

DISTRICT I
1023 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 89210

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

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

Form C-102
Revised October 12, 2005

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-38682	Pool Code 17290	Pool Name Denton; Wolfcamp
Property Code 36897	Property Name PYRAMID "31" FEE	Well Number 4
GRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3790'

Surface Location

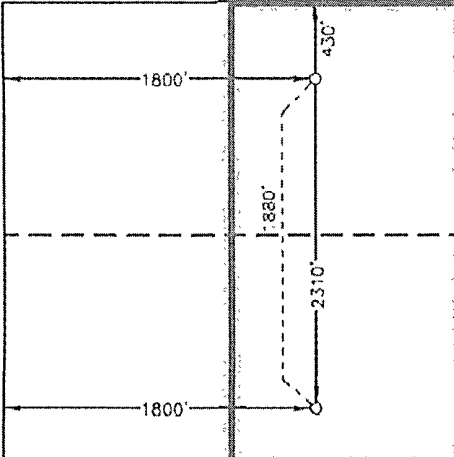
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	31	14 S	38 E		430	NORTH	1800	WEST	LEA

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
F	31	14 S	38 E		2310'	NORTH	1800	WEST	LEA

Dedicated Acres 80	Joint or Infill	Consolidation Code	Order No.
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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°04'00.96" Long - W103°08'21.06" NMSPCE - N 753969.4 E 907170.3 (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
	BOTTOM HOLE LOCATION Lat - N32°48'08.2" Long - W103°08'21.06" NMSPCE - N 753969.4 E 907170.3 (NAD-83)	



Weatherford[®]

Drilling Services

30-025-38682

Proposal



PYRAMID 31 FEE #4

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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+1.432.561.8895 Fax

www.weatherford.com



PYRAMID 31 FEE #4
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	9272 00	0 00	180 00	9272 00	0 00	0 00	0 00	0 00	0 00	
3	9572 02	90 00	180 00	9463 00	-191 00	0 00	30 00	180 00	191 00	
4	11261 02	90 00	180 00	9463 00	-1880 00	0 00	0 00	0 00	1880 00	PBHL

FORMATION TOP DETAILS

No	TVDPath	MDPath	Formation
1	2193 00	2193 00	RUSLTER
2	3215 00	3215 00	YATES
3	3405 00	3405 00	SEVEN RIVERS
4	3990 00	3990 00	QUEEN
5	4301 00	4301 00	GRAYBURG
6	4472 00	4472 00	SAN ANDRES
7	6714 00	6714 00	GLORIETA
8	6953 00	6953 00	BLINEBRY
9	7466 00	7466 00	TUBB
10	7729 00	7729 00	DRINKARD
11	8158 00	8158 00	ABO
12	9443 00	9483 83	WOLFCAMP

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#4	0 00	0 00	753969 40	907170 30	33°04'00 950N	103°08'21 078W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	9463 00	-1880 00	0 00	752089 52	907191 68	Point

FIELD DETAILS

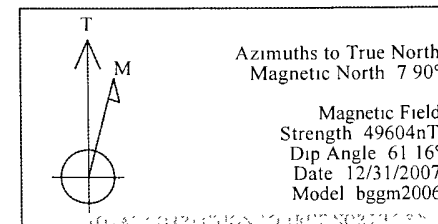
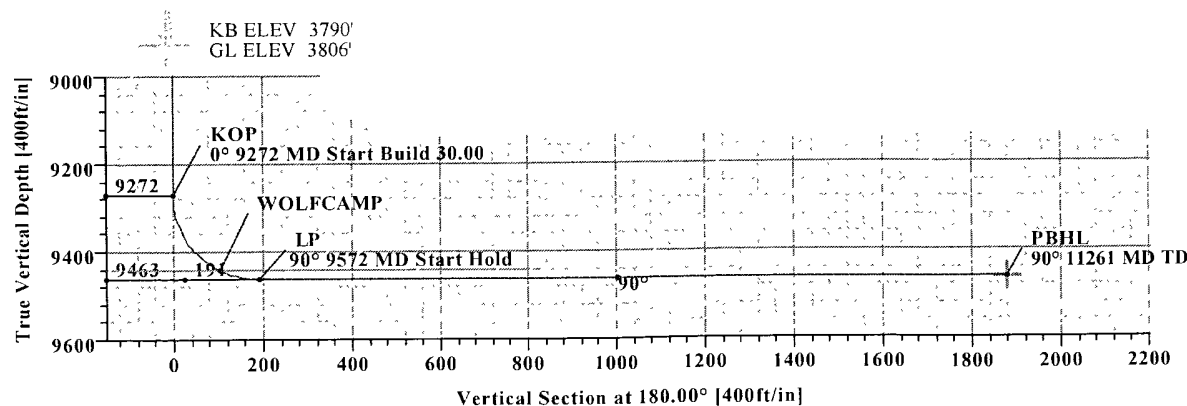
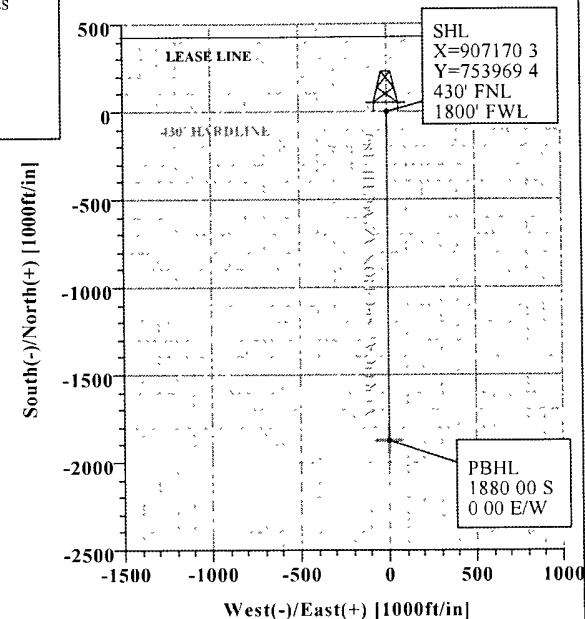
Lea Co., NM (NAD 83)

Geodetic System US State Plane Coordinate System 1983
Ellipsoid GRS 1980
Zone New Mexico, Eastern Zone
Magnetic Model bggm2006
System Datum Mean Sea Level
Local North True North

SITE DETAILS

Pyramid 31 Fee #4
430' FNL 1800' FWL of SEC 31, T-14-S, R-38-E

Site Centre Northing 753969 40
Easting 907170 30
Ground Level 3790 00
Positional Uncertainty 0 00
Convergence 0 65



Plan Plan #1 (#4/1)

Created By Lindsey Maddux

Date 1/7/2008



Weatherford International, Inc.

Proposal Plan Report

**Weatherford**

Company: Cimarex		Date: 1/7/2008	Time: 15:44.00	Page: 1							
Field: Lea Co., NM (NAD 83)		Co-ordinate(NE) Reference:	Site: Pyramid 31 Fee #4 True North								
Site: Pyramid 31 Fee #4		Vertical (TVD) Reference:	SITE 3806.0								
Well: #4		Section (VS) Reference:	Well (0.00N,0.00E,180.00Azi)								
Wellpath: 1		Survey Calculation Method:	Minimum Curvature Db: Sybase								
Plan: Plan #1		Date Composed:	1/7/2008								
Principal: Yes		Version:	1								
		Tied-to:	From Surface								
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:	bggm2006								
Site: Pyramid 31 Fee #4											
430' FNL 1800' FWL of SEC 31, T-14-S, R-38-E											
Site Position:	Northing:	753969.40 ft	Latitude:	33 4 0.950 N							
From: Map	Easting:	907170.30 ft	Longitude:	103 8 21.078 W							
Position Uncertainty:	0 00 ft		North Reference:	True							
Ground Level:	3790 00 ft		Grid Convergence:	0 65 deg							
Well: #4 Slot Name:											
Well Position:	+N/-S 0 00 ft	Northing: 753969.40 ft	Latitude:	33 4 0.950 N							
	+E/-W 0 00 ft	Easting: 907170.30 ft	Longitude:	103 8 21 078 W							
Position Uncertainty:	0.00 ft										
Wellpath: 1											
Current Datum:	SITE	Height 3806 00 ft	Drilled From:	Surface							
Magnetic Data:	12/31/2007		Tie-on Depth:	0.00 ft							
Field Strength:	49604 nT		Above System Datum:	Mean Sea Level							
Vertical Section:	Depth From (TVD)	+N/-S	Declination:	7.90 deg							
	ft	ft	Mag Dip Angle:	61 16 deg							
			+E/-W	Direction							
			ft	deg							
	0 00	0.00	0.00	180 00							
Plan Section Information											
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target	
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg		
0.00	0 00	180 00	0 00	0.00	0 00	0 00	0.00	0 00	0 00		
9272.00	0 00	180.00	9272.00	0.00	0.00	0.00	0 00	0 00	0 00		
9572.02	90 00	180 00	9463.00	-191.00	0.00	30.00	30 00	0 00	180.00		
11261.02	90.00	180.00	9463 00	-1880 00	0 00	0.00	0.00	0 00	0 00	PBHL	
Survey											
MD	Incl	Azim	TVD	N/S	E/W	VS	Build	Turn	DLS	TFO	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
9200.00	0.00	180.00	9200.00	0.00	0 00	0 00	0 00	0 00	0.00	180.00	
9272.00	0 00	180 00	9272.00	0.00	0.00	0.00	0 00	0 00	0 00	180.00	KOP
9280 00	2 40	180 00	9280 00	-0 17	0.00	0.17	30 00	0 00	30.00	0 00	
9290 00	5.40	180 00	9289 97	-0.85	0 00	0 85	30 00	0 00	30 00	0 00	
9300 00	8.40	180 00	9299 90	-2.05	0 00	2 05	30.00	0 00	30 00	0 00	
9310 00	11 40	180 00	9309.75	-3.77	0.00	3 77	30 00	0.00	30 00	0 00	
9320.00	14 40	180.00	9319 50	-6 00	0.00	6.00	30 00	0.00	30 00	0 00	
9330 00	17.40	180 00	9329.11	-8 74	0.00	8.74	30 00	0 00	30 00	0 00	
9340 00	20.40	180.00	9338.57	-11 98	0 00	11.98	30 00	0.00	30.00	0 00	
9350 00	23.40	180.00	9347.85	-15.71	0 00	15.71	30 00	0.00	30.00	0 00	
9360 00	26 40	180 00	9356.92	-19.92	0 00	19 92	30 00	0 00	30 00	0.00	
9370 00	29.40	180 00	9365 76	-24 59	0.00	24 59	30 00	0 00	30.00	0 00	
9380 00	32.40	180 00	9374.34	-29 73	0.00	29.73	30 00	0.00	30 00	0 00	
9390 00	35.40	180.00	9382 64	-35 31	0 00	35 31	30 00	0 00	30 00	0 00	
9400.00	38 40	180.00	9390.63	-41 31	0.00	41.31	30 00	0.00	30 00	0 00	
9410 00	41.40	180 00	9398.30	-47.72	0 00	47.72	30.00	0 00	30.00	0 00	
9420.00	44 40	180.00	9405.63	-54 53	0.00	54.53	30 00	0.00	30 00	0.00	



Weatherford International, Inc.

Proposal Plan Report



Weatherford

Company: Cimarex	Date: 1/7/2008	Time: 15:44:00	Page: 2
Field: Lea Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Site: Pyramid 31 Fee #4, True North	
Site: Pyramid 31 Fee #4	Vertical (TVD) Reference:	SITE 3806 0	
Well: #4	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
9430.00	47.40	180.00	9412.59	-61.71	0.00	61.71	30.00	0.00	30.00	0.00	
9440.00	50.40	180.00	9419.16	-69.24	0.00	69.24	30.00	0.00	30.00	0.00	
9450.00	53.40	180.00	9425.33	-77.11	0.00	77.11	30.00	0.00	30.00	0.00	
9460.00	56.40	180.00	9431.08	-85.29	0.00	85.29	30.00	0.00	30.00	0.00	
9470.00	59.40	180.00	9436.39	-93.76	0.00	93.76	30.00	0.00	30.00	0.00	
9480.00	62.40	180.00	9441.26	-102.50	0.00	102.50	30.00	0.00	30.00	0.00	
9483.83	63.55	180.00	9443.00	-105.91	0.00	105.91	30.00	0.00	30.00	0.00	WOLFCAMP
9490.00	65.39	180.00	9445.66	-111.48	0.00	111.48	30.00	0.00	30.00	0.00	
9500.00	68.39	180.00	9449.58	-120.67	0.00	120.67	30.00	0.00	30.00	0.00	
9510.00	71.39	180.00	9453.02	-130.06	0.00	130.06	30.00	0.00	30.00	0.00	
9520.00	74.39	180.00	9455.96	-139.62	0.00	139.62	30.00	0.00	30.00	0.00	
9530.00	77.39	180.00	9458.40	-149.32	0.00	149.32	30.00	0.00	30.00	0.00	
9540.00	80.39	180.00	9460.32	-159.13	0.00	159.13	30.00	0.00	30.00	0.00	
9550.00	83.39	180.00	9461.73	-169.03	0.00	169.03	30.00	0.00	30.00	0.00	
9560.00	86.39	180.00	9462.62	-178.99	0.00	178.99	30.00	0.00	30.00	0.00	
9570.00	89.39	180.00	9462.99	-188.98	0.00	188.98	30.00	0.00	30.00	0.00	
9572.02	90.00	180.00	9463.00	-191.00	0.00	191.00	30.00	0.00	30.00	0.00	LP
9600.00	90.00	180.00	9463.00	-218.98	0.00	218.98	0.00	0.00	0.00	0.00	
9700.00	90.00	180.00	9463.00	-318.98	0.00	318.98	0.00	0.00	0.00	0.00	
9800.00	90.00	180.00	9463.00	-418.98	0.00	418.98	0.00	0.00	0.00	0.00	
9900.00	90.00	180.00	9463.00	-518.98	0.00	518.98	0.00	0.00	0.00	0.00	
10000.00	90.00	180.00	9463.00	-618.98	0.00	618.98	0.00	0.00	0.00	0.00	
10100.00	90.00	180.00	9463.00	-718.98	0.00	718.98	0.00	0.00	0.00	0.00	
10200.00	90.00	180.00	9463.00	-818.98	0.00	818.98	0.00	0.00	0.00	0.00	
10300.00	90.00	180.00	9463.00	-918.98	0.00	918.98	0.00	0.00	0.00	0.00	
10400.00	90.00	180.00	9463.00	-1018.98	0.00	1018.98	0.00	0.00	0.00	0.00	
10500.00	90.00	180.00	9463.00	-1118.98	0.00	1118.98	0.00	0.00	0.00	0.00	
10600.00	90.00	180.00	9463.00	-1218.98	0.00	1218.98	0.00	0.00	0.00	0.00	
10700.00	90.00	180.00	9463.00	-1318.98	0.00	1318.98	0.00	0.00	0.00	0.00	
10800.00	90.00	180.00	9463.00	-1418.98	0.00	1418.98	0.00	0.00	0.00	0.00	
10900.00	90.00	180.00	9463.00	-1518.98	0.00	1518.98	0.00	0.00	0.00	0.00	
11000.00	90.00	180.00	9463.00	-1618.98	0.00	1618.98	0.00	0.00	0.00	0.00	
11100.00	90.00	180.00	9463.00	-1718.98	0.00	1718.98	0.00	0.00	0.00	0.00	
11200.00	90.00	180.00	9463.00	-1818.98	0.00	1818.98	0.00	0.00	0.00	0.00	
11261.02	90.00	180.00	9463.00	-1880.00	0.00	1880.00	0.00	0.00	0.00	0.00	PBHL

Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->				
	Dip.							Deg	Min	Sec	Deg	Min	Sec		
PBHL			9463.00	-1880.00	0.00	752089.52	907191.68	33	3	42.351	N	103	8	21.078	W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2193.00	2193.00	RUSLTER		0.00	0.00
3215.00	3215.00	YATES		0.00	0.00
3405.00	3405.00	SEVEN RIVERS		0.00	0.00
3990.00	3990.00	QUEEN		0.00	0.00
4301.00	4301.00	GRAYBURG		0.00	0.00
4472.00	4472.00	SAN ANDRES		0.00	0.00
6714.00	6714.00	GLORIETA		0.00	0.00



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Proposal Plan Report

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Site:	Pyramid 31-Fee #4	Vertical (TVD) Reference:	SITE 3806.0				
Well:	#4	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
6953.00	6953.00	BLINEBRY		0.00	0 00
7466.00	7466.00	TUBB		0.00	0.00
7729.00	7729.00	DRINKARD		0.00	0.00
8158.00	8158.00	ABO		0 00	0 00
9483.83	9443.00	WOLFCAMP		0 00	0 00
	0 00	WOLFCAMP B		0 00	0.00

Annotation

MD ft	TVD ft	
9272.00	9272.00	KOP
9572.02	9463.00	LP
11261.02	9463.00	PBHL

Casing Points

MD	TVD	Diameter	Hole Size	Name