

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

APPLICATION OF CIMAREX ENERGY CO.
FOR A NON-STANDARD OIL SPACING AND
PRORATION UNIT AND FOR COMPULSORY
POOLING, LEA COUNTY, NEW MEXICO.

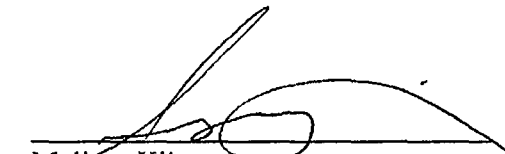
Case No. 14,154

AFFIDAVIT OF MELISSA KLINGER

CITY AND COUNTY OF DENVER)
) ss.
STATE OF COLORADO)

Melissa Klinger, being duly sworn upon his oath, deposes and states:

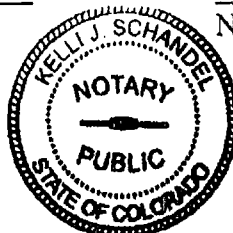
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Cimarex Energy Co. ("Cimarex").
3. Exhibit A is a Wolfcamp structure map of the southern portion of Denton field, a Wolfcamp and Devonian field discovered in 1949. In this area the Wolfcamp formation dips to the south. Cimarex is attempting to extend the productive portion of the field to the south on 80-acre spacing units. Both quarter-quarter sections in the well unit are prospective in the Wolfcamp and Cimarex anticipates producing reserves from each quarter-quarter section.
4. Exhibit B is a well location plat for the Blanca 23 Fee #1. This well will be offsetting production on 80-acre spacing units down-structure to the east and northeast.



Melissa Klinger

SUBSCRIBED AND SWORN TO before me this 5th day of August, 2008 by Melissa Klinger.

My Commission Expires: 8/23/09

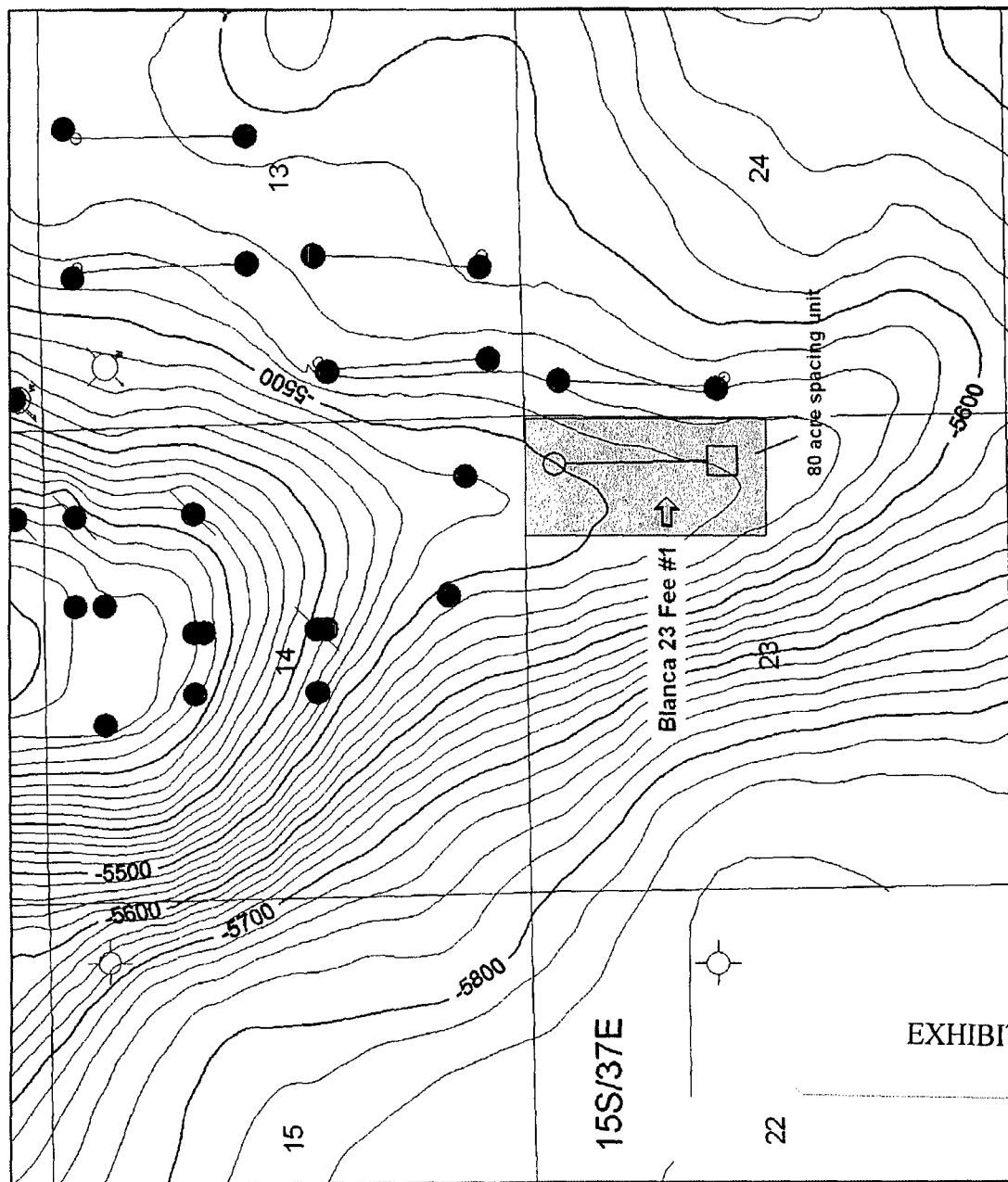


My Commission Expires Aug. 23, 2009

Kelli J. Schandel

Notary Public

Oil Conservation Division
Case No. 2
Exhibit No. 2



<i>Cimarex Energy Co.</i>			
Denton Field, Lea Co., New Mexico Wolfcamp Structure Map			
Base Map			
Author: Melissa Klinger	C.I. = 20'	Date: 31 July 2008	
	Scale: 1" = 1270'		

EXHIBIT

A

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 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	Pool Code	Pool Name
Property Code	Property Name BLANCA "23" FEE	Well Number 1
OGRID No.	Operator Name CIMAREX ENERGY CO.	Elevation 3774'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	23	15 S	37 E		2160	NORTH	480	EAST	LEA

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
A	23	15 S	37 E		330	NORTH	480	EAST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

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

BOTTOM HOLE LOCATION Lat - N33°00'33.12" Long - W103°09'49.76" NMSPCE- N 732876.910 E 899855.606 (NAD-83) SURFACE LOCATION Lat - N33°00'15.02" Long - W103°09'49.73" NMSPCE- N 731047.3 E 899877.7 (NAD-83)		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 undivided 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 _____ Date _____ 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. MAY 21 2008 Date Surveyed _____ Signature of Surveyor _____ Professional Surveyor _____ Certificate No. Gary L. Jones 7977 BASIN SURVEYS

EXHIBIT

B



Weatherford

Drilling Services

30-025-38955

Proposal



BLANCA 23 FEE #1

LEA COUNTY, NEW MEXICO

WELL FILE: **PLAN 1**

MAY 28, 2008

Weatherford International, Ltd.
P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com

EXHIBIT _____



BLANCA 23 FEE #1
LEA COUNTY, NEW MEXICO



Weatherford

SECTION DETAILS

Sec	MD	Inc	As	TVD	+N/S	+E/W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9147.00	0.00	0.00	9147.00	0.00	0.00	0.00	0.00	0.00	
3	9447.02	90.00	0.00	9338.00	191.00	0.00	30.00	0.00	191.00	
4	11086.02	90.00	0.00	9338.00	1830.00	0.00	0.00	0.00	1830.00	PBHL

WELL DETAILS

Name	+N/S	+E/W	North	East	Latitude	Longitude	Slot
#1	0.00	0.00	731047.30	899877.70	33°00'15.00"N	103°09'49.75"W	N/A

TARGET DETAILS

Name	TVD	+N/S	+E/W	North	East	Shape
PBHL	9338.00	1830.00	0.00	732877.19	899877.35	Point

SITE DETAILS

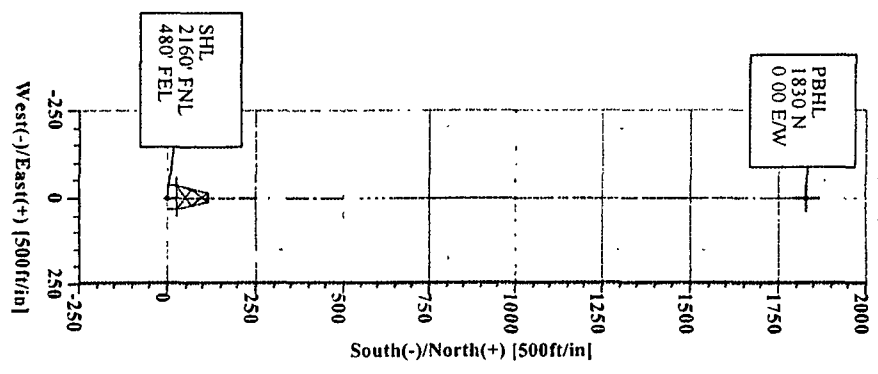
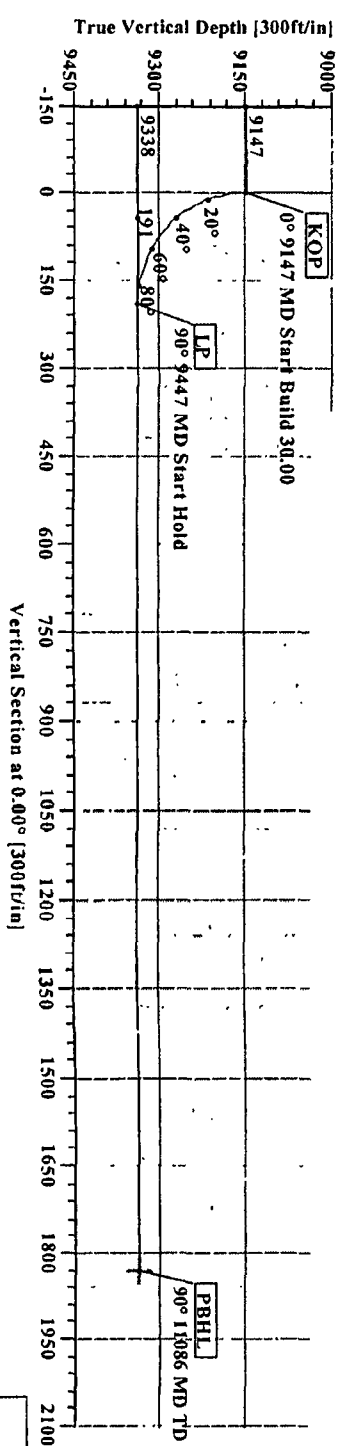
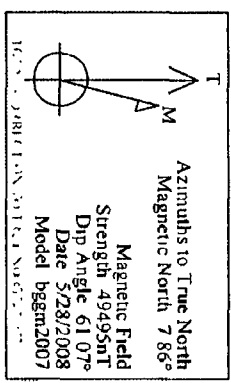
BLANCA 23 FEE #1
2160' FNL 480' FEL of SEC 23, T-1-S-S, R-37-E
Site Centre North 731047.30
Easting 899877.70
Ground Level 3774.00
Positional Uncertainty 0.00
Convergence 0.64

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 bgm2007
System Datum Mean Sea Level
Local North True North

FORMATION TOP DETAILS

No	TVD	MD	Formation
1	2139.00	2139.00	Rustler
2	3130.00	3130.00	Sales
3	3320.00	3320.00	Sales
4	3929.00	3929.00	Queen
5	4242.00	4242.00	Grenburg
6	4431.00	4431.00	San Andres
7	6440.00	6440.00	Gloria
8	6859.00	6859.00	Blind
9	7437.00	7437.00	Tubb
10	7677.00	7677.00	Dark
11	8091.00	8091.00	Ab
12	9319.00	9361.11	Wolfcamp





Weatherford International, Inc.

Proposal Plan Report

**Weatherford**

Company: Cimarex
Field: Lea Co, NM (NAD 83)
Site: BLANCA 23 FEE #1
Well: #1
Wellpath: 1

Date: 5/28/2008 Time: 16:27:15
Co-ordinate(NE) Reference: Site: BLANCA 23 FEE #1, True North
Vertical (TVD) Reference: SITE 3795.0
Section (VS) Reference: Well (0.00N, 0.00E, 0.00Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Plan: Plan #1
Principal: Yes

Date Composed: 5/28/2008
Version: 1
Tied-to: From Surface

Field: Lea Co, NM (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Site Centre
Geomagnetic Model: bggm2007

Site: BLANCA 23 FEE #1

2160' FNL 480' FEL of SEC 23, T-15-S, R-37-E

Site Position: Northing: 731047.30 ft Latitude: 33 0 15.001 N
From: Map Easting: 899877.70 ft Longitude: 103 9 49.756 W
Position Uncertainty: 0.00 ft North Reference: True
Ground Level: 3774.00 ft Grid Convergence: 0.64 deg

Well: #1

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 731047.30 ft Latitude: 33 0 15.001 N
+E/-W 0.00 ft Easting: 899877.70 ft Longitude: 103 9 49.756 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Drilled From: Surface

Current Datum: SITE Height 3795.00 ft
Magnetic Data: 5/28/2008
Field Strength: 49495 aT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 0.00

Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.88 deg
Mag Dip Angle: 61.07 deg
+E/-W Direction
ft deg
0.00 0.00

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9147.00	0.00	0.00	9147.00	0.00	0.00	0.00	0.00	0.00	0.00	
9447.02	90.00	0.00	9338.00	191.00	0.00	30.00	30.00	0.00	0.00	
11086.02	90.00	0.00	9338.00	1830.00	0.00	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	Build deg/100ft	Turn deg/100ft	DLS deg/100ft	TFO deg	Comment
9100.00	0.00	0.00	9100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9147.00	0.00	0.00	9147.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
9150.00	0.90	0.00	9150.00	0.02	0.00	0.02	30.00	0.00	30.00	0.00	
9160.00	3.90	0.00	9159.99	0.44	0.00	0.44	30.00	0.00	30.00	0.00	
9170.00	6.90	0.00	9169.94	1.38	0.00	1.38	30.00	0.00	30.00	0.00	
9180.00	9.90	0.00	9179.84	2.84	0.00	2.84	30.00	0.00	30.00	360.00	
9190.00	12.90	0.00	9189.64	4.82	0.00	4.82	30.00	0.00	30.00	0.00	
9200.00	15.90	0.00	9199.32	7.31	0.00	7.31	30.00	0.00	30.00	0.00	
9210.00	18.90	0.00	9208.88	10.30	0.00	10.30	30.00	0.00	30.00	360.00	
9220.00	21.90	0.00	9218.24	13.78	0.00	13.78	30.00	0.00	30.00	0.00	
9230.00	24.90	0.00	9227.41	17.75	0.00	17.75	30.00	0.00	30.00	0.00	
9240.00	27.90	0.00	9236.37	22.20	0.00	22.20	30.00	0.00	30.00	0.00	
9250.00	30.90	0.00	9245.08	27.11	0.00	27.11	30.00	0.00	30.00	0.00	
9260.00	33.90	0.00	9253.52	32.46	0.00	32.46	30.00	0.00	30.00	0.00	
9270.00	36.90	0.00	9261.67	38.25	0.00	38.25	30.00	0.00	30.00	0.00	
9280.00	39.90	0.00	9269.51	44.47	0.00	44.47	30.00	0.00	30.00	0.00	
9290.00	42.90	0.00	9277.01	51.08	0.00	51.08	30.00	0.00	30.00	360.00	



Weatherford International, Inc.

Proposal Plan Report

**Weatherford**

Company: Cimarex Date: 5/28/2008 Time: 16:27:15 Page: 2
Field: Lea Co., NM (NAD'83) Co-ordinate(NE) Reference: Site: BLANCA 23 FEE #1, True North
Site: BLANCA 23 FEE #1 Vertical (TVD) Reference: SITE 3785.0
Well: #1 Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
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	Build deg/100ft	Turn deg/100ft	DLS deg/100ft	TFO deg	Comment
9300.00	45.90	0.00	9284.15	58.07	0.00	58.07	30.00	0.00	30.00	0.00	
9310.00	48.90	0.00	9290.92	65.43	0.00	65.43	30.00	0.00	30.00	0.00	
9320.00	51.90	0.00	9297.30	73.14	0.00	73.14	30.00	0.00	30.00	360.00	
9330.00	54.90	0.00	9303.26	81.16	0.00	81.16	30.00	0.00	30.00	0.00	
9340.00	57.90	0.00	9308.79	89.49	0.00	89.49	30.00	0.00	30.00	0.00	
9350.00	60.90	0.00	9313.88	98.10	0.00	98.10	30.00	0.00	30.00	0.00	
9360.00	63.90	0.00	9318.52	106.96	0.00	106.96	30.00	0.00	30.00	0.00	
9361.11	64.23	0.00	9319.00	107.95	0.00	107.95	30.00	0.00	30.00	360.00	Wolfcamp
9370.00	66.90	0.00	9322.68	116.05	0.00	116.05	30.00	0.00	30.00	0.00	
9380.00	69.89	0.00	9326.36	125.34	0.00	125.34	30.00	0.00	30.00	0.00	
9390.00	72.89	0.00	9329.55	134.82	0.00	134.82	30.00	0.00	30.00	0.00	
9400.00	75.89	0.00	9332.24	144.45	0.00	144.45	30.00	0.00	30.00	0.00	
9410.00	78.89	0.00	9334.42	154.21	0.00	154.21	30.00	0.00	30.00	0.00	
9420.00	81.89	0.00	9336.09	164.07	0.00	164.07	30.00	0.00	30.00	0.00	
9430.00	84.89	0.00	9337.24	174.00	0.00	174.00	30.00	0.00	30.00	0.00	
9440.00	87.89	0.00	9337.87	183.98	0.00	183.98	30.00	0.00	30.00	0.00	
9447.02	90.00	0.00	9338.00	191.00	0.00	191.00	30.00	0.00	30.00	0.00	LP
9500.00	90.00	0.00	9338.00	243.98	0.00	243.98	0.00	0.00	0.00	0.00	
9600.00	90.00	0.00	9338.00	343.98	0.00	343.98	0.00	0.00	0.00	0.00	
9700.00	90.00	0.00	9338.00	443.98	0.00	443.98	0.00	0.00	0.00	0.00	
9800.00	90.00	0.00	9338.00	543.98	0.00	543.98	0.00	0.00	0.00	0.00	
9900.00	90.00	0.00	9338.00	643.98	0.00	643.98	0.00	0.00	0.00	0.00	
10000.00	90.00	0.00	9338.00	743.98	0.00	743.98	0.00	0.00	0.00	0.00	
10100.00	90.00	0.00	9338.00	843.98	0.00	843.98	0.00	0.00	0.00	0.00	
10200.00	90.00	0.00	9338.00	943.98	0.00	943.98	0.00	0.00	0.00	0.00	
10300.00	90.00	0.00	9338.00	1043.98	0.00	1043.98	0.00	0.00	0.00	0.00	
10400.00	90.00	0.00	9338.00	1143.98	0.00	1143.98	0.00	0.00	0.00	0.00	
10500.00	90.00	0.00	9338.00	1243.98	0.00	1243.98	0.00	0.00	0.00	0.00	
10600.00	90.00	0.00	9338.00	1343.98	0.00	1343.98	0.00	0.00	0.00	0.00	
10700.00	90.00	0.00	9338.00	1443.98	0.00	1443.98	0.00	0.00	0.00	0.00	
10800.00	90.00	0.00	9338.00	1543.98	0.00	1543.98	0.00	0.00	0.00	0.00	
10900.00	90.00	0.00	9338.00	1643.98	0.00	1643.98	0.00	0.00	0.00	0.00	
11000.00	90.00	0.00	9338.00	1743.98	0.00	1743.98	0.00	0.00	0.00	0.00	
11086.02	90.00	0.00	9338.00	1830.00	0.00	1830.00	0.00	0.00	0.00	0.00	PBHL

Targets

Name	Description	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL		9338.00	1830.00	0.00	732877.19	899857.35	33 0 33.106 N	103 9 49 756 W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2130.00	2130.00	Rustler		0.00	0.00
3137.00	3137.00	Yates		0.00	0.00
3330.00	3330.00	Seven Rivers		0.00	0.00
3929.00	3929.00	Queen		0.00	0.00
4242.00	4242.00	Grayburg		0.00	0.00
4431.00	4431.00	San Andres		0.00	0.00
6640.00	6640.00	Glorieta		0.00	0.00
6859.00	6859.00	Blinberry		0.00	0.00



Weatherford International, Inc.

Proposal Plan Report



Weatherford

Company: Cimarex
Field: Lea Co, NM (NAD 83)
Site: BLANCA 23 FEE #1
Well: #1
Wellpath: 1

Date: 5/28/2008
Co-ordinate(NE) Reference: Site BLANCA 23 FEE #1, True North
Vertical (TVD) Reference: SITE 3795.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Time: 16:27:15
Page: 3

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
7437.00	7437.00	Tubb		0.00	0.00
7677.00	7677.00	Drinkard		0.00	0.00
8091.00	8091.00	Abo		0.00	0.00
9361.11	9319.00	Wolfcamp		0.00	0.00
	0.00	Wolfcamp B		0.00	0.00

Annotation

MD ft	TVD ft	
9147.00	9147.00	KOP
9447.02	9338.00	LP
11086.02	9338.00	PBHL

Casing Points

MD	TVD	Diameter	Hole Size	Name