

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

APPLICATION OF DEVON ENERGY PRODUCTION
COMPANY, L.P. FOR APPROVAL OF A NON-STANDARD
OIL SPACING AND PRORATION UNIT AND
COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

Case No. 14,458

AFFIDAVIT OF

COUNTY OF OKLAHOMA)
) ss.
STATE OF OKLAHOMA)

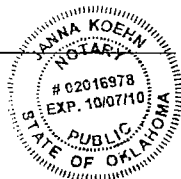
Jeff Kelley, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Devon Energy Production Company, L.P. ("Devon").
3. Exhibit A is a structure map on top of the Wolfcamp formation. The formation dips gently to the southeast. Exhibit A also contains production data from existing wells in the area.
4. Exhibit B is a cross section which shows the productive interval and stratigraphic target for horizontal Wolfcamp wells in this area.
5. Attached as Exhibit C is the horizontal drilling plan for the subject well. A horizontal wellbore will test a greater reservoir length, increasing the chances for an economic completion.
6. All four quarter-quarter sections in the well unit are prospective in the Wolfcamp formation, and Devon anticipates producing reserves from each quarter-quarter section.

[Signature]

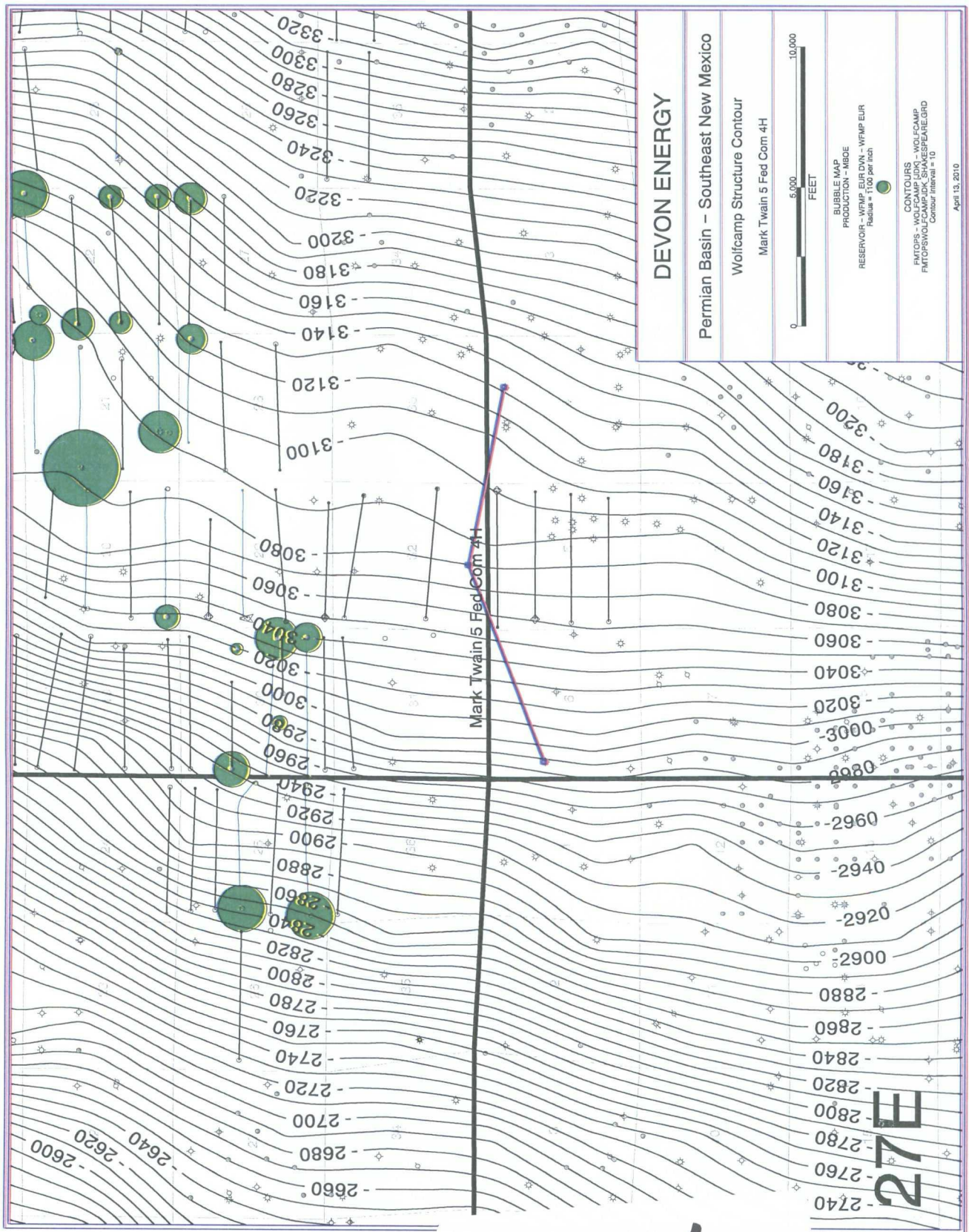
SUBSCRIBED AND SWORN TO before me this 13 day of April, 2010 by
Jeff Kelley

My Commission Expires: _____



Janna Koehn
Notary Public

Oil Conservation Division
Case No. _____
Exhibit No. 20



EXHIBIT

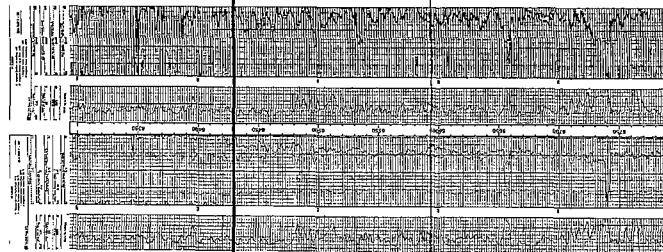
A

A'

Northwest Eddy

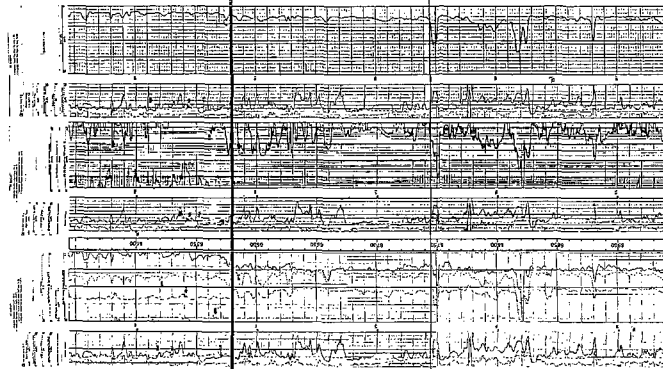
A

Logan Draw 6, Fed. 1
T17S R28E S6



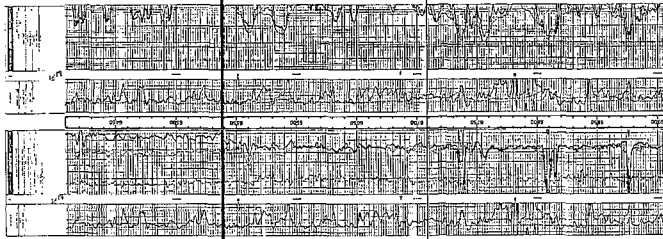
<7,447FT>

Crow Arm St. Corn. 1
T16S R28E S32



<6,433FT>

Amtrack St. Corn. 2
T17S R28E S4

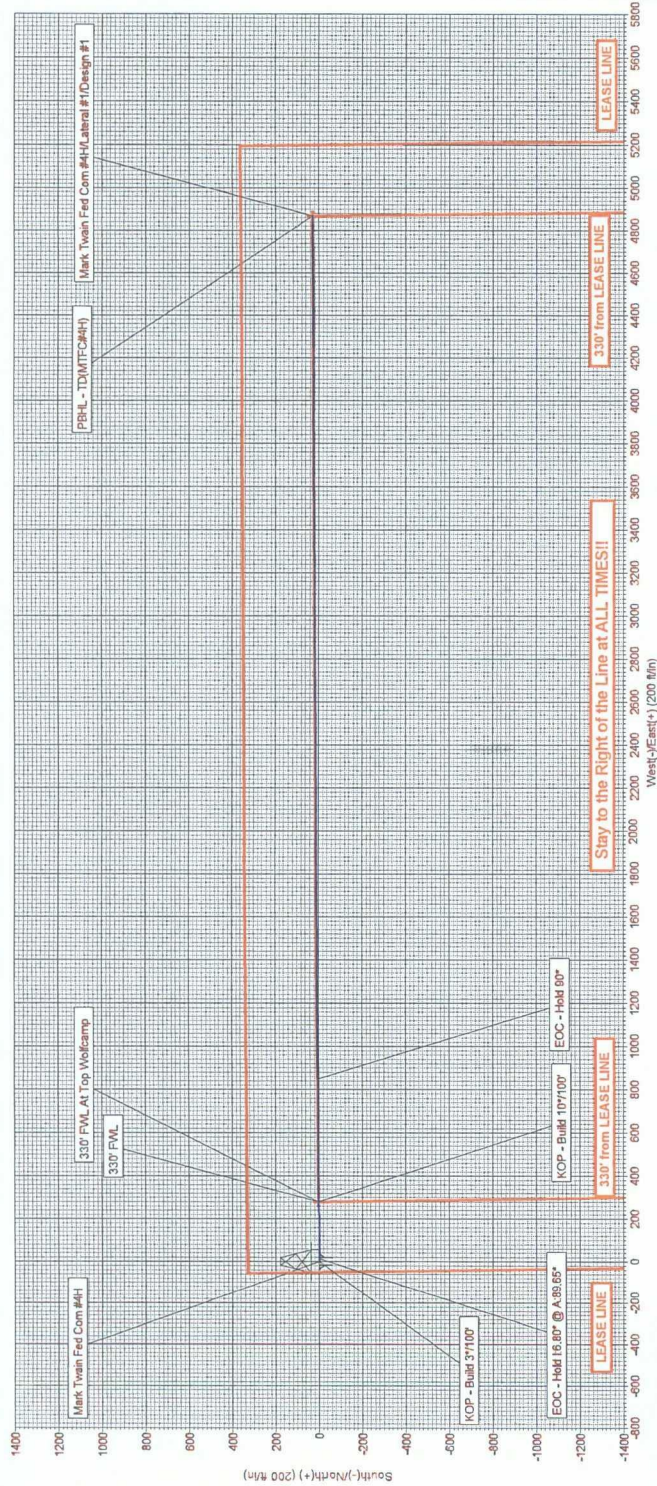


Rel
Depth(ft)
-300
-250
-200
-150
-100
-50
0
50
100
150
200

EXHIBIT **B**



Project: Eddy Co., New Mexico (Nad 83)
Site: Mark Twain Fed Com #4H
Well: Mark Twain Fed Com #4H
Wellbore: Lateral #1
Design: Design #1



SECTION DETAILS											
Sec	MD	Inc	Asl	TVD	+N/S	+E/W	DLeg	VSpc	Target		
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	3688.38	0.00	0.00	3688.38	0.00	0.00	0.00	0.00	0.00		
3	3915.05	6.60	89.65	3914.52	0.08	13.43	3.00	69.65	13.43		
4	6166.37	0.60	89.65	6150.00	1.71	279.99	0.00	0.00	280.00		
5	6968.17	90.00	89.65	6655.00	5.22	848.78	10.00	0.00	848.79		
6	11016.25	90.00	89.65	6655.00	30.10	4668.87	0.00	0.00	4668.87		

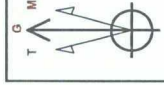
Plan: Design #1 (Mark Twain Fed Com #4H-Lateral #1)			
Created By:	Mike Stanley	Date:	14.06. April 13 2010
Checked:		Date:	
Reviewed:		Date:	
Approved:		Date:	

WELL DETAILS: Mark Twain Fed Com #4H			
Ground Level	3813.00		
WELL @ 3632.00ft (Original Well Elev)			
+N/S	0.00	+E/W	0.00
MD	680128.50	Latitude	32° 52' 10.666 N
Inc	90.00	Longitude	104° 12' 23.737 W

PROJECT DETAILS: Eddy Co., New Mexico (Nad 83)			
Geoid System:	US State Plane 1983		
Datum:	North American Datum 1983		
Ellipsoid:	GRS 1980		
Zone:	New Mexico Eastern Zone		
System Datum:	Mean Sea Level		

ANNOTATIONS			
TVD	MD	Annotation	
3688.38	3688.38	KOP - Build 37°100'	
3914.52	3915.05	EOC - Hold 18.80° @ A 89.65°	
6150.00	6166.37	KOP - Build 10°100'	
6655.00	6968.17	EOC - Hold 90°	

WELLBORE TARGET DETAILS (MAP COORDINATES AND LAT/LONG)											
Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape			
330' FWL	6150.00	1.71	279.99	680128.50	580529.96	32° 52' 10.666 N	104° 12' 20.654 W	Point			
330' FWL At Top Wellcamp	6205.00	1.71	279.99	680128.50	580529.96	32° 52' 10.666 N	104° 12' 20.654 W	Circle (Radius 1.00)			
PBIL - TDWTCM4H	6655.00	30.10	4668.87	680156.88	585118.74	32° 52' 10.869 N	104° 11' 26.449 W	Point			



Azimuths to Grid North
True North: -0.07°
Magnetic North: 7.59°
Strength: 4881.3mT
Magnetic Field
Dip Angle: 60.72°
Date: 04/13/2010
Model: IGRF200510

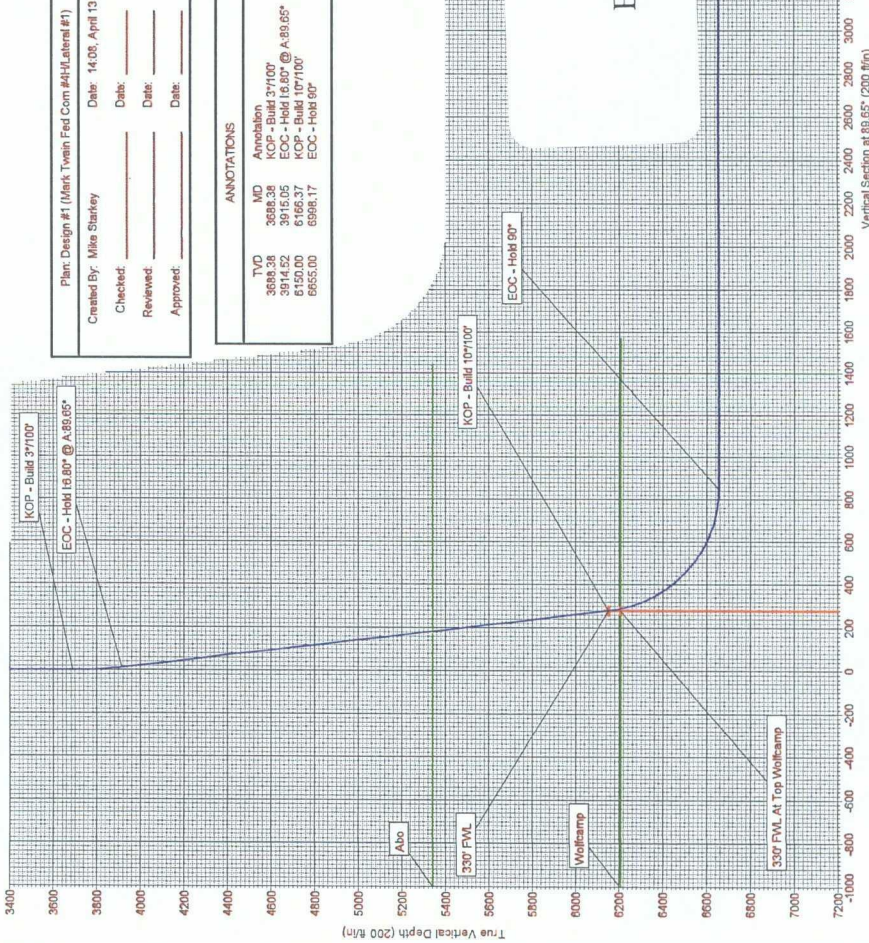


EXHIBIT C



Devon Energy

Eddy Co., New Mexico (Nad 83)

Mark Twain Fed Com #4H

Mark Twain Fed Com #4H

Lateral #1

Plan: Design #1

Standard Survey Report

13 April, 2010





CUDD Drilling & Measurement Services

Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Site Mark Twain Fed Com #4H
Project:	Eddy Co., New Mexico (Nad 83)	TVD Reference:	WELL @ 3632.00ft (Original Well Elev)
Site:	Mark Twain Fed Com #4H	MD Reference:	WELL @ 3632.00ft (Original Well Elev)
Well:	Mark Twain Fed Com #4H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 2003.21 Single User Db

Project	Eddy Co., New Mexico (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Mark Twain Fed Com #4H, Sec 5, T-17S, R-28E		
Site Position:		Northing:	680,126.79 ft
From:	Map	Easting:	580,249.97 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 52' 10.653 N
		Longitude:	104° 12' 23.737 W
		Grid Convergence:	0.07 °

Well	Mark Twain Fed Com #4H		
Well Position	+N/-S	0.00 ft	Northing: 680,126.79 ft
	+E/-W	0.00 ft	Easting: 580,249.97 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	3,632.00 ft
		Ground Level:	3,613.00 ft

Wellbore	Lateral #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	04/13/10	8.06
			Dip Angle (°)
			60.72
			Field Strength (nT)
			49,081

Design	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°)
			89.65

Survey Tool Program	Date	04/13/10		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	4,300.00	Design #1 (Lateral #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
4,300.00	11,018.25	Design #1 (Lateral #1)	CUDD MWD	MWD - Standard CUDD MWD

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40.00	0.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00
20" Casing									
370.00	0.00	0.00	370.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8" Casing									
575.00	0.00	0.00	575.00	0.00	0.00	0.00	0.00	0.00	0.00
Seven Rivers									
1,079.00	0.00	0.00	1,079.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen									



CUDD Drilling & Measurement Services
Survey Report



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Project:	Eddy Co., New Mexico (Nad 83)	TVD Reference:	WELL @ 3632.00ft (Original Well Elev)
Site:	Mark Twain Fed Com #4H	MD Reference:	WELL @ 3632.00ft (Original Well Elev)
Well:	Mark Twain Fed Com #4H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 2003.21 Single User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,894.00	0.00	0.00	1,894.00	0.00	0.00	0.00	0.00	0.00	0.00
San Andres									
1,950.00	0.00	0.00	1,950.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Casing									
3,284.00	0.00	0.00	3,284.00	0.00	0.00	0.00	0.00	0.00	0.00
Glorieta									
3,688.38	0.00	0.00	3,688.38	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 3°/100'									
3,915.05	6.80	89.65	3,914.52	0.08	13.43	13.43	3.00	3.00	0.00
EOC - Hold 1:6.80° @ A:89.65°									
5,349.62	6.80	89.65	5,339.00	1.12	183.29	183.29	0.00	0.00	0.00
Abo									
6,166.37	6.80	89.65	6,150.00	1.71	279.99	280.00	0.00	0.00	0.00
KOP - Build 10°/100' - 330° FWL									
6,222.17	12.38	89.65	6,205.00	1.77	289.29	289.29	10.00	10.00	0.00
Wolfcamp									
6,998.17	90.00	89.65	6,655.00	5.22	848.77	848.79	10.00	10.00	0.00
EOC - Hold 90°									
11,018.25	90.00	89.65	6,655.00	30.10	4,868.78	4,868.87	0.00	0.00	0.00
PBHL - TD(MTFC#4H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
330' FWL	0.00	0.00	6,150.00	1.71	279.99	680,128.50	580,529.96	32° 52' 10.666 N	104° 12' 20.454 W
- plan hits target center									
- Point									
PBHL - TD(MTFC#4H)	0.00	0.00	6,655.00	30.10	4,868.78	680,156.88	585,118.74	32° 52' 10.889 N	104° 11' 26.649 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
40.00	40.00	20" Casing	20	26
450.00	450.00	13 3/8" Casing	13-3/8	17-1/2
1,950.00	1,950.00	9 5/8" Casing	9-5/8	12-1/4



CUDD Drilling & Measurement Services
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Site:	Mark Twain Fed Com #4H	MD Reference:	WELL @ 3632.00ft (Original Well Elev)
Well:	Mark Twain Fed Com #4H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 2003.21 Single User Db

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
370.00	370.00	Yates		0.00	
575.00	575.00	Seven Rivers		0.00	
1,079.00	1,079.00	Queen		0.00	
1,894.00	1,894.00	San Andres		0.00	
3,284.00	3,284.00	Glorieta		0.00	
5,349.62	5,339.00	Abo		0.00	
6,222.17	6,205.00	Wolfcamp		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
3,688.38	3,688.38	0.00	0.00	KOP - Build 3°/100'	
3,915.05	3,914.52	0.08	13.43	EOC - Hold 1:6.80° @ A:89.65°	
6,166.37	6,150.00	1.71	279.99	KOP - Build 10°/100'	
6,998.17	6,655.00	5.22	848.77	EOC - Hold 90°	

Checked By: _____ Approved By: _____ Date: _____