



# CNX GAS COMPANY, LLC

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

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

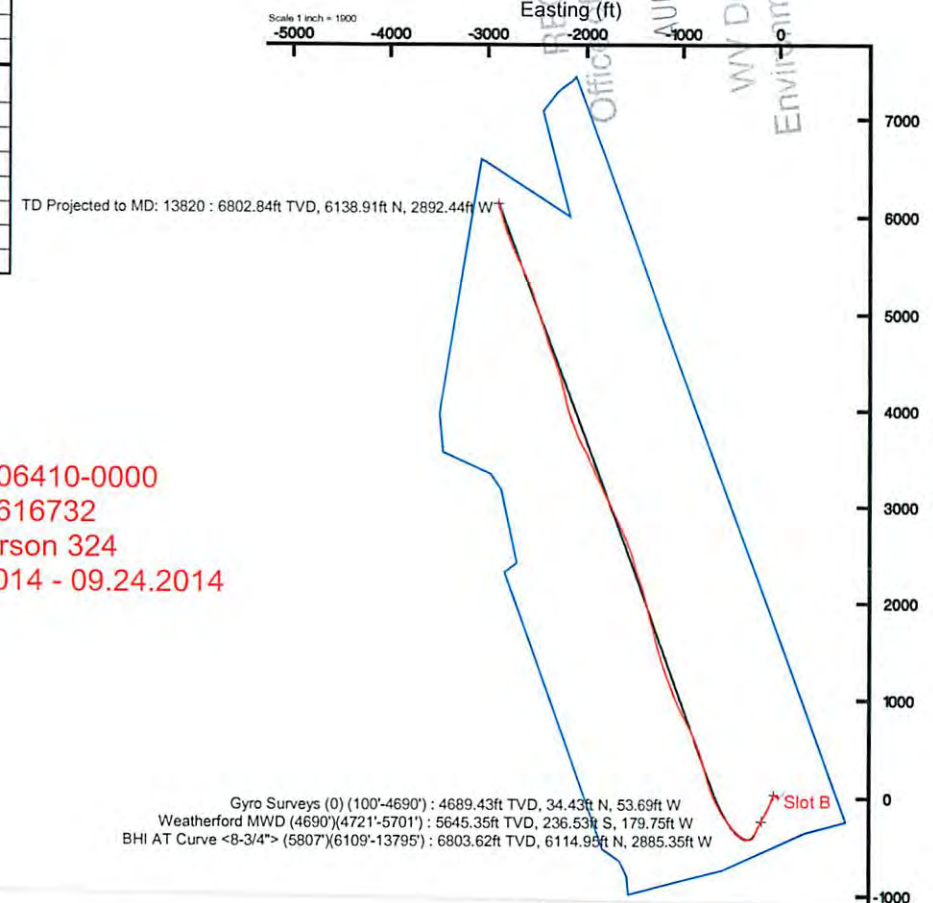


Plot reference wellpath is OXFD-11B-HS PWP Rev-B.0	
True vertical depths are referenced to Patterson 324 (RKB)	Grid System: NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
Measured depths are referenced to Patterson 324 (RKB)	North Reference: Grid north
Patterson 324 (RKB) to Mean Sea Level: 1332.48 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot B) : -1307.98 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: fulmjes on 9/24/2014

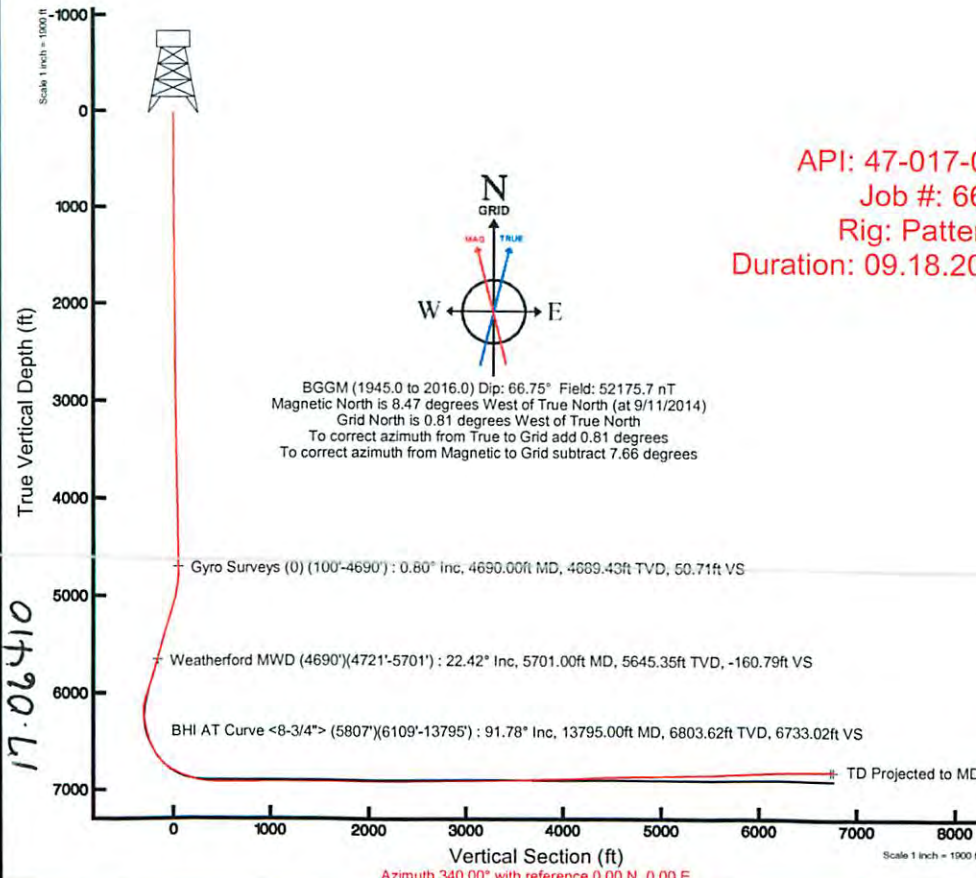
### Location Information

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)	Latitude	Longitude
Slot B	15.00	13.00	1641701.000	246772.000	39°10'14.214"N	80°45'49.620"W
Patterson 324 (RKB) to Mud line (At Slot: Slot B)			24.5ft			
Mean Sea Level to Mud line (At Slot: Slot B)			-1307.98ft			
Patterson 324 (RKB) to Mean Sea Level			1332.48ft			

Scale 1 inch = 1000  
Easting (ft)  
-5000 -4000 -3000 -2000 -1000 0



API: 47-017-06410-0000  
Job #: 6616732  
Rig: Patterson 324  
Duration: 09.18.2014 - 09.24.2014



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 9/11/2014)  
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

17-06410

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WV Department of Environmental

17.06410

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 B
Well OXFD-11B-HS
Wellbore OXFD-11B-HS AWB
Wellpath OXFD-11B-HS AWP Proj: 13820'
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 Hareluk
Report Ger 24/Sep/2014 at 12:41:03 PM
DataBase: WellArchitectEasternDB/ev01.xml

Table with columns: Slot Locati, Facility Ref, Field Refer, Local North [ft], Local East [ft], Easting [US ft], Northing [US ft], Latitude, Longitude

WELLPATH DATUM

Calculation Minimum curvature
Horizontal Slot
Vertical Re Patterson 324 (RKB)
MD Refere Patterson 324 (RKB)
Field Vertik Mean Sea Level
Patterson : 1332.48ft
Patterson : 1332.48ft
Patterson : 24.50ft
Section Ori N 0.00, E 0.00 ft
Section Azi 340.00°

WELLPATH DATA † = interpolated/extrapolated station

Main data table with columns: MD [ft], Course Len [ft], Inclination [°], Azimuth [°], TVD [ft], Vert Sect [ft], North [ft], East [ft], Grid East [US ft], Grid North [US ft], Latitude, Longitude, Closure Dis [ft], Closure Dir [°], DLS ["/100ft]

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10/09/2015



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12849	95	91.94	340.06	6831.73	5789.24	5233.04	-2548.93	1639152	252004.9	39°11'05.5" 80°46'22.9"	5820.8	334.03	3.12
12944	95	91.85	338.54	6828.59	5884.17	5321.86	-2582.49	1639119	252093.7	39°11'06.4" 80°46'23.3"	5915.36	334.115	1.6
13039	95	91.69	336.01	6825.65	5979.01	5409.44	-2619.16	1639082	252181.3	39°11'07.3" 80°46'23.8"	6010.16	334.164	2.67
13134	95	91.66	335.78	6822.88	6073.73	5496.11	-2657.95	1639043	252268	39°11'08.1" 80°46'24.3"	6105.08	334.191	0.24
13229	95	91.63	333.62	6820.15	6168.28	5581.96	-2698.53	1639003	252353.8	39°11'09.0" 80°46'24.8"	6200.03	334.199	2.27
13324	95	91.45	337.21	6817.59	6262.93	5668.3	-2738.03	1638963	252440.1	39°11'09.8" 80°46'25.4"	6294.96	334.217	3.78
13419	95	91.82	338.92	6814.88	6357.83	5756.39	-2773.5	1638928	252528.2	39°11'10.7" 80°46'25.8"	6389.7	334.275	1.84
13513	94	91.69	340.42	6812	6451.78	5844.49	-2806.14	1638895	252616.3	39°11'11.5" 80°46'26.2"	6483.25	334.353	1.6
13608	95	91.63	344.37	6809.25	6546.64	5934.98	-2834.86	1638866	252706.8	39°11'12.4" 80°46'26.6"	6577.27	334.468	4.16
13702	94	91.75	344.71	6806.48	6640.3	6025.54	-2859.91	1638841	252797.4	39°11'13.3" 80°46'27.0"	6669.8	334.61	0.38
13795	93	91.78	343.52	6803.62	6733.02	6114.95	-2885.35	1638816	252886.8	39°11'14.2" 80°46'27.3"	6761.49	334.74	1.28
13820	25	91.78	343.52	6802.84	6757.96	6138.91	-2892.44	1638809	252910.7	39°11'14.4" 80°46'27.4"	6786.19	334.772	0

TARGETS

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]				
OXFD-11B-HS BHL Plat		6850	6139.18	-2890.09	1638811	252911	39°11'14.4" 80°46'27.4"		point	
OXFD-11B-HS LP Plat		6850	397.01	-800.02	1640901	247169	39°10'18.0" 80°45'59.8"		point	
OXFD-11B-HS LP Rev-1		6850	84.27	-686.28	1641015	246856.3	39°10'14.9" 80°45'58.3"		point	
OXFD-11B-HS BHL Rev		6894	6139.18	-2890.09	1638811	252911	39°11'14.4" 80°46'27.4"		point	
OXFD-11B-HS LP Rev-2		6894	84.27	-686.28	1641015	246856.3	39°10'14.9" 80°45'58.3"		point	

WELLPATH COMPOSITION Ref Wellbore: OXFD-11B-HS AWB Ref Wellpath: OXFD-11B-HS AWP Proj: 13820'

Log Name/ Start MD End MD Pos Unc Model

01_Gyro (1	24.5	4702	Generic gyro - northseeking (Standard)
02_Weather	4702	5807	ISCWSA MWD, Rev. 2 (Standard)
03_BHI AT	5807	13795	NaviTrak (AT Curve Short Spaced)
Projection	13795	13820	Blind Drilling (std)

COMMENTS

Wellpath general comments

API: 47-017-06410-0000  
 Job #: 6616732  
 Rig: Patterson 324  
 Duration: 09.18.2014 - 09.24.2014  
 Gyro Surveys (100'-4690')  
 Weatherford MWD (4690')(4721'-5701')  
 BHI AT Curve <8-3/4> (5807')(6109'-13795')  
 TD Projected to MD: 13820'

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 Office of Oil and Gas  
 AUG 27 2015  
 WV Department of  
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