

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 86210

DISTRICT III
1000 Rio Drazos 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 30-025-38606		Pool Code 17290	Pool Name Denton; Wolfcamp
Property Code 36833	Property Name MISSOURI UNIT "13" FEE		Well Number 5
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.		Elevation 3776'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	13	15 S	37 E		430	NORTH	2150	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
G	13	15 S	37 E		2310	NORTH	2150	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

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°01'24.28" Long - W103°09'07.35" NMSPCE- N 738088.7 E 903410.6 (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>Zeno Farris</i> 11-13-07 Signature Date Zeno Farris 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. OCTOBER 23, 2007 Date Surveyed <i>GARY L. JONES</i> Signature Professional Surveyor W. M. Jones Certificate No. Gary L. Jones 7977 BASIN SURVEYS



Weatherford[®]

Drilling Services

Proposal



MISSOURI UNIT 13 FEE #5

LEA COUNTY, NEW MEXICO

WELL FILE: **PLAN 1**

NOVEMBER 13, 2007

Weatherford International, Ltd.

P.O. Box 61028

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+1.432.561.8895 Fax

www.weatherford.com



MISSOURI UNIT 13 FEE #5
LEA COUNTY, NEW MEXICO



SECTION DETAILS

Sec	MD	Inc	A/A	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	9159 01	0 00	180 00	9159 01	0 00	0 00	0 00	0 00	0 00	
3	9459 01	90 00	180 00	9350 00	-190 99	0 00	30 00	180 00	190 99	
4	11148 93	90 00	180 00	9350 00	-1880 00	0 00	0 00	0 00	1880 00	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#5	0 00	0 00	738088 70	903410 60	33°01'24 269N	103°09'07 348W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL	9350 00	-1880 00	0 00	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

Missouri Unit 13 Fee #5
430' FNL 2150' FEL of SEC 13, T-15-S, R-37-E

Site Centre Northing 738088 70
Easting 903410 60

Ground Level 3776 00
Positional Uncertainty 0 00
Convergence 0 64

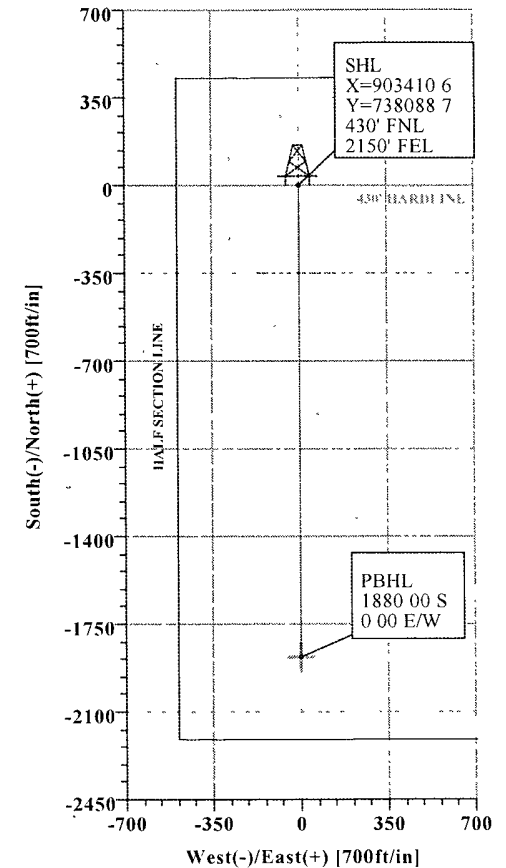
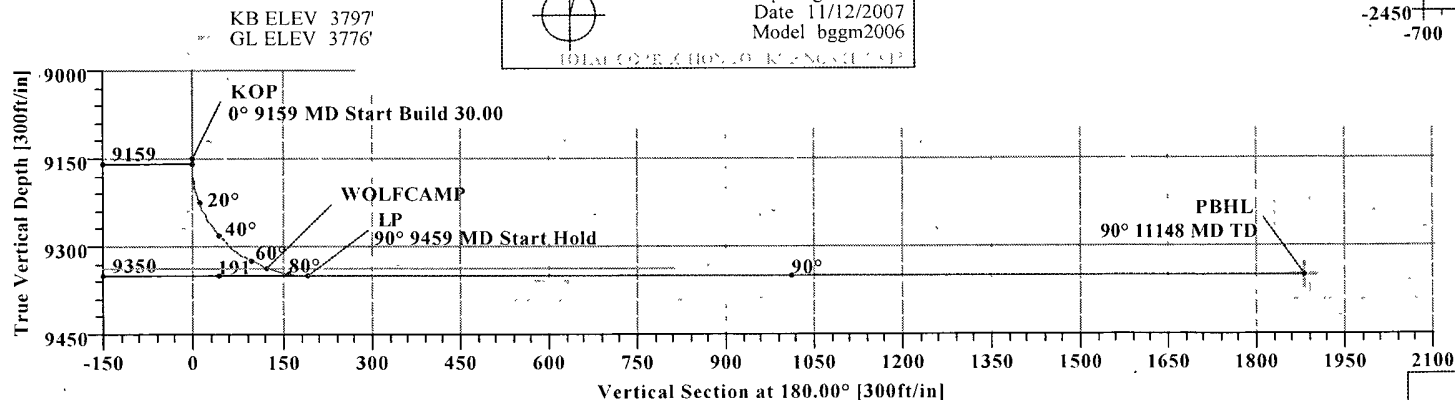
FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	9337.00	9388.14	WOLFCAMP



Azimuths to True North
Magnetic North 7 91°

Magnetic Field
Strength 49589nT
Dip Angle 61 12°
Date 11/12/2007
Model bggm2006



Plan Plan #1 (#5/1)

Created By: Lindsey Maddux

Date 11/13/2007



Weatherford International, Inc.

Proposal Plan Report



Weatherford®

Company: Cimarex Date: 11/13/2007 Time: 10:30:14 Page: 1
Field: Lea Co, NM (NAD 83) Co-ordinate(NE) Reference: Site Missouri Unit 13 Fee #5, True Nort
Site: Missouri Unit 13 Fee #5 Vertical (TVD) Reference: SITE 3797.0
Well: #5 Section (VS) Reference: Well (0 00N,0 00E,180.00Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 11/12/2007
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: Missouri Unit 13 Fee #5

430' FNL 2150' FEL of SEC 13, T-15-S, R-37-E

Site Position: Northing: 738088 70 ft Latitude: 33 1 24 269 N
From: Map Easting: 903410 60 ft Longitude: 103 9 7 348 W
Position Uncertainty: 0 00 ft North Reference: True
Ground Level: 3776 00 ft Grid Convergence: 0 64 deg

Well: #5

Slot Name:

Well Position: +N/-S 0 00 ft Northing: 738088 70 ft Latitude: 33 1 24 269 N
+E/-W 0 00 ft Easting: 903410 60 ft Longitude: 103 9 7 348 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 3797 00 ft Drilled From: Surface
Magnetic Data: 11/12/2007 Tie-on Depth: 0 00 ft
Field Strength: 49589 nT Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD) +N/-S Declination: 7 91 deg
ft ft +E/-W Mag Dip Angle: 61 12 deg
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	
9159.01	0 00	180 00	9159.01	0 00	0 00	0 00	0 00	0 00	0 00	
9459 01	90 00	180 00	9350.00	-190 99	0 00	30.00	30.00	0 00	180.00	
11148 03	90 00	180 00	9350.00	-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	Comment
9100.00	0 00	180 00	9100 00	0 00	0 00	0 00	0 00	0 00	0 00	
9151 01	0 00	180 00	9151 01	0 00	0 00	0 00	0 00	0 00	0 00	KOP
9159.01	0 00	180 00	9159.01	0 00	0 00	0 00	0 00	0 00	0 00	
9170 00	3 30	180 00	9169 99	-0 32	0 00	0 32	30 00	0 00	30 00	
9180 00	6 30	180 00	9179 96	-1 15	0 00	1 15	30 00	0 00	30 00	
9190 00	9 30	180 00	9189 86	-2 51	0 00	2 51	30 00	0 00	30 00	
9200 00	12 30	180 00	9199.69	-4 38	0 00	4 38	30 00	0 00	30 00	
9210 00	15 30	180 00	9209 40	-6 77	0 00	6 77	30 00	0 00	30 00	
9220.00	18 30	180 00	9218 97	-9 65	0 00	9 65	30 00	0 00	30 00	
9230 00	21 30	180 00	9228.38	-13.04	0 00	13.04	30 00	0 00	30 00	
9240.00	24 30	180 00	9237.59	-16 91	0 00	16 91	30 00	0 00	30 00	
9250.00	27 30	180 00	9246.60	-21 27	0 00	21 27	30 00	0 00	30 00	
9260 00	30 30	180 00	9255.36	-26.08	0 00	26.08	30 00	0 00	30 00	
9270.00	33 30	180 00	9263.86	-31.35	0 00	31.35	30 00	0 00	30 00	
9280 00	36 30	180 00	9272.07	-37.06	0 00	37.06	30 00	0 00	30 00	
9290 00	39 30	180 00	9279.97	-43.18	0 00	43.18	30 00	0 00	30 00	
9300 00	42 30	180 00	9287.54	-49 72	0 00	49 72	30 00	0 00	30 00	



Weatherford International, Inc.

Proposal Plan Report

**Weatherford**

Company: Cimarex Date: 11/13/2007 Time: 10 30 14 Page: 2
Field: Lea Co, NM (NAD 83) Co-ordinate(NE) Reference: Site: Missouri Unit 13 Fee #5, True North
Site: Missouri Unit 13 Fee #5 Vertical (TVD) Reference: SITE 3797.0
Well: #5 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	Comment
9310.00	45.30	180.00	9294.76	-56.64	0.00	56.64	30.00	0.00	30.00	
9320.00	48.30	180.00	9301.60	-63.93	0.00	63.93	30.00	0.00	30.00	
9330.00	51.30	180.00	9308.06	-71.56	0.00	71.56	30.00	0.00	30.00	
9340.00	54.30	180.00	9314.10	-79.53	0.00	79.53	30.00	0.00	30.00	
9350.00	57.30	180.00	9319.72	-87.80	0.00	87.80	30.00	0.00	30.00	
9360.00	60.30	180.00	9324.90	-96.35	0.00	96.35	30.00	0.00	30.00	
9370.00	63.30	180.00	9329.63	-105.16	0.00	105.16	30.00	0.00	30.00	
9380.00	66.30	180.00	9333.89	-114.21	0.00	114.21	30.00	0.00	30.00	
9388.14	68.74	180.00	9337.00	-121.73	0.00	121.73	30.00	0.00	30.00	WOLFCAMP
9390.00	69.30	180.00	9337.67	-123.46	0.00	123.46	30.00	0.00	30.00	
9400.00	72.30	180.00	9340.95	-132.91	0.00	132.91	30.00	0.00	30.00	
9410.00	75.30	180.00	9343.75	-142.51	0.00	142.51	30.00	0.00	30.00	
9420.00	78.30	180.00	9346.03	-152.24	0.00	152.24	30.00	0.00	30.00	
9430.00	81.30	180.00	9347.80	-162.08	0.00	162.08	30.00	0.00	30.00	
9440.00	84.30	180.00	9349.05	-172.00	0.00	172.00	30.00	0.00	30.00	
9450.00	87.30	180.00	9349.79	-181.98	0.00	181.98	30.00	0.00	30.00	
9459.01	90.00	180.00	9350.00	-190.99	0.00	190.99	30.00	0.00	30.00	LP
9500.00	90.00	180.00	9350.00	-231.97	0.00	231.97	0.00	0.00	0.00	
9600.00	90.00	180.00	9350.00	-331.97	0.00	331.97	0.00	0.00	0.00	
9700.00	90.00	180.00	9350.00	-431.97	0.00	431.97	0.00	0.00	0.00	
9800.00	90.00	180.00	9350.00	-531.97	0.00	531.97	0.00	0.00	0.00	
9900.00	90.00	180.00	9350.00	-631.97	0.00	631.97	0.00	0.00	0.00	
10000.00	90.00	180.00	9350.00	-731.97	0.00	731.97	0.00	0.00	0.00	
10100.00	90.00	180.00	9350.00	-831.97	0.00	831.97	0.00	0.00	0.00	
10200.00	90.00	180.00	9350.00	-931.97	0.00	931.97	0.00	0.00	0.00	
10300.00	90.00	180.00	9350.00	-1031.97	0.00	1031.97	0.00	0.00	0.00	
10400.00	90.00	180.00	9350.00	-1131.97	0.00	1131.97	0.00	0.00	0.00	
10500.00	90.00	180.00	9350.00	-1231.97	0.00	1231.97	0.00	0.00	0.00	
10600.00	90.00	180.00	9350.00	-1331.97	0.00	1331.97	0.00	0.00	0.00	
10700.00	90.00	180.00	9350.00	-1431.97	0.00	1431.97	0.00	0.00	0.00	
10800.00	90.00	180.00	9350.00	-1531.97	0.00	1531.97	0.00	0.00	0.00	
10900.00	90.00	180.00	9350.00	-1631.97	0.00	1631.97	0.00	0.00	0.00	
11000.00	90.00	180.00	9350.00	-1731.97	0.00	1731.97	0.00	0.00	0.00	
11100.00	90.00	180.00	9350.00	-1831.97	0.00	1831.97	0.00	0.00	0.00	
11148.03	90.00	180.00	9350.00	-1880.00	0.00	1880.00	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL			9350.00	-1880.00	0.00	736208.82	903431.73	33 1 5 669 N	103 9 7 348 W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
9388.14	9337.00	WOLFCAMP		0.00	0.00



Weatherford International, Inc.
Proposal Plan Report



Weatherford

Company: Cimarex Date: 11/13/2007 Time: 10:30:14 Page: 3
Field: Lea Co., NM (NAD 83) Co-ordinate(NE) Reference: Site Missouri Unit 13 Fee #5, True North
Site: Missouri Unit 13 Fee #5 Vertical (TVD) Reference: SITE 3797.0
Well: #5 Section (VS) Reference: Well (0.00N, 0.00E, 180.00Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Annotation

MD ft	TVD ft	
9151.01	9151.01	KOP
9459.01	9350.00	LP
11148.02	9350.00	PBHL

Casing Points

MD	TVD	Diameter	Hole Size	Name