

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. 14,038

AFFIDAVIT OF DAN SPANCERS

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

Dan Spancers, 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 plat of the Denton field, a Wolfcamp and Devonian field discovered in 1949. Cimarex is attempting to extend the productive portion of the field to the east and southeast.
4. Exhibit B is a structure map on top of the Wolfcamp formation. The Wolfcamp dips gently to the southeast. Exhibit B also contains production data from older, vertical wells in the pool.
5. The proposed well is moving downdip, and there is a thinner Wolfcamp section in the proposed well. Exhibit C is a type log from an older, vertical well. The pay being tested in the horizontal well is indicated on the type log.
6. Both quarter-quarter sections in the well are prospective in the Wolfcamp, and Cimarex anticipates producing reserves from each quarter-quarter section.
7. Exhibit D is a directional drilling plan for the well. Vertical wells would not be economic, due to the thinner pay section available to such a well. A horizontal wellbore will test a greater reservoir length, increasing the chances for an economic completion.

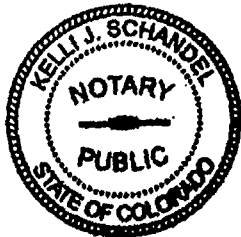
Oil Conservation Division
Case No. _____
Exhibit No. 2

Dan Spencers
Dan Spencers

SUBSCRIBED AND SWORN TO before me this 27 day of November, 2007 by Dan Spencers.

My Commission Expires: 8/23/09

Kelli Schandel
Notary Public



My Commission Expires Aug. 23, 2008

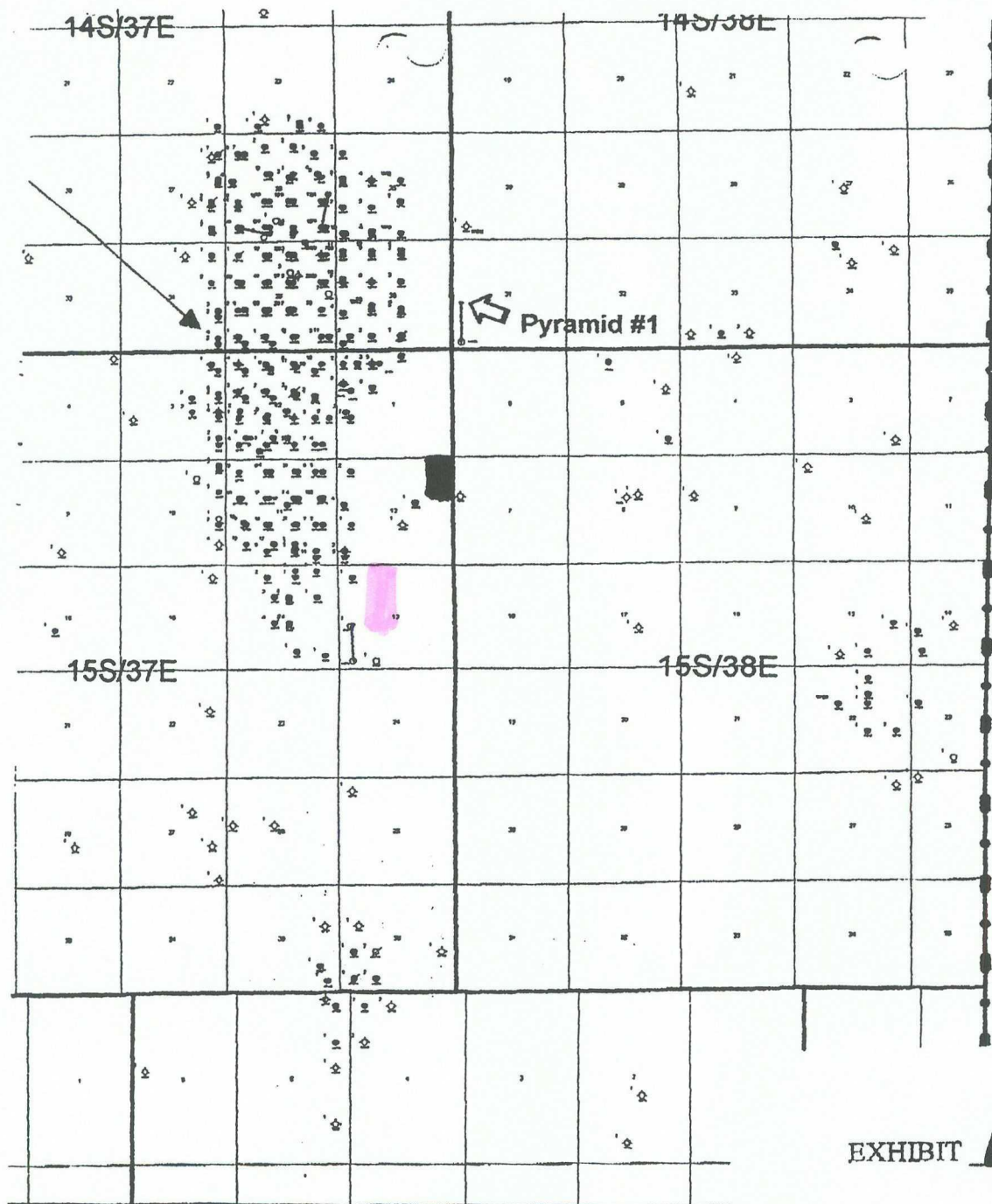


EXHIBIT **A**

Cimarex Energy Co.

**Caudill / Denton Area Base Map
Northern Lea Co, NM**

Author:
Dave Rittersbacher

Scale:
1"=8000'

Date:
17 May, 2007

Pyramid 80 acre unit

Pyramid #1
Lateral currently drilling

Harvard 6 Fee #2

proposed 80 acre unit

Sherman 13 Fee #3

proposed 80 acre unit

Sunshine #1

EXHIBIT

B

Type Log

30025052030000



SINCLAIR OIL & GAS
WT MANN 1
660FSL 2310FEL
TWP: 14 S - Range: 37 E - Sec. 36
Reference=ES
Datum=3797
Comp Date=8/4/1953

EXHIBIT **C**

-5400

-5400

WOLFCAMP

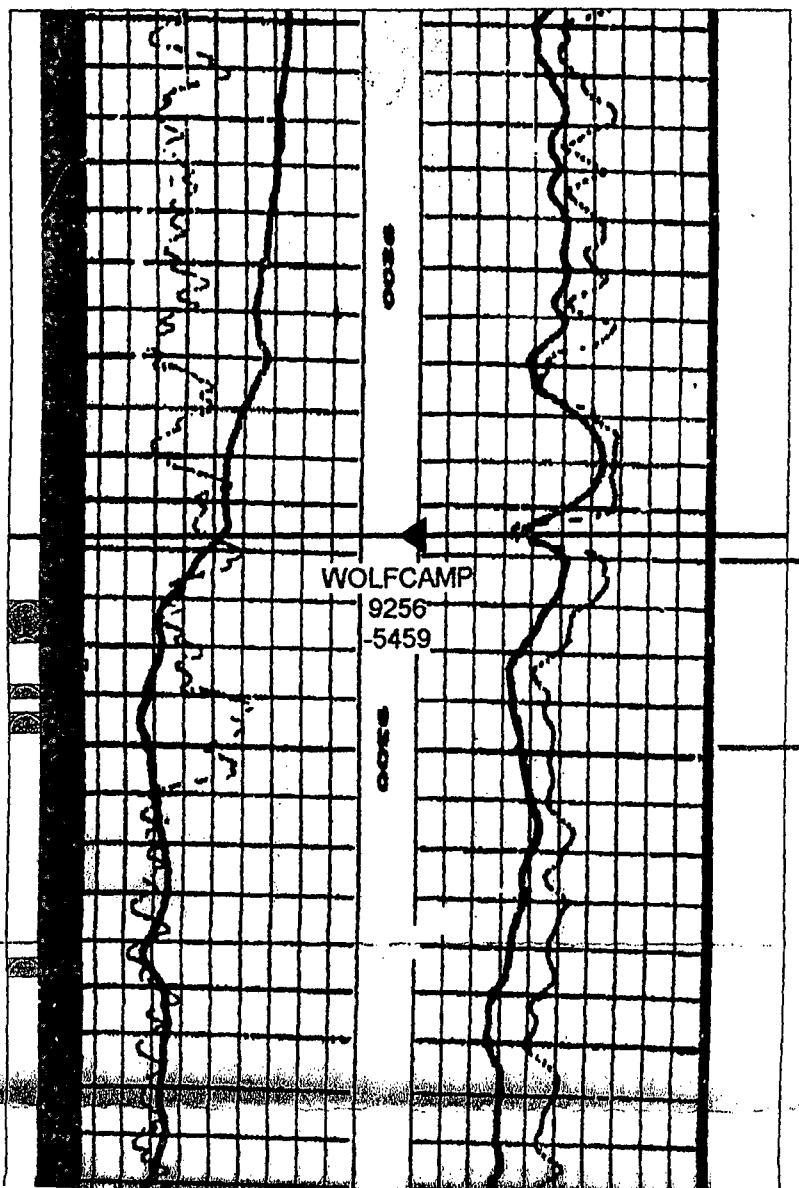
9256

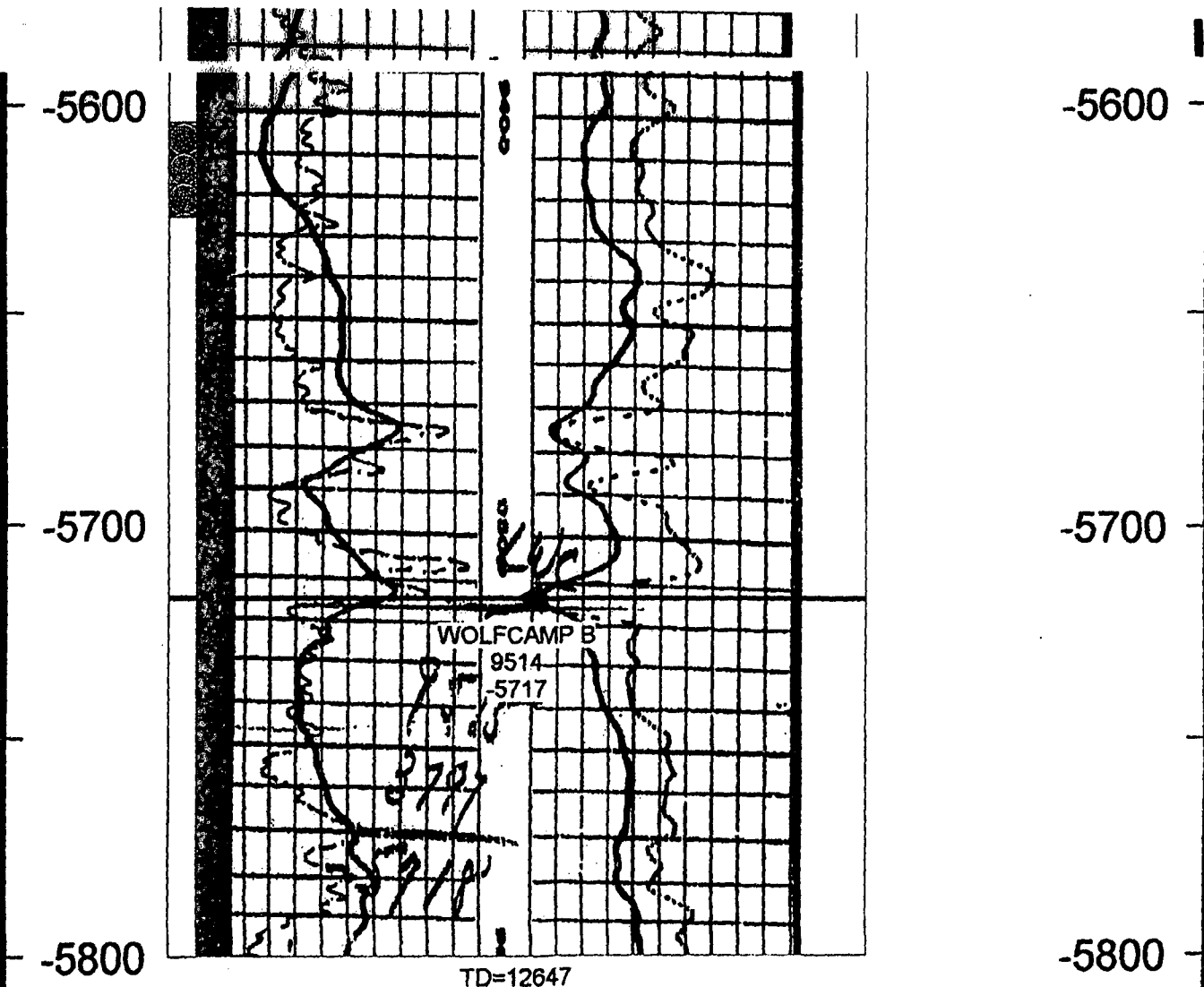
-5459

Horizontal
Target Zone

-5500

-5500





Completed in Devonian 1953, Acid 12,000G,
Cum. 402 MBO 48 MMCFG 93 MBW (1953-1973)

PB to Wolfcamp 1973, Acid 6500G
Cum 63 MBO 26 MMCFG 38 MBW (1973-1988)

Converted to Water Injection Injection 1988



Weatherford®

Drilling Services

30-025-38601

Proposal



HURON 13 FEE #4

LEA COUNTY, NEW MEXICO

WELL FILE: **PLAN 1**

NOVEMBER 23, 2007

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 



HURON 13 FEE #4
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	180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	9151.01	0.00	180.00	9151.01	0.00	0.00	0.00	0.00	0.00	0.00
3	9451.01	90.00	180.00	9342.00	-190.99	0.00	30.00	180.00	190.99	0.00
4	11470.03	90.00	180.00	9342.00	-2210.00	0.00	0.00	0.00	2210.00	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	North	East	Latitude	Longitude	Slot
#4	0.00	0.00	738078.00	902022.50	33°01'24.317N	105°09'23.651W	N/A

TARGET DETAILS

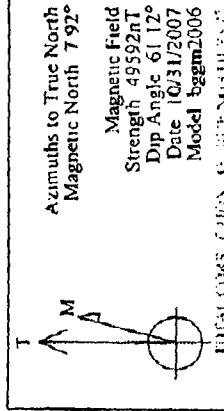
Name	TVD	+N/-S	+E/-W	North	East	Shape
PBHL	8535.00	517.64	-1931.85	4178183.34	694468.21	Point

FIELD DETAILS

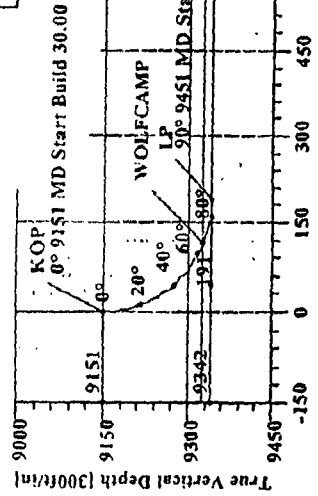
Lea Co., NM (NAD 83)
Geodetic System
GRS 1980
Ellipsoid
Zone New Mexico, Eastern Zone
Magnetic Model bggm2006
System Datum Mean Sea Level
Local North True North

SITE DETAILS

HURON 13 FEE #4
430' FNL 1750' FWL of SEC 13 T-15-S R-37-E
Site Centre Northing 738078.00
East 902022.50
Ground Level 3779.00
Positional Uncertainty 0.00
Convergence 0.64

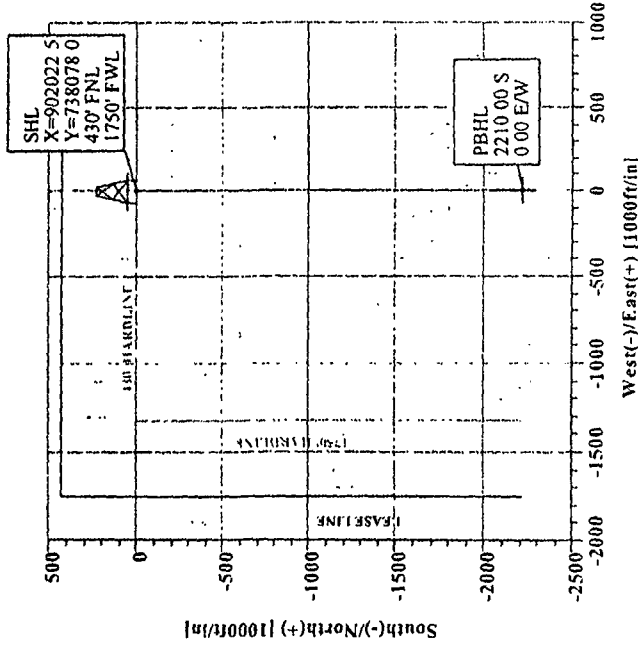


KB ELEV 3802'
GL ELEV 3779'



FORMATION TOP DETAILS

No.	TVD Path	MD Path	Formation
1	2123.00	2123.00	RUSTLER
2	3142.00	3142.00	YATES
3	3325.00	3325.00	SEVEN RIVERS
4	3512.00	3512.00	GREEN
5	3725.00	3725.00	GRANBURG
6	4113.80	4113.80	SAN ANDRES
7	6671.00	6671.00	GLORIA
8	6905.00	6905.00	GLORIA
9	7465.00	7465.00	TUBB
10	7733.00	7733.00	DRINKARD
11	8142.00	8142.00	ARO
12	9326.00	9326.00	WOLF CAMP



Vertical Section at 180.00° [300ft/in]

Plan Plan #1 (441)

Created By Lindsey Madden

Date 11/12/2007



Weatherford International, Inc.

Proposal Plan Report

**Weatherford**

Company: Cimarex		Date: 11/1/2007	Time: 16:26:46	Page: 1						
Field: Lea Co., NM (NAD 83)		Co-ordinate(NE) Reference: SITE: HURON 13 FEE #4, True North								
Site: HURON 13 FEE #4		Vertical (TVD) Reference: SITE: 3802.0'								
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: 11/1/2007								
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: HURON 13 FEE #4										
430' FNL 1750' FWL of SEC 13 T-15-S R-37-E										
Site Position:	Northings: 738078.00 ft	Latitude: 33 1 24.317 N								
From: Map	Easting: 902022.50 ft	Longitude: 103 9 23.651 W								
Position Uncertainty: 0.00 ft		North Reference: True								
Ground Level: 3779.00 ft		Grid Convergence: 0.64 deg								
Well: #4										
Slot Name:										
Well Position:	+N/-S 0.00 ft	Northings: 738078.00 ft	Latitude: 33 1 24.317 N							
	+E/-W 0.00 ft	Easting: 902022.50 ft	Longitude: 103 9 23.651 W							
Position Uncertainty: 0.00 ft										
Wellpath: 1										
Current Datum: SITE		Height: 3802.00 ft	Drilled From: Surface							
Magnetic Data: 10/31/2007			Tie-on Depth: 0.00 ft							
Field Strength: 49592 nT			Above System Datum: Mean Sea Level							
Vertical Section: Depth From (TVD)		+N/-S ft	Declination: 7.92 deg							
		+E/-W ft	Mag Dip Angle: 61.12 deg							
			Direction 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	
9151.01	0.00	180.00	9151.01	0.00	0.00	0.00	0.00	0.00	0.00	
9451.01	90.00	180.00	9342.00	-190.99	0.00	30.00	30.00	0.00	180.00	
11470.03	90.00	180.00	9342.00	-2210.00	0.00	0.00	0.00	0.00	0.00	PBHL
Survey										
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	Build	Turn	DLS	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
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
9160.00	2.70	180.00	9160.00	-0.21	0.00	0.21	30.00	0.00	30.00	
9170.00	5.70	180.00	9169.97	-0.94	0.00	0.94	30.00	0.00	30.00	
9180.00	8.70	180.00	9179.89	-2.20	0.00	2.20	30.00	0.00	30.00	
9190.00	11.70	180.00	9189.73	-3.97	0.00	3.97	30.00	0.00	30.00	
9200.00	14.70	180.00	9199.46	-6.25	0.00	6.25	30.00	0.00	30.00	
9210.00	17.70	180.00	9209.07	-9.04	0.00	9.04	30.00	0.00	30.00	
9220.00	20.70	180.00	9218.51	-12.32	0.00	12.32	30.00	0.00	30.00	
9230.00	23.70	180.00	9227.77	-16.10	0.00	16.10	30.00	0.00	30.00	
9240.00	26.70	180.00	9236.82	-20.36	0.00	20.36	30.00	0.00	30.00	
9250.00	29.70	180.00	9245.63	-25.08	0.00	25.08	30.00	0.00	30.00	
9260.00	32.70	180.00	9254.18	-30.26	0.00	30.26	30.00	0.00	30.00	
9270.00	35.70	180.00	9262.45	-35.88	0.00	35.88	30.00	0.00	30.00	
9280.00	38.70	180.00	9270.42	-41.93	0.00	41.93	30.00	0.00	30.00	
9290.00	41.70	180.00	9278.05	-48.38	0.00	48.38	30.00	0.00	30.00	
9300.00	44.70	180.00	9285.34	-55.22	0.00	55.22	30.00	0.00	30.00	



Weatherford International, Inc.

Proposal Plan Report

**Weatherford**

Company: Cimarex
Field: Lea Co., NM (NAD 83)
Site: HURON-13 FEE #4
Well: #4
Wellpath: 1

Date: 11/1/2007 Time: 16:26:46 Page: 2
Co-ordinate(NE) Reference: Site HURON-13 FEE #4 True North
Vertical (TVD) Reference: SITE 3802.0
Section (VS) Reference: Well (0.00N, 0.00E, 180.00Azi)
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	47.70	180.00	9292.26	-62.44	0.00	62.44	30.00	0.00	30.00	
9320.00	50.70	180.00	9298.80	-70.01	0.00	70.01	30.00	0.00	30.00	
9330.00	53.70	180.00	9304.93	-77.91	0.00	77.91	30.00	0.00	30.00	
9340.00	56.70	180.00	9310.63	-86.12	0.00	86.12	30.00	0.00	30.00	
9350.00	59.70	180.00	9315.90	-94.62	0.00	94.62	30.00	0.00	30.00	
9360.00	62.70	180.00	9320.72	-103.38	0.00	103.38	30.00	0.00	30.00	
9370.00	65.70	180.00	9325.07	-112.38	0.00	112.38	30.00	0.00	30.00	
9372.28	66.38	180.00	9326.00	-114.46	0.00	114.46	30.00	0.00	30.00	WOLFCAMP
9380.00	68.70	180.00	9328.95	-121.60	0.00	121.60	30.00	0.00	30.00	
9390.00	71.70	180.00	9332.34	-131.00	0.00	131.00	30.00	0.00	30.00	
9400.00	74.70	180.00	9335.23	-140.58	0.00	140.58	30.00	0.00	30.00	
9410.00	77.70	180.00	9337.61	-150.29	0.00	150.29	30.00	0.00	30.00	
9420.00	80.70	180.00	9339.49	-160.11	0.00	160.11	30.00	0.00	30.00	
9430.00	83.70	180.00	9340.85	-170.01	0.00	170.01	30.00	0.00	30.00	
9440.00	86.70	180.00	9341.68	-179.98	0.00	179.98	30.00	0.00	30.00	
9450.00	89.70	180.00	9342.00	-189.97	0.00	189.97	30.00	0.00	30.00	
9451.01	90.00	180.00	9342.00	-190.99	0.00	190.99	30.00	0.00	30.00	LP
9500.00	90.00	180.00	9342.00	-239.97	0.00	239.97	0.00	0.00	0.00	
9600.00	90.00	180.00	9342.00	-339.97	0.00	339.97	0.00	0.00	0.00	
9700.00	90.00	180.00	9342.00	-439.97	0.00	439.97	0.00	0.00	0.00	
9800.00	90.00	180.00	9342.00	-539.97	0.00	539.97	0.00	0.00	0.00	
9900.00	90.00	180.00	9342.00	-639.97	0.00	639.97	0.00	0.00	0.00	
10000.00	90.00	180.00	9342.00	-739.97	0.00	739.97	0.00	0.00	0.00	
10100.00	90.00	180.00	9342.00	-839.97	0.00	839.97	0.00	0.00	0.00	
10200.00	90.00	180.00	9342.00	-939.97	0.00	939.97	0.00	0.00	0.00	
10300.00	90.00	180.00	9342.00	-1039.97	0.00	1039.97	0.00	0.00	0.00	
10400.00	90.00	180.00	9342.00	-1139.97	0.00	1139.97	0.00	0.00	0.00	
10500.00	90.00	180.00	9342.00	-1239.97	0.00	1239.97	0.00	0.00	0.00	
10600.00	90.00	180.00	9342.00	-1339.97	0.00	1339.97	0.00	0.00	0.00	
10700.00	90.00	180.00	9342.00	-1439.97	0.00	1439.97	0.00	0.00	0.00	
10800.00	90.00	180.00	9342.00	-1539.97	0.00	1539.97	0.00	0.00	0.00	
10900.00	90.00	180.00	9342.00	-1639.97	0.00	1639.97	0.00	0.00	0.00	
11000.00	90.00	180.00	9342.00	-1739.97	0.00	1739.97	0.00	0.00	0.00	
11100.00	90.00	180.00	9342.00	-1839.97	0.00	1839.97	0.00	0.00	0.00	
11200.00	90.00	180.00	9342.00	-1939.97	0.00	1939.97	0.00	0.00	0.00	
11300.00	90.00	180.00	9342.00	-2039.97	0.00	2039.97	0.00	0.00	0.00	
11400.00	90.00	180.00	9342.00	-2139.97	0.00	2139.97	0.00	0.00	0.00	
11470.03	90.00	180.00	9342.00	-2210.00	0.00	2210.00	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		9342.00	-2210.00	0.00	735868 14	902047.24	33 1 2 453 N	103 9 23 650 W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2123.00	2123.00	RUSTLER		0.00	0.00
3142.00	3142.00	YATES		0.00	0.00
3320.00	3320.00	SEVEN RIVERS		0.00	0.00
3932.00	3932.00	QUEEN		0.00	0.00



Weatherford International, Inc.
Proposal Plan Report



Weatherford

Company: Cimarex	Date: 11/1/2007	Time: 16:26:46	Page: 3
Field: Lea Co, NM (NAD 83)	Co-ordinate(NE) Reference:	Site: HURON 13 FEE #4	True North
Site: HURON 13 FEE #4	Vertical (TVD) Reference:	SITE-3802.0	
Well: #4	Section (VS) Reference:	Well: (0.00N, 0.00E, 180.00Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Formations

MD	TVD	Formations	Lithology	Dip Angle deg	Dip Direction deg
4272.00	4272.00	GRAYBURG		0.00	0.00
4413.00	4413.00	SAN ANDRES		0.00	0.00
6671.00	6671.00	GLORIETA		0.00	0.00
6905.00	6905.00	BLINEBRY		0.00	0.00
7466.00	7466.00	TUBB		0.00	0.00
7733.00	7733.00	DRINKARD		0.00	0.00
8142.00	8142.00	ABO		0.00	0.00
9372.28	9326.00	WOLFCAMP		0.00	0.00
	0.00	WOLFCAMP B		0.00	0.00

Annotation

MD	TVD	
9151.01	9151.01	KOP
9451.01	9342.00	LP
11470.02	9342.00	PBHL

Casing Points

MD	TVD	Diameter	Hole Size	Name