

Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88201

District III

1000 Rio Brazos Rd., Aztec, NM 87401

District IV

1220 S. St. Francis Dr., Santa Fe, NM

87505

RECEIVED

DEC 23 2008

HOBBSOCD

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

May 27, 2004

WELL API NO.

30-025-38691

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Caudill West 17 Fee

8. Well Number

002

9. OGRID Number

215099

10. Pool name or Wildcat

Caudill; Permo Upper Penn

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

Cimarex Energy Co.

3. Address of Operator

PO Box 140907; Irving, TX 75014-0907

4. Well Location

SHL Unit Letter H : 2300 feet from the North line and 500 feet from the East line

Section 17 Township 15S Range 36E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3913' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐ CHANGE PLANS ☐PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS ☐ P AND A ☐CASING/CEMENT JOB ☒OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

06-10-08 Spudded 17 1/2" hole. Ran 13 3/8" 48# H-40 STC casing to 648.' Cemented with Lead 280 sx Light Premium Plus Poly-e-flake + 1% CaCl (wt 12.5, yld 1.98) and Tail 220 sx Premium Plus + 2% Calcium Chloride (wt. 14.8, yld. 1.34). Circulated 85 sx to surface. WOC 19 hrs.

06-11-08 Pressure-tested surface casing to 1000 psi for 30 minutes.

06-17-08 In 11 " hole, ran 8 5/8" 32# J-55 LTC casing to 4502.'

06-18-08 Cemented with Lead 800 sx Interfill C + 0.125# Poly-e-flake (wt 11.9, yld 2.45) and Tail 200 sx Premium Plus C + 1% Calcium Chloride (wt 14.8, yld. 1.33). Circulated 34 bbls to surface.. WOC 30.5 hrs.

06-19-08 Pressure- tested intermediate casting to 1000 psi for 30 minutes

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.SIGNATURE Scott Haynes TITLE Regulatory Analyst DATE December 22, 2008Type or print name Scott Haynes email address: shaynes@cimarex.com Telephone No. 469-420-2723**For State Use Only**APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE DEC 29 2008

Conditions of Approval (if any):

RECEIVED

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

DEC 23 2008

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

HOBBSOCD

WELL API NO.

30-025-38691

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Caudill West 17 Fee

8. Well Number

002

9. OGRID Number

215099

10. Pool name or Wildcat

Caudill; Permo Upper Penn

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(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

Cimarex Energy Co.

3. Address of Operator

PO Box 140907; Irving, TX 75014-0907

4. Well Location

SHL Unit Letter H : 2300 feet from the North line and 500 feet from the East lineSection 17 Township 15S Range 36E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3913' GR

Pit or Below-grade Tank Application ☐ or Closure ☐Pit type Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water Pit Liner Thickness: Below-Grade Tank: Volume bbls; Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐OTHER: ☐PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐☐☐☐☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS ☐CASING/CEMENT JOB ☒OTHER: ☐ALTERING CASING ☐P AND A ☐☒☐☐☐☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

07-02-08 TD 7-7/8" Pilot Hole @ 10,900

07-04-08 In 7-7/8" hole ran 5-1/2" 17# P-110 LTC to 10900'. Cement with lead 650 sx interfill H + 1lb Phenoseal + .1% HR-7 (wt 11.5#, yld 2.78) Tail with 350 sx PB super H + .5% Halad + .4% CFR 3 + 1lb salt + 3lb Phenoseal + .2% HR7 (wt 13.2#, Yld 1.62).

08-09-08 Pressure- tested Production casting to 3500 psi for 30 minutes

08-10-08 Set BP @ 10505'

08-13-08 Mill Top of window @ 10492' Bottom of window @ 10500' began drilling Horizontal.

08-15-08 Drill pipe stuck TIH and to work pipe free.

08-19-08 POOH with pipe and reamers move CIBP up to 10438.

08-22-08 Mill Window from 10429' to 10437'. Begin to drill 4-3/4" horizontal hole.

08-29-08 TD Horizontal @ TMD 12500'.

09-01-08 TIH with Peak Liner Assembly set @ top 10405' bottom 12305'.

09-02-08 Rig Released.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.SIGNATURE Scott Haynes TITLE Regulatory Analyst DATE December 22, 2008Type or print name Scott Haynes email address: shaynes@cimarex.com Telephone No. 469-420-2723**For State Use Only**APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE DEC 29 2008Conditions of Approval (if any):

Results of Directional Survey

API number:	30-025-38691		
OGRID:		Operator:	CIMAREX ENERGY CO
		Property:	CAUDILL WEST 17 FEE # 2

surface	ULSTR:	H	17	T	15S	R	36E
			2300	FNL	500	FEL	

BH Loc	ULSTR:	A	17	T	15S	R	36E
			333	FNL	422	FEL	

	MD	N/S	E/W	VD
	11003	381.13	86.77	10653.59
TOP PERFS/OH	11016	394.09	86.06	10654.22
	11035	413.04	85.01	10655.13
	12303	1679.86	87.34	10642.95
BOT PERFS/OH	12305	1681.86	87.29	10642.85
	12335	1711.81	86.56	10641.36

NEXT TO LAST	12429	1805.61	83.86	10635.89
LAST READING	12460	1876.28	81.37	10629.61
TD	12500	1967.47	78.16	10621.51

Surface Location	2300	FN	500	FE
Projected BHL	333	FN	422	FE
Location of				
Top Perfs/OH	1906	FN	414	FE
Bottom Perfs/OH	618	FN	413	FE

SUMMARY of Subsurface Locations

Surface Location	H-17-15S-36E	2300	FN	500	FE	Vert. Depth
Top Perfs/OH	H-17-15S-36E	1906	FN	414	FE	10654.22
Bottom Perfs/OH	A-17-15S-36E	618	FN	413	FE	10642.85
Projected TD	A-17-15S-36E	333	FN	422	FE	10621.51

OPERATOR
WELL/LEASE
COUNTY

CIMAREX ENERGY CORPORATION
CAUDILL WEST 17 FEE ~~25~~
LEA RIG 75

STATE OF NEW MEXICO
DEVIATION REPORT

205	0.50
590	1.00
846	0.75
1,225	0.25
1,672	0.25
2,117	0.75
2,560	0.75
3,005	0.75
3,482	1.00
3,924	1.00
4,273	0.75
4,978	1.00
5,481	0.25
5,893	1.25
6,470	1.25
6,838	2.00
7,105	1.25
7,359	1.50
7,614	1.50
7,867	2.00
8,154	1.75
8,440	3.50
8,789	2.75
9,044	3.50
9,203	4.00
9,330	4.00
9,551	3.25
9,773	2.75
10,061	3.00
10,347	3.00
10,818	3.00
10,900	3.00

SUR: H-17-15s-36e, 2300/N & 500/E
BHL: A-17-15s-36e, 333/N & 422/E
API # 30-025-38691

STATE OF TEXAS

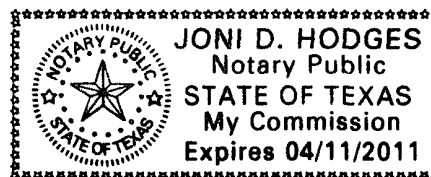
COUNTY OF MIDLAND

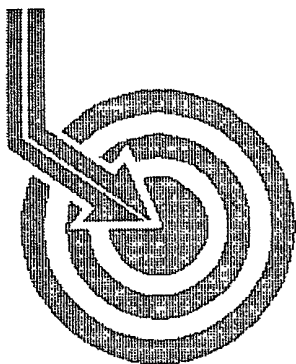
BY: 

The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTL Drilling Company LLC.

JULY 23, 2008, by Steve


Notary Public for Midland County, Texas
My Commission Expires: 4/11/11





Scientific Drilling

SUR: H-17-15s-36e, 2300/N & 500/E
BHL: A-17-15s-36e, 333/N & 422/E
API # 30-025-38691

CIMAREX ENERGY

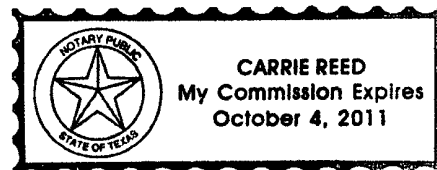
Field: Caudill
Site: Lea County, NM
Well: Caudill West 17 Fee #2
Wellpath: VH - Job #32K0808615
Survey: 08/09/08

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

.....*L. Wharton*.....Company Representative

Notorized this date 9th of September, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CIMAREX ENERGY	Date: 09/08/2008	Time: 08:45:55	Page: 1
Field: Caudill	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Caudill West 17 Fee #2	Section (VS) Reference:	Well (0.00N,0.00E,3.01Azi)	
Wellpath: VH - Job #32K0808615	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 08/09/08	Start Date: 08/09/2008
Company: Scientific Drilling Internatio	Engineer: Garza w/Halliburton
Tool: Keeper;Keeper Gyro	Tied-to: From Surface

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	-0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.56	79.65	100.00	0.11	0.09	0.48	0.56	0.49	79.65
200.00	0.48	71.59	199.99	0.38	0.31	1.36	0.11	1.39	77.23
300.00	0.54	93.29	299.99	0.53	0.41	2.23	0.20	2.26	79.49
400.00	0.66	145.21	399.99	0.07	-0.09	3.03	0.54	3.03	91.65
500.00	0.66	160.65	499.98	-0.92	-1.10	3.55	0.18	3.71	107.29
600.00	1.04	164.77	599.97	-2.31	-2.52	3.97	0.38	4.71	122.40
700.00	1.00	164.53	699.95	-4.00	-4.24	4.45	0.04	6.14	133.64
800.00	0.93	169.15	799.94	-5.62	-5.88	4.83	0.10	7.61	140.58
900.00	0.86	177.03	899.93	-7.15	-7.42	5.02	0.14	8.96	145.92
1000.00	0.57	174.36	999.92	-8.39	-8.67	5.11	0.29	10.06	149.48
1100.00	0.49	165.11	1099.91	-9.29	-9.58	5.27	0.12	10.93	151.18
1200.00	0.39	145.33	1199.91	-9.96	-10.27	5.57	0.18	11.68	151.51
1300.00	0.35	138.68	1299.91	-10.45	-10.78	5.97	0.06	12.32	151.03
1400.00	0.30	92.09	1399.91	-10.66	-11.02	6.43	0.26	12.76	149.73
1500.00	0.33	118.61	1499.91	-10.78	-11.17	6.95	0.15	13.15	148.11
1600.00	0.64	128.10	1599.90	-11.23	-11.65	7.64	0.32	13.93	146.74
1700.00	0.94	138.82	1699.89	-12.14	-12.61	8.62	0.33	15.27	145.65
1800.00	0.87	135.38	1799.88	-13.24	-13.77	9.69	0.09	16.84	144.86
1900.00	0.93	157.99	1899.87	-14.49	-15.06	10.53	0.36	18.38	145.04
2000.00	1.08	167.47	1999.85	-16.13	-16.73	11.04	0.22	20.04	146.59
2100.00	1.04	172.50	2099.84	-17.93	-18.55	11.36	0.10	21.75	148.52
2200.00	1.04	170.78	2199.82	-19.71	-20.35	11.62	0.03	23.43	150.26
2300.00	0.97	173.01	2299.80	-21.43	-22.08	11.87	0.08	25.07	151.74
2400.00	0.67	164.32	2399.79	-22.82	-23.49	12.13	0.32	26.44	152.68
2500.00	0.42	157.04	2499.79	-23.70	-24.39	12.43	0.26	27.37	152.98
2600.00	0.39	136.20	2599.79	-24.26	-24.97	12.81	0.15	28.07	152.84
2700.00	0.42	147.45	2699.78	-24.79	-25.52	13.25	0.08	28.76	152.57
2800.00	0.41	132.87	2799.78	-25.32	-26.08	13.71	0.11	29.46	152.28
2900.00	0.46	130.75	2899.78	-25.80	-26.58	14.27	0.05	30.17	151.77
3000.00	0.56	105.88	2999.77	-26.15	-26.98	15.05	0.24	30.89	150.85
3100.00	0.56	80.63	3099.77	-26.16	-27.03	16.00	0.24	31.41	149.38
3200.00	0.72	93.41	3199.76	-26.05	-26.99	17.11	0.21	31.96	147.63
3300.00	0.89	101.49	3299.75	-26.17	-27.18	18.50	0.20	32.88	145.77
3400.00	0.85	104.18	3399.74	-26.43	-27.52	19.98	0.06	34.00	144.02
3500.00	1.08	92.31	3499.73	-26.56	-27.74	21.64	0.30	35.18	142.05
3600.00	1.19	80.54	3599.71	-26.33	-27.61	23.60	0.26	36.32	139.47
3700.00	1.15	69.51	3699.69	-25.70	-27.08	25.57	0.23	37.25	136.65
3800.00	1.13	61.05	3799.67	-24.78	-26.26	27.37	0.17	37.93	133.81
3900.00	1.06	68.74	3899.65	-23.88	-25.44	29.09	0.16	38.65	131.17
4000.00	0.98	73.51	3999.63	-23.21	-24.86	30.78	0.12	39.57	128.94
4100.00	0.99	66.58	4099.62	-22.54	-24.28	32.39	0.12	40.48	126.85
4200.00	0.81	73.02	4199.61	-21.92	-23.73	33.86	0.21	41.34	125.02
4300.00	0.75	76.00	4299.60	-21.48	-23.36	35.17	0.07	42.22	123.60
4400.00	0.72	82.83	4399.59	-21.18	-23.13	36.43	0.09	43.15	122.41
4500.00	0.90	85.74	4499.58	-20.97	-22.99	37.83	0.18	44.27	121.29
4600.00	0.96	83.78	4599.57	-20.74	-22.84	39.45	0.07	45.59	120.07
4700.00	1.04	82.12	4699.55	-20.43	-22.63	41.18	0.09	46.99	118.79
4800.00	1.13	75.95	4799.53	-19.97	-22.26	43.04	0.15	48.45	117.35



Scientific Drilling International Survey Report

Company: CIMAREX ENERGY
Field: Caudill
Site: Lea County, NM
Well: Caudill West 17 Fee #2
Wellpath: VH - Job #32K0808615

Date: 09/08/2008 Time: 08:45:55 Page: 2
Co-ordinate(N/E) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,3.01Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.27	80.43	4899.51	-19.44	-21.84	45.09	0.17	50.10	115.84
5000.00	1.21	79.10	4999.49	-18.95	-21.45	47.22	0.07	51.86	114.44
5100.00	1.18	78.24	5099.47	-18.43	-21.05	49.26	0.03	53.57	113.13
5200.00	1.26	80.43	5199.44	-17.93	-20.65	51.35	0.09	55.35	111.91
5300.00	1.31	82.40	5299.42	-17.48	-20.32	53.57	0.07	57.29	110.77
5400.00	1.26	83.74	5399.39	-17.09	-20.05	55.80	0.06	59.29	109.76
5500.00	1.22	84.91	5499.37	-16.76	-19.83	57.95	0.05	61.25	108.89
5600.00	1.17	83.64	5599.35	-16.45	-19.63	60.02	0.06	63.15	108.11
5700.00	1.24	88.28	5699.33	-16.19	-19.48	62.12	0.12	65.10	107.41
5800.00	1.17	92.25	5799.30	-16.09	-19.49	64.22	0.11	67.11	106.88
5900.00	1.11	83.54	5899.28	-15.92	-19.42	66.21	0.18	68.99	106.35
6000.00	1.14	85.03	5999.26	-15.62	-19.22	68.16	0.04	70.82	105.75
6100.00	1.24	88.47	6099.24	-15.39	-19.11	70.23	0.12	72.78	105.22
6200.00	1.22	91.42	6199.22	-15.28	-19.11	72.38	0.07	74.86	104.79
6300.00	1.18	88.07	6299.20	-15.16	-19.10	74.47	0.08	76.88	104.38
6400.00	1.25	87.55	6399.18	-14.97	-19.02	76.59	0.07	78.91	103.94
6500.00	1.38	91.75	6499.15	-14.84	-19.01	78.88	0.16	81.14	103.55
6600.00	1.54	87.41	6599.12	-14.68	-18.98	81.43	0.19	83.61	103.12
6700.00	1.43	90.05	6699.08	-14.49	-18.92	84.02	0.13	86.12	102.69
6800.00	1.58	85.43	6799.05	-14.24	-18.81	86.64	0.19	88.66	102.25
6900.00	1.62	90.43	6899.01	-13.99	-18.72	89.43	0.15	91.37	101.82
7000.00	1.55	89.48	6998.97	-13.85	-18.71	92.19	0.07	94.07	101.47
7100.00	1.44	96.30	7098.94	-13.84	-18.84	94.80	0.21	96.65	101.24
7200.00	1.46	100.11	7198.91	-14.06	-19.20	97.30	0.10	99.18	101.16
7300.00	1.46	102.50	7298.87	-14.43	-19.70	99.80	0.06	101.72	101.17
7400.00	1.51	100.48	7398.84	-14.81	-20.22	102.34	0.07	104.31	101.17
7500.00	1.70	102.11	7498.80	-15.22	-20.77	105.08	0.20	107.11	101.18
7600.00	1.78	100.86	7598.75	-15.67	-21.37	108.06	0.09	110.15	101.19
7700.00	1.81	102.44	7698.71	-16.14	-22.00	111.13	0.06	113.28	101.20
7800.00	1.94	103.33	7798.65	-16.70	-22.73	114.31	0.13	116.55	101.25
7900.00	1.95	102.24	7898.59	-17.28	-23.48	117.62	0.04	119.95	101.29
8000.00	2.01	100.16	7998.53	-17.77	-24.15	121.01	0.09	123.40	101.29
8100.00	2.08	96.33	8098.47	-18.09	-24.66	124.54	0.15	126.96	101.20
8200.00	2.32	94.92	8198.40	-18.26	-25.04	128.36	0.25	130.78	101.04
8300.00	2.77	92.63	8298.30	-18.31	-25.32	132.79	0.46	135.19	100.80
8400.00	3.21	88.96	8398.16	-18.10	-25.38	138.01	0.48	140.32	100.42
8500.00	3.33	89.47	8498.00	-17.72	-25.30	143.71	0.12	145.92	99.99
8600.00	3.32	87.35	8597.83	-17.26	-25.14	149.51	0.12	151.61	99.55
8700.00	3.25	85.50	8697.67	-16.60	-24.79	155.23	0.13	157.19	99.07
8800.00	3.19	84.68	8797.51	-15.83	-24.31	160.82	0.08	162.65	98.59
8900.00	3.23	84.83	8897.35	-15.02	-23.79	166.40	0.04	168.09	98.14
9000.00	3.16	83.69	8997.20	-14.18	-23.24	171.94	0.09	173.51	97.70
9100.00	3.24	84.22	9097.04	-13.30	-22.65	177.49	0.09	178.93	97.27
9200.00	3.15	83.87	9196.88	-12.43	-22.07	183.04	0.09	184.36	96.88
9300.00	3.35	84.97	9296.72	-11.59	-21.52	188.68	0.21	189.90	96.51
9400.00	3.48	84.11	9396.55	-10.71	-20.96	194.61	0.14	195.73	96.15
9500.00	3.53	88.20	9496.36	-9.98	-20.55	200.71	0.25	201.75	95.85
9600.00	3.65	88.76	9596.16	-9.49	-20.38	206.96	0.13	207.97	95.62
9700.00	3.63	90.27	9695.96	-9.10	-20.33	213.31	0.10	214.28	95.44
9800.00	3.61	89.43	9795.76	-8.75	-20.31	219.63	0.06	220.56	95.28
9900.00	3.34	92.45	9895.58	-8.53	-20.40	225.68	0.33	226.61	95.17
10000.00	3.18	90.48	9995.42	-8.37	-20.55	231.37	0.20	232.28	95.08



Scientific Drilling International

Survey Report

Company: CIMAREX ENERGY
Field: Caudill
Site: Lea County, NM
Well: Caudill West 17 Fee #2
Wellpath: VH - Job #32K0808615

Date: 09/08/2008 Time: 08:45:55 Page: 3
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,3.01Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

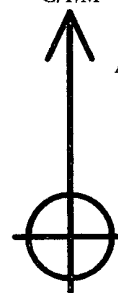
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
10100.00	3.41	91.36	10095.25	-8.17	-20.65	237.12	0.24	238.01	94.98
10200.00	3.68	89.95	10195.06	-7.91	-20.71	243.30	0.28	244.18	94.87
10300.00	3.80	90.41	10294.85	-7.59	-20.73	249.82	0.12	250.68	94.74
10400.00	3.69	87.68	10394.63	-7.14	-20.63	256.35	0.21	257.18	94.60
10450.00	3.52	90.99	10444.53	-6.94	-20.59	259.49	0.54	260.31	94.54
10500.00	3.45	89.70	10494.44	-6.79	-20.61	262.53	0.21	263.34	94.49
10550.00	3.71	90.27	10544.34	-6.63	-20.61	265.65	0.52	266.45	94.44
10600.00	3.82	92.28	10594.24	-6.53	-20.68	268.93	0.34	269.73	94.40
10674.00	3.75	92.85	10668.07	-6.49	-20.90	273.81	0.11	274.61	94.36



Scientific
Drilling

Field: Caudill
Site: Lea County, NM
Well: Caudill West 17 Fee #2
Wellpath: VH - Job #32K0808615
Survey: 08/09/08

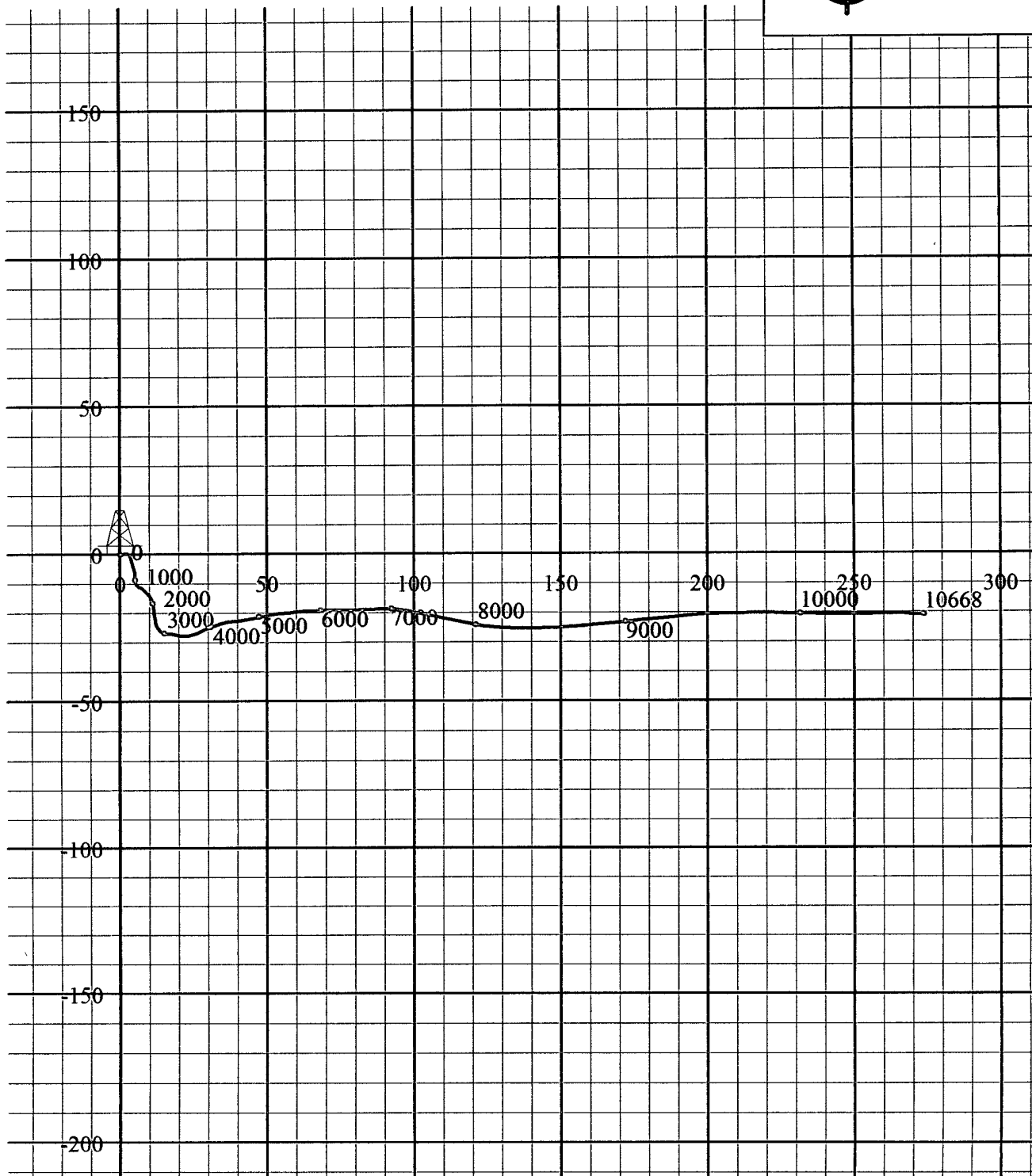
G/T/M



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 09/08/2008
Model: igrf2000

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]



CAUDILL WEST 17 FEE #2H
LEA COUNTY, NEW MEXICO



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	10430.00	3.59	89.63	6488.57	-20.58	258.25	0.00	0.00	-6.99	
2	10442.00	3.11	55.79	6500.55	-20.40	258.90	16.67	240.00	-6.77	
3	10447.00	3.11	55.79	6505.55	-20.24	259.12	0.00	0.00	-6.61	
4	10785.96	90.60	320.00	6720.00	152.64	129.36	26.82	264.25	159.22	
5	10927.83	90.65	0.73	6718.27	292.68	79.40	26.82	89.70	296.45	
6	12545.38	90.65	0.73	6700.00	1900.00	100.00	0.00	0.00	1902.63	T2

LEGEND

— #2,1, Plan #8
— WFT SVY

WELL DETAILS

Name	+N/-S	+E/-W	Northung	Easting	Latitude	Longitude	Slot
#2	0.00	0.00	735752.10	852159.40	33°01'06.44"N	103°19'09.486"W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northung	Easting	Shape
Caudill West 17 Fee #1	0.00	1420.00	-160.00	737170.49	851985.71	Point
T2	10636.00	1900.00	100.00	737652.98	852241.07	Point

FIELD DETAILS

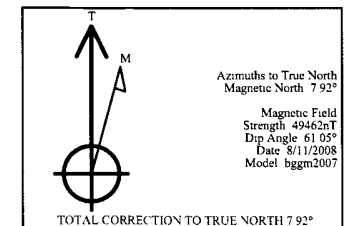
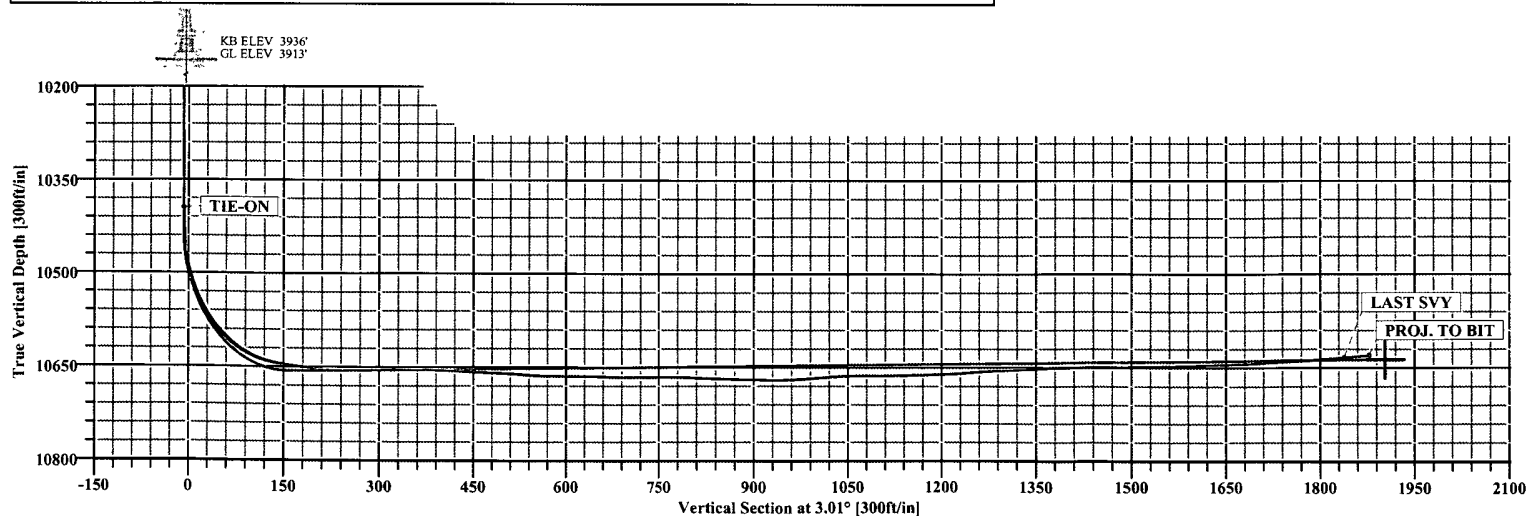
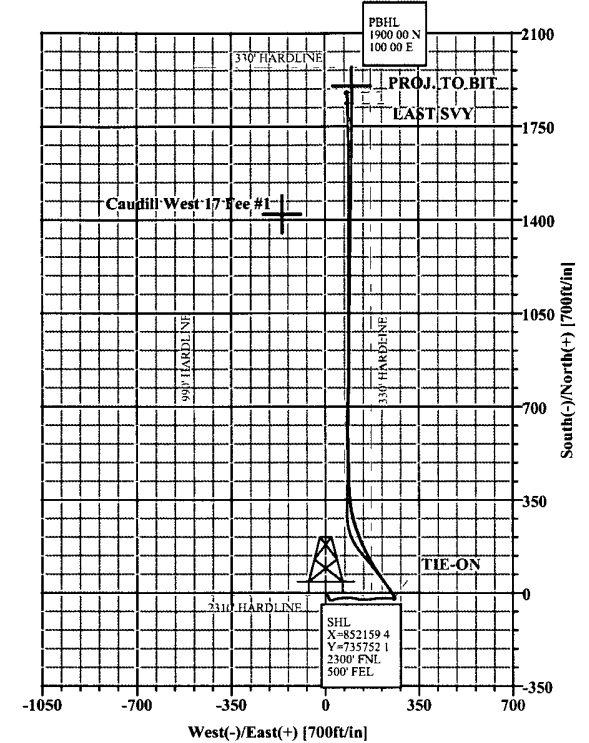
Lea Co., NM (NAD 83)
Geodetic System US State Plane Coordinate System 1983
Ellipsoid GRS 1980
Zone New Mexico, Eastern Zone
Magnetic Model bggm2007
System Datum Mean Sea Level
Local North True North

SITE DETAILS

Caudill West 17 Fee #2
2300' FNL 500' FEL of SEC 17, T-15-S, R-36-E
Site Centre Northung 735752.10
Easting 852159.40
Ground Level 3913.00
Positional Uncertainty 0.00
Convergence 0.55

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

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
78	12500.00	95.20	357.90	10629.61	1876.28	81.37	0.00	0.00	1877.97





Weatherford International Ltd.

SURVEY REPORT

**Weatherford**

Company:	CIMAREX	Date:	9/4/2008	Time:	13:57:31	Page:	1
Field:	Lea Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Site: Caudill West 17 Fee #2, True North				
Site:	Caudill West 17 Fee #2	Vertical (TVD) Reference:	SITE 3936.0				
Well:	#2	Section (VS) Reference:	Well (0.00N,0.00E,3.01Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Survey:	WFT SVY	Start Date:	8/15/2008
Company:	Weatherford International, Inc	Engineer:	Lindsey Maddux
Tool:	MWD:MWD - Standard	Tied-to:	From: SDI GYRO

Field:	Lea Co., NM (NAD 83)		
Map System:	US State Plane Coordinate System 1983	Map Zone:	New Mexico, Eastern Zone
Geo Datum:	GRS 1980	Coordinate System:	Site Centre
Sys Datum:	Mean Sea Level	Geomagnetic Model:	bggm2007

Site:	Caudill West 17 Fee #2					
	2300' FNL 500' FEL of SEC 17, T-15-S, R-36-E					
Site Position:	Northing:	735752.10	ft	Latitude:	33	1 6.447 N
From: Map	Easting:	852159.40	ft	Longitude:	103	19 9.486 W
Position Uncertainty:	0.00	ft		North Reference:	True	
Ground Level:	3913.00	ft		Grid Convergence:	0.55 deg	

Well:	#2	Slot Name:						
Well Position:	+N/-S	0.00 ft	Northing:	735752.10 ft	Latitude:	33	1	6.447 N
	+E/-W	0.00 ft	Easting :	852159.40 ft	Longitude:	103	19	9.486 W
Position Uncertainty:		0.00 ft						

Wellpath: 1		Drilled From: Surface	
Current Datum:	SITE	Height 3936.00 ft	Tie-on Depth: 0.00 ft
Magnetic Data:	8/11/2008		Above System Datum: Mean Sea Level
Field Strength:	49462 nT		Declination: 7.92 deg
Vertical Section:	Depth From (TVD)	+N/-S	Mag Dip Angle: 61.05 deg
	ft	ft	+E/-W
		ft	Direction
			deg
	0.00	0.00	0.00
			3.01

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
10400.00	3.69	87.68	10394.63	-20.63	256.35	-7.14	0.00	0.00	0.00	TIE-ON
10470.00	6.90	335.20	10464.45	-16.71	256.84	-3.20	12.83	4.59	-160.69	
10486.00	12.00	329.60	10480.23	-14.40	255.59	-0.96	32.35	31.87	-35.00	
10502.00	16.80	330.10	10495.72	-10.96	253.60	2.37	30.01	30.00	3.12	
10518.00	21.30	329.80	10510.84	-6.44	250.98	6.74	28.13	28.12	-1.87	
10534.00	24.80	329.10	10525.56	-1.05	247.79	11.96	21.94	21.87	-4.37	
10550.00	29.50	326.40	10539.79	5.11	243.89	17.91	30.36	29.37	-16.87	
10566.00	33.80	325.60	10553.41	12.07	239.19	24.61	27.00	26.87	-5.00	
10581.00	38.40	325.00	10565.53	19.33	234.16	31.60	30.76	30.67	-4.00	
10597.00	42.70	325.00	10577.68	27.85	228.20	39.79	26.87	26.87	0.00	
10613.00	47.60	325.60	10588.96	37.18	221.74	48.77	30.74	30.62	3.75	
10628.00	51.00	324.70	10598.74	46.50	215.24	57.74	23.12	22.67	-6.00	
10644.00	55.40	323.10	10608.33	56.85	207.69	67.68	28.64	27.50	-10.00	
10659.00	60.10	324.30	10616.33	67.07	200.19	77.49	32.05	31.33	8.00	
10691.00	67.80	327.10	10630.37	90.81	184.02	100.35	25.31	24.06	8.75	
10720.00	76.10	331.00	10639.35	114.45	169.87	123.21	31.34	28.62	13.45	
10728.00	77.80	331.50	10641.16	121.28	166.13	129.84	22.10	21.25	6.25	
10751.00	81.50	332.40	10645.29	141.24	155.49	149.21	16.54	16.09	3.91	
10767.00	83.20	333.80	10647.42	155.39	148.32	162.96	13.71	10.62	8.75	
10783.00	84.50	335.60	10649.14	169.77	141.52	176.96	13.82	8.12	11.25	
10798.00	85.30	336.30	10650.47	183.41	135.43	190.27	7.07	5.33	4.67	
10814.00	86.30	337.20	10651.64	198.07	129.13	204.58	8.40	6.25	5.62	
10830.00	87.40	339.30	10652.52	212.91	123.21	219.08	14.80	6.87	13.12	
10846.00	88.60	339.80	10653.08	227.89	117.62	233.75	8.12	7.50	3.12	



Weatherford International Ltd.

SURVEY REPORT

**Weatherford**

Company:	CIMAREX	Date:	9/4/2008	Time:	13:57:31	Page:	2
Field:	Lea Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Site: Caudill West 17 Fee #2, True North				
Site:	Caudill West 17 Fee #2	Vertical (TVD) Reference:	SITE 3936.0				
Well:	#2	Section (VS) Reference:	Well (0.00N,0.00E,3.01Azi)				
Wellpath:	1	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
10862.00	90.00	340.90	10653.27	242.96	112.24	248.52	11.13	8.75	6.87	
10878.00	91.10	342.80	10653.12	258.16	107.26	263.44	13.72	6.87	11.87	
10910.00	92.00	347.50	10652.25	289.07	99.07	293.87	14.95	2.81	14.69	
10941.00	89.40	351.00	10651.88	319.52	93.28	323.97	14.06	-8.39	11.29	
10973.00	88.20	354.60	10652.55	351.25	89.28	355.45	11.86	-3.75	11.25	
11003.00	87.80	355.80	10653.59	381.13	86.77	385.16	4.21	-1.33	4.00	
11035.00	86.70	357.90	10655.13	413.04	85.01	416.93	7.40	-3.44	6.56	
11066.00	86.50	358.80	10656.97	443.97	84.12	447.78	2.97	-0.65	2.90	
11082.00	87.70	358.60	10657.78	459.95	83.76	463.71	7.60	7.50	-1.25	
11098.00	87.80	358.80	10658.40	475.93	83.39	479.65	1.40	0.62	1.25	
11130.00	86.30	358.80	10660.05	507.88	82.72	511.52	4.69	-4.69	0.00	
11161.00	85.70	358.40	10662.21	538.80	81.97	542.36	2.32	-1.94	-1.29	
11193.00	89.30	358.80	10663.61	570.75	81.19	574.23	11.32	11.25	1.25	
11224.00	89.90	359.30	10663.83	601.74	80.67	605.15	2.52	1.94	1.61	
11257.00	89.40	359.80	10664.03	634.74	80.42	638.09	2.14	-1.52	1.52	
11289.00	87.80	1.20	10664.81	666.73	80.69	670.05	6.64	-5.00	4.38	
11320.00	90.30	1.60	10665.32	697.71	81.45	701.03	8.17	8.06	1.29	
11353.00	90.70	2.70	10665.04	730.69	82.69	734.02	3.55	1.21	3.33	
11384.00	90.10	2.70	10664.82	761.65	84.15	765.02	1.94	-1.94	0.00	
11415.00	87.20	0.40	10665.55	792.63	84.99	796.00	11.94	-9.35	-7.42	
11447.00	87.70	0.40	10666.97	824.60	85.21	827.93	1.56	1.56	0.00	
11479.00	88.20	0.70	10668.12	856.57	85.52	859.88	1.82	1.56	0.94	
11511.00	88.80	0.40	10668.96	888.56	85.83	891.84	2.10	1.87	-0.94	
11543.00	88.70	0.50	10669.65	920.55	86.08	923.80	0.44	-0.31	0.31	
11574.00	92.40	0.00	10669.36	951.55	86.21	954.76	12.04	11.94	-1.61	
11606.00	94.30	359.70	10667.49	983.49	86.13	986.66	6.01	5.94	-0.94	
11637.00	95.00	359.70	10664.97	1014.39	85.97	1017.50	2.26	2.26	0.00	
11669.00	92.10	0.20	10662.99	1046.32	85.94	1049.39	9.20	-9.06	1.56	
11701.00	90.00	0.00	10662.41	1078.31	85.99	1081.34	6.59	-6.56	-0.62	
11733.00	90.30	0.20	10662.32	1110.31	86.05	1113.30	1.13	0.94	0.62	
11765.00	91.40	0.20	10661.85	1142.31	86.16	1145.26	3.44	3.44	0.00	
11797.00	91.80	0.00	10660.95	1174.30	86.22	1177.20	1.40	1.25	-0.62	
11828.00	92.40	0.00	10659.82	1205.28	86.22	1208.14	1.94	1.94	0.00	
11860.00	94.60	0.40	10657.86	1237.21	86.33	1240.04	6.99	6.87	1.25	
11892.00	94.10	0.50	10655.44	1269.12	86.58	1271.92	1.59	-1.56	0.31	
11923.00	92.70	0.40	10653.60	1300.06	86.82	1302.83	4.53	-4.52	-0.32	
11955.00	92.90	0.40	10652.04	1332.03	87.05	1334.76	0.62	0.62	0.00	
11987.00	92.90	0.70	10650.42	1363.98	87.35	1366.69	0.94	0.00	0.94	
12018.00	90.80	0.50	10649.42	1394.96	87.68	1397.64	6.80	-6.77	-0.65	
12050.00	90.30	0.40	10649.11	1426.96	87.93	1429.61	1.59	-1.56	-0.31	
12082.00	90.30	0.50	10648.94	1458.96	88.18	1461.58	0.31	0.00	0.31	
12114.00	90.80	0.20	10648.63	1490.96	88.38	1493.54	1.82	1.56	-0.94	
12146.00	91.10	359.80	10648.10	1522.95	88.38	1525.49	1.56	0.94	-1.25	
12177.00	91.40	0.00	10647.43	1553.95	88.32	1556.44	1.16	0.97	0.65	
12209.00	91.60	359.80	10646.59	1585.93	88.27	1588.38	0.88	0.62	-0.63	
12240.00	92.00	359.50	10645.62	1616.92	88.08	1619.31	1.61	1.29	-0.97	
12272.00	92.40	359.50	10644.39	1648.89	87.80	1651.23	1.25	1.25	0.00	
12303.00	92.90	358.80	10642.95	1679.86	87.34	1682.13	2.77	1.61	-2.26	
12335.00	92.80	358.40	10641.36	1711.81	86.56	1713.99	1.29	-0.31	-1.25	
12366.00	92.90	358.30	10639.82	1742.76	85.67	1744.85	0.46	0.32	-0.32	
12397.00	93.40	358.40	10638.12	1773.70	84.77	1775.70	1.64	1.61	0.32	
12429.00	94.60	358.30	10635.89	1805.61	83.86	1807.52	3.76	3.75	-0.31	



Weatherford International Ltd.

SURVEY REPORT



Weatherford

Company: CIMAREX Date: 9/4/2008 Time: 13:57:31 Page: 3
Field: Lea Co., NM (NAD 83) Co-ordinate(NE) Reference: Site: Caudill West-17 Fee #2, True North
Site: Caudill West 17 Fee #2 Vertical (TVD) Reference: SITE 3936.0
Well: #2 Section (VS) Reference: Well (0.00N,0.00E,3.01Azi)
Wellpath: 1 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
12460.00	95.20	357.90	10633.24	1836.47	82.83	1838.29	2.32	1.94	-1.29	LAST SVY
12500.00	95.20	357.90	10629.61	1876.28	81.37	1877.97	0.00	0.00	0.00	PROJ. TO BIT

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
10400.00	10394.63	TIE-ON
12460.00	10633.24	LAST SVY
12500.00	10629.61	PROJ. TO BIT