

CNX GAS COMPANY, LLC

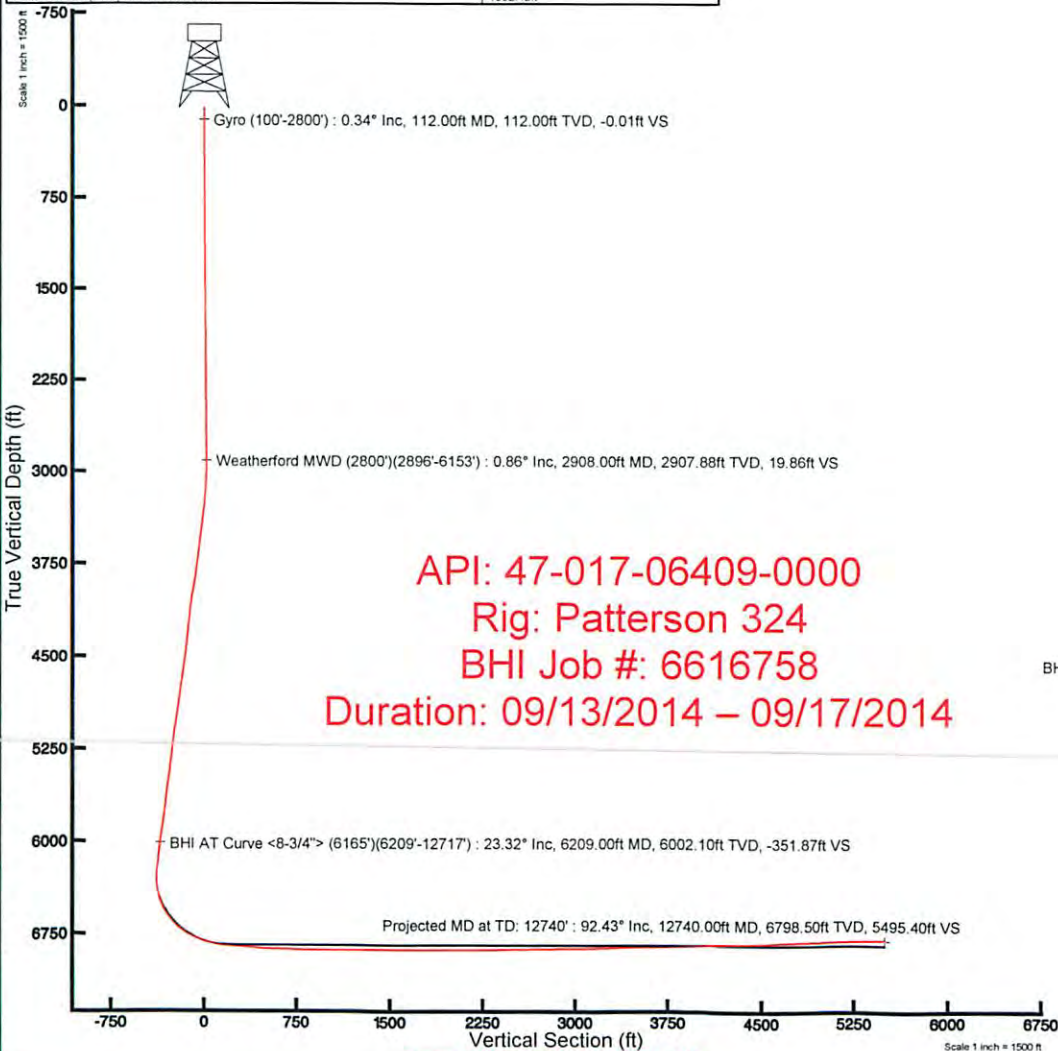
Location: Doddridge Co., WV
 Field: Doddridge
 Facility: OXFD-11 Pad

Slot: Slot A
 Well: OXFD-11A-HS
 Wellbore: OXFD-11A-HS PWB



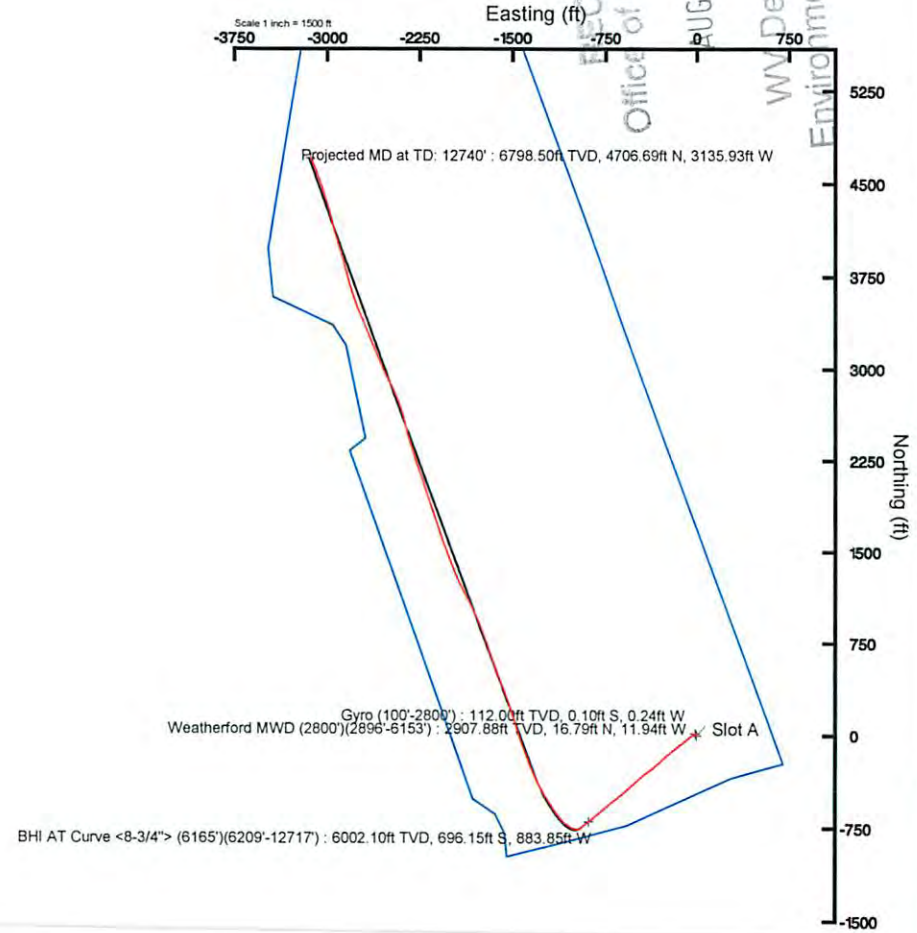
Plot reference wellpath is OXFD-11A-HS PWB Rev-A 0	
True vertical depths are referenced to Patterson 324 (RKB)	Grid System: NAD27 / Lambert West Virginia SP, Northern Zone (4701) US feet
Measured depths are referenced to Patterson 324 (RKB)	North Reference: Grid north
Patterson 324 (RKB) to Mean Sea Level: 1332.42 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot A): -1307.92 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ebsarwar on 11/sep/2014

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
OXFD-11 Pad	1641688.000	246757.000	39°10'14.064"N	80°45'49.782"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot A	0.00	0.00	1641688.000	246757.000
Patterson 324 (RKB) to Mud line (At Slot: Slot A)			24.5ft	
Mean Sea Level to Mud line (At Slot: Slot A)			-1307.92ft	
Patterson 324 (RKB) to Mean Sea Level			1332.42ft	



API: 47-017-06409-0000
Rig: Patterson 324
BHI Job #: 6616758
Duration: 09/13/2014 – 09/17/2014

17-06409



N
GRID
MAG **TRUE**
W **E**

BGGM (1945 0 to 2016 0) Dip: 66.75° Field: 52175.7 nT
 Magnetic North is 8.47 degrees West of True North (at 11/Sep/2014)
 Grid North is 0.81 degrees West of True North
 To correct azimuth from True to Grid add 0.81 degrees
 To correct azimuth from Magnetic to Grid subtract 7.66 degrees

RECEIVED
 Office of Oil and Gas
 AUG 27 2015
 WV Department of Environmental Protection

17-06409

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes

Software System: WellArchitect® 4.0.1

REFERENCE WELLPATH IDENTIFICATION

Operator CNX GAS COMPANY, LLC
Area Doddridge Co., WV
Field Doddridge
Facility OXFD-11 Pad
Slot Slot A
Well OXFD-11A-HS
Wellbore OXFD-11A-HS AWB
Wellpath OXFD-11A-HS AWP Proj: 12740'
Sidetrack (none)

REPORT SETUP INFORMATION

Projection NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Refe Grid
Scale 0.999972
Convergen 0.81° West
Software S WellArchitect® 4.0.1
User Gottfbral
Report Ger 9/17/2014 at 2:35:53 PM
DataBase:/ WANorthEast/ev910.xml

Table with columns: Slot Locati, Facility Ref, Field Refer, Local East, Easting, Northing, Latitude, Longitude. Values include 0, 1641688, 246757, 39°10'14.0, 80°45'49.782"W

WELLPATH DATUM

Calculation Minimum curvature
Horizontal Slot
Vertical Re Patterson 324 (RKB)
MD Refere Patterson 324 (RKB)
Field Vertic Mean Sea Level
Patterson : 1332.42ft
Patterson : 1332.42ft
Patterson : 24.50ft
Section Ori N 0.00, E 0.00 ft
Section Azi 340.00°

WELLPATH DATA † = interpolated/extrapolated station

Large table with columns: MD, Inclin, Azimuth, TVD, Vert Sect, North, East, Grid East, Grid North, Latitude, Longitude, Closure Dis, Closure Dir, DLS. Contains 40 rows of data.

RECEIVED
Office of Oil and Gas
All 2015
WV Department of
Environmental Protection
10/09/2015

17.06409

9710	91.63	341.76	6876.75	2472.15	1851.59	-2140.88	1639547	248608.5	39°10'32.0" 80°46'17.2'	2830.5	310.856	0.49
9805	90.68	341.6	6874.84	2567.08	1941.75	-2170.74	1639517	248698.7	39°10'32.9" 80°46'17.6'	2912.47	311.813	1.01
9901	90.68	341.3	6873.7	2663.05	2032.76	-2201.27	1639487	248789.7	39°10'33.8" 80°46'18.0'	2996.28	312.721	0.31
9996	90.71	341.05	6872.55	2758.02	2122.67	-2231.93	1639456	248879.6	39°10'34.7" 80°46'18.4'	3080.13	313.563	0.27
10092	91.08	341.44	6871.05	2853.99	2213.56	-2262.79	1639425	248970.5	39°10'35.6" 80°46'18.9'	3165.45	314.37	0.56
10186	90.12	342.72	6870.06	2947.92	2302.99	-2291.71	1639396	249059.9	39°10'36.5" 80°46'19.2'	3248.95	315.141	1.7
10282	90.49	342.64	6869.55	3043.81	2394.64	-2320.29	1639368	249151.6	39°10'37.4" 80°46'19.6'	3334.37	315.903	0.39
10377	91.75	346.42	6867.69	3138.47	2486.16	-2345.62	1639342	249243.1	39°10'38.3" 80°46'20.0'	3418.03	316.666	4.19
10472	91.57	345.29	6864.94	3232.94	2578.24	-2368.82	1639319	249335.2	39°10'39.2" 80°46'20.3'	3501.23	317.424	1.2
10567	91.57	342.54	6862.34	3327.67	2669.48	-2395.13	1639293	249426.4	39°10'40.1" 80°46'20.6'	3586.47	318.101	2.89
10661	91.32	337.79	6859.97	3421.61	2757.85	-2427.01	1639261	249514.8	39°10'40.9" 80°46'21.0'	3673.7	318.651	5.06
10756	91.54	334.46	6857.6	3516.35	2844.68	-2465.44	1639223	249601.6	39°10'41.8" 80°46'21.5'	3764.39	319.085	3.51
10851	90.92	332.87	6855.56	3610.75	2929.8	-2507.57	1639181	249686.7	39°10'42.6" 80°46'22.1'	3856.38	319.44	1.8
10946	91.91	335.68	6853.21	3705.24	3015.34	-2548.79	1639139	249772.3	39°10'43.5" 80°46'22.6'	3948.25	319.793	3.14
11041	92	338.13	6849.97	3800.03	3102.67	-2586.03	1639102	249859.6	39°10'44.3" 80°46'23.1'	4039.08	320.189	2.58
11136	91.94	337.95	6846.7	3894.92	3190.73	-2621.54	1639067	249947.6	39°10'45.2" 80°46'23.6'	4129.55	320.593	0.2
11232	91.94	337.53	6843.45	3990.79	3279.52	-2657.88	1639030	250036.4	39°10'46.1" 80°46'24.1'	4221.33	320.977	0.44
11326	91.85	336.79	6840.34	4084.63	3366.1	-2694.35	1638994	250123	39°10'46.9" 80°46'24.5'	4311.63	321.325	0.79
11421	91.63	337.1	6837.46	4179.45	3453.48	-2731.54	1638957	250210.4	39°10'47.8" 80°46'25.0'	4403.16	321.658	0.4
11515	90.98	339.6	6835.32	4273.38	3540.82	-2766.2	1638922	250297.7	39°10'48.6" 80°46'25.5'	4493.25	322.002	2.75
11610	91.72	343.01	6833.08	4368.31	3630.76	-2796.64	1638891	250387.7	39°10'49.5" 80°46'25.9'	4582.97	322.394	3.67
11704	92.15	344.47	6829.91	4462.05	3720.95	-2822.94	1638865	250477.8	39°10'50.4" 80°46'26.2'	4670.6	322.814	1.62
11799	92.77	344.26	6825.83	4556.69	3812.35	-2848.52	1638840	250569.2	39°10'51.3" 80°46'26.6'	4759	323.234	0.69
11894	92.8	344.1	6821.21	4651.32	3903.64	-2874.39	1638814	250660.5	39°10'52.2" 80°46'26.9'	4847.74	323.634	0.17
11989	91.78	342.97	6817.42	4746.07	3994.67	-2901.3	1638787	250751.6	39°10'53.1" 80°46'27.3'	4937.1	324.009	1.6
12083	91.29	343.33	6814.9	4839.89	4084.6	-2928.53	1638760	250841.5	39°10'54.0" 80°46'27.6'	5025.96	324.361	0.65
12178	91.26	344.99	6812.78	4934.61	4175.97	-2954.46	1638734	250932.9	39°10'54.9" 80°46'28.0'	5115.42	324.721	1.75
12273	91.36	345.8	6810.61	5029.17	4267.88	-2978.4	1638710	251024.8	39°10'55.8" 80°46'28.3'	5204.39	325.09	0.86
12368	91.32	341.79	6808.39	5123.91	4359.06	-3004.9	1638683	251115.9	39°10'56.7" 80°46'28.7'	5294.42	325.42	4.22
12463	91.32	341.67	6806.2	5218.84	4449.25	-3034.68	1638653	251206.1	39°10'57.6" 80°46'29.1'	5385.63	325.703	0.13
12557	91.36	340.65	6804	5312.8	4538.18	-3065.02	1638623	251295.1	39°10'58.4" 80°46'29.5'	5476.27	325.965	1.09
12652	91.45	336.72	6801.67	5407.73	4626.64	-3099.54	1638589	251383.5	39°10'59.3" 80°46'29.9'	5568.93	326.181	4.14
12717	92.43	334.87	6799.47	5472.51	4685.89	-3126.17	1638562	251442.8	39°10'59.9" 80°46'30.3'	5632.98	326.291	3.22
12740	92.43	334.87	6798.5	5495.4	4706.69	-3135.93	1638552	251463.6	39°11'00.1" 80°46'30.4'	5655.71	326.326	0

TARGETS

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]				
OXFD-11A-HS BHL Plat		6840	4703.31	-3147.01	1638541	251460.2	39°11'00.1" 80°46'30.5'		point	
OXFD-11A-HS LP Plat		6840	-465.01	-1266.04	1640422	246292	39°10'09.2" 80°46'05.7'		point	
OXFD-11A-HS LP Rev-1		6840	-281.76	-1332.6	1640355	246475.3	39°10'11.0" 80°46'06.6'		point	

WELLPATH COMPOSITION Ref Wellbore: OXFD-11A-HS AWB Ref Wellpath: OXFD-11A-HS AWP Proj: 12740'

Log Name/ Start MD	End MD	Pos	Unc	Model
[ft]	[ft]			
01_Gyro (1	24.5	2812		Generic gyro - northseeking (Standard)
02_Weathr	2812	6165		ISWWSA MWD, Rev. 2 (Standard)
03_BHI AT	6165	12717		NaviTrak (AT Curve Short Spaced)
Projection	12717	12740		Blind Drilling (std)

COMMENTS

Wellpath general comments

API: 47-017-06409-0000
 BHI Job #: 6616758
 Rig: Patterson 324
 Duration: 09/13/2014 - 09/17/2014
 Gyro (100'-2800')
 Weatherford MWD (2800')(2896'-6153')
 BHI AT Curve <8-3/4> (6165')(6209'-12717')"
 Projected MD at TD: 12740'

RECEIVED
 Office of Oil and Gas
 AUG 27 2015
 WV Department of
 Environmental Protection

10/09/2015