

RECEIVED

JUL 23 2012

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40507		Pool Code 49622		Pool Name Parkway, Bone Springs	
Property Code		Property Name TURQUOISE PWU "27"			Well Number 6H
OGRID No. 6137		Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			Elevation 3332.8
10 Surface Location					
UL or lot no. H	Section 27	Township 19 S	Range 29 E	Lot Idn	Feet from the 1930
		North/South line NORTH		Feet from the 50	East/West line EAST
				County EDDY	
11 Bottom Hole Location If Different From Surface					
UL or lot no. E	Section 27	Township 19 S	Range 29 E	Lot Idn	Feet from the 1650
		North/South line NORTH		Feet from the 330	East/West line WEST
				County EDDY	
12 Dedicated Acres 160		13 Joint or Infill		14 Consolidation Code	
				15 Order No.	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

N89°22'07"W 2632.22 FT NW CORNER SEC. 27 LAT. = 32.6390370°N LONG. = 104.0712463°W NMSP EAST (FT) N = 596312.05 E = 622012.94		S89°50'52"W 2635.86 FT N O CORNER SEC. 27 LAT. = 32.6389391°N LONG. = 104.0626959°W NMSP EAST (FT) N = 596283.05 E = 624645.01		N00°12'42"W 2639.87 FT NE CORNER SEC. 27 LAT. = 32.6389396°N LONG. = 104.0541330°W NMSP EAST (FT) N = 596290.05 E = 627280.86	
S00°09'09"W 2651.63 FT 330' BOTTOM OF HOLE LAT. = 32.6344905°N LONG. = 104.0702021°W NMSP EAST (FT) N = 594558.82 E = 622338.46		TURQUOISE PWU "27" #6H ELEV = 3332.8' LAT. = 32.6336359°N (NAD83) LONG. = 104.0542887°W NMSP EAST (FT) N = 594360.43 E = 627238.01		50' SURFACE LOCATION	
S00°00'41"E 2616.54 FT SW CORNER SEC. 27 LAT. = 32.6244740°N LONG. = 104.0713099°W NMSP EAST (FT) N = 591013.90 E = 622006.42		S89°54'24"E 2644.63 FT SE CORNER SEC. 27 LAT. = 32.6244132°N LONG. = 104.0541300°W NMSP EAST (FT) N = 591005.28 E = 627295.67		S00°06'34"W 2614.93 FT	

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Melanie Crawford 7/19/12

Signature _____ Date _____

Printed Name Melanie Crawford

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

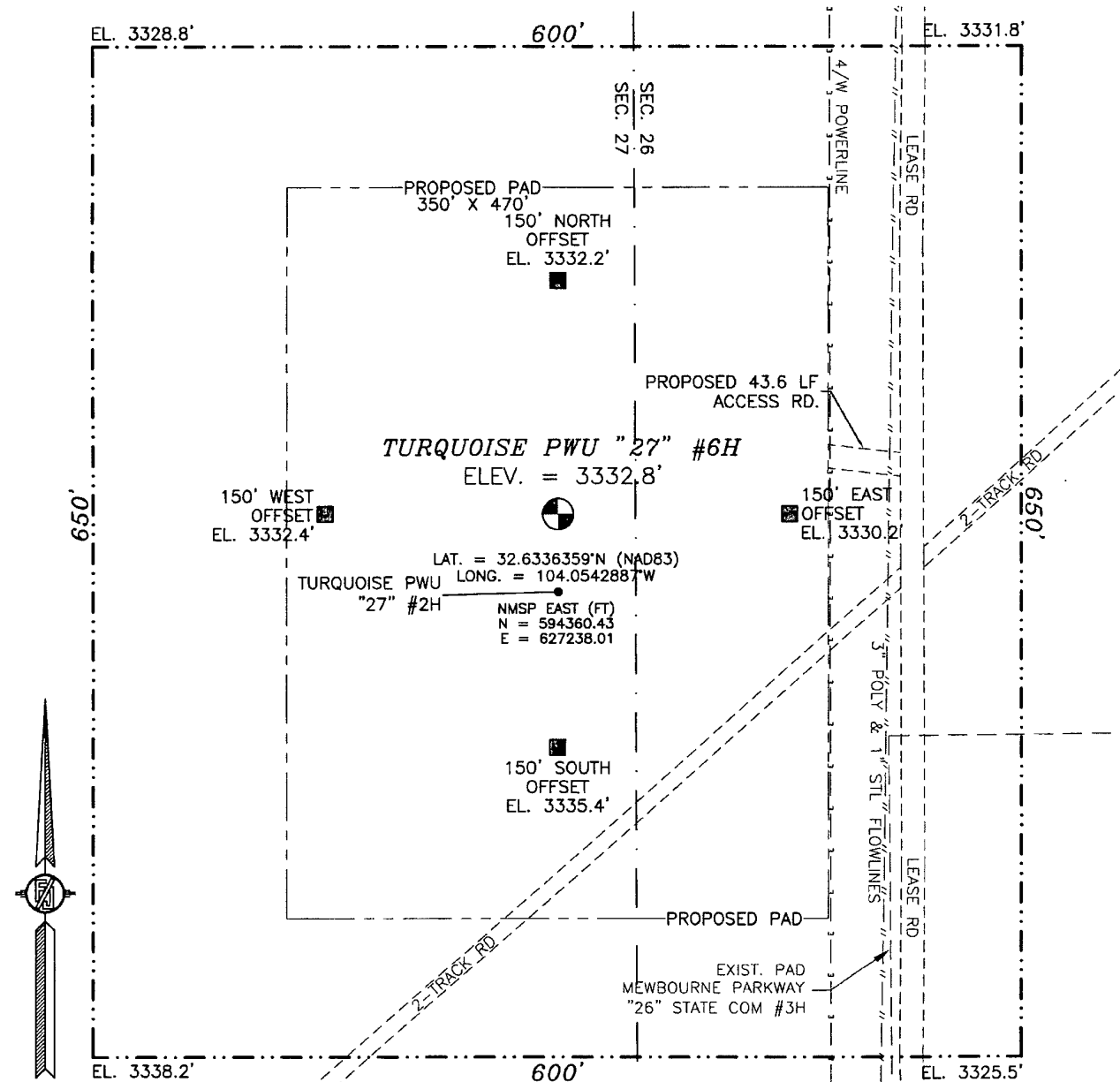
MAY 4 2012

Date of Survey _____

Signature and Seal of Professional Surveyor _____

Certificate Number _____ SURVEY NO 966

SECTION 27, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR 210 (OLD LOCO) AND CR 235 (CURRY COMB) GO SOUTHEAST ON CR 235 FOR APPROX. 2.6 MILES. GO SOUTH FOR APPROX. 0.4 OF A MILE. GO NORTHWEST APPROX. 0.7 OF A MILE. GO SOUTH APPROX. 0.2 OF A MILE. LOCATION IS APPROX. 200 FT SOUTH.

DEVON ENERGY PRODUCTION COMPANY, L.P.

TURQUOISE PWU "27" #6H

LOCATED 1930 FT. FROM THE NORTH LINE

AND 50 FT. FROM THE EAST LINE OF

SECTION 27, TOWNSHIP 19 SOUTH,

RANGE 29 EAST, N.M.P.M.

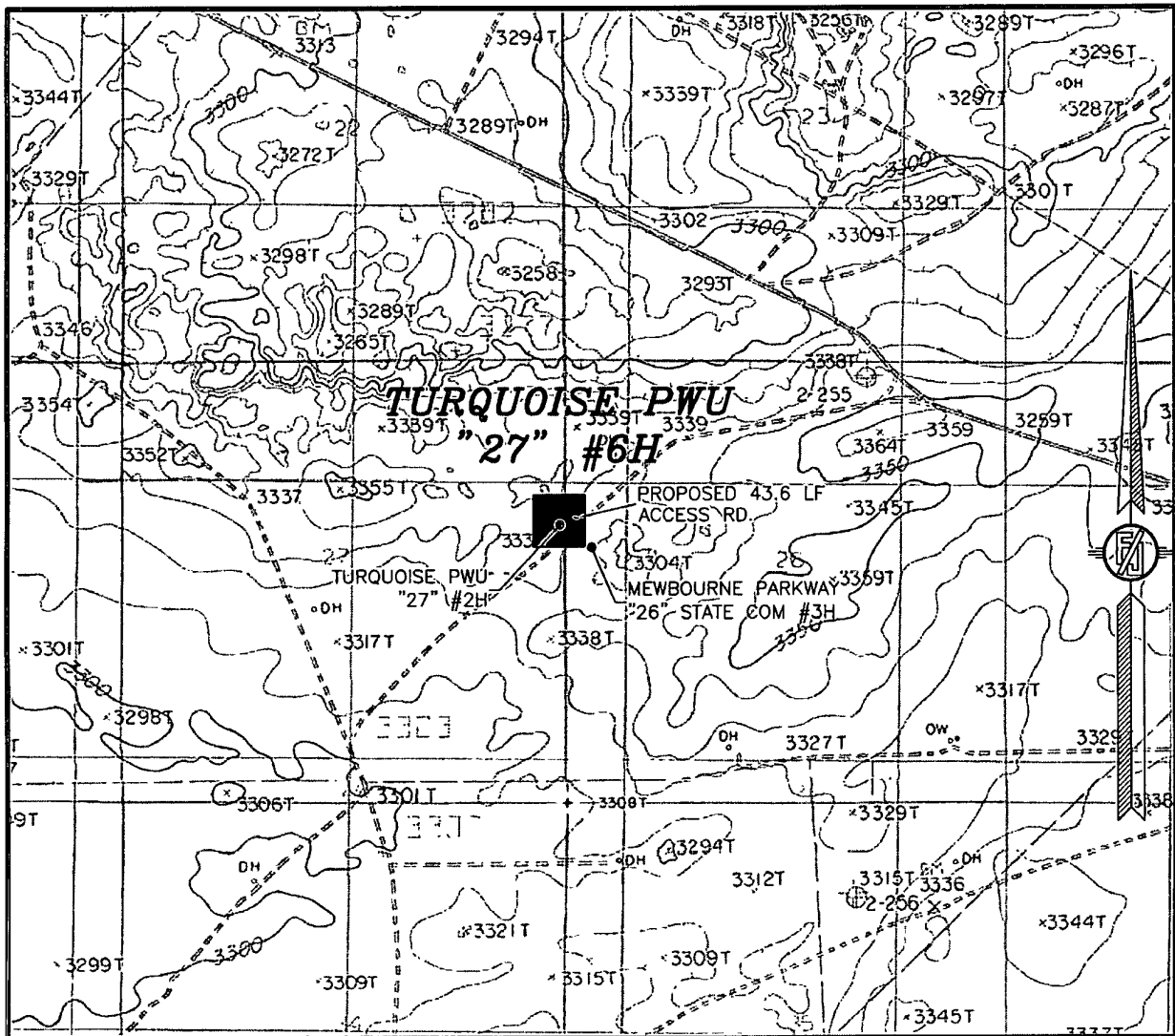
EDDY COUNTY, STATE OF NEW MEXICO

MAY 4, 2012

SURVEY NO. 966

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 27, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ILLINOIS CAMP NE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
TURQUOISE PWU "27" #6H
LOCATED 1930 FT. FROM THE NORTH LINE
AND 50 FT. FROM THE EAST LINE OF
SECTION 27, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 4, 2012

SURVEY NO. 966

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

A topographic map of a region in California, centered on the area around Burton Flat. The map features contour lines indicating elevation, with labels such as 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000. The map also shows several roads, including Highway 101, Highway 102, Highway 103, Highway 104, Highway 105, Highway 106, Highway 107, Highway 108, Highway 109, Highway 110, Highway 111, Highway 112, Highway 113, Highway 114, Highway 115, Highway 116, Highway 117, Highway 118, Highway 119, Highway 120, Highway 121, Highway 122, Highway 123, Highway 124, Highway 125, Highway 126, Highway 127, Highway 128, Highway 129, Highway 130, Highway 131, Highway 132, Highway 133, Highway 134, Highway 135, Highway 136, Highway 137, Highway 138, Highway 139, Highway 140, Highway 141, Highway 142, Highway 143, Highway 144, Highway 145, Highway 146, Highway 147, Highway 148, Highway 149, Highway 150, Highway 151, Highway 152, Highway 153, Highway 154, Highway 155, Highway 156, Highway 157, Highway 158, Highway 159, Highway 160, Highway 161, Highway 162, Highway 163, Highway 164, Highway 165, Highway 166, Highway 167, Highway 168, Highway 169, Highway 170, Highway 171, Highway 172, Highway 173, Highway 174, Highway 175, Highway 176, Highway 177, Highway 178, Highway 179, Highway 180, Highway 181, Highway 182, Highway 183, Highway 184, Highway 185, Highway 186, Highway 187, Highway 188, Highway 189, Highway 190, Highway 191, Highway 192, Highway 193, Highway 194, Highway 195, Highway 196, Highway 197, Highway 198, Highway 199, Highway 200. The map also shows several towns and cities, including Burton Flat, Clayton, and Aichison. The map includes a north arrow and a scale bar.

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

301 SOUTH CANAL
(575) 234-3341

Devon Energy Corporation

RECEIVED

JUL 23 2012

HALLIBURTON | Sperry Drilling



Project: Eddy County, NM (NAD 83)
Site: Turquoise PWU 27
Well: Turquoise PWU 27 6H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: Cactus 126

SURFACE LOCATION

US State Plane 1983
New Mexico Eastern Zone
Elevation GL 3332.8' + 25'KB @ 3357.80ft (Cactus 126)
Northing 594360.43 Easting 627238.01 Latitude 32° 38' 1.089 N Longitude 104° 3' 15.439 W

SECTION DETAILS

CASING DETAILS		
TVD	MD	Name
300.00	300.00	Surface Csg
3400.00	3400.00	Intermediate Csg
7095.00	11902.82	Production Csg

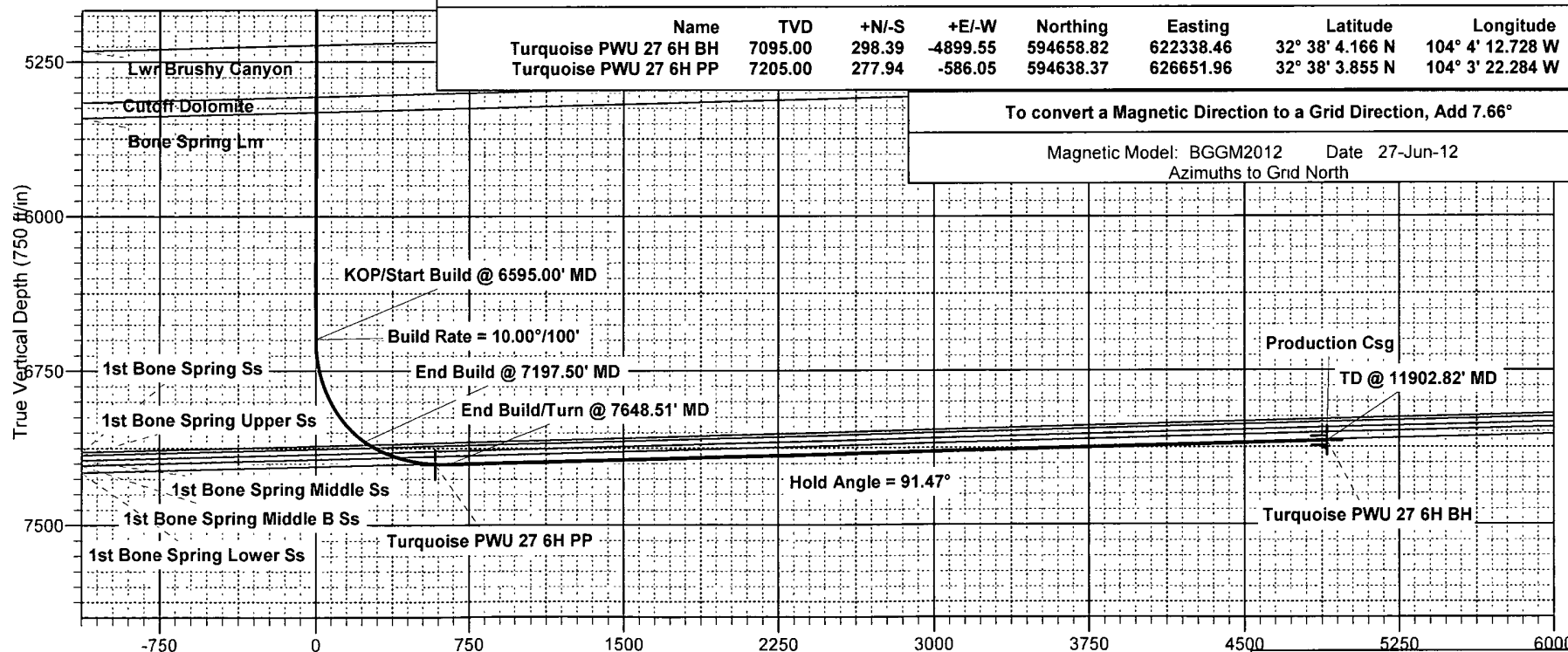
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6595.00	0.00	0.00	6595.00	0.00	0.00	0.00	0.00	0.00	KOP/Start Build @ 6595.00' MD
7197.50	60.25	304.35	7092.44	162.87	-238.31	10.00	304.35	238.99	End Build @ 7197.50' MD
7648.51	91.47	270.24	7204.38	280.42	-646.69	10.00	-52.31	647.85	End Build/Turn @ 7648.51' MD
11902.82	91.47	270.24	7095.00	298.39	-4899.55	0.00	0.00	4900.76	TD @ 11902.82' MD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Turquoise PWU 27 6H BH	7095.00	298.39	-4899.55	594658.82	622338.46	32° 38' 4.166 N	104° 4' 12.728 W
Turquoise PWU 27 6H PP	7205.00	277.94	-586.05	594638.37	626651.96	32° 38' 3.855 N	104° 3' 22.284 W

To convert a Magnetic Direction to a Grid Direction, Add 7.66°

Magnetic Model: BGM2012 Date 27-Jun-12
Azimuths to Grid North



Vertical Section at 270.24° (750 ft/in)

Created By Irma Lecumberry Date 15 00, June 27 2012



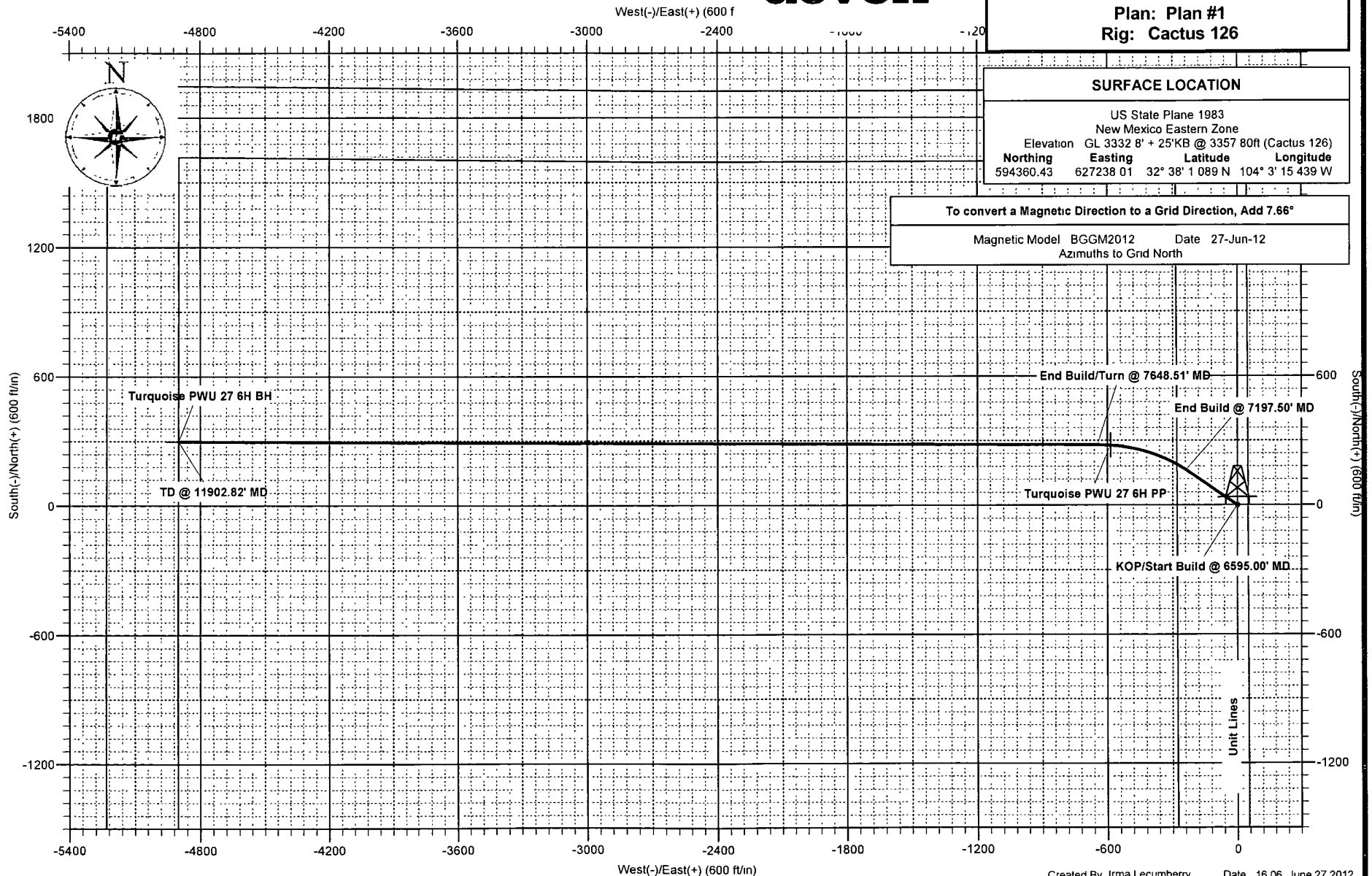
Project: Eddy County, NM (NAD 83)
 Site: Turquoise PWU 27
 Well: Turquoise PWU 27 6H
 Wellbore: Wellbore #1
 Plan: Plan #1
 Rig: Cactus 126

SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation GL 3332 8' + 25'KB @ 3357 80ft (Cactus 126)
 Northing 594360.43 Easting 627238 01 Latitude 32° 38' 1 089 N Longitude 104° 3' 15 439 W

To convert a Magnetic Direction to a Grid Direction, Add 7.66°

Magnetic Model BGGM2012 Date 27-Jun-12
 Azimuths to Grid North



Devon Energy Corporation

Eddy County, NM (NAD 83)

Turquoise PWU 27

Turquoise PWU 27 6H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

27 June, 2012

Well Coordinates 594,360 43 N, 627,238 01 E (32° 38' 01 09" N, 104° 03' 15.44" W)
Ground Level 3,332 80 ft

Local Coordinate Origin	Centered on Well Turquoise PWU 27 6H
Viewing Datum	GL 3332 8' + 25'KB @ 3357 80ft (Cactus 126)
TVDs to System	N
North Reference	Grid
Unit System	API - US Survey Feet

Version 2003 16 Build 431

HALLIBURTON

Plan Report for Turquoise PWU 27 6H - Plan #1

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)	Toolface Azimuth (°)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
25 00	0 00	0 00	25 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Rustler										
300 00	0 00	0 00	300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Surface Csg										
385 00	0 00	0 00	385 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Salt										
1,365 00	0 00	0 00	1,365 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Tansil Dolomite										
1,500 00	0 00	0 00	1,500 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Yates										
1,770 00	0 00	0 00	1,770 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Seven Rivers										
2,315 00	0 00	0 00	2,315 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Queens										
2,915 00	0 00	0 00	2,915 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
San Andres										
3,400 00	0 00	0 00	3,400 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Intermediate Csg										
3,900 00	0 00	0 00	3,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Delaware										
5,170 00	0 00	0 00	5,170 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Lwr Brushy Canyon										
5,420 00	0 00	0 00	5,420 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Cutoff Dolomite										
5,495 00	0 00	0 00	5,495 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Bone Spring Lm										
6,595 00	0 00	0 00	6,595 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Build Rate = 10.00°/100' - KOP/Start Build @ 6595.00' MD										
6,600 00	0 50	304 35	6,600 00	0 01	-0 02	0 02	10 00	10 00	0 00	304 35
6,700 00	10 50	304 35	6,699 41	5 41	-7 92	7 94	10 00	10 00	0 00	0 00
6,800 00	20 50	304 35	6,795 65	20 47	-29 96	30 04	10 00	10 00	0 00	0 00
6,900 00	30 50	304 35	6,885 80	44 73	-65 45	65 64	10 00	10 00	0 00	0 00
7,000 00	40 50	304 35	6,967 11	77 46	-113 34	113 66	10 00	10 00	0 00	0 00
7,100 00	50 50	304 35	7,037 11	117 65	-172 15	172 64	10 00	10 00	0 00	0 00
7,197 50	60 25	304 35	7,092 44	162 87	-238 31	238 99	10 00	10 00	0 00	0 00
End Build @ 7197.50' MD										
7,200 00	60 40	304 12	7,093 68	164 09	-240 10	240 79	10 00	6 12	-9 10	-52 31
7,230 37	62 29	301 41	7,108 24	178 51	-262 52	263 26	10 00	6 22	-8 92	-52 20
1st Bone Spring Ss										
7,262.35	64 34	298 66	7,122 61	192 80	-287 25	288 06	10 00	6 39	-8 61	-50 90
1st Bone Spring Upper Ss										
7,300 00	66 81	295 54	7,138 18	208 40	-317 76	318 63	10 00	6 56	-8 29	-49 66
7,321 40	68 24	293 82	7,146 36	216 66	-335 73	336 63	10 00	6 69	-8 05	-48 37
1st Bone Spring Middle Ss										
7,392 02	73 07	288 36	7,169 76	240 57	-397 87	398 88	10 00	6 85	-7 73	-47 71
1st Bone Spring Middle B Ss										
7,400 00	73 63	287 76	7,172 05	242 94	-405 14	406 15	10 00	6 97	-7 49	-45 90
7,500 00	80 72	280 52	7,194 26	266 65	-499 58	500 69	10 00	7 09	-7 24	-45 73
7,551 00	84 40	276 96	7,200 87	274 32	-549 55	550 69	10 00	7 21	-6 99	-44 12
1st Bone Spring Lower Ss										
7,600 00	87 95	273 58	7,204 14	278 81	-598 22	599 38	10 00	7 25	-6 90	-43 66
7,648 51	91.47	270 24	7,204 38	280 42	-646 68	647 85	10 00	7 26	-6 87	-43 43
Hold Angle = 91.47° - End Build/Turn @ 7648.51' MD										
7,700 00	91 47	270 24	7,203 06	280 64	-698 16	699 33	0 00	0 00	0 00	-43 42
7,800 00	91 47	270 24	7,200 49	281 06	-798 12	799 29	0 00	0 00	0 00	0 00

Plan Report for Turquoise PWU 27 6H - Plan #1

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)	Toolface Azimuth (°)
7,900.00	91.47	270.24	7,197.92	281.49	-898.09	899.26	0.00	0.00	0.00	0.00
8,000.00	91.47	270.24	7,195.35	281.91	-998.06	999.23	0.00	0.00	0.00	0.00
8,100.00	91.47	270.24	7,192.78	282.33	-1,098.02	1,099.19	0.00	0.00	0.00	0.00
8,200.00	91.47	270.24	7,190.20	282.75	-1,197.99	1,199.16	0.00	0.00	0.00	0.00
8,300.00	91.47	270.24	7,187.63	283.18	-1,297.95	1,299.13	0.00	0.00	0.00	0.00
8,400.00	91.47	270.24	7,185.06	283.60	-1,397.92	1,399.09	0.00	0.00	0.00	0.00
8,500.00	91.47	270.24	7,182.49	284.02	-1,497.89	1,499.06	0.00	0.00	0.00	0.00
8,600.00	91.47	270.24	7,179.92	284.44	-1,597.85	1,599.03	0.00	0.00	0.00	0.00
8,700.00	91.47	270.24	7,177.35	284.86	-1,697.82	1,699.00	0.00	0.00	0.00	0.00
8,800.00	91.47	270.24	7,174.78	285.29	-1,797.78	1,798.96	0.00	0.00	0.00	0.00
8,900.00	91.47	270.24	7,172.21	285.71	-1,897.75	1,898.93	0.00	0.00	0.00	0.00
9,000.00	91.47	270.24	7,169.64	286.13	-1,997.72	1,998.90	0.00	0.00	0.00	0.00
9,100.00	91.47	270.24	7,167.06	286.55	-2,097.68	2,098.86	0.00	0.00	0.00	0.00
9,200.00	91.47	270.24	7,164.49	286.98	-2,197.65	2,198.83	0.00	0.00	0.00	0.00
9,300.00	91.47	270.24	7,161.92	287.40	-2,297.61	2,298.80	0.00	0.00	0.00	0.00
9,400.00	91.47	270.24	7,159.35	287.82	-2,397.58	2,398.76	0.00	0.00	0.00	0.00
9,500.00	91.47	270.24	7,156.78	288.24	-2,497.55	2,498.73	0.00	0.00	0.00	0.00
9,600.00	91.47	270.24	7,154.21	288.67	-2,597.51	2,598.70	0.00	0.00	0.00	0.00
9,700.00	91.47	270.24	7,151.64	289.09	-2,697.48	2,698.67	0.00	0.00	0.00	0.00
9,800.00	91.47	270.24	7,149.07	289.51	-2,797.44	2,798.63	0.00	0.00	0.00	0.00
9,900.00	91.47	270.24	7,146.50	289.93	-2,897.41	2,898.60	0.00	0.00	0.00	0.00
10,000.00	91.47	270.24	7,143.92	290.35	-2,997.38	2,998.57	0.00	0.00	0.00	0.00
10,100.00	91.47	270.24	7,141.35	290.78	-3,097.34	3,098.53	0.00	0.00	0.00	0.00
10,200.00	91.47	270.24	7,138.78	291.20	-3,197.31	3,198.50	0.00	0.00	0.00	0.00
10,300.00	91.47	270.24	7,136.21	291.62	-3,297.27	3,298.47	0.00	0.00	0.00	0.00
10,400.00	91.47	270.24	7,133.64	292.04	-3,397.24	3,398.43	0.00	0.00	0.00	0.00
10,500.00	91.47	270.24	7,131.07	292.47	-3,497.21	3,498.40	0.00	0.00	0.00	0.00
10,600.00	91.47	270.24	7,128.50	292.89	-3,597.17	3,598.37	0.00	0.00	0.00	0.00
10,700.00	91.47	270.24	7,125.93	293.31	-3,697.14	3,698.33	0.00	0.00	0.00	0.00
10,800.00	91.47	270.24	7,123.35	293.73	-3,797.10	3,798.30	0.00	0.00	0.00	0.00
10,900.00	91.47	270.24	7,120.78	294.16	-3,897.07	3,898.27	0.00	0.00	0.00	0.00
11,000.00	91.47	270.24	7,118.21	294.58	-3,997.04	3,998.24	0.00	0.00	0.00	0.00
11,100.00	91.47	270.24	7,115.64	295.00	-4,097.00	4,098.20	0.00	0.00	0.00	0.00
11,200.00	91.47	270.24	7,113.07	295.42	-4,196.97	4,198.17	0.00	0.00	0.00	0.00
11,300.00	91.47	270.24	7,110.50	295.84	-4,296.93	4,298.14	0.00	0.00	0.00	0.00
11,400.00	91.47	270.24	7,107.93	296.27	-4,396.90	4,398.10	0.00	0.00	0.00	0.00
11,500.00	91.47	270.24	7,105.36	296.69	-4,496.87	4,498.07	0.00	0.00	0.00	0.00
11,600.00	91.47	270.24	7,102.79	297.11	-4,596.83	4,598.04	0.00	0.00	0.00	0.00
11,700.00	91.47	270.24	7,100.21	297.53	-4,696.80	4,698.00	0.00	0.00	0.00	0.00
11,800.00	91.47	270.24	7,097.64	297.96	-4,796.76	4,797.97	0.00	0.00	0.00	0.00
11,900.00	91.47	270.24	7,095.07	298.38	-4,896.73	4,897.94	0.00	0.00	0.00	0.00
11,902.82	91.47	270.24	7,095.00	298.39	-4,899.55	4,900.76	0.00	0.00	0.00	0.00

TD @ 11902.82' MD - Production Csg - Turquoise PWU 27 6H BH

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,595.00	6,595.00	0.00	0.00	Build Rate = 10.00°/100'
6,595.00	6,595.00	0.00	0.00	KOP/Start Build @ 6595.00' MD
7,197.50	7,092.44	162.87	-238.31	End Build @ 7197.50' MD
7,648.51	7,204.38	280.42	-646.68	Hold Angle = 91.47°
7,648.51	7,204.38	280.42	-646.68	End Build/Turn @ 7648.51' MD
11,902.82	7,095.00	298.39	-4,899.55	TD @ 11902.82' MD

Plan Report for Turquoise PWU 27 6H - Plan #1

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	270 24	Slot	0 00	0 00	0 00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0 00	11,902 82	Plan #1	MWD

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
300 00	300 00	Surface Csg	13-3/8	17-1/2
3,400 00	3,400 00	Intermediate Csg	9-5/8	12-1/4
11,902 82	7,095 00	Production Csg	5-1/2	8-3/4

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
25 00	25 00	Rustler		-1 47	270 24
385 00	385 00	Salt		-1 47	270 24
1,365 00	1,365 00	Tansil Dolomite		-1 47	270 24
1,500 00	1,500 00	Yates		-1 47	270 24
1,770 00	1,770 00	Seven Rivers		-1 47	270 24
2,315 00	2,315 00	Queens		-1 47	270 24
2,915 00	2,915 00	San Andres		-1 47	270 24
3,900 00	3,900 00	Delaware		-1 47	270 24
5,170 00	5,170 00	Lwr Brushy Canyon		-1 47	270 24
5,420 00	5,420 00	Cutoff Dolomite		-1 47	270 24
5,495 00	5,495 00	Bone Spring Lm		-1 47	270 24
7,230.37	7,115 00	1st Bone Spring Ss		-1 47	270 24
7,262 35	7,130 00	1st Bone Spring Upper Ss		-1 47	270 24
7,321 40	7,155 00	1st Bone Spring Middle Ss		-1 47	270 24
7,392 02	7,180 00	1st Bone Spring Middle B Ss		-1 47	270 24
7,551 00	7,215 00	1st Bone Spring Lower Ss		-1 47	270 24

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Turquoise PWU 27 6H BH	7,095 00	298 39	-4,899 55	Point
Turquoise PWU 27 6H PP	7,205 00	277 94	-586 05	Point

North Reference Sheet for Turquoise PWU 27 - Turquoise PWU 27 6H - Wellbore**#1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 3332.8' + 25'KB @ 3357.80ft (Cactus 126). Northing and Easting are relative to Turquoise PWU 27 6H.

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980.

Projection method is Transverse Mercator (Gauss-Kruger).

Central Meridian is -104 33°, Longitude Origin 0° 0' 0 000 E°, Latitude Origin 0° 0' 0 000 N°.

False Easting 541,337.50ft, False Northing 0 00ft, Scale Reduction 0.99991754.

Grid Coordinates of Well: 594,360.43 ft N, 627,238.01 ft E.

Geographical Coordinates of Well: 32° 38' 01.09" N, 104° 03' 15.44" W.

Grid Convergence at Surface is 0.15°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,902.82ft.

the Bottom Hole Displacement is 4,908.63ft in the Direction of 273.49° (Grid).

Magnetic Convergence at surface is -7.66° (27 June 2012, BGGM2012).

