

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 87506

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-38681	Pool Code 17290	Pool Name Denton; Wolfcamp
Property Code 36897	Property Name PYRAMID "31" FEE	Well Number 3
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3787'

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	31	14 S	38 E		2210	SOUTH	1800	WEST	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
N	31	14 S	38 E		330	SOUTH	1800	WEST	LEA
Dedicated Acres 80	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

SURFACE LOCATION Lat - N33°03'34.84" Long - W103°08'21.00" NMSPC- N 751328.7 E 907204.8 (NAD-83) BOTTOM HOLE LOCATION Lat - N33°03'16.2" Long - W103°08'21.0" NMSPC- N 749448.86 E 907229.18 (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 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. <i>Natalie Krueger</i> 01-08-08 Signature Date Natalie Krueger 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. NOVEMBER 20, 2007 Date Surveyed <i>Gary L. Jones</i> Signature Professional Surveyor 7977 Certificate No. Gary L. Jones BASIN SURVEYS



Weatherford[®]

Drilling Services

30-025-38681

Proposal



PYRAMID 31 FEE #3

LEA COUNTY, NEW MEXICO

WELL FILE: **PLAN 1**

JANUARY 07, 2008

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

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PYRAMID 31 FEE #3
LEA COUNTY, NEW MEXICO



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0 00	0 00	180 00	0 00	0 00	0 00	0 00	0 00	0 00	
2	9209 00	0 00	180 00	9209 00	0 00	0 00	0 00	0 00	0 00	
3	9509 03	90 00	180 00	9400 00	-191 00	0 00	30 00	180 00	191 00	
4	11198 02	90 00	180 00	9400 00	-1880 00	0 00	0 00	0 00	1880 00	PBHL

FORMATION TOP DETAILS

No	TVDPATH	MDPATH	FORMATION
1	2183 00	2183 00	RUSTLER
2	3189 00	3189 00	YATES
3	3382 00	3382 00	SEVEN RIVERS
4	3974 00	3974 00	QUEEN
5	4280 00	4280 00	GRAYBURG
6	4449 00	4449 00	SAN ANDRES
7	6716 00	6716 00	GLORIETA
8	6958 00	6958 00	BLINEBRY
9	7431 00	7431 00	TUBB
10	7683 00	7683 00	DRINKARD
11	8122 00	8122 00	ABO
12	9385 00	9432 82	WOLFCAMP

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#3	0 00	0 00	751328 70	907204 80	33°03'34 823N	103°08'21 026W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	9400 00	-1880 00	0 00	749448 82	907226 18	Point

FIELD DETAILS

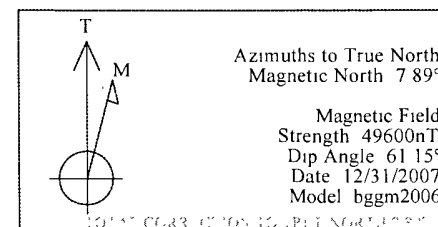
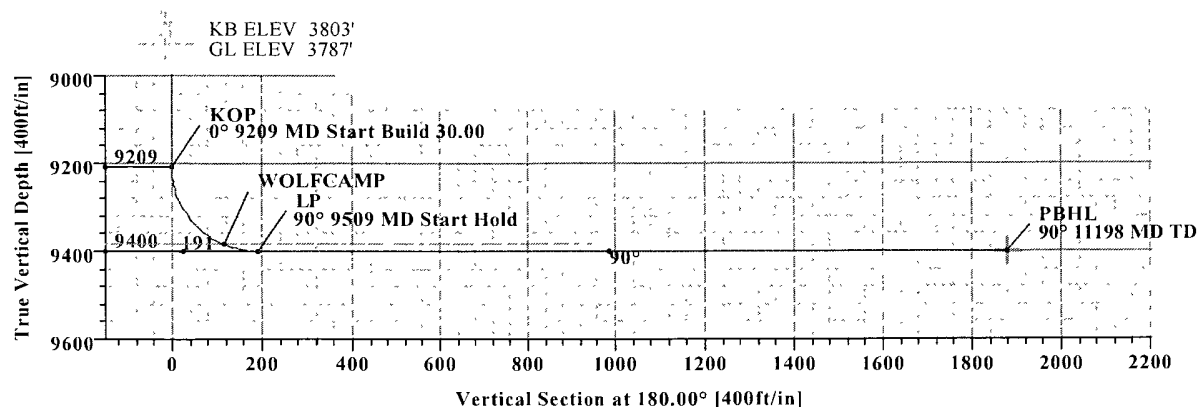
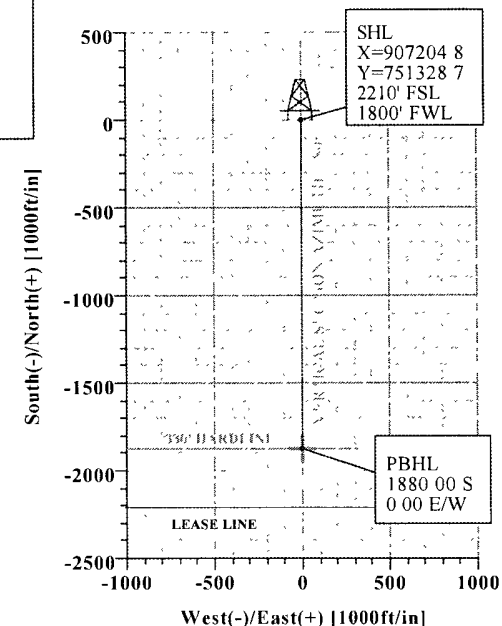
Lea Co., NM (NAD 83)

Geodetic System US State Plane Coordinate System 1983
Ellipsoid GRS 1980
Zone New Mexico, Eastern Zone
Magnetic Model bgm2006
System Datum Mean Sea Level
Local North True North

SITE DETAILS

Pyramid 31 Fee #3
2210' FSL 1800' FWL of SEC 31, T-14-S, R-38-E

Site Centre Northing 751328 70
Easting 907204 80
Ground Level 3787 00
Positional Uncertainty 0 00
Convergence 0 65



Plan Plan #1 (#3/1)

Created By Lindsey Maddux

Date 1/7/2008



Weatherford International, Inc.

Proposal Plan Report



Weatherford

Company: Cimarex	Date: 1/7/2008	Time: 15:31:34	Page: 1
Field: Lea Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Site: Pyramid 31 Fee #3, True North	
Site: Pyramid 31 Fee #3	Vertical (TVD) Reference:	SITE 3803.0	
Well: #3	Section (VS) Reference:	Well (0.00N,0.00E,180.00Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Plan: Plan #1	Date Composed: 1/3/2008
Principal: Yes	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: bggm2006

Site: Pyramid 31 Fee #3

2210' FSL 1800' FWL of SEC 31, T-14-S, R-38-E

Site Position:	Northing:	751328.70 ft	Latitude:	33	3	34 823 N
From: Map	Easting:	907204.80 ft	Longitude:	103	8	21 026 W
Position Uncertainty:	0.00 ft		North Reference:			True
Ground Level:	3787.00 ft		Grid Convergence:			0.65 deg

Well: #3

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	751328.70 ft	Latitude:	33	3	34.823 N
	+E/-W	0.00 ft	Easting:	907204.80 ft	Longitude:	103	8	21.026 W
Position Uncertainty:	0.00 ft							

Wellpath: 1

Current Datum:	SITE	Height	3803.00 ft	Drilled From:	Surface
Magnetic Data:	12/31/2007			Tie-on Depth:	0.00 ft
Field Strength:	49600 nT			Above System Datum:	Mean Sea Level
Vertical Section:	Depth From (TVD)	+N/-S		Declination:	7.89 deg
	ft	ft		Mag Dip Angle:	61.15 deg
				+E/-W	Direction
				ft	deg
	0.00	0.00		0.00	180.00

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	180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9209.00	0.00	180.00	9209.00	0.00	0.00	0.00	0.00	0.00	0.00	
9509.03	90.00	180.00	9400.00	-191.00	0.00	30.00	30.00	0.00	180.00	
11198.02	90.00	180.00	9400.00	-1880.00	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
9209.00	0.00	180.00	9209.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00	KOP
9220.00	3.30	180.00	9219.99	-0.32	0.00	0.32	30.00	0.00	30.00	0.00	
9230.00	6.30	180.00	9229.96	-1.15	0.00	1.15	30.00	0.00	30.00	0.00	
9240.00	9.30	180.00	9239.86	-2.51	0.00	2.51	30.00	0.00	30.00	0.00	
9250.00	12.30	180.00	9249.69	-4.38	0.00	4.38	30.00	0.00	30.00	0.00	
9260.00	15.30	180.00	9259.40	-6.77	0.00	6.77	30.00	0.00	30.00	0.00	
9270.00	18.30	180.00	9268.97	-9.66	0.00	9.66	30.00	0.00	30.00	0.00	
9280.00	21.30	180.00	9278.38	-13.04	0.00	13.04	30.00	0.00	30.00	0.00	
9290.00	24.30	180.00	9287.59	-16.92	0.00	16.92	30.00	0.00	30.00	0.00	
9300.00	27.30	180.00	9296.60	-21.27	0.00	21.27	30.00	0.00	30.00	0.00	
9310.00	30.30	180.00	9305.36	-26.09	0.00	26.09	30.00	0.00	30.00	0.00	
9320.00	33.30	180.00	9313.86	-31.36	0.00	31.36	30.00	0.00	30.00	0.00	
9330.00	36.30	180.00	9322.07	-37.06	0.00	37.06	30.00	0.00	30.00	0.00	
9340.00	39.30	180.00	9329.97	-43.19	0.00	43.19	30.00	0.00	30.00	0.00	
9350.00	42.30	180.00	9337.54	-49.72	0.00	49.72	30.00	0.00	30.00	0.00	
9360.00	45.30	180.00	9344.76	-56.64	0.00	56.64	30.00	0.00	30.00	0.00	
9370.00	48.30	180.00	9351.60	-63.93	0.00	63.93	30.00	0.00	30.00	0.00	



Weatherford International, Inc.

Proposal Plan Report



Weatherford

Company: Cimarex Date: 1/7/2008 Time: 15:31:34 Page: 2
Field: Lea Co. NM (NAD 83) Co-ordinate(NE) Reference: Site: Pyramid 31 Fee #3: True North
Site: Pyramid 31 Fee #3 Vertical (TVD) Reference: SITE 3803.0
Well: #3 Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
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
9380.00	51.30	180.00	9358.05	-71.57	0.00	71.57	30.00	0.00	30.00	0.00	
9390.00	54.30	180.00	9364.10	-79.53	0.00	79.53	30.00	0.00	30.00	0.00	
9400.00	57.30	180.00	9369.72	-87.80	0.00	87.80	30.00	0.00	30.00	0.00	
9410.00	60.29	180.00	9374.90	-96.35	0.00	96.35	30.00	0.00	30.00	0.00	
9420.00	63.29	180.00	9379.63	-105.17	0.00	105.17	30.00	0.00	30.00	0.00	
9430.00	66.29	180.00	9383.89	-114.21	0.00	114.21	30.00	0.00	30.00	0.00	
9432.82	67.14	180.00	9385.00	-116.80	0.00	116.80	30.00	0.00	30.00	0.00	WOLFCAMP
9440.00	69.29	180.00	9387.66	-123.47	0.00	123.47	30.00	0.00	30.00	0.00	
9450.00	72.29	180.00	9390.95	-132.91	0.00	132.91	30.00	0.00	30.00	0.00	
9460.00	75.29	180.00	9393.74	-142.51	0.00	142.51	30.00	0.00	30.00	0.00	
9470.00	78.29	180.00	9396.03	-152.25	0.00	152.25	30.00	0.00	30.00	0.00	
9480.00	81.29	180.00	9397.80	-162.09	0.00	162.09	30.00	0.00	30.00	0.00	
9490.00	84.29	180.00	9399.06	-172.01	0.00	172.01	30.00	0.00	30.00	0.00	
9500.00	87.29	180.00	9399.79	-181.98	0.00	181.98	30.00	0.00	30.00	0.00	
9509.03	90.00	180.00	9400.00	-191.00	0.00	191.00	30.00	0.00	30.00	0.00	LP
9600.00	90.00	180.00	9400.00	-281.98	0.00	281.98	0.00	0.00	0.00	0.00	
9700.00	90.00	180.00	9400.00	-381.98	0.00	381.98	0.00	0.00	0.00	0.00	
9800.00	90.00	180.00	9400.00	-481.98	0.00	481.98	0.00	0.00	0.00	0.00	
9900.00	90.00	180.00	9400.00	-581.98	0.00	581.98	0.00	0.00	0.00	0.00	
10000.00	90.00	180.00	9400.00	-681.98	0.00	681.98	0.00	0.00	0.00	0.00	
10100.00	90.00	180.00	9400.00	-781.98	0.00	781.98	0.00	0.00	0.00	0.00	
10200.00	90.00	180.00	9400.00	-881.98	0.00	881.98	0.00	0.00	0.00	0.00	
10300.00	90.00	180.00	9400.00	-981.98	0.00	981.98	0.00	0.00	0.00	0.00	
10400.00	90.00	180.00	9400.00	-1081.98	0.00	1081.98	0.00	0.00	0.00	0.00	
10500.00	90.00	180.00	9400.00	-1181.98	0.00	1181.98	0.00	0.00	0.00	0.00	
10600.00	90.00	180.00	9400.00	-1281.98	0.00	1281.98	0.00	0.00	0.00	0.00	
10700.00	90.00	180.00	9400.00	-1381.98	0.00	1381.98	0.00	0.00	0.00	0.00	
10800.00	90.00	180.00	9400.00	-1481.98	0.00	1481.98	0.00	0.00	0.00	0.00	
10900.00	90.00	180.00	9400.00	-1581.98	0.00	1581.98	0.00	0.00	0.00	0.00	
11000.00	90.00	180.00	9400.00	-1681.98	0.00	1681.98	0.00	0.00	0.00	0.00	
11100.00	90.00	180.00	9400.00	-1781.98	0.00	1781.98	0.00	0.00	0.00	0.00	
11198.02	90.00	180.00	9400.00	-1880.00	0.00	1880.00	0.00	0.00	0.00	0.00	PBHL

Targets

Targets																	
Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude			Longitude						
								Deg	Min	Sec	Deg	Min	Sec				
PBHL			9400.00	-1880.00	0.00	749448.82	907226.18	33	3	16	223	N	103	8	21	026	W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2183.00	2183.00	RUSTLER		0.00	0.00
3189.00	3189.00	YATES		0.00	0.00
3382.00	3382.00	SEVEN RIVERS		0.00	0.00
3974.00	3974.00	QUEEN		0.00	0.00
4280.00	4280.00	GRAYBURG		0.00	0.00
4449.00	4449.00	SAN ANDRES		0.00	0.00
6716.00	6716.00	GLORIETA		0.00	0.00
6958.00	6958.00	BLINEBRY		0.00	0.00
7431.00	7431.00	TUBB		0.00	0.00
7683.00	7683.00	DRINKARD		0.00	0.00
8122.00	8122.00	ABO		0.00	0.00
9432.82	9385.00	WOLFCAMP		0.00	0.00



Weatherford International, Inc.

Proposal Plan Report

**Weatherford**

Company:	Cimarex	Date:	1/7/2008	Time:	15:31:34	Page:	3
Field:	Lea Co. NM (NAD 83)	Co-ordinate(NE) Reference:	Site. Pyramid 31 Fee #3, True North				
Site:	Pyramid 31 Fee #3	Vertical (TVD) Reference:	SITE 3803.0				
Well:	#3	Section (VS) Reference:	Well (0.00N,0.00E;180.00Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
	0.00	WOLFCAMP B		0.00	0.00

Annotation

MD ft	TVD ft	
9209.00	9209.00	KOP
9509.03	9400.00	LP
11198.02	9400.00	PBHL

Casing Points

MD	TVD	Diameter	Hole Size	Name