	1727.99	0.32	0.32	0.00
58	10903.00	90.00	357.60	9380.69	1759.96	13.22	1759.96	3.19	3.12	-0.62
59	10935.00	90.50	357.80	9380.55	1791.94	11.94	1791.94	1.68	1.56	0.62
60	10962.00	90.70	357.80	9380.27	1818.92	10.90	1818.92	0.74	0.74	0.00
EXT	11005.00	90.70	357.80	9379.74	1861.88	9.25	1861.88	0.00	0.00	0.00

Bottom Hole Closure 1861.90ft Along Azimuth 0.28°

Plan View

— Proposed Plan

— MWD Surveys



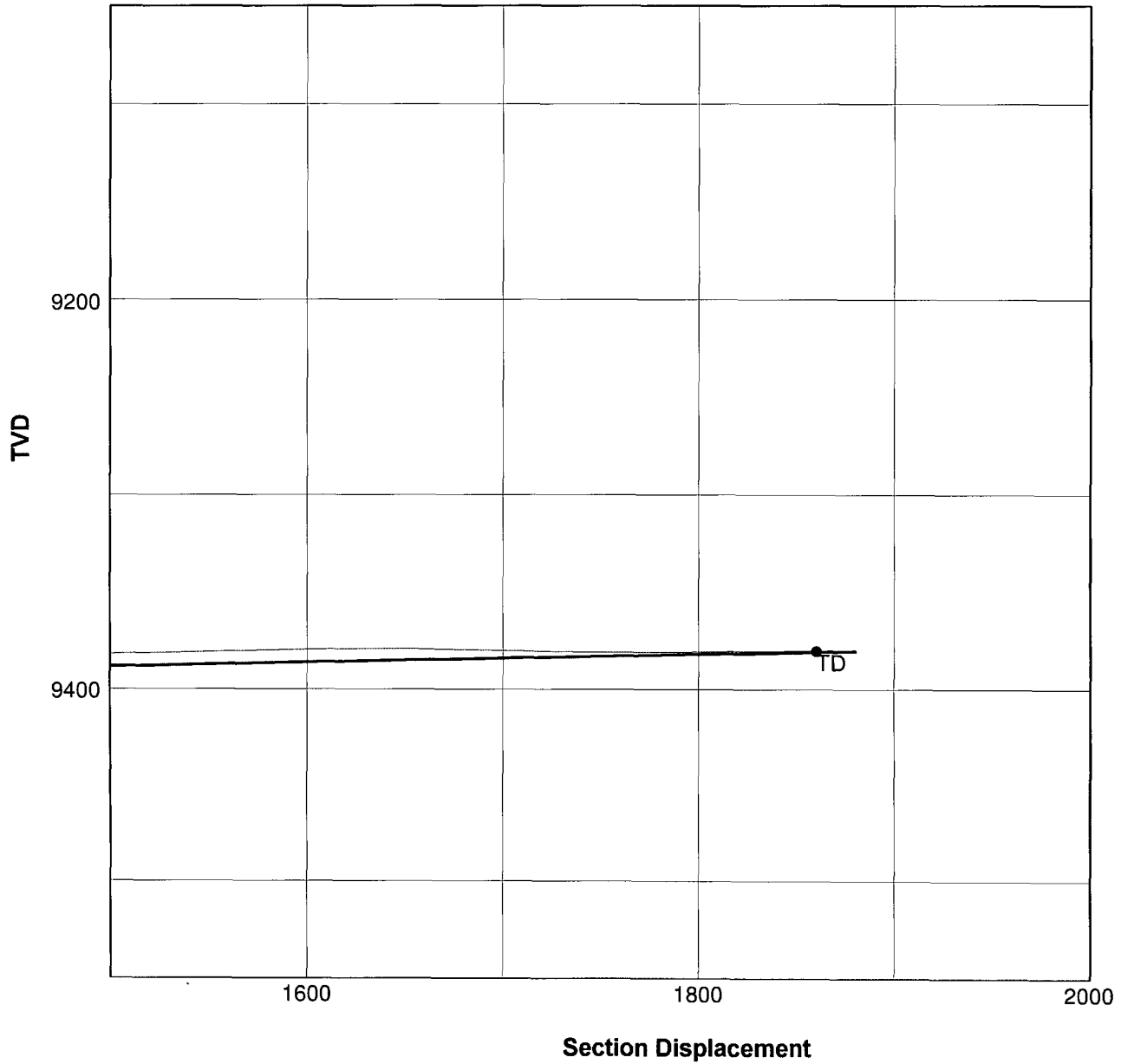
Cimarex Energy Company
Bierstadt 12 Fee #4
Lea County, New Mexico



Section View

— Proposed Plan

— MWD Surveys



Vertical Section Calculated Along Azimuth 360.00°
All units are displayed in Feet

Date :1/23/2008
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