



Weatherford®

Drilling Services

30-015-39372

Proposal



devon

DIAMOND PWU 22 #3H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

AUGUST 30, 2011

Weatherford International, Ltd.

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SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	89.41	0.00	0.00	0.00	0.00	0.00	0.00	
2	7317.15	0.00	89.41	7317.15	0.00	0.00	0.00	0.00	0.00	
3	8206.25	88.91	89.41	7890.00	5.77	562.03	10.00	89.41	562.06	
4	12410.20	88.91	89.41	7970.00	48.88	4765.00	0.00	0.00	4765.25	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PWU 22 #3H	0.00	0.00	598384.83	622190.32	32°38'41.028N	104°04'14.367W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Pbhl	7970.00	48.88	4765.00	598433.71	626955.32	32°38'41.391N	104°03'18.635W	Point



Azimuths to Grid North
True North: -0.14°
Magnetic North: 7.62°

Magnetic Field
Strength: 48765nT
Dip Angle: 60.47°
Date: 3/15/2012
Model: IGRF2010

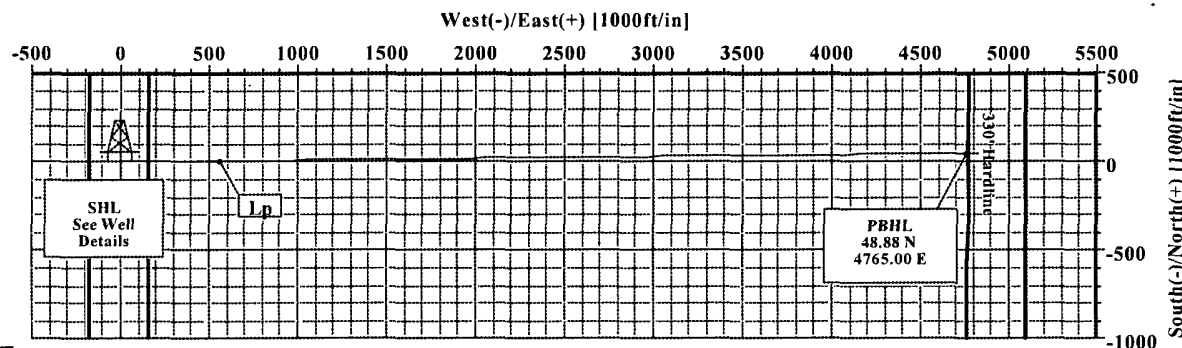
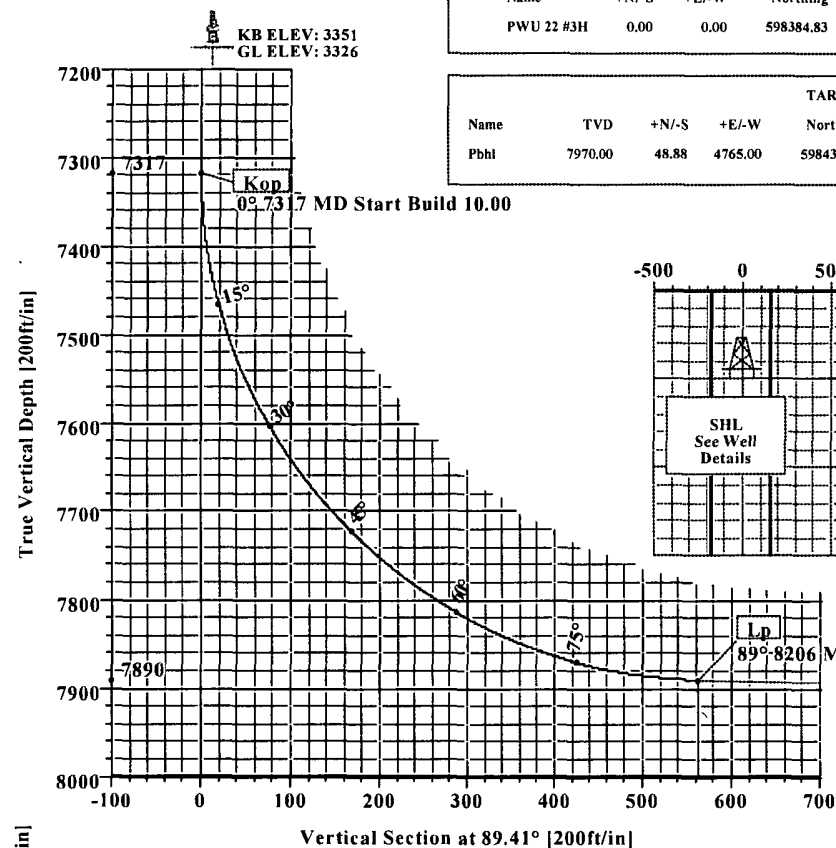
Total Correction to Grid North: 7.62°

FIELD DETAILS

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

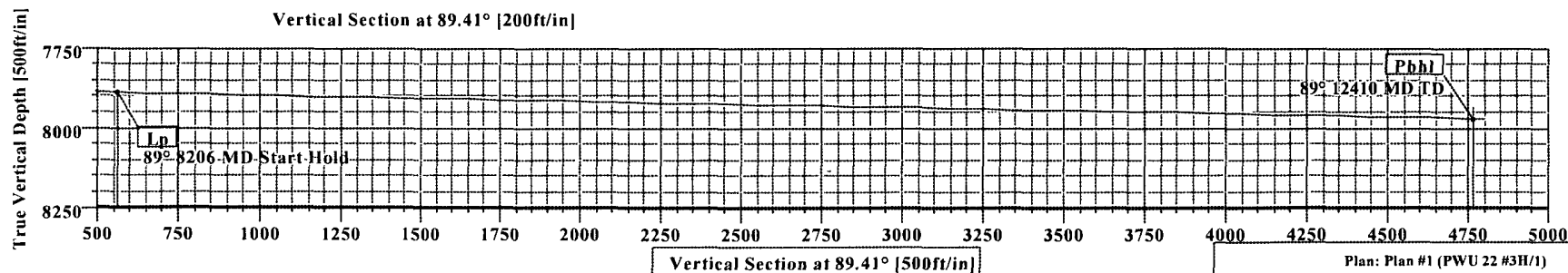


SITE DETAILS

Diamond PWU 22 #3H

Site Centre Northing: 598384.83
Easting: 622190.32

Ground Level: 3326.00
Positional Uncertainty: 0.00
Convergence: 0.14



Plan: Plan #1 (PWU 22 #3H/1)

Created By: Russell W. Joyner

Date: 8/30/2011



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WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Diamond PWU 22 #3H
Well: PWU 22 #3H
Wellpath: 1

Date: 8/30/2011
Co-ordinate(NE) Reference: Well PWU 22 #3H, Grid North
Vertical (TVD) Reference: SITE 3351.0
Section (VS) Reference: Well (0.00N, 0.00E, 89.41Az)
Survey Calculation Method: Minimum Curvature
Page: 1
Db: Sybase

Plan: Plan #1
Principal: Yes

Date Composed: 8/30/2011
Version: 1
Tied-to: From Surface

Field: Eddy 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: Well Centre
Geomagnetic Model: IGRF2010

Site: Diamond PWU 22 #3H

Site Position: Northing: 598384.83 ft Latitude: 32 38 41.028 N
From: Map Easting: 622190.32 ft Longitude: 104 4 14 367 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3326.00 ft Grid Convergence: 0 14 deg

Well: PWU 22 #3H Slot Name:

Well Position: +N/-S 0.00 ft Northing: 598384.83 ft Latitude: 32 38 41.028 N
+E/-W 0.00 ft Easting: 622190.32 ft Longitude: 104 4 14 367 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 3351.00 ft
Magnetic Data: 3/15/2012
Field Strength: 48765 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 89.41

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7 76 deg
Mag Dip Angle: 60 47 deg
Direction deg

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	89.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7317.15	0.00	89.41	7317.15	0.00	0.00	0.00	0.00	0.00	0.00	
8206.25	88.91	89.41	7890.00	5.77	562.03	10.00	10.00	0.00	89.41	
12410.20	88.91	89.41	7970.00	48.88	4765.00	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	DLS deg/100ft	MapN ft	MapE ft	Comment
7300.00	0.00	89.41	7300.00	0.00	0.00	0.00	0.00	598384.83	622190.32	
7317.15	0.00	89.41	7317.15	0.00	0.00	0.00	0.00	598384.83	622190.32	Kop
7400.00	8.29	89.41	7399.71	0.06	5.98	5.98	10.00	598384.89	622196.30	
7500.00	18.29	89.41	7496.91	0.30	28.93	28.93	10.00	598385.13	622219.25	
7600.00	28.29	89.41	7588.65	0.70	68.41	68.41	10.00	598385.53	622258.73	
7700.00	38.29	89.41	7672.14	1.26	123.21	123.22	10.00	598386.09	622313.53	
7800.00	48.29	89.41	7744.84	1.97	191.69	191.70	10.00	598386.80	622382.01	
7900.00	58.29	89.41	7804.55	2.79	271.74	271.76	10.00	598387.62	622462.06	
8000.00	68.29	89.41	7849.45	3.70	360.95	360.97	10.00	598388.53	622551.27	
8100.00	78.29	89.41	7878.17	4.68	456.60	456.62	10.00	598389.51	622646.92	
8200.00	88.29	89.41	7889.85	5.70	555.78	555.81	10.00	598390.53	622746.10	
8206.25	88.91	89.41	7890.00	5.77	562.03	562.06	10.00	598390.60	622752.35	Lp
8300.00	88.91	89.41	7891.79	6.73	655.76	655.79	0.00	598391.56	622846.08	
8400.00	88.91	89.41	7893.69	7.75	755.73	755.77	0.00	598392.58	622946.05	
8500.00	88.91	89.41	7895.59	8.78	855.71	855.76	0.00	598393.61	623046.03	
8600.00	88.91	89.41	7897.50	9.80	955.69	955.74	0.00	598394.63	623146.01	
8700.00	88.91	89.41	7899.40	10.83	1055.66	1055.72	0.00	598395.66	623245.98	



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WFT Plan Report - X & Y's



Company: Devon Energy Date: 8/30/2011 Time: 12.45 50 Page: 2
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well. PWU 22 #3H, Grid North
Site: Diamond PWU 22 #3H Vertical (TVD) Reference: SITE 3351 0
Well: PWU 22 #3H Section (VS) Reference: Well (0 00N,0.00E,89.41Azi)
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	DLS deg/100ft	MapN ft	MapE ft	Comment
8800.00	88.91	89.41	7901.30	11.85	1155.64	1155.70	0.00	598396.68	623345.96	
8900.00	88.91	89.41	7903.21	12.88	1255.62	1255.68	0.00	598397.71	623445.94	
9000.00	88.91	89.41	7905.11	13.91	1355.59	1355.66	0.00	598398.74	623545.91	
9100.00	88.91	89.41	7907.01	14.93	1455.57	1455.65	0.00	598399.76	623645.89	
9200.00	88.91	89.41	7908.91	15.96	1555.55	1555.63	0.00	598400.79	623745.87	
9300.00	88.91	89.41	7910.82	16.98	1655.52	1655.61	0.00	598401.81	623845.84	
9400.00	88.91	89.41	7912.72	18.01	1755.50	1755.59	0.00	598402.84	623945.82	
9500.00	88.91	89.41	7914.62	19.03	1855.48	1855.57	0.00	598403.86	624045.80	
9600.00	88.91	89.41	7916.53	20.06	1955.45	1955.56	0.00	598404.89	624145.77	
9700.00	88.91	89.41	7918.43	21.08	2055.43	2055.54	0.00	598405.91	624245.75	
9800.00	88.91	89.41	7920.33	22.11	2155.41	2155.52	0.00	598406.94	624345.73	
9900.00	88.91	89.41	7922.23	23.14	2255.38	2255.50	0.00	598407.97	624445.70	
10000.00	88.91	89.41	7924.14	24.16	2355.36	2355.48	0.00	598408.99	624545.68	
10100.00	88.91	89.41	7926.04	25.19	2455.34	2455.47	0.00	598410.02	624645.66	
10200.00	88.91	89.41	7927.94	26.21	2555.31	2555.45	0.00	598411.04	624745.63	
10300.00	88.91	89.41	7929.85	27.24	2655.29	2655.43	0.00	598412.07	624845.61	
10400.00	88.91	89.41	7931.75	28.26	2755.27	2755.41	0.00	598413.09	624945.59	
10500.00	88.91	89.41	7933.65	29.29	2855.24	2855.39	0.00	598414.12	625045.56	
10600.00	88.91	89.41	7935.55	30.32	2955.22	2955.38	0.00	598415.15	625145.54	
10700.00	88.91	89.41	7937.46	31.34	3055.20	3055.36	0.00	598416.17	625245.52	
10800.00	88.91	89.41	7939.36	32.37	3155.17	3155.34	0.00	598417.20	625345.49	
10900.00	88.91	89.41	7941.26	33.39	3255.15	3255.32	0.00	598418.22	625445.47	
11000.00	88.91	89.41	7943.17	34.42	3355.13	3355.30	0.00	598419.25	625545.45	
11100.00	88.91	89.41	7945.07	35.44	3455.10	3455.28	0.00	598420.27	625645.42	
11200.00	88.91	89.41	7946.97	36.47	3555.08	3555.27	0.00	598421.30	625745.40	
11300.00	88.91	89.41	7948.87	37.49	3655.06	3655.25	0.00	598422.32	625845.38	
11400.00	88.91	89.41	7950.78	38.52	3755.03	3755.23	0.00	598423.35	625945.35	
11500.00	88.91	89.41	7952.68	39.55	3855.01	3855.21	0.00	598424.38	626045.33	
11600.00	88.91	89.41	7954.58	40.57	3954.99	3955.19	0.00	598425.40	626145.31	
11700.00	88.91	89.41	7956.49	41.60	4054.96	4055.18	0.00	598426.43	626245.28	
11800.00	88.91	89.41	7958.39	42.62	4154.94	4155.16	0.00	598427.45	626345.26	
11900.00	88.91	89.41	7960.29	43.65	4254.92	4255.14	0.00	598428.48	626445.24	
12000.00	88.91	89.41	7962.19	44.67	4354.89	4355.12	0.00	598429.50	626545.21	
12100.00	88.91	89.41	7964.10	45.70	4454.87	4455.10	0.00	598430.53	626645.19	
12200.00	88.91	89.41	7966.00	46.72	4554.85	4555.09	0.00	598431.55	626745.17	
12300.00	88.91	89.41	7967.90	47.75	4654.82	4655.07	0.00	598432.58	626845.14	
12400.00	88.91	89.41	7969.81	48.78	4754.80	4755.05	0.00	598433.61	626945.12	
12410.20	88.91	89.41	7970.00	48.88	4765.00	4765.25	0.00	598433.71	626955.32	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			7970.00	48.88	4765.00	598433.71	626955.32	32 38 41 391 N	104 3 18 635 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford International Ltd.

WFT Plan Report - X & Y's



Company:	Devon Energy	Date:	8/30/2011	Time:	12 45 50	Page:	3
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well PWU 22 #3H, Grid North				
Site:	Diamond PWU 22 #3H	Vertical (TVD) Reference:	SITE 3351.0				
Well:	PWU 22 #3H	Section (VS) Reference:	Well (0.00N,0 00E,89.41Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Annotation

MD ft	TVD ft	
7317 15	7317 15	Kop
8206 25	7890 00	Lp
12410 20	7970 00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: August 30, 2011

Job Number: _____

Customer: Devon Energy

Well Name: Diamon PWU 22-3H

API Number: _____

Rig Name: _____

Location: Eddy Co., NM

Block: _____

Engineer: RWJ

US State Plane 1983

Geodetic Latitude / Longitude

System: New Mexico Eastern Zone

System: Latitude / Longitude

Projection: Transverse Mercator/Gauss Kruger

Projection: Geodetic Latitude and Longitude

Datum: North American Datum 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Ellipsoid: GRS 1980

North/South 598384.830 USFT

Latitude 32.6447332 DEG

East/West 622190.320 USFT

Longitude -104.0706534 DEG

Grid Convergence: .14°

Total Correction: +7.63°

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.64473° N 32° 38 min 41.040 sec

Longitude = 104.07065° W 104° 4 min 14.352 sec

Magnetic Declination = 7.77°

[True North Offset]

Local Gravity = .9988 g

Checksum = 6699

Local Field Strength = 48769 nT

Magnetic Vector X = 23814 nT

Magnetic Dip = 60.47°

Magnetic Vector Y = 3248 nT

Magnetic Model = IGRF-2010g11

Magnetic Vector Z = 42435 nT

Spud Date = Feb 15, 2012

Magnetic Vector H = 24034 nT

Signed: _____

Date: _____