

WELL LOGS

K z

API number:	30-005-28003		
OGRID:		Operator:	CIMAREX ENERGY CO OF COLORADO
		Property:	ENTERPRISE 11 STATE COM # 2

surface	ULSTR:	L	11	T	15S	R	31E
			2310	FSL	330	FWL	

BH Loc	ULSTR:	I	11	T	15S	R	31E
			2025	FSL	4864	FWL	

Ground Level:	4402	DF:	4424	KB:	4425	
Datum:	KB			TD:	13210	

Land:	STATE	Completion Date: (1)	12/13/2008
		Date Logs Received:	3/18/2009
		Date Logs Due in: (2)	1/2/2009

Confidential:	YES		Date out:	3/13/2009
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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	9082	Three Detector Litho-Density
HRLA	3948	9046	High Resolution Laterolog
BHC	3948	9101	Borehole Compensated Sonic
	3948	9082	Caliper
	3948	9025	Hostile Natural Gamma Ray Spectroscopy
	3000	13200	Mud Log

K z

OCD TOPS

Rustler	1397	Strawn		
Tansill		Atoka		
Yates	2421	Morrow		
7 rvrs	2667			
		Austin		
		Chester		
Queen		Miss Lime		
Penrose				
Grayburg				
San Andres	3930			
Glorieta	5360			
Paddock				
Blinbry				
Tubb	6757			
Drinkard	7030			
Abo	7500			
Wolfcamp	8764			

Results of Directional Survey

API number:	30-005-28003		
OGRID:		Operator:	CIMAREX ENERGY CO OF COLORADO
		Property:	ENTERPRISE 11 STATE COM # 2

surface	ULSTR:	L	11	T	15S	R	31E
			2310	FSL	330	FWL	

BH Loc	ULSTR:	I	11	T	15S	R	31E
			2025	FSL	4864	FWL	

	MD	N/S	E/W	VD
	8573.81	16.10	34.77	8572.7
TOP PERFS/OH	8314	21.65	21.91	8313.30
	8593	15.69	35.72	8591.86
	13121	-280.33	4445.12	8850.04
BOT PERFS/OH	13210	-285.48	4533.76	8843.73
	13153	-282.18	4476.99	8847.77

NEXT TO LAST	13121	-280.33	4445.12	8850.04
LAST READING	13153	-282.18	4476.99	8847.77
TD	13210	-285.48	4533.76	8843.73

Surface Location	2310	FS	330	FW
Projected BHL	2025	FS	4864	FW
Location of				
Top Perfs/OH	2332	FS	352	FW
Bottom Perfs/OH	2025	FS	4864	FW

SUMMARY of Subsurface Locations

Surface Location	L-11-15S-31E	2310	FS	330	FW	Vert. Depth
Top Perfs/OH	L-11-15S-31E	2332	FS	352	FW	8313.30
Bottom Perfs/OH	I-11-15S-31E	2025	FS	4864	FW	8843.73
Projected TD	I-11-15S-31E	2025	FS	4864	FW	8843.73

OPERATOR: Cimarex Energy Co.
WELL/LEASE: Enterprise 11 State Com. # 2-H
COUNTY: Chaves Co., New Mexico
Sec 12, T15S, R31E

SUR: L-11-15s-31e, 2310/S & 330/W
BHL: I-11-15s-31e, 2025/S & 4864/W
API # 30-005-28003

STATE OF NEW MEXICO
DEVIATION REPORT

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
377	3/4	5,693	1/2
859	1/4	6,136	1
1,319	1/4	6,547	1
1,815	3/4	7,036	1/2
2,268	1	7,508	1/2
2,742	1/4	7,951	1/2
3,186	1/4	8,394	3
3,636	1/4	8,489	3
3,464	1/4	8,615	2
4,807	1/4	8,742	1 1/2
5,250	1	8,932	1 1/2

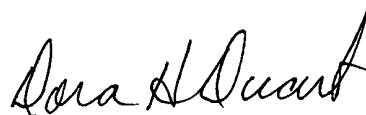
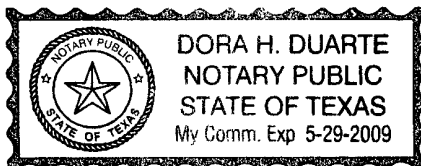
Patriot Drilling, LLC



M. Leroy Peterson, Executive Vice-President

The foregoing instrument was acknowledged before me on this 18th day of November, 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





ENTERPRISE 11 STATE COM #2
CHAVES CO., NEW MEXICO



Weatherford

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8580.00	3.06	113.11	8578.88	15.97	35.08	0.00	0.00	34.01	
2	8595.00	4.61	93.81	8593.84	15.77	36.05	13.33	-49.60	34.99	
3	8600.00	4.61	93.81	8598.83	15.74	36.45	0.00	0.00	35.39	
4	8928.84	89.05	93.81	8804.00	1.22	254.67	25.68	0.00	254.10	
5	13303.02	89.05	93.81	8876.70	-289.20	4618.60	0.00	0.00	4627.65	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northng	Easting	Latitude	Longitude	Slot
#2	0.00	0.00	738632.30	663659.00	33°01'45.916"N	103°47'57.636"W	N/A

TARGET DETAILS

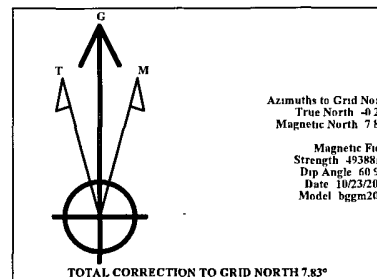
Name	TVD	+N/-S	+E/-W	Northng	Easting	Shape
PBHL	8876.70	-289.20	4618.60	738343.10	668277.60	Point

FIELD DETAILS

Chaves Co., NM (NAD 27)

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: bggm2007

System Datum: Mean Sea Level
Local North: Grid North



LEGEND

— #2.1 Plan #1
— WFT SVY

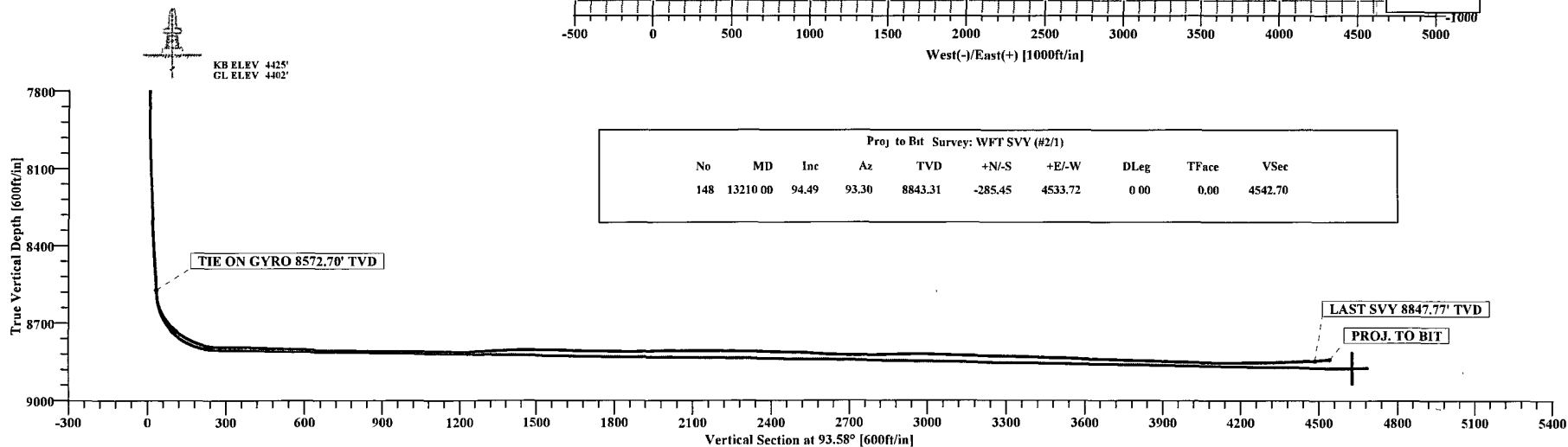
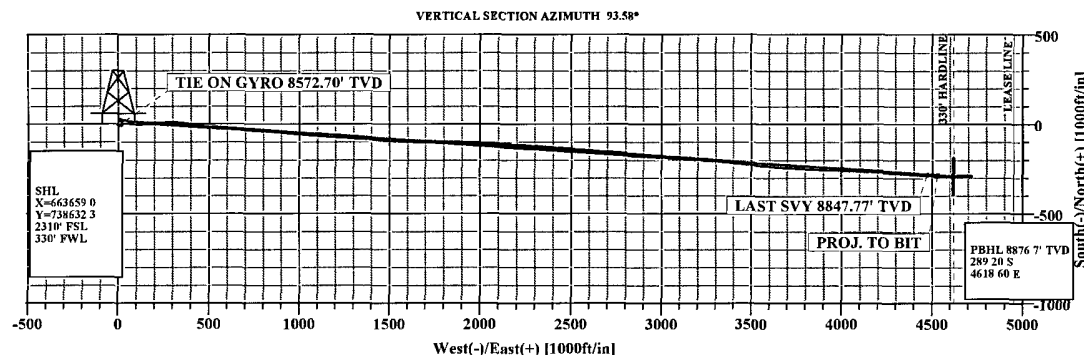
SITE DETAILS

Enterprise 11 State Com #2
2310 FSL/ 330' FWL of SEC 11 T-15-S R-1-E

Site Centre Northng 738632.30
Easting 663659.00

Ground Level 4402.00
Positional Uncertainty 0.00
Convergence 0.29

SUR: L-11-15s-31e, 2310/S & 330/W
BHL: I-11-15s-31e, 2025/S & 4864/W
API # 30-005-28003



Proj to Bit Survey: WFT SVY (#2/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
148	13210.00	94.49	93.30	8843.31	-285.45	4533.72	0.00	0.00	4542.70

Survey: WFT SVY (#2/1)

Created By: Jayme Wilson

Date: 11/11/2008



Weatherford International Ltd.

SURVEY REPORT



Weatherford

Company: CIMAREX	Date: 11/11/2008	Time: 09:36:38	Page: 1
Field: Chaves Co., NM (NAD 27)	Co-ordinate(NE) Reference: Well: #2, Grid North		
Site: Enterprise 11 State Com #2	Vertical (TVD) Reference: SITE 4425.0		
Well: #2	Section (VS) Reference: Well (0.00N,0.00E,93.58Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: WFT SVY	Start Date: 10/28/2008
Company: Weatherford International, Inc	Engineer: Lindsey Maddux
Tool: MWD;MWD - Standard	Tied-to: From: Gyrodata

Field: Chaves Co., NM (NAD 27)

Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: bggm2007

Site: Enterprise 11 State Com #2

2310 FSL' 330' FWL of SEC 11 T-15-S R-31-E

Site Position:	Northing: 738632.30 ft	Latitude: 33 1 45.916 N
From: Map	Easting: 663659.00 ft	Longitude: 103 47 57.636 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 4402.00 ft		Grid Convergence: 0.29 deg

Well: #2	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 738632.30 ft
+E/-W 0.00 ft	Easting: 663659.00 ft
Position Uncertainty: 0.00 ft	Latitude: 33 1 45.916 N
	Longitude: 103 47 57.636 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 10/23/2008	Above System Datum: Mean Sea Level
Field Strength: 49388 nT	Declination: 8.12 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.97 deg
ft	+N/-S
	+E/-W
	ft
0.00	0.00
	0.00
	93.58
	deg

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	Comment
8573.81	3.07	113.15	8572.70	16.10	34.77	33.70	0.00	0.00	0.00	TIE ON GYRO 8572.70'
8593.00	3.07	113.15	8591.86	15.69	35.72	34.67	0.00	0.00	0.00	
8643.00	19.43	100.43	8640.73	13.65	45.19	44.25	32.90	32.72	-25.44	
8674.00	28.72	103.86	8669.01	10.92	57.52	56.73	30.29	29.97	11.06	
8705.00	37.94	105.20	8694.88	6.63	73.99	73.43	29.83	29.74	4.32	
8737.00	45.86	98.53	8718.69	2.34	94.88	94.55	28.37	24.75	-20.84	
8768.00	51.95	89.84	8739.08	0.72	118.13	117.86	28.82	19.65	-28.03	
8800.00	58.77	86.97	8757.26	1.48	144.43	144.05	22.55	21.31	-8.97	
8832.00	65.30	89.90	8772.26	2.23	172.66	172.19	21.95	20.41	9.16	
8864.00	71.68	86.82	8783.99	3.10	202.40	201.81	21.85	19.94	-9.62	
8879.00	75.10	89.30	8788.28	3.58	216.76	216.12	27.76	22.80	16.53	
8894.00	79.11	88.18	8791.63	3.90	231.38	230.68	27.71	26.73	-7.47	
8925.00	87.28	85.40	8795.30	5.63	262.08	261.22	27.82	26.35	-8.97	
8957.00	90.54	89.86	8795.91	6.96	294.04	293.03	17.26	10.19	13.94	
8989.00	90.09	94.94	8795.73	5.62	326.00	325.01	15.94	-1.41	15.87	
9020.00	88.83	96.86	8796.02	2.43	356.83	355.98	7.41	-4.06	6.19	
9052.00	88.08	97.21	8796.89	-1.49	388.58	387.91	2.59	-2.34	1.09	
9084.00	87.91	97.03	8798.01	-5.45	420.31	419.83	0.77	-0.53	-0.56	
9116.00	87.23	95.75	8799.36	-9.01	452.08	451.76	4.53	-2.12	-4.00	
9147.00	87.57	95.63	8800.77	-12.08	482.90	482.71	1.16	1.10	-0.39	
9179.00	88.54	95.72	8801.86	-15.24	514.72	514.67	3.04	3.03	0.28	
9211.00	89.11	95.54	8802.51	-18.38	546.56	546.64	1.87	1.78	-0.56	
9243.00	88.09	95.04	8803.29	-21.33	578.42	578.62	3.55	-3.19	-1.56	
9274.00	86.32	94.37	8804.81	-23.87	609.27	609.57	6.10	-5.71	-2.16	



Weatherford International Ltd.

SURVEY REPORT

**Weatherford**

Company: CIMAREX
Field: Chaves Co., NM (NAD 27)
Site: Enterprise 11 State Com #2
Well: #2
Wellpath: 1

Date: 11/11/2008 Time: 09:36:38 Page: 2
Co-ordinate(NE) Reference: Well: #2, Grid North
Vertical (TVD) Reference: SITE 4425.0
Section (VS) Reference: Well (0.00N,0.00E,93.58Azi)
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	Comment
9306.00	86.14	93.73	8806.91	-26.13	641.12	641.50	2.07	-0.56	-2.00	
9338.00	87.74	93.17	8808.62	-28.05	673.02	673.46	5.30	5.00	-1.75	
9370.00	89.63	93.09	8809.35	-29.80	704.96	705.45	5.91	5.91	-0.25	
9402.00	90.60	92.96	8809.29	-31.48	736.92	737.44	3.06	3.03	-0.41	
9433.00	90.03	93.67	8809.12	-33.28	767.86	768.44	2.94	-1.84	2.29	
9464.00	88.49	94.45	8809.52	-35.47	798.78	799.44	5.57	-4.97	2.52	
9497.00	88.43	94.93	8810.40	-38.17	831.66	832.42	1.47	-0.18	1.45	
9528.00	88.94	94.83	8811.12	-40.81	862.54	863.40	1.68	1.65	-0.32	
9560.00	89.17	94.41	8811.64	-43.38	894.43	895.39	1.50	0.72	-1.31	
9592.00	88.37	95.20	8812.33	-46.06	926.31	927.38	3.51	-2.50	2.47	
9624.00	88.66	95.35	8813.16	-49.00	958.16	959.35	1.02	0.91	0.47	
9656.00	90.54	95.42	8813.38	-52.01	990.02	991.34	5.88	5.87	0.22	
9688.00	91.63	95.70	8812.78	-55.11	1021.86	1023.31	3.52	3.41	0.87	
9720.00	90.94	95.54	8812.06	-58.24	1053.70	1055.28	2.21	-2.16	-0.50	
9752.00	89.52	94.94	8811.93	-61.16	1085.57	1087.27	4.82	-4.44	-1.87	
9784.00	87.91	94.37	8812.65	-63.76	1117.45	1119.25	5.34	-5.03	-1.78	
9816.00	87.63	94.05	8813.89	-66.10	1149.34	1151.23	1.33	-0.87	-1.00	
9848.00	88.54	94.01	8814.96	-68.35	1181.24	1183.21	2.85	2.84	-0.12	
9880.00	90.54	93.27	8815.22	-70.38	1213.18	1215.20	6.66	6.25	-2.31	
9912.00	92.89	93.52	8814.26	-72.28	1245.10	1247.19	7.39	7.34	0.78	
9944.00	93.75	94.65	8812.41	-74.55	1276.97	1279.13	4.43	2.69	3.53	
9975.00	92.82	93.78	8810.63	-76.83	1307.83	1310.08	4.10	-3.00	-2.81	
10007.00	92.66	93.93	8809.10	-78.98	1339.72	1342.04	0.68	-0.50	0.47	
10039.00	92.77	93.36	8807.59	-81.01	1371.62	1374.01	1.81	0.34	-1.78	
10071.00	91.51	93.84	8806.39	-83.02	1403.54	1405.98	4.21	-3.94	1.50	
10103.00	91.34	94.13	8805.60	-85.24	1435.45	1437.97	1.05	-0.53	0.91	
10134.00	90.37	94.04	8805.13	-87.45	1466.37	1468.97	3.14	-3.13	-0.29	
10166.00	90.20	93.86	8804.97	-89.65	1498.29	1500.97	0.77	-0.53	-0.56	
10198.00	90.43	93.96	8804.80	-91.83	1530.22	1532.96	0.78	0.72	0.31	
10230.00	89.97	93.11	8804.69	-93.81	1562.15	1564.96	3.02	-1.44	-2.66	
10262.00	88.26	92.19	8805.18	-95.29	1594.12	1596.95	6.07	-5.34	-2.87	
10294.00	87.69	91.90	8806.31	-96.43	1626.07	1628.92	2.00	-1.78	-0.91	
10325.00	87.91	91.50	8807.50	-97.35	1657.04	1659.88	1.47	0.71	-1.29	
10358.00	88.54	91.39	8808.52	-98.18	1690.01	1692.84	1.94	1.91	-0.33	
10389.00	89.00	91.21	8809.19	-98.88	1721.00	1723.81	1.59	1.48	-0.58	
10421.00	89.29	91.70	8809.67	-99.69	1752.98	1755.79	1.78	0.91	1.53	
10452.00	88.77	91.79	8810.19	-100.64	1783.96	1786.77	1.70	-1.68	0.29	
10483.00	88.94	91.82	8810.81	-101.61	1814.94	1817.75	0.56	0.55	0.10	
10515.00	89.11	91.18	8811.36	-102.45	1846.93	1849.72	2.07	0.53	-2.00	
10547.00	90.37	91.20	8811.50	-103.12	1878.92	1881.69	3.94	3.94	0.06	
10556.00	90.89	91.42	8811.40	-103.32	1887.92	1890.68	6.27	5.78	2.44	
10587.00	91.80	91.66	8810.67	-104.16	1918.90	1921.65	3.04	2.94	0.77	
10619.00	90.71	91.58	8809.97	-105.06	1950.87	1953.63	3.42	-3.41	-0.25	
10651.00	90.37	92.06	8809.67	-106.08	1982.86	1985.61	1.84	-1.06	1.50	
10682.00	89.40	92.46	8809.73	-107.30	2013.83	2016.60	3.38	-3.13	1.29	
10714.00	88.72	93.20	8810.26	-108.88	2045.79	2048.59	3.14	-2.12	2.31	
10746.00	89.29	93.35	8810.82	-110.71	2077.73	2080.59	1.84	1.78	0.47	
10778.00	90.14	93.32	8810.97	-112.57	2109.68	2112.59	2.66	2.66	-0.09	
10809.00	91.06	93.31	8810.65	-114.36	2140.62	2143.59	2.97	2.97	-0.03	
10841.00	90.26	93.45	8810.28	-116.25	2172.56	2175.58	2.54	-2.50	0.44	
10873.00	88.37	93.49	8810.66	-118.18	2204.50	2207.58	5.91	-5.91	0.12	
10904.00	87.74	93.86	8811.72	-120.17	2235.42	2238.56	2.36	-2.03	1.19	



Weatherford International Ltd.

SURVEY REPORT

**Weatherford**

Company: CIMAREX
Field: Chaves Co., NM (NAD 27)
Site: Enterprise 11 State Com #2
Well: #2
Wellpath: 1

Date: 11/11/2008 Time: 09:36:38 Page: 3
Co-ordinate(NE) Reference: Well: #2, Grid North
Vertical (TVD) Reference: SITE 4425.0
Section (VS) Reference: Well (0.00N,0.00E,93.58Azi)
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	Comment
10936.00	88.60	94.25	8812.74	-122.43	2267.32	2270.54	2.95	2.69	1.22	
10968.00	89.57	94.32	8813.25	-124.82	2299.23	2302.54	3.04	3.03	0.22	
10999.00	90.20	94.02	8813.31	-127.08	2330.15	2333.53	2.25	2.03	-0.97	
11031.00	89.23	94.31	8813.47	-129.40	2362.06	2365.53	3.16	-3.03	0.91	
11063.00	87.97	94.72	8814.25	-131.92	2393.95	2397.52	4.14	-3.94	1.28	
11095.00	88.14	94.75	8815.34	-134.56	2425.82	2429.49	0.54	0.53	0.09	
11127.00	89.06	94.43	8816.12	-137.12	2457.71	2461.48	3.04	2.87	-1.00	
11159.00	88.60	94.58	8816.77	-139.63	2489.61	2493.47	1.51	-1.44	0.47	
11191.00	87.69	94.91	8817.81	-142.28	2521.48	2525.44	3.02	-2.84	1.03	
11222.00	85.23	94.87	8819.72	-144.91	2552.31	2556.37	7.94	-7.94	-0.13	
11254.00	84.93	94.54	8822.47	-147.53	2584.08	2588.25	1.39	-0.94	-1.03	
11286.00	87.23	94.25	8824.65	-149.97	2615.91	2620.17	7.24	7.19	-0.91	
11318.00	88.37	94.37	8825.88	-152.38	2647.79	2652.14	3.58	3.56	0.37	
11347.00	88.43	94.59	8826.69	-154.64	2676.69	2681.13	0.79	0.21	0.76	
11378.00	89.11	94.52	8827.36	-157.10	2707.59	2712.12	2.21	2.19	-0.23	
11410.00	89.91	94.21	8827.63	-159.54	2739.50	2744.11	2.68	2.50	-0.97	
11442.00	90.54	94.42	8827.51	-161.95	2771.40	2776.11	2.08	1.97	0.66	
11474.00	91.29	94.60	8827.00	-164.46	2803.30	2808.10	2.41	2.34	0.56	
11506.00	91.97	94.52	8826.09	-167.01	2835.19	2840.08	2.14	2.12	-0.25	
11538.00	92.15	95.05	8824.93	-169.67	2867.05	2872.05	1.75	0.56	1.66	
11568.00	90.94	95.05	8824.13	-172.31	2896.93	2902.03	4.03	-4.03	0.00	
11600.00	91.11	94.87	8823.55	-175.08	2928.80	2934.02	0.77	0.53	-0.56	
11631.00	90.37	94.75	8823.15	-177.68	2959.69	2965.01	2.42	-2.39	-0.39	
11663.00	89.06	94.11	8823.31	-180.15	2991.59	2997.00	4.56	-4.09	-2.00	
11694.00	87.46	93.99	8824.25	-182.34	3022.50	3027.99	5.18	-5.16	-0.39	
11726.00	87.85	93.95	8825.56	-184.55	3054.40	3059.96	1.23	1.22	-0.12	
11758.00	88.49	93.61	8826.58	-186.66	3086.31	3091.94	2.26	2.00	-1.06	
11790.00	88.37	93.52	8827.46	-188.65	3118.24	3123.93	0.47	-0.37	-0.28	
11821.00	88.54	93.71	8828.30	-190.60	3149.16	3154.92	0.82	0.55	0.61	
11853.00	88.83	94.03	8829.03	-192.76	3181.08	3186.91	1.35	0.91	1.00	
11885.00	88.83	94.03	8829.69	-195.01	3213.00	3218.90	0.00	0.00	0.00	
11917.00	89.00	95.05	8830.29	-197.54	3244.89	3250.89	3.23	0.53	3.19	
11948.00	88.66	95.34	8830.92	-200.35	3275.76	3281.87	1.44	-1.10	0.94	
11980.00	88.83	95.37	8831.63	-203.34	3307.61	3313.85	0.54	0.53	0.09	
12011.00	89.57	95.51	8832.06	-206.27	3338.47	3344.83	2.43	2.39	0.45	
12043.00	88.03	95.47	8832.73	-209.33	3370.31	3376.81	4.81	-4.81	-0.12	
12075.00	86.94	96.26	8834.13	-212.60	3402.11	3408.75	4.21	-3.41	2.47	
12107.00	87.28	96.30	8835.75	-216.10	3433.88	3440.67	1.07	1.06	0.12	
12138.00	88.03	96.13	8837.01	-219.45	3464.67	3471.61	2.48	2.42	-0.55	
12170.00	88.94	96.15	8837.86	-222.87	3496.48	3503.57	2.84	2.84	0.06	
12202.00	88.03	95.79	8838.71	-226.20	3528.29	3535.53	3.06	-2.84	-1.12	
12234.00	87.05	95.39	8840.08	-229.31	3560.11	3567.48	3.31	-3.06	-1.25	
12265.00	87.28	95.16	8841.61	-232.16	3590.94	3598.43	1.05	0.74	-0.74	
12297.00	88.09	94.87	8842.91	-234.95	3622.79	3630.39	2.69	2.53	-0.91	
12328.00	89.06	94.95	8843.68	-237.61	3653.67	3661.37	3.14	3.13	0.26	
12360.00	88.54	94.35	8844.35	-240.20	3685.55	3693.36	2.48	-1.62	-1.87	
12392.00	87.58	93.60	8845.43	-242.42	3717.46	3725.34	3.81	-3.00	-2.34	
12424.00	87.86	93.25	8846.70	-244.33	3749.38	3757.32	1.40	0.87	-1.09	
12456.00	88.54	93.22	8847.71	-246.13	3781.31	3789.30	2.13	2.12	-0.09	
12487.00	89.29	93.00	8848.29	-247.81	3812.26	3820.29	2.52	2.42	-0.71	
12519.00	88.43	92.71	8848.93	-249.41	3844.21	3852.28	2.84	-2.69	-0.91	
12551.00	87.06	92.21	8850.19	-250.78	3876.16	3884.25	4.56	-4.28	-1.56	
12583.00	87.35	91.84	8851.75	-251.91	3908.10	3916.20	1.47	0.91	-1.16	



Weatherford International Ltd.

SURVEY REPORT

**Weatherford**

Company: CIMAREX
Field: Chaves Co., NM (NAD 27)
Site: Enterprise 11 State Com #2
Well: #2
Wellpath: 1

Date: 11/11/2008 Time: 09:36:38 Page: 4
Co-ordinate(NE) Reference: Well: #2, Grid North
Vertical (TVD) Reference: SITE 4425.0
Section (VS) Reference: Well (0.00N,0.00E,93.58Azi)
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	Comment
12614.00	88.20	91.82	8852.95	-252.90	3939.06	3947.16	2.74	2.74	-0.06	
12646.00	89.17	91.56	8853.69	-253.84	3971.04	3979.14	3.14	3.03	-0.81	
12678.00	88.77	92.63	8854.26	-255.01	4003.01	4011.12	3.57	-1.25	3.34	
12710.00	89.12	92.97	8854.85	-256.58	4034.97	4043.11	1.52	1.09	1.06	
12741.00	88.60	92.90	8855.47	-258.16	4065.92	4074.10	1.69	-1.68	-0.23	
12773.00	88.83	92.69	8856.19	-259.72	4097.87	4106.09	0.97	0.72	-0.66	
12804.00	89.69	92.81	8856.59	-261.21	4128.83	4137.09	2.80	2.77	0.39	
12836.00	90.43	92.62	8856.55	-262.72	4160.80	4169.08	2.39	2.31	-0.59	
12868.00	91.12	92.90	8856.12	-264.27	4192.76	4201.08	2.33	2.16	0.87	
12900.00	90.54	93.27	8855.66	-265.99	4224.71	4233.07	2.15	-1.81	1.16	
12931.00	90.09	94.07	8855.49	-267.97	4255.64	4264.07	2.96	-1.45	2.58	
12963.00	90.20	94.03	8855.41	-270.23	4287.56	4296.07	0.37	0.34	-0.12	
12993.00	90.83	94.09	8855.14	-272.36	4317.49	4326.07	2.11	2.10	0.20	
13025.00	91.74	93.75	8854.42	-274.54	4349.40	4358.06	3.04	2.84	-1.06	
13057.00	92.26	93.48	8853.30	-276.56	4381.32	4390.04	1.83	1.62	-0.84	
13089.00	92.89	93.35	8851.87	-278.46	4413.23	4422.01	2.01	1.97	-0.41	
13121.00	93.64	93.34	8850.04	-280.33	4445.12	4453.95	2.34	2.34	-0.03	
13153.00	94.49	93.30	8847.77	-282.18	4476.99	4485.87	2.66	2.66	-0.12	LAST SVY 8847.77' TV
13210.00	94.49	93.30	8843.31	-285.45	4533.72	4542.70	0.00	0.00	0.00	PROJ. TO BIT

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
8573.81	8572.70	TIE ON GYRO 8572.70' TVD
13153.00	8847.77	LAST SVY 8847.77' TVD
13210.00	8843.31	PROJ. TO BIT



Top of RSB Packer: 8,312'

WINDOW @ ??FT
3 1/2" Frac Port @ 8,796'
3 3/4" Ball Actuated

#2 Anchor @ 8,850'

#7 Iso=Pak @ 8,993'

3 1/4" Frac Port @ 9,301'
3 1/2" Ball Actuated

#6 Iso-Pak @ 9,614'

3" Frac Port @ 9,794"
3 1/4" Ball Actuated

#5 Iso=Pak @ 10,284'

2 3/4" Frac Port A 10,553'
3" Ball Actuated

#4 Iso-Pak @ 10,953'

2 1/2 Frac Port @ 11,262'
2 3/4" Ball Actuated

#3 Iso-Pak @ 11,532'

2 1/4 Frac Port @ 11,756'
2 1/2" Ball Actuated

#2 Iso-Pak @ 12,066'

2" Frac Port @ 12,377'
2 1/4" Ball Actuated

#1 Iso-Pak @ 12,561'

#1 Anchor @ 12,791'

Pump Out Plug @ 12,882'

DOWN HOLE WELL PROFILE

WELL NAME			Enterprise 11 State #2H			DATE		11/13/08					
SUPERVISOR			Jackie Brimer			TOOL HAND		Ray Lollar					
PHONE #			575-390-4697			PHONE #		432-425-2193					
RIG #			Patriot Rig #4			FIELD TICKET #		11410					
ELEVATIONS													
KB ELEV		GL ELEV		KB TO THF		KB TO SCF		RIG KBD		PBTD			
								19					
CASING / OPEN HOLE LAYOUT				OD (IN)		LANDED DEPTH				WEIGHT (LB/FT)		TOP OF (FTKB)	
CASING DESCRIPTION				7						26			
WINDOW DESCRIPTION				7		8,584'-8,593'							
OPEN HOLE DESCRIPTION				6 1/8		13209.00				JUNCTION @		8,593'	
DESCRIPTION													
STEERING DIRECTIONS													
DOWNHOLE DESCRIPTION FROM BOTTOM UP (Tubing String)													
BOTTOM @		DESCRIPTION						LENGTH		ID		OD	
12882.00		Peak Pump Off Plug with 3/4" ID and check valve assembly						0.94		0.75		4.50	
12881.06		3 1/2 8rd Pin x 4 1/2 LTC Box, P-110 cross-over						0.89		4.00		5.00	
12880.17		2 Joints 4 1/2, 11.6#, P-110 LTC Liner						86.09		4.00		4.50	
12794.08		4 1/2 x 2', 11.6#, P-110 LTC Liner sub						2.07		4.00		4.50	
12792.01		7 x 4 1/2 Peak Rotational Centralizer						0.58		4.00		5.88	
12791.43		7 x 4 1/2 Peak Hydro-Pak Anchor #1						4.28		4.00		5.88	
12787.15		4 1/2 x 6' 11.6,# P-110, LTC Liner Sub						6.09		4.00		4.50	
12781.06		5 Joints 4 1/2, 11.6#, P-110 LTC Liner						216.63		4.00		4.50	
12664.43		4 1/2 x 2', 11.6#, P-110 LTC Liner sub						2.07		4.00		4.50	
12662.36		7 x 4 1/2 Peak Rotational Centralizer						0.58		4.00		5.88	
12661.78		7 x 4 1/2 eak Extreme Service Isolation Packer with 10K HTHP Element System #1						5.53		4.00		5.75	
12556.25		4 1/2 x 6' 11.6,# P-110, LTC Liner Sub						6.08		4.00		4.50	
12550.17		4 Joints 4 1/2, 11.6#, P-110 LTC Liner						172.80		4.00		4.50	
12377.37		7 x 4 1/2 Peak Selective Sand Frac Sleeve with 2" ID Seat (2 1/4" Ball Actuated) #1						2.92		2.06		5.88	
12374.45		7 Joints 4 1/2, 11.6#, P-110 LTC Liner						304.89		4.00		4.50	
12069.56		4 1/2 x 2', 11.6#, P-110 LTC Liner sub						2.07		4.00		4.50	
12067.49		7 x 4 1/2 Peak Rotational Centralizer						0.58		4.00		5.88	
12066.91		7 x 4 1/2 eak Extreme Service Isolation Packer with 10K HTHP Element System #2						5.53		4.00		5.75	
12061.38		4 1/2 x 6' 11.6,# P-110, LTC Liner Sub						6.08		4.00		4.50	
12055.30		7 Joints 4 1/2, 11.6#, P-110 LTC Liner						299.30		4.00		4.50	
11756.00		7 x 4 1/2 Peak Selective Sand Frac Sleeve with 2 1/4" ID Seat (2 1/2" Ball Actuated) #						2.92		2.31		5.88	
11753.08		5 Joints 4 1/2, 11.6#, P-110 LTC Liner						217.90		4.00		4.50	
11535.18		4 1/2 x 2', 11.6#, P-110 LTC Liner sub						2.07		4.00		4.50	
11533.11		7 x 4 1/2 Peak Rotational Centralizer						0.58		4.00		4.50	
11532.53		ment System #3						5.53		4.00		5.75	
11527.00		4 1/2 x 6' 11.6,# P-110, LTC Liner Sub						6.08		4.00		4.50	
11520.92		6 Joints 4 1/2, 11.6#, P-110 LTC Liner						258.39		4.00		4.50	
11262.53		7 x 4 1/2 Peak Selective Sand Frac Sleeve with 2 1/2" ID Seat (2 3/4" Ball Actuated) #						2.92		2.56		5.88	
11259.61		7 Joints 4 1/2, 11.6#, P-110 LTC Liner						303.45		4.00		4.50	
10956.16		4 1/2 x 2', 11.6#, P-110 LTC Liner sub						2.07		4.00		4.50	
10954.09		7 x 4 1/2 Peak Rotational Centralizer						0.58		4.00		5.88	
10953.51		7 x 4 1/2 eak Extreme Service Isolation Packer with 10K HTHP Element System #4						5.53		4.00		5.75	
10947.98		4 1/2 x 6' 11.6,# P-110, LTC Liner Sub						6.08		4.00		4.50	
10941.90		9 Joints 4 1/2, 11.6#, P-110 LTC Liner						388.03		4.00		4.50	
10553.87		7 x 4 1/2 Peak Selective Sand Frac Sleeve with 2 3/4" ID Seat (3" Ball Actuated) #4						2.92		2.81		5.88	
10550.95		6 Joints 4 1/2, 11.6#, P-110 LTC Liner						263.43		4.00		4.50	
10287.52		4 1/2 x 2', 11.6#, P-110 LTC Liner sub						2.07		4.00		4.50	
10285.45		7 x 4 1/2 Peak Rotational Centralizer						0.58		4.00		5.88	
10284.87		7 x 4 1/2 eak Extreme Service Isolation Packer with 10K HTHP Element System #5						5.53		4.00		5.75	
10279.34		4 1/2 x 6' 11.6,# P-110, LTC Liner Sub						6.08		4.00		4.50	
10273.26		11 Joints 4 1/2, 11.6#, P-110 LTC Liner						478.68		4.00		4.50	
9794.58		7 x 4 1/2 Peak Selective Sand Frac Sleeve with 3" ID Seat (3 1/4" Ball Actuated) #5						2.92		3.06		5.88	
9791.66		4 Joints 4 1/2, 11.6#, P-110 LTC Liner						174.30		4.00		4.50	
9617.36		4 1/2 x 2', 11.6#, P-110 LTC Liner sub						2.07		4.00		4.50	
9615.29		7 x 4 1/2 Peak Rotational Centralizer						0.58		4.00		5.88	
9614.71		7 x 4 1/2 eak Extreme Service Isolation Packer with 10K HTHP Element System #6						5.53		4.00		5.75	
9609.18		4 1/2 x 6' 11.6,# P-110, LTC Liner Sub						6.08		4.00		4.50	
9603.10		7 Joints 4 1/2, 11.6#, P-110 LTC Liner						301.82		4.00		4.50	
9301.28		7 x 4 1/2 Peak Selective Sand Frac Sleeve with 3 1/4" ID Seat (3 1/2" Ball Actuated) #						2.92		3.31		5.88	
9298.36		7 Joints 4 1/2, 11.6#, P-110 LTC Liner						302.47		4.00		4.50	
8995.89		4 1/2 x 2', 11.6#, P-110 LTC Liner sub						2.07		4.00		4.50	
8993.82		7 x 4 1/2 Peak Rotational Centralizer						0.58		4.00		5.88	
8993.24		7 x 4 1/2 eak Extreme Service Isolation Packer with 10K HTHP Element System #7						5.53		4.00		5.75	
8987.71		4 1/2 x 6' 11.6,# P-110, LTC Liner Sub						6.08		4.00		4.50	
8981.63		3 Joints 4 1/2, 11.6#, P-110 LTC Liner						128.93		4.00		4.50	
8852.70		4 1/2 x 2', 11.6#, P-110 LTC Liner sub						2.07		4.00		4.50	
8850.63		7 x 4 1/2 Peak Rotational Centralizer						0.58		4.00		4.50	
8850.05		7 x 4 1/2 Peak Hydro-Pak Anchor #1						4.28		4.00		5.88	
8845.77		4 1/2 x 6' 11.6,# P-110, LTC Liner Sub						6.09		4.00		5.88	
8839.68		1 Joint 4 1/2, 11.6#, P-110 LTC Liner						43.03		4.00		4.50	
8796.65		7 x 4 1/2 Peak Selective Sand Frac Sleeve with 3 1/2" ID Seat (3 3/4" Ball Actuated) #						2.92		3.56		5.88	
8793.73		4 1/2 LTC pin x 4 1/2 BTC cross-over, P-110						1.00		4.00		4.50	
8792.73		11 Joints 4 1/2, 11.6#, P-110 BTC Liner						477.44		4.00		4.50	
8315.29		4 1/2 BTC pin x 4 1/2 LTC box cross-over						1.18		4.00		4.50	
8314.11		4 1/2 LTC, 11.6#, P-110 double pin						1.39		4.00		4.50	
8312.72		7 x 4 Peak Extreme Service Retrievable Seal Bore Packer						5.48		4.00		5.93	
8307.24		7 x 3 1/2 Peak Extreme Service Hydraulic Duel Stack Setting Tool with Duel Seal Ass						5.12		3.50		5.88	
8302.12		3 1/2 Drill Pipe Sub with 3 1/2 IF Threads						12.25		2.74		3.50	
8289.87		87 Stands & Sinigle (262 Joints) 3 1/2 Drill Pipe with 3 1/2 IF Threads						8303.11		2.75		3.50	
-13.24		Stick Up						0.00		2.75		3.50	
WEIGHT OF TUBING STRING		55,000		TOTAL STRING LENGTH				12895.24					
PUSH / PULL TEST				STICK-UP OFF RIG FLOOR				13.24					
LINER STRING WEIGHT		4592.13		TUBING BOTTOM				12882.00					

TOTAL MEASURED DEPTH @
13,209 FT

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Cimarex Energy Company