OCCIDENTAL PERMIAN LTD.

Triple X Bone Spring
Lea County, NM (Grid North)
Foxglove 29 Federal #4H
DH - Job #321114-MPH-1319

Survey: MWD

Regulatory Report (Grid North)

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

Notarized this date 2nd of January, 2015.

Carrie Reed
Notary Signature
County of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
CARRIE REED
My Commission Expires
October 4, 2015

Regulatory Report (Grid North)

Company:	OCCIDENTAL PERMIAN LTD.	**Local Co-ordinate Reference:**	Well Foxglove 29 Federal #4H
Project:	Triple X Bone Spring	**TVD Reference:**	Mean Sea Level (System)
Site:	Lea County, NM (Grid North)	**MD Reference:**	Mean Sea Level (System)
Well:	Foxglove 29 Federal #4H	**North Reference:**	Grid
Wellbore:	DH - Job #321114-MPH-1319	**Survey Calculation Method:**	Minimum Curvature
Design:	DH - Job #321114-MPH-1319	**Database:**	MID_Regulatory

Project Triple X 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 (Grid North)

Site Position:		**Northing:**	445,907.51 usft	**Latitude:**	32° 13' 25.997 N
From:	Lat/Long	**Easting:**	721,463.19 usft	**Longitude:**	103° 37' 1.870 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	0.38 °

Well Foxglove 29 Federal #4H, Horizontal

Well Position	**+N/-S**	0.0 usft	**Northing:**	467,057.10 usft	**Latitude:**	32° 16' 54.922 N
	+E/-W	0.0 usft	**Easting:**	726,869.03 usft	**Longitude:**	103° 35' 57.260 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	0.0 usft

Wellbore DH - Job #321114-MPH-1319

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	11/14/2014	7.35	60.14	48,289

Design DH - Job #321114-MPH-1319

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	180.07

Survey Program **Date** 1/22/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
202.0	15,636.0	MWD (DH - Job #321114-MPH-1319)	MWD	MWD

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
202.0	0.03	23.32	202.0	0.0	0.0	23.32	0.1
232.0	0.20	196.64	232.0	0.0	0.0	58.21	0.0
414.0	0.43	224.80	414.0	-0.8	-0.6	215.71	1.0
686.0	0.26	255.06	686.0	-1.7	-1.9	228.42	2.5
959.0	0.08	111.67	959.0	-1.9	-2.3	230.49	3.0
1,239.0	0.55	240.71	1,239.0	-2.6	-3.3	231.40	4.2
1,303.0	0.42	221.45	1,303.0	-3.0	-3.7	231.51	4.7
1,522.0	0.52	278.02	1,522.0	-3.4	-5.2	236.85	6.2
1,805.0	0.60	306.46	1,805.0	-2.4	-7.7	252.97	8.0
2,088.0	0.20	338.76	2,088.0	-1.0	-9.1	263.61	9.1
2,371.0	0.52	265.00	2,370.9	-0.7	-10.5	266.38	10.5

Regulatory Report (Grid North)

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Site:	Lea County, NM (Grid North)	**MD Reference:**	Mean Sea Level (System)
Well:	Foxglove 29 Federal #4H	**North Reference:**	Grid
Wellbore:	DH - Job #321114-MPH-1319	**Survey Calculation Method:**	Minimum Curvature
Design:	DH - Job #321114-MPH-1319	**Database:**	MID_Regulatory

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
2,654.0	0.18	328.03	2,653.9	-0.4	-12.0	268.09	12.0
2,937.0	0.27	285.88	2,936.9	0.2	-12.9	270.70	12.9
3,220.0	0.09	299.16	3,219.9	0.4	-13.7	271.87	13.8
3,503.0	0.07	21.88	3,502.9	0.7	-13.9	272.96	13.9
3,786.0	0.50	14.93	3,785.9	2.1	-13.5	278.73	13.7
4,069.0	0.03	130.87	4,068.9	3.2	-13.1	283.77	13.5
4,352.0	0.98	115.05	4,351.9	2.1	-10.9	281.15	11.1
4,635.0	1.62	116.57	4,634.8	-0.7	-5.1	262.51	5.1
4,917.0	1.52	339.62	4,916.8	1.1	-2.8	290.34	3.0
5,169.0	0.92	345.62	5,168.7	6.1	-4.5	323.75	7.6
5,290.0	0.85	339.47	5,289.7	7.9	-5.1	327.44	9.4
5,384.0	1.04	335.83	5,383.7	9.4	-5.7	328.85	10.9
5,478.0	1.19	209.27	5,477.7	9.3	-6.5	325.08	11.3
5,573.0	1.52	209.17	5,572.7	7.3	-7.6	314.02	10.5
5,667.0	1.62	204.28	5,666.6	5.0	-8.7	299.91	10.1
5,761.0	1.36	220.98	5,760.6	3.0	-10.0	286.53	10.4
5,855.0	1.18	219.57	5,854.6	1.4	-11.4	276.94	11.4
5,950.0	1.21	217.15	5,949.6	-0.2	-12.6	269.22	12.6
6,044.0	1.33	217.42	6,043.5	-1.8	-13.8	262.48	14.0
6,138.0	1.44	227.32	6,137.5	-3.5	-15.4	257.20	15.8
6,233.0	1.55	220.73	6,232.5	-5.3	-17.1	252.84	17.9
6,327.0	1.33	209.70	6,326.4	-7.2	-18.5	248.73	19.8
6,421.0	1.49	216.52	6,420.4	-9.1	-19.7	245.20	21.7
6,515.0	1.17	225.35	6,514.4	-10.8	-21.1	243.00	23.7
6,609.0	1.60	226.27	6,608.4	-12.4	-22.8	241.52	25.9
6,703.0	1.55	226.05	6,702.3	-14.1	-24.6	240.14	28.4
6,798.0	1.70	231.21	6,797.3	-15.9	-26.7	239.16	31.1
6,892.0	1.57	223.82	6,891.3	-17.7	-28.6	238.25	33.7
6,986.0	1.76	230.14	6,985.2	-19.6	-30.6	237.42	36.4
7,080.0	1.87	228.93	7,079.2	-21.5	-32.9	236.83	39.3
7,174.0	2.03	235.31	7,173.1	-23.5	-35.4	236.48	42.5
7,268.0	0.24	81.42	7,267.1	-24.4	-36.6	236.33	44.0
7,363.0	0.48	46.06	7,362.1	-24.1	-36.1	236.31	43.4
7,457.0	0.44	19.06	7,456.1	-23.5	-35.7	236.70	42.7
7,551.0	0.38	13.75	7,550.1	-22.8	-35.5	237.29	42.2
7,645.0	0.31	19.75	7,644.1	-22.3	-35.4	237.79	41.8
7,739.0	0.29	7.23	7,738.1	-21.8	-35.3	238.26	41.4
7,834.0	0.11	35.71	7,833.1	-21.5	-35.2	238.57	41.2
7,928.0	0.17	109.17	7,927.1	-21.5	-35.0	238.47	41.0
8,022.0	0.11	115.88	8,021.1	-21.5	-34.8	238.21	40.9
8,116.0	0.24	142.63	8,115.1	-21.7	-34.6	237.83	40.8
8,210.0	0.27	159.00	8,209.1	-22.1	-34.4	237.25	40.9
8,304.0	0.35	174.99	8,303.1	-22.6	-34.3	236.59	41.0
8,399.0	0.73	177.21	8,398.1	-23.5	-34.2	235.52	41.5

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Well:	Foxglove 29 Federal #4H	**North Reference:**	Grid
Wellbore:	DH - Job #321114-MPH-1319	**Survey Calculation Method:**	Minimum Curvature
Design:	DH - Job #321114-MPH-1319	**Database:**	MID_Regulatory

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
8,493.0	0.88	173.00	8,492.1	-24.8	-34.1	233.96	42.2
8,587.0	1.00	182.76	8,586.1	-26.3	-34.0	232.27	43.0
8,682.0	1.25	198.49	8,681.0	-28.2	-34.4	230.71	44.5
8,776.0	1.22	202.14	8,775.0	-30.1	-35.1	229.44	46.2
8,870.0	0.75	73.86	8,869.0	-30.8	-34.9	228.56	46.6
8,964.0	0.65	60.87	8,963.0	-30.4	-33.8	228.09	45.5
9,059.0	0.68	53.45	9,058.0	-29.8	-32.9	227.87	44.4
9,153.0	0.72	107.14	9,152.0	-29.6	-31.9	227.13	43.5
9,247.0	0.54	115.35	9,246.0	-30.0	-30.9	225.90	43.1
9,342.0	0.42	100.63	9,341.0	-30.2	-30.2	224.96	42.7
9,436.0	0.72	170.85	9,435.0	-30.9	-29.8	223.94	42.9
9,530.0	1.26	168.76	9,529.0	-32.5	-29.5	222.21	43.9
9,624.0	0.48	150.61	9,622.9	-33.8	-29.1	220.67	44.6
9,719.0	0.74	224.58	9,717.9	-34.6	-29.3	220.25	45.4
9,813.0	0.84	229.99	9,811.9	-35.5	-30.3	220.45	46.7
9,907.0	1.42	232.97	9,905.9	-36.6	-31.7	220.88	48.5
10,001.0	1.59	234.16	9,999.9	-38.1	-33.7	221.49	50.9
10,095.0	1.88	243.89	10,093.8	-39.6	-36.2	222.43	53.6
10,190.0	2.19	241.13	10,188.8	-41.1	-39.1	223.59	56.8
10,284.0	1.96	239.60	10,282.7	-42.8	-42.1	224.53	60.0
10,380.0	1.62	250.68	10,378.7	-44.1	-44.8	225.46	62.8
10,474.0	1.27	256.04	10,472.6	-44.8	-47.1	226.43	65.0
10,568.0	4.69	201.70	10,566.5	-48.6	-49.5	225.53	69.4
10,663.0	12.11	197.40	10,660.4	-61.7	-53.9	221.14	82.0
10,756.0	21.32	190.98	10,749.4	-87.7	-60.1	214.41	106.3
10,852.0	26.24	187.36	10,837.2	-125.9	-66.1	207.71	142.2
10,946.0	29.91	189.98	10,920.2	-169.6	-72.8	203.24	184.6
11,040.0	41.82	192.91	10,996.2	-223.4	-83.9	200.59	238.7
11,134.0	57.78	199.91	11,056.7	-291.9	-104.6	199.72	310.0
11,229.0	72.98	201.41	11,096.2	-372.4	-135.1	199.94	396.1
11,323.0	86.17	196.34	11,113.2	-459.7	-164.8	199.73	488.3
11,425.0	93.40	189.45	11,113.6	-559.0	-187.6	198.55	589.6
11,517.0	95.05	186.14	11,106.8	-649.9	-200.0	197.11	679.9
11,611.0	87.62	181.41	11,104.6	-743.5	-206.2	195.50	771.6
11,705.0	84.47	179.35	11,111.1	-837.3	-206.8	193.87	862.5
11,800.0	84.01	176.67	11,120.6	-931.8	-203.5	192.32	953.7
11,894.0	87.14	176.44	11,127.9	-1,025.3	-197.9	190.92	1,044.2
11,988.0	90.20	175.65	11,130.0	-1,119.0	-191.4	189.71	1,135.3
12,082.0	88.55	174.81	11,131.1	-1,212.7	-183.6	188.61	1,226.5
12,176.0	89.09	175.29	11,133.0	-1,306.3	-175.5	187.65	1,318.1
12,271.0	88.79	174.89	11,134.8	-1,401.0	-167.4	186.81	1,410.9
12,365.0	91.45	173.67	11,134.6	-1,494.5	-158.0	186.03	1,502.8
12,459.0	91.55	172.43	11,132.1	-1,587.8	-146.6	185.28	1,594.5
12,553.0	89.40	175.58	11,131.3	-1,681.2	-136.8	184.65	1,686.8

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Well:	Foxglove 29 Federal #4H	**North Reference:**	Grid
Wellbore:	DH - Job #321114-MPH-1319	**Survey Calculation Method:**	Minimum Curvature
Design:	DH - Job #321114-MPH-1319	**Database:**	MID_Regulatory

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
12,647.0	89.76	174.90	11,132.0	-1,774.9	-129.0	184.16	1,779.6
12,741.0	89.97	174.22	11,132.2	-1,868.5	-120.1	183.68	1,872.3
12,836.0	89.73	172.95	11,132.5	-1,962.9	-109.5	183.19	1,965.9
12,930.0	90.24	176.45	11,132.5	-2,056.5	-100.8	182.81	2,058.9
13,024.0	89.90	175.80	11,132.4	-2,150.2	-94.4	182.52	2,152.3
13,118.0	90.03	175.34	11,132.4	-2,244.0	-87.2	182.23	2,245.7
13,213.0	90.54	177.57	11,132.0	-2,338.8	-81.3	181.99	2,340.2
13,307.0	90.00	178.85	11,131.5	-2,432.7	-78.4	181.85	2,434.0
13,401.0	88.72	180.32	11,132.6	-2,526.7	-77.7	181.76	2,527.9
13,495.0	88.76	179.85	11,134.6	-2,620.7	-77.8	181.70	2,621.8
13,590.0	88.92	179.30	11,136.6	-2,715.7	-77.1	181.63	2,716.8
13,684.0	88.89	178.80	11,138.4	-2,809.6	-75.6	181.54	2,810.6
13,778.0	89.03	178.24	11,140.1	-2,903.6	-73.1	181.44	2,904.5
13,872.0	88.79	177.53	11,141.9	-2,997.5	-69.7	181.33	2,998.3
13,966.0	88.25	179.29	11,144.3	-3,091.4	-67.1	181.24	3,092.2
14,060.0	90.74	179.63	11,145.1	-3,185.4	-66.2	181.19	3,186.1
14,155.0	90.81	178.79	11,143.8	-3,280.4	-64.9	181.13	3,281.0
14,249.0	90.40	177.95	11,142.8	-3,374.4	-62.2	181.06	3,374.9
14,343.0	90.91	177.90	11,141.8	-3,468.3	-58.8	180.97	3,468.8
14,438.0	91.25	177.57	11,140.0	-3,563.2	-55.0	180.89	3,563.6
14,532.0	91.25	177.30	11,137.9	-3,657.1	-50.8	180.80	3,657.4
14,626.0	91.51	176.82	11,135.7	-3,750.9	-46.0	180.70	3,751.2
14,721.0	91.68	176.39	11,133.0	-3,845.7	-40.4	180.60	3,845.9
14,815.0	92.19	176.19	11,129.8	-3,939.5	-34.3	180.50	3,939.6
14,910.0	90.74	177.88	11,127.4	-4,034.3	-29.4	180.42	4,034.4
15,004.0	89.33	178.23	11,127.4	-4,128.2	-26.2	180.36	4,128.3
15,099.0	89.09	177.71	11,128.7	-4,223.2	-22.8	180.31	4,223.2
15,193.0	89.40	176.94	11,129.9	-4,317.1	-18.5	180.25	4,317.1
15,287.0	88.72	177.91	11,131.4	-4,411.0	-14.2	180.18	4,411.0
15,382.0	88.79	177.52	11,133.5	-4,505.9	-10.5	180.13	4,505.9
15,476.0	88.73	177.18	11,135.5	-4,599.7	-6.1	180.08	4,599.7
15,571.0	89.23	176.50	11,137.2	-4,694.6	-0.9	180.01	4,694.6
15,589.0	89.29	176.38	11,137.5	-4,712.6	0.2	180.00	4,712.6
Last MWD Survey							
15,636.0	89.29	176.38	11,138.1	-4,759.4	3.2	179.96	4,759.4
Projection to Bit							

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Wellbore:	DH - Job #321114-MPH-1319	**Survey Calculation Method:**	Minimum Curvature
Design:	DH - Job #321114-MPH-1319	**Database:**	MID_Regulatory

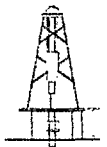
Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
15,589.0	11,137.5	-4,712.6	0.2	Last MWD Survey
15,636.0	11,138.1	-4,759.4	3.2	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____

OXY Permian

Foxglove 29 Federal 4H F29F 4H
Lea County, New Mexico
Northing: (Y) 467057.10
Easting: (X) 726869.00
Plan #4



KB @ 3716.10usft
Ground Level: 3692.10

WELL DETAILS:

Ground Level: 3692.10

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	467057.10	726869.00	32° 16' 54.922 N	103° 35' 57.260 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10573.00	0.00	0.00	10573.00	0.00	0.00	0.00	0.00	0.00	
11473.00	90.00	183.08	11145.96	-572.13	-30.79	10.00	183.08	572.17	
11647.78	90.00	179.58	11145.96	-746.84	-34.85	2.00	-90.01	746.88	
15661.50	90.00	179.58	11146.00	-4760.45	-5.73	0.00	0.00	4760.45	FG 29Fed 4H PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FG 29Fed 4H PBHL	11146.00	-4760.45	-5.73	462296.65	726863.27

SITE DETAILS: Foxglove 29 Federal 4H
Site Centre Northing: 467057.10
Easting: 726869.00

Positional Uncertainty: 0.00
Convergence: 0.39
Local North: Grid

PROJECT DETAILS: Lea County, New Mexico
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

LEGEND

- F29F 4H, Original Wellbore, Original Wellbore V0
- #1, OH, OH V0
- Plan #4

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

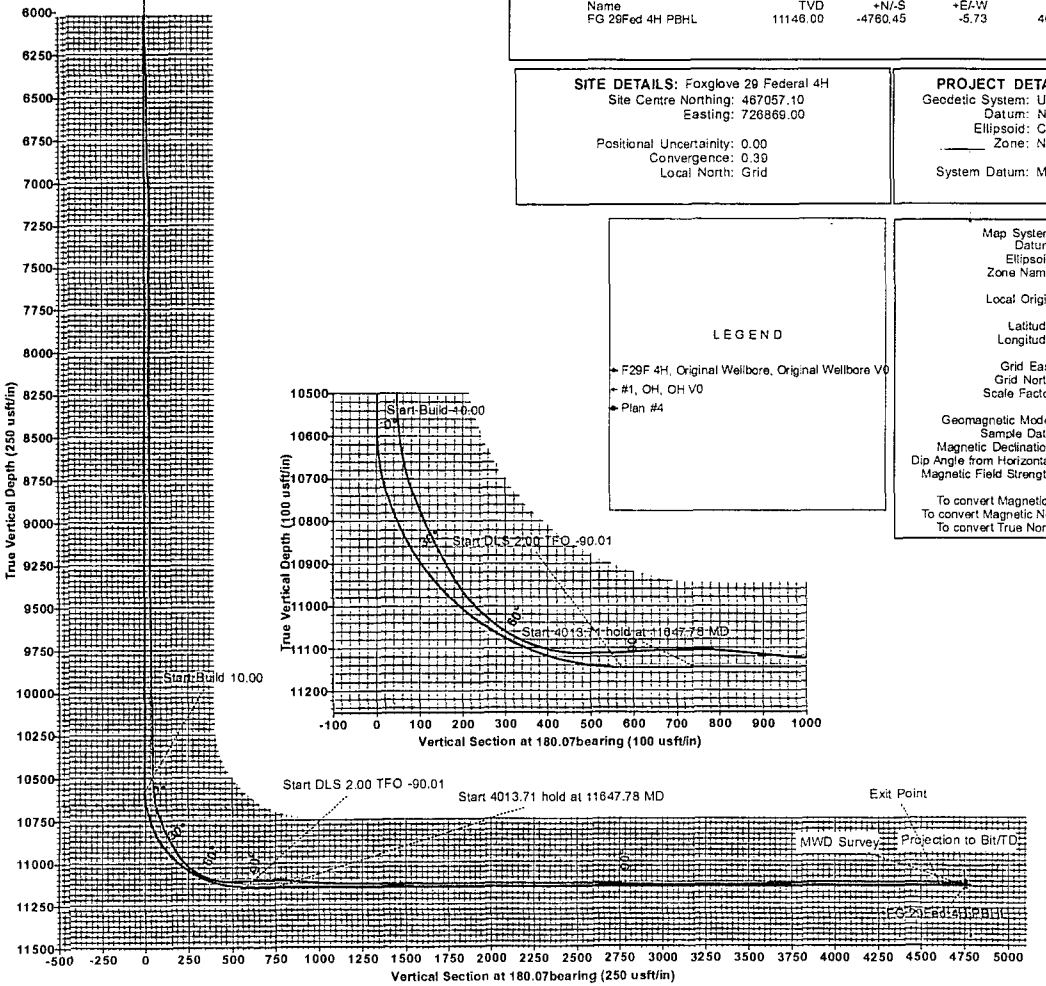
Local Origin: Well F29F 4H, Grid North

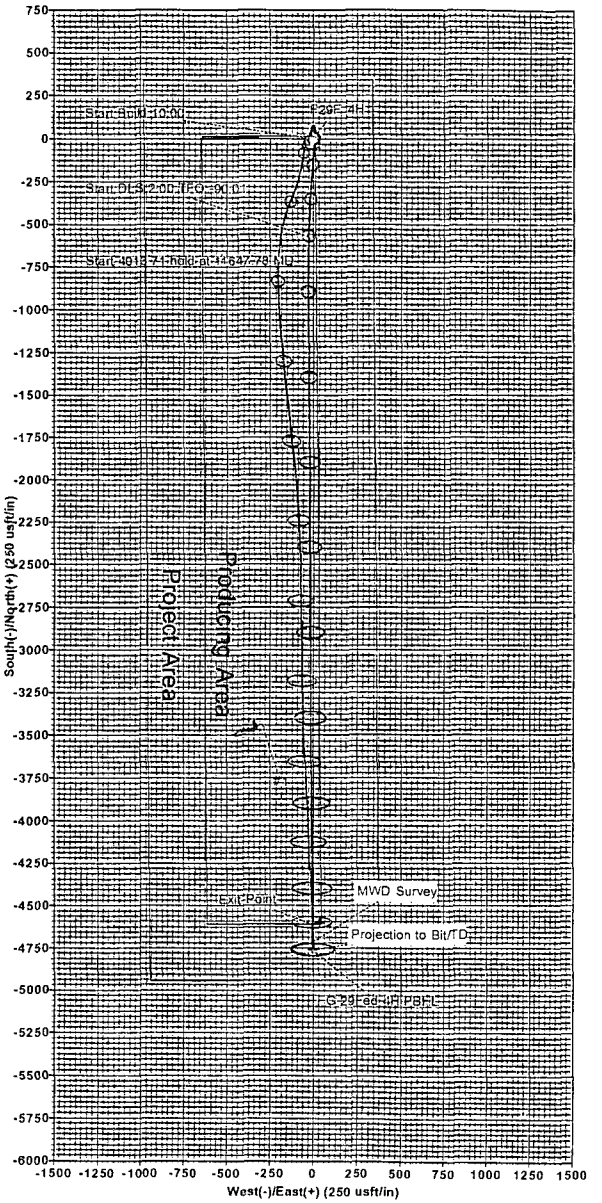
Latitude: 32° 16' 54.922 N
Longitude: 103° 35' 57.260 W

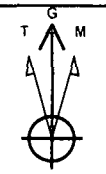
Grid East: 726869.00
Grid North: 467057.10
Scale Factor: 1.000

Geomagnetic Model: IGRF2010
Sample Date: 11-Oct-13
Magnetic Declination: 7.32°
Dip Angle from Horizontal: 60.18°
Magnetic Field Strength: 48414

To convert Magnetic North to Grid, Add 6.92°
To convert Magnetic North to True, Add 7.32° East
To convert True North to Grid, Subtract 0.39°







To convert Magnetic North to Grid, Add 6.92°
To convert True North to Grid, Subtract 0.39°

Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.92°

Magnetic Field
Strength: 48413.7snT
Dip Angle: 60.18°
Date: 10/11/2013
Model: IGRF2010