

Results of Directional Survey

API number:	30-025-40279		
OGRID:		Operator:	OCCIDENTAL PERMIAN LTD
		Property:	FECTA 33 FEDERAL # 1H

surface	ULSTR:	D	33	T 19S	R 33E
				330 FNL	990 FWL

BH Loc	ULSTR:	M	33	T 19S	R 33E
13632	MD	9418.5	TVD	323 FSL	673 FWL
				4957 FNL	

Top Perf/OH	ULSTR:	D	33	T 19S	R 33E
9705	MD	9354.9	TVD	1060 FNL	1096 FWL

Bot Perf/OH	ULSTR:	M	33	T 19S	R 33E
13501	MD	9423.0	TVD	454 FSL	686 FWL
				4826 FNL	

	MD	N/S	E/W	VD
	9678	-703.95	103.78	9348.25
TOP PERFS/OH	9705	-730.04	105.77	9354.90
	9709	-733.91	106.07	9355.88
	13430	-4425.77	-297.30	9425.36
BOT PERFS/OH	13501	-4496.41	-304.08	9422.97
	13524	-4519.29	-306.28	9422.20

NEXT TO LAST	13572	-4567.04	-310.87	9420.62
LAST READING	13632	-4626.73	-316.61	9418.45
TD	13632	-4626.73	-316.61	9418.45

Surface Location	330	FN	990	FW
Projected BHL	4957	FN	673	FW
Location of				
Top Perfs/OH	1060	FN	1096	FW
Bottom Perfs/OH	4826	FN	686	FW

SUMMARY of Subsurface Locations

Surface Location	D-33-19S-33E	330	FN	990	FW	Vert. Depth
Top Perfs/OH	D-33-19S-33E	1060	FN	1096	FW	9354.90
Bottom Perfs/OH	M-33-19S-33E	4826	FN	686	FW	9422.97
Projected TD	M-33-19S-33E	4957	FN	673	FW	9418.45

MAY 17 2012

HOBBS OCD

MAY 09 2012

RECEIVED

OCCIDENTAL PERMIAN LTD.

Lusk Bone Spring

Lea County, NM

Fecta "33" Federal #1H

VH - Job #32K0212121

SUR: D-33-19s-33e, 330/N & 990/W
BHL: M-33-19s-33e, 4957/N & 673/W
API # 30-025-40279

Survey: Gyro

SDI Standard Survey Report

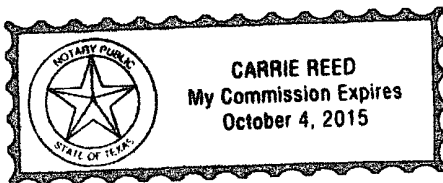
This survey is correct to the best of my knowledge and is supported by actual field data.

R. Wharton

Notarized this date 14th of March, 2012.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate Reference:	Well: Fecta "33" Federal #1H
Project:	Lusk Bone Spring	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Fecta "33" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0212121	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0212121	Database:	EDM-Regulatory

Project:	Lusk Bone Spring		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Lea County, NM			
Site Position:		Northing:	590,853.87 usft	Latitude:	32° 37' 23.247 N
From:	Lat/Long	Easting:	671,588.95 usft	Longitude:	103° 46' 33.646 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.30 °

Well	Fecta "33" Federal #1H, Directional (Unknown)					
Well Position	+N/-S	0 0 usft	Northing:	590,853 87 usft	Latitude:	32° 37' 23.247 N
	+E/-W	0 0 usft	Easting:	671,588 95 usft	Longitude:	103° 46' 33.646 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore: VH - Job #32K0212121					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/4/2012	7.63	60.51	48,796

Design: VH - Job #32K0212121				
Audit Notes:				
Version: 1 0		Phase: ACTUAL		Tie On Depth: 0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	71.23

Survey Program		Date	3/13/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
74.0	910.4	Gyro (VH - Job #32K0212121)	Keeper	Keeper Surface Readout	

Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
74.0	0.36	63.47	74.0	0.1	0.2	63.47	0.2
166.6	1.01	73.49	166.6	0.5	1.3	69.58	1.3
259.5	1.40	77.23	259.5	0.9	3.1	73.19	3.3
353.5	1.43	84.90	353.5	1.3	5.4	76.47	5.6
444.5	1.33	86.13	444.4	1.5	7.6	79.00	7.8
536.4	1.52	81.96	536.3	1.7	9.9	80.12	10.0
628.2	1.59	73.74	628.1	2.2	12.3	79.65	12.5
721.0	2.05	67.32	720.8	3.2	15.1	77.84	15.4
815.8	3.34	62.09	815.5	5.2	19.1	74.77	19.8
910.4	3.95	57.28	910.0	8.2	24.3	71.23	25.6



Scientific Drilling
Directional Drilling Operations

Project: Lusk Bone Spring
Lea County, NM
Well: Fecta "33" Federal #1H
Wellbore: VH - Job #32K0212121
Design: VH - Job #32K0212121

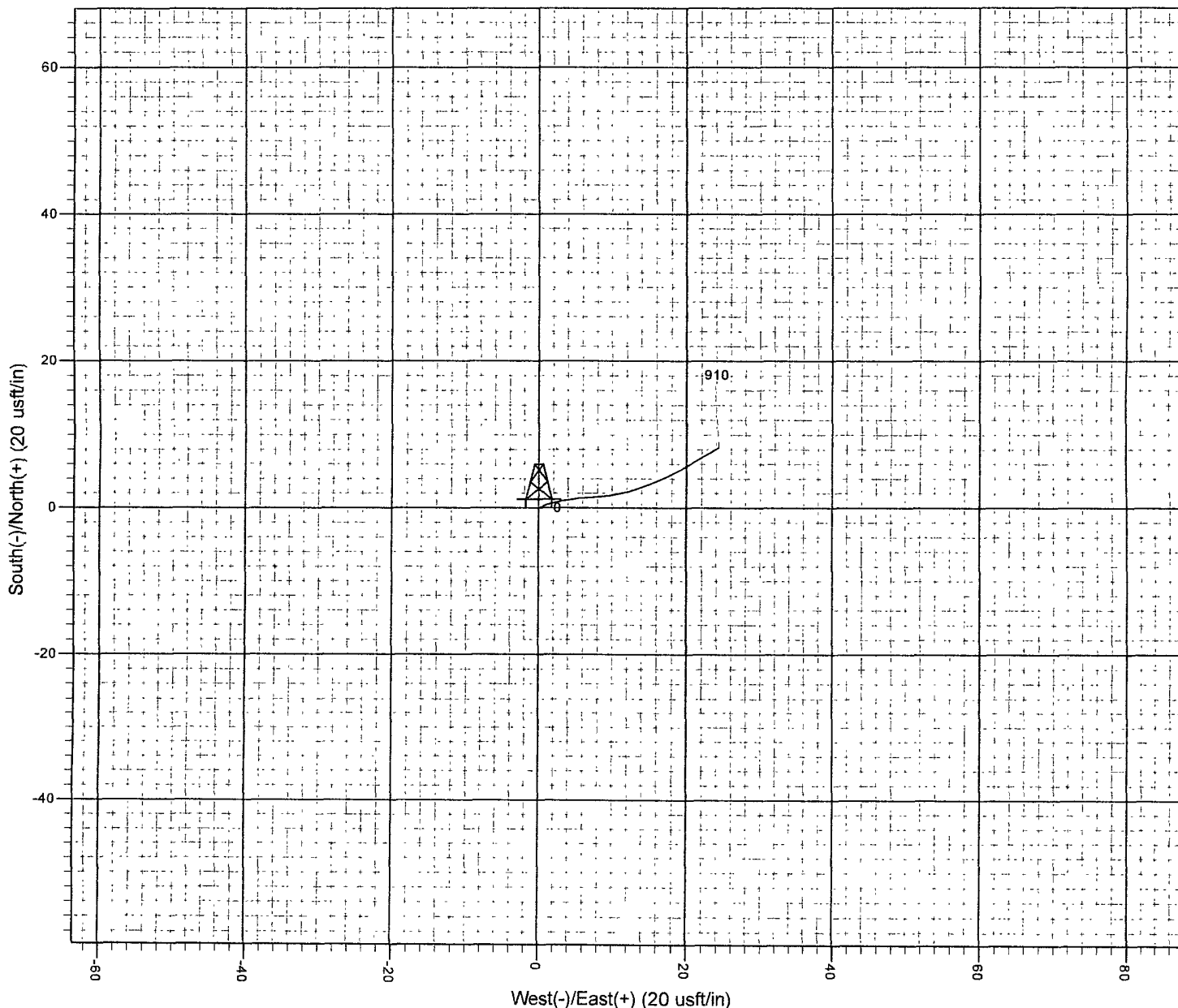


Azimuths to Grid North
True North -0° 30'
Magnetic North 7.33°

Magnetic Field
Strength: 48796.2snT
Dip Angle: 60.51°
Date: 2/4/2012
Model: IGRF2010

WELL DETAILS: Fecta "33" Federal #1H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	590853.87	671588.95	32° 37' 23.247 N	103° 46' 33.646 W	



PROJECT DETAILS: Lusk Bone Spring
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Lea County, NM
Site Centre Latitude: 32° 37' 23.247 N
Longitude: 103° 46' 33.646 W
Positional Uncertainty: 0.0
Convergence: 0.30
Local North: Grid

OCCIDENTAL PERMIAN LTD.

Lusk Bone Spring

Lea County, NM

Fecta "33" Federal #1H

VH - Job #32K0212182

SUR: D-33-19s-33e, 330/N & 990/W
BHL: M-33-19s-33e, 4957/N & 673/W
API # 30-025-40279

Survey: Gyro

SDI Standard Survey Report

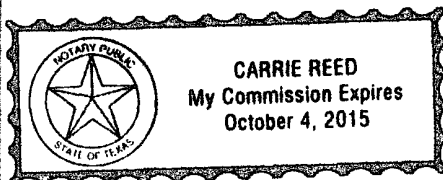
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 14th of March, 2012.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling
Directional Drilling Operations

Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Fecta "33" Federal #1H
Project:	Lusk Bone Spring	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Fecta "33" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0212182	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0212182	Database:	EDM-Regulatory

Project:	Lusk Bone Spring	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Lea County, NM		
Site Position:		Northing:	590,853.87 usft
From:	Lat/Long	Easting:	671,588.95 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Grid Convergence:	0.30 °

Well:	Fecta "33" Federal #1H Directional (Unknown)		
Well Position	+N-S	0.0 usft	Northing: 590,853.87 usft
	+E-W	0.0 usft	Easting: 671,588.95 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Ground Level:	0.0 usft

Wellbore		VH - Job #32K0212182			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/17/2012	7 63	60 50	48,793

Design: VH - Job #32K0212182				
Audit Notes:				
Version: 1.0		Phase: ACTUAL		Tie On Depth: 3,308.0
Vertical Section	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	58.47

Survey Program	Date	3/13/2012		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
74.0	910.4	Gyro (VH - Job #32K0212121)	Keeper	Keeper Surface Readout
3,308.0	4,057.0	Gyro (VH - Job #32K0212182)	Keeper	Keeper Surface Readout

Survey								
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance	
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)	
3,308.0	0.40	289.54	3,306.9	7.2	39.7	79.68	40.4	
3,324.1	0.38	261.62	3,323.0	7.3	39.6	79.63	40.3	
3,349.9	0.44	276.37	3,348.9	7.2	39.5	79.59	40.1	
3,374.6	0.41	264.74	3,373.6	7.3	39.3	79.54	39.9	
3,399.7	0.42	254.59	3,398.6	7.2	39.1	79.54	39.8	
3,400.0	0.42	254.32	3,398.9	7.2	39.1	79.54	39.8	
3,500.0	0.40	176.99	3,498.9	6.8	38.8	80.09	39.4	
3,600.0	0.40	203.38	3,598.9	6.1	38.6	81.03	39.1	
3,700.0	1.03	205.95	3,698.9	5.0	38.1	82.57	38.4	
3,800.0	1.20	224.33	3,798.9	3.4	37.0	84.72	37.1	
3,900.0	0.87	227.58	3,898.9	2.2	35.7	86.54	35.8	

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Fecta "33" Federal #1H
Project:	Lusk Bone Spring	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Fecta "33" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0212182	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0212182	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
4,000.0	1 20	232 94	3,998 9	1 0	34 3	88 31	34 3	
4,057.0	1 15	233.25	4,055.9	0 3	33 4	89 47	33 4	



Scientific Drilling
Directional Drilling Operations

Project: Lusk Bone Spring
Lea County, NM
Well: Fecta "33" Federal #1H
Wellbore: VH - Job #32K0212182
Design: VH - Job #32K0212182



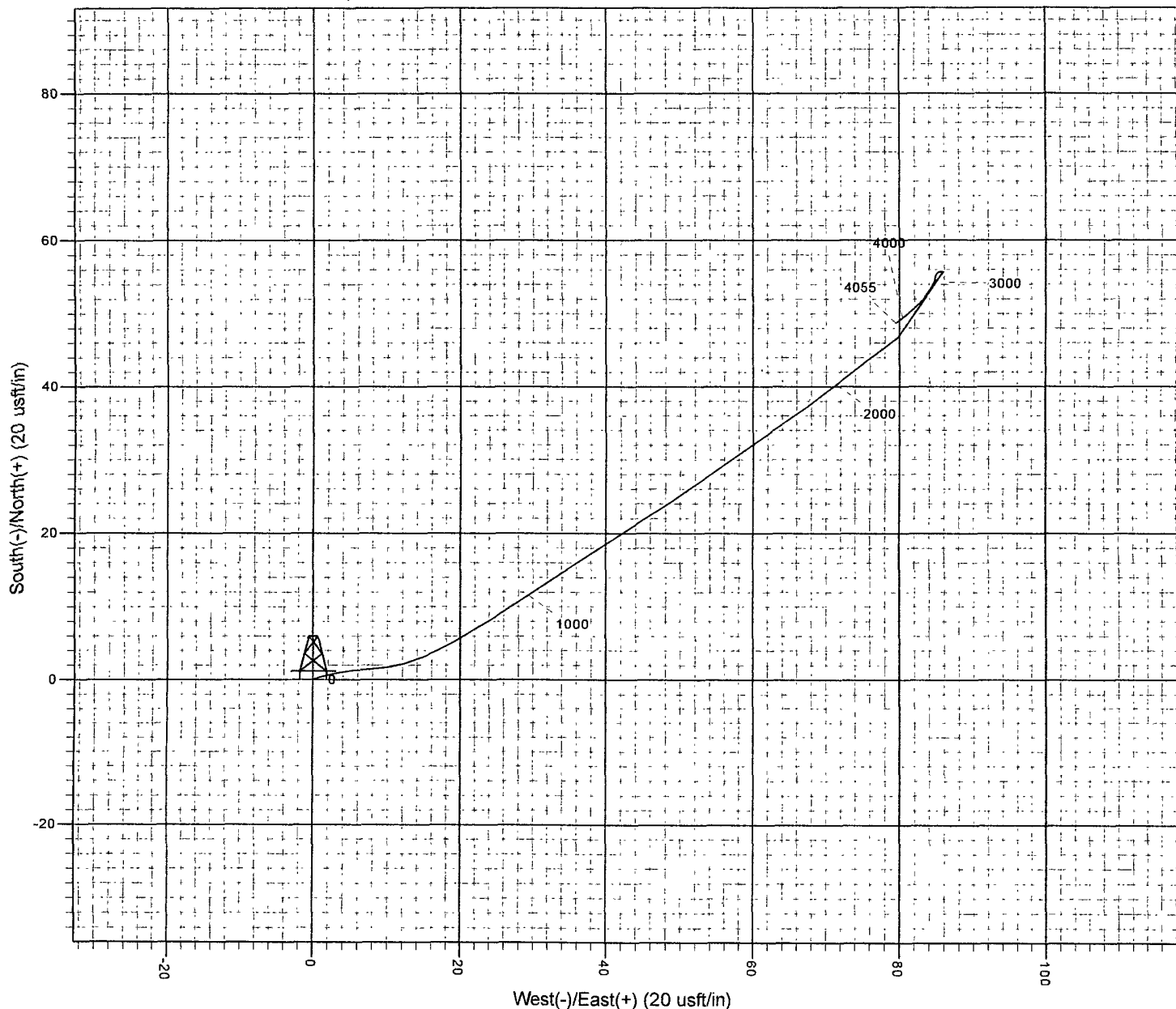
Azimuths to Gnd North
True North: -0 30°
Magnetic North: 7.33°

Magnetic Field
Strength: 48792.7 nT
Dip Angle: 60 50°
Date: 2/17/2012
Model: IGRF2010

WELL DETAILS: Fecta "33" Federal #1H
WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	590853.87	671588.95	32° 37' 23.247 N	103° 46' 33.646 W	



PROJECT DETAILS: Lusk Bone Spring
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Lea County, NM
Site Centre Latitude: 32° 37' 23.247 N
Longitude: 103° 46' 33.646 W
Positional Uncertainty: 0.0
Convergence: 0.30
Local North: Grid



Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: March 12, 2012

Attention: Juan Ramirez

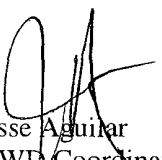
Re: Occidental Permian Ltd
Well: Fecta 33 Fed Com #1H
Lea County, New Mexico

SUR: D-33-19s-33e, 330/N & 990/W
BHL: M-33-19s-33e, 4957/N & 673/W
API # 30-025-40279

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

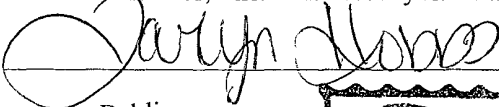
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Ben Hernandez MWD Supervisor	1H Top Part	1036' MD 3308' MD	2/5/2012 2/9/2012	Measurement While Drilling
Ben Hernandez MWD Supervisor	1H Btm Part	4185' MD 13572' MD	2/17/2012 3/9/2012	Measurement While Drilling

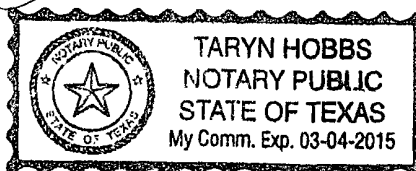
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jesse Aguilar
MWD Coordinator

On this, the 14th day of March, 2012, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public





Weatherford International Ltd.

WFT Survey Report X & Y's


Weatherford

Company: Occidental Permian Ltd. Date: 3/9/2012 Time: 05:10:10 Page: 1
 Field: Lea Co. New Mexico (Nad 27) Co-ordinate(NE) Reference: Well 1H Grid North
 Site: Fecta 33 Federal COM 1H Vertical (TVD) Reference: SITE 3578.8
 Well: 1H Section (VS) Reference: Well (0.00N,0.00E,183.99Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy #2

Start Date:

2/20/2012

 Company: Weatherford International Ltd.
 Tool: MWD,MWD - Standard

 Engineer:
 Tied-to:

 Russell W Joyner
 User Defined

Field: Lea Co, New Mexico (Nad 27)

 Map System:US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

 Map Zone: New Mexico, Eastern Zone
 Coordinate System: Well Centre
 Geomagnetic Model: IGRF2010

Site: Fecta 33 Federal COM 1H

 Site Position:
 From: Map
 Position Uncertainty: 0 00 ft
 Ground Level: 3554.80 ft

 Northing: 590853 90 ft
 Easting: 671588.90 ft

 Latitude: 32 37 23 247 N
 Longitude: 103 46 33.647 W
 North Reference: Grid
 Grid Convergence: 0.30 deg

Well: 1H

Slot Name:

 Well Position: +N/-S 0 00 ft
 +E/-W 0.00 ft
 Position Uncertainty: 0.00 ft

 Northing: 590853 90 ft
 Easting: 671588.90 ft

 Latitude: 32 37 23.247 N
 Longitude: 103 46 33.647 W

Wellpath: 1

 Current Datum: SITE
 Magnetic Data: 2/10/2012
 Field Strength: 48794 nT
 Vertical Section: Depth From (TVD)

Height 3578.80 ft

 Drilled From: Surface
 Tie-on Depth: 0.00 ft
 Above System Datum: Mean Sea Level
 Declination: 7.63 deg
 Mag Dip Angle: 60 51 deg
 +E/-W Direction
 ft deg

0 00 0 00 0 00 183 99

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
910 45	3 95	57.28	909.96	8.25	24 27	0 00	-9 92	590862 15	671613.17	Tie On SDI
1036.00	3 46	58 47	1035 25	12.57	31 13	0 40	-14 71	590866 47	671620.03	First Wft Svy
3308.00	0 40	289 54	3306 93	7.24	39.77	0 16	-10.00	590861.14	671628.67	SDI Tie To Last
4057 00	1 15	233 25	4055 86	0 31	33 36	0 13	-2.64	590854.21	671622.26	Tie On SDI
4165 00	1 66	239 27	4163 82	-1 13	31 15	0 49	-1 04	590852 77	671620.05	Csg
4185 00	1 75	240.00	4183 81	-1 43	30.64	0 49	-0 71	590852.47	671619 54	First Wft Svy
4217 00	1.73	239.75	4215 80	-1 92	29.80	0 07	-0 16	590851.98	671618.70	
4311 00	1 45	240 86	4309.76	-3 21	27 53	0 30	1 29	590850.69	671616.43	
4406.00	0.27	335.25	4404.75	-3.60	26.39	1 57	1 75	590850 30	671615.29	
4500.00	0 35	312 99	4498 75	-3.20	26 09	0 15	1.37	590850 70	671614.99	
4595 00	0 35	314 21	4593 75	-2 80	25.67	0 01	1 00	590851.10	671614 57	
4689 00	0 46	289.70	4687.75	-2.47	25.11	0 22	0.72	590851 43	671614.01	
4784 00	0 61	288 94	4782.74	-2.18	24 27	0 16	0.48	590851 72	671613.17	
4879.00	0 49	291 83	4877 74	-1 86	23.41	0 13	0.23	590852 04	671612.31	
4973 00	0 42	306 70	4971.74	-1 51	22 76	0 15	-0 08	590852.39	671611 66	
5068 00	0 54	305 36	5066 73	-1 04	22.12	0 13	-0 50	590852 86	671611 02	
5163.00	0 71	306 86	5161 73	-0 43	21 28	0 18	-1 06	590853 47	671610.18	
5257 00	0 60	303.85	5255.72	0 20	20 41	0 12	-1 62	590854.10	671609 31	
5352.00	0 64	306.80	5350.72	0 79	19 57	0 05	-2 15	590854 69	671608 47	
5446 00	0 77	315 43	5444 71	1 55	18.71	0 18	-2 85	590855 45	671607.61	
5541 00	0 71	310.40	5539.70	2 39	17 81	0 09	-3 63	590856.29	671606.71	
5635 00	0 67	312 70	5633 69	3 14	16 96	0 05	-4 31	590857 04	671605.86	
5730 00	0 60	312.37	5728.69	3 85	16 19	0 07	-4 97	590857 75	671605.09	
5824 00	0 67	317 19	5822.68	4.59	15 45	0 09	-5 65	590858.49	671604.35	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 3/9/2012	Time: 05:10:10	Page: 2
Field: Lea Co. New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: 1H, Grid North	
Site: Fecta 33/Federal COM 1H	Vertical (TVD) Reference:	SITE 3578.8	
Well: 1H	Section (VS) Reference:	Well (0.00N,0.00E;183.99Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
5919.00	0.67	327.56	5917.68	5.46	14.78	0.13	-6.48	590859.36	671603.68	
6013.00	0.38	33.20	6011.67	6.19	14.65	0.66	-7.19	590860.09	671603.55	
6108.00	0.64	79.05	6106.67	6.55	15.34	0.49	-7.61	590860.45	671604.24	
6202.00	0.62	80.47	6200.66	6.74	16.36	0.03	-7.86	590860.64	671605.26	
6297.00	0.60	79.88	6295.66	6.91	17.36	0.02	-8.10	590860.81	671606.26	
6391.00	0.60	77.71	6389.65	7.10	18.32	0.02	-8.36	590861.00	671607.22	
6486.00	0.60	87.51	6484.65	7.23	19.31	0.11	-8.56	590861.13	671608.21	
6581.00	0.60	77.05	6579.64	7.36	20.29	0.12	-8.76	590861.26	671609.19	
6675.00	0.58	74.94	6673.64	7.60	21.23	0.03	-9.06	590861.50	671610.13	
6770.00	0.52	83.77	6768.63	7.77	22.12	0.11	-9.29	590861.67	671611.02	
6864.00	0.46	73.97	6862.63	7.92	22.91	0.11	-9.49	590861.82	671611.81	
6959.00	0.52	67.85	6957.63	8.19	23.67	0.08	-9.81	590862.09	671612.57	
7053.00	0.53	73.31	7051.62	8.47	24.48	0.05	-10.16	590862.37	671613.38	
7148.00	0.82	110.08	7146.62	8.36	25.54	0.53	-10.12	590862.26	671614.44	
7243.00	0.67	108.36	7241.61	7.96	26.71	0.16	-9.80	590861.86	671615.61	
7337.00	0.75	98.66	7335.60	7.69	27.84	0.15	-9.61	590861.59	671616.74	
7432.00	0.97	109.45	7430.59	7.33	29.21	0.29	-9.35	590861.23	671618.11	
7526.00	1.21	113.46	7524.57	6.67	30.87	0.27	-8.80	590860.57	671619.77	
7621.00	1.10	96.27	7619.55	6.17	32.70	0.38	-8.43	590860.07	671621.60	
7716.00	1.14	92.59	7714.54	6.03	34.55	0.09	-8.42	590859.93	671623.45	
7810.00	0.98	76.70	7808.52	6.17	36.27	0.35	-8.68	590860.07	671625.17	
7905.00	0.95	105.74	7903.51	6.14	37.81	0.51	-8.76	590860.04	671626.71	
7999.00	1.29	94.68	7997.49	5.85	39.62	0.43	-8.59	590859.75	671628.52	
8094.00	0.95	105.40	8092.47	5.55	41.44	0.42	-8.42	590859.45	671630.34	
8188.00	0.47	77.25	8186.46	5.43	42.57	0.62	-8.38	590859.33	671631.47	
8283.00	0.62	108.91	8281.46	5.35	43.44	0.35	-8.36	590859.25	671632.34	
8378.00	0.49	143.06	8376.45	4.86	44.17	0.37	-7.92	590858.76	671633.07	
8426.00	0.50	138.24	8424.45	4.53	44.43	0.09	-7.62	590858.43	671633.33	
8457.00	0.53	164.44	8455.45	4.30	44.56	0.76	-7.39	590858.20	671633.46	
8490.00	3.42	202.41	8488.43	3.24	44.23	9.15	-6.31	590857.14	671633.13	
8511.00	5.16	198.85	8509.37	1.77	43.68	8.38	-4.80	590855.67	671632.58	
8542.00	7.26	199.22	8540.19	-1.40	42.59	6.78	-1.57	590852.50	671631.49	
8574.00	10.33	198.49	8571.81	-6.03	41.01	9.60	3.16	590847.87	671629.91	
8605.00	12.66	197.79	8602.18	-11.91	39.09	7.53	9.15	590841.99	671627.99	
8637.00	14.59	196.59	8633.28	-19.11	36.87	6.10	16.49	590834.79	671625.77	
8668.00	16.23	193.23	8663.17	-27.07	34.76	6.02	24.58	590826.83	671623.66	
8700.00	17.28	190.31	8693.81	-36.10	32.89	4.20	33.72	590817.80	671621.79	
8731.00	18.94	184.71	8723.27	-45.64	31.65	7.75	43.33	590808.26	671620.55	
8763.00	20.92	179.22	8753.36	-56.53	31.30	8.51	54.22	590797.37	671620.20	
8794.00	22.71	173.81	8782.14	-68.02	32.02	8.68	65.62	590785.88	671620.92	
8826.00	24.59	171.99	8811.45	-80.75	33.62	6.30	78.22	590773.15	671622.52	
8857.00	26.42	171.94	8839.43	-93.97	35.48	5.90	91.27	590759.93	671624.38	
8889.00	28.41	171.48	8867.83	-108.55	37.61	6.25	105.67	590745.35	671626.51	
8921.00	30.53	171.53	8895.69	-124.12	39.93	6.63	121.04	590729.78	671628.83	
8952.00	32.23	171.60	8922.16	-140.09	42.30	5.49	136.80	590713.81	671631.20	
8984.00	34.16	170.95	8948.93	-157.40	44.96	6.13	153.89	590696.50	671633.86	
9015.00	35.53	171.23	8974.37	-174.90	47.70	4.45	171.15	590679.00	671636.60	
9047.00	37.18	171.10	9000.14	-193.64	50.62	5.16	189.65	590660.26	671639.52	
9079.00	38.60	171.79	9025.40	-213.08	53.54	4.63	208.83	590640.82	671642.44	
9110.00	41.40	170.59	9049.14	-232.76	56.60	9.37	228.26	590621.14	671645.50	
9141.00	44.02	169.62	9071.92	-253.47	60.21	8.71	248.67	590600.43	671649.11	
9173.00	45.55	169.08	9094.63	-275.63	64.38	4.93	270.47	590578.27	671653.28	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company:	Occidental-Permian Ltd	Date:	3/9/2012	Time:	05:10:10	Page:	3
Field:	Lea Co. New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: 1H; Grid North				
Site:	Fecta 33 Federal COM 1H	Vertical (TVD) Reference:	SITE 3578.8				
Well:	1H	Section (VS) Reference:	Well (0.00N,0.00E,183.99Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
9205.00	47.00	170.04	9116.75	-298.37	68.57	5.02	292.87	590555.53	671657.47	
9236.00	48.32	171.31	9137.63	-320.98	72.28	5.22	315.17	590532.92	671661.18	
9268.00	49.72	172.59	9158.61	-344.90	75.66	5.32	338.79	590509.00	671664.56	
9298.00	51.78	174.14	9177.60	-367.97	78.34	7.95	361.62	590485.93	671667.24	
9331.00	54.28	174.52	9197.44	-394.21	80.94	7.63	387.61	590459.69	671669.84	
9362.00	56.10	175.13	9215.14	-419.55	83.24	6.09	412.74	590434.35	671672.14	
9394.00	58.10	176.01	9232.52	-446.34	85.31	6.66	439.32	590407.56	671674.21	
9425.00	59.52	176.49	9248.57	-472.80	87.04	4.77	465.59	590381.10	671675.94	
9457.00	61.33	176.61	9264.36	-500.58	88.72	5.67	493.19	590353.32	671677.62	
9488.00	62.82	176.40	9278.88	-527.92	90.39	4.84	520.34	590325.98	671679.29	
9520.00	64.91	176.13	9292.98	-556.59	92.26	6.58	548.81	590297.31	671681.16	
9551.00	66.48	175.67	9305.74	-584.76	94.28	5.24	576.78	590269.14	671683.18	
9583.00	68.53	175.60	9317.98	-614.24	96.53	6.41	606.03	590239.66	671685.43	
9615.00	70.34	174.95	9329.22	-644.10	99.00	5.97	635.64	590209.80	671687.90	
9646.00	72.29	175.53	9339.15	-673.36	101.43	6.54	664.66	590180.54	671690.33	
9678.00	74.67	175.69	9348.25	-703.95	103.78	7.45	695.01	590149.95	671692.68	
9709.00	76.82	175.56	9355.88	-733.91	106.07	6.95	724.74	590119.99	671694.97	
9741.00	79.00	175.40	9362.58	-765.10	108.54	6.83	755.68	590088.80	671697.44	
9772.00	81.34	175.64	9367.87	-795.55	110.93	7.59	785.89	590058.35	671699.83	
9804.00	82.96	176.23	9372.25	-827.17	113.17	5.38	817.28	590026.73	671702.07	
9835.00	83.94	176.99	9375.78	-857.91	114.99	3.99	847.82	589995.99	671703.89	
9867.00	84.56	177.82	9378.99	-889.72	116.43	3.23	879.45	589964.18	671705.33	
9898.00	85.06	179.25	9381.79	-920.58	117.22	4.87	910.18	589933.32	671706.12	
9930.00	85.07	180.42	9384.54	-952.46	117.32	3.64	941.97	589901.44	671706.22	
9961.00	85.35	182.06	9387.13	-983.34	116.65	5.35	972.83	589870.56	671705.55	
9993.00	85.98	183.58	9389.55	-1015.21	115.08	5.13	1004.73	589838.69	671703.98	
10024.00	87.45	184.75	9391.33	-1046.08	112.83	6.06	1035.68	589807.82	671701.73	
10056.00	88.57	185.84	9392.44	-1077.92	109.88	4.88	1067.65	589775.98	671698.78	
10087.00	88.64	186.22	9393.19	-1108.74	106.62	1.25	1098.62	589745.16	671695.52	
10119.00	88.78	186.38	9393.92	-1140.54	103.11	0.66	1130.59	589713.36	671692.01	
10214.00	89.41	186.32	9395.42	-1234.94	92.61	0.67	1225.49	589618.96	671681.51	
10308.00	89.48	186.41	9396.33	-1328.36	82.18	0.12	1319.41	589525.54	671671.08	
10403.00	90.10	186.07	9396.67	-1422.79	71.86	0.74	1414.33	589431.11	671660.76	
10497.00	90.88	186.22	9395.87	-1516.25	61.80	0.84	1508.26	589337.65	671650.70	
10592.00	89.82	186.45	9395.29	-1610.67	51.32	1.14	1603.18	589243.23	671640.22	
10686.00	91.01	186.59	9394.61	-1704.05	40.64	1.27	1697.09	589149.85	671629.54	
10781.00	89.96	187.13	9393.81	-1798.37	29.30	1.24	1791.96	589055.53	671618.20	
10875.00	88.64	187.73	9394.95	-1891.57	17.14	1.54	1885.78	588962.33	671606.04	
10970.00	89.27	187.78	9396.69	-1985.69	4.32	0.67	1980.56	588868.21	671593.22	
11064.00	89.34	187.22	9397.83	-2078.87	-7.94	0.60	2074.38	588775.03	671580.96	
11159.00	88.99	187.74	9399.21	-2173.06	-20.31	0.66	2169.19	588680.84	671568.59	
11253.00	89.68	188.83	9400.30	-2266.07	-33.85	1.37	2262.92	588587.83	671555.05	
11348.00	88.14	188.80	9402.11	-2359.92	-48.41	1.62	2357.56	588493.98	671540.49	
11443.00	88.36	188.28	9405.01	-2453.83	-62.51	0.59	2452.22	588400.07	671526.39	
11537.00	88.78	188.33	9407.36	-2546.81	-76.08	0.45	2545.93	588307.09	671512.82	
11632.00	87.72	188.85	9410.26	-2640.70	-90.27	1.24	2640.57	588213.20	671498.63	
11727.00	88.21	189.15	9413.63	-2734.47	-105.12	0.60	2735.15	588119.43	671483.78	
11821.00	88.29	188.44	9416.50	-2827.32	-119.48	0.76	2828.78	588026.58	671469.42	
11916.00	88.77	188.72	9418.94	-2921.23	-133.65	0.58	2923.44	587932.67	671455.25	
12011.00	88.84	188.33	9420.92	-3015.16	-147.73	0.42	3018.12	587838.74	671441.17	
12105.00	89.97	188.99	9421.90	-3108.08	-161.88	1.39	3111.81	587745.82	671427.02	
12200.00	89.69	188.23	9422.18	-3202.01	-176.11	0.85	3206.50	587651.89	671412.79	
12294.00	89.54	187.13	9422.81	-3295.16	-188.67	1.18	3300.30	587558.74	671400.23	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: Fecta 33 Federal COM-1H
Well: 1H
Wellpath: 1

Date: 3/9/2012 Time: 05:10:10 Page: 4
Co-ordinate(NE) Reference: Well: 1H, Grid-North
Vertical (TVD) Reference: SITE 3578.8
Section (VS) Reference: Well: (0.00N:0.00E, 183.99Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
12389.00	88.70	185.69	9424.27	-3389.55	-199.27	1.75	3395.20	587464.35	671389.63	
12484.00	88.57	185.57	9426.53	-3484.07	-208.59	0.19	3490.13	587369.83	671380.31	
12578.00	89.48	185.54	9428.13	-3577.61	-217.69	0.97	3584.08	587276.29	671371.21	
12673.00	89.27	184.43	9429.17	-3672.24	-225.94	1.19	3679.06	587181.66	671362.96	
12767.00	89.13	185.46	9430.48	-3765.88	-234.04	1.11	3773.04	587088.02	671354.86	
12862.00	89.76	184.83	9431.40	-3860.50	-242.56	0.94	3868.01	586993.40	671346.34	
12956.00	89.90	185.06	9431.68	-3954.15	-250.67	0.29	3962.00	586899.75	671338.23	
13051.00	90.74	185.55	9431.15	-4048.74	-259.45	1.02	4056.97	586805.16	671329.45	
13146.00	89.97	186.02	9430.56	-4143.25	-269.02	0.95	4151.92	586710.65	671319.88	
13240.00	90.73	185.95	9429.99	-4236.73	-278.82	0.81	4245.87	586617.17	671310.08	
13335.00	91.36	185.45	9428.25	-4331.25	-288.26	0.85	4340.81	586522.65	671300.64	
13430.00	92.13	185.48	9425.36	-4425.77	-297.30	0.81	4435.73	586428.13	671291.60	
13524.00	91.72	185.49	9422.20	-4519.29	-306.28	0.44	4529.65	586334.61	671282.62	
13572.00	92.07	185.49	9420.62	-4567.04	-310.87	0.73	4577.60	586286.86	671278.03	Last Wft Svy
13632.00	92.07	185.49	9418.45	-4626.73	-316.61	0.00	4637.54	586227.17	671272.29	Proj. To Bit

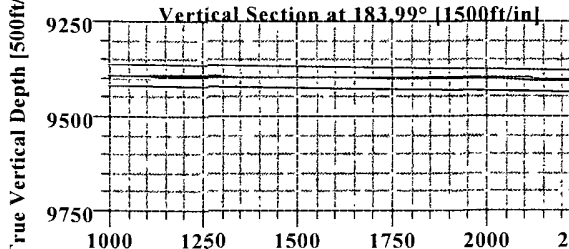
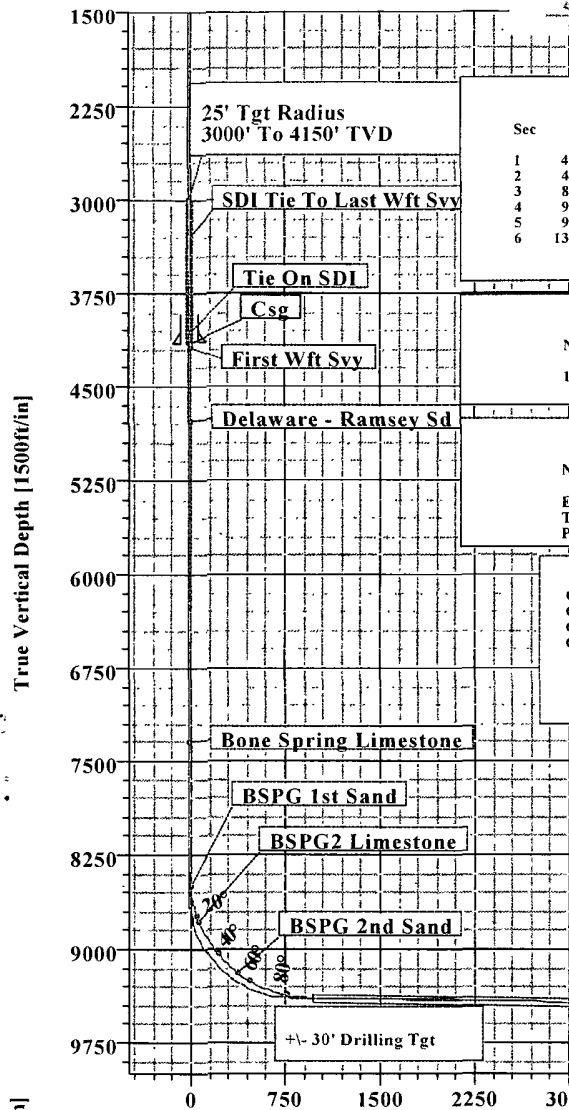
Annotation

MD ft	TVD ft	
910.45	909.96	Tie On SDI
1036.00	1035.25	First Wft Svy
3308.00	3306.93	SDI Tie To Last Wft Svy
4057.00	4055.86	Tie On SDI
4185.00	4183.81	First Wft Svy
13572.00	9420.62	Last Wft Svy
13632.00	9418.45	Proj. To Bit

KB ELEV: 3578.80
GL ELEV: 3554.80



Fecta 33 Fed Com #1H Lea Co, New Mexico



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4057.00	1.15	233.25	4055.85	0.31	33.36	0.00	0.00	-2.64	
2	4095.33	0.00	0.00	4094.18	0.08	33.05	3.00	180.00	-2.39	
3	8563.50	0.00	0.00	8562.35	0.08	33.05	0.00	0.00	-2.39	
4	9777.79	85.00	172.99	9377.74	-741.50	124.24	7.00	172.99	731.05	
5	9985.61	89.22	186.93	9388.28	-948.50	124.33	7.00	73.59	937.54	
6	13690.96	89.22	186.93	9439.00	-4626.40	-323.00	0.00	0.00	4637.66	PBHL

WELL DETAILS						
Name+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
1H 0.00	0.00	590853.90	671588.90	32°37'23.247N	103°46'33.647W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Exist well	0.00	-330.30	-233.70	590523.60	671355.20	Circle (Radius: 283)
Tgt	3000.00	10.70	28.06	590864.60	671616.96	Circle (Radius: 25)
PBHL	9439.00	-4626.40	-323.00	586227.50	671265.90	Rectangle (3678x60)

LEGEND

- 1H,1,Plan #6
- 1H,1,Gyro #1
- 1
- Wft Svy #2

FIELD DETAILS

Lea Co, New Mexico (Nad 27)

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

Geographic Information

North Arrow: G, T, M

Azimuths to Grid North
True North: -0.30°
Magnetic North: 7.33°

Magnetic Field
Strength: 48794nT
Dip Angle: 60.51°
Date: 2/10/2012
Model: IGRF2010
Total Correction to Grid North: 7.36°

SITE DETAILS

Fecta 33 Federal COM 1H

Site Centre Northing: 590853.90
Easting: 671588.90

Ground Level: 3554.80
Positional Uncertainty: 0.00
Convergence: 0.30

Survey: Wft Svy #2 (1H/1)										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
140	13632.00	92.07	185.49	9418.45	-4626.73	-316.61	0.00	180.00	4637.54	

