



CNX



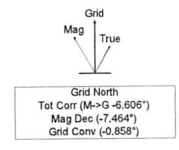
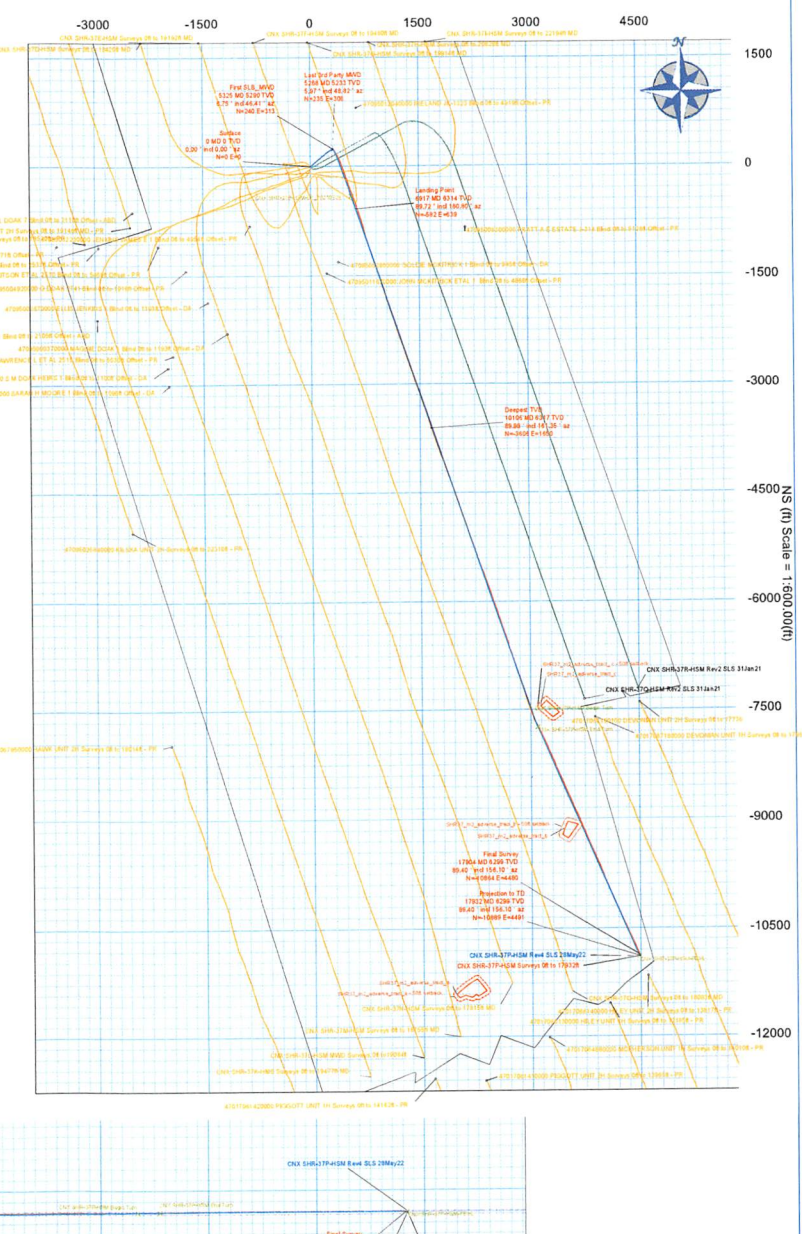
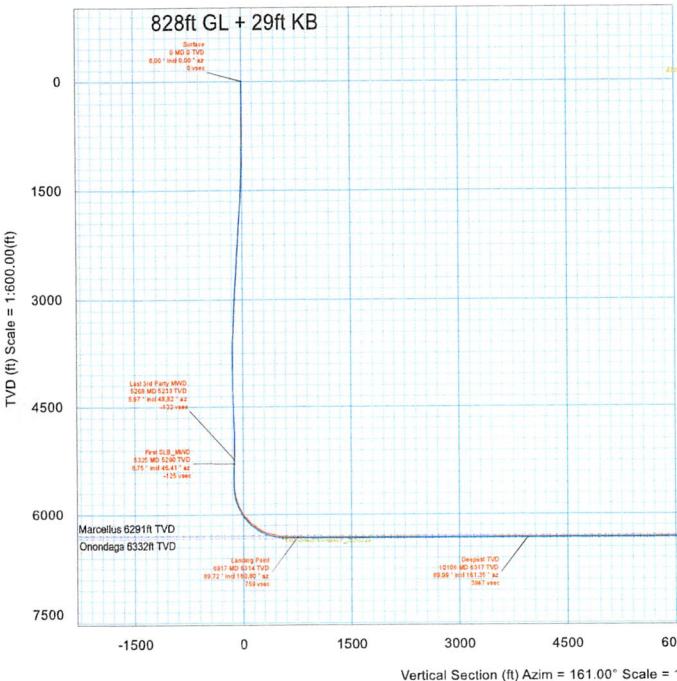
Borehole: Original Borehole	Well: SHR-37P-HSM	Field: WV Tyler County (NAD 27)	Structure: Patterson 873
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Gravity & Magnetic Parameters Model: HDGM 2022 Dip: 66.176° Date: 06-Jun-2022 MagDec: -7.464° FS: 51674.025mT Gravity FS: 999.338mpn (9.80665 Based)	Surface Location NAD27 West Virginia State Plane, Northern Zone, US Feet Lat: N 39 21 12.49 Northing: 313702.228US Grid Conv: -0.8584' Lon: W 80 50 46.37 Easting: 1619408.377US Scale Fact: 0.99996199	Miscellaneous Slot: SHR-37P-HSM TVD Ref: RKB(867ft above MSL) Plan: CNX SHR-37P-HSM Surveys OR to 17932ft
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Point Name	Point Type	Description	MD (ft)	INCL (°)	AZIM (°)	TVD (ft)	VSEC (ft)	N (ft)	E (ft)	W (ft)	S (ft)
SHR37P_01	Point	Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHR37P_02	Point	Surface	17.50	13.375	0	29	168.425	0.732	0.729		
SHR37P_03	Point	Surface	17.50	13.375	29	29	600	0.732	0.729		
SHR37P_04	Point	Surface	17.50	13.375	29	365	800	2.2	2.197		
SHR37P_05	Point	Surface	17.50	13.375	365	800	5268	24.317	22.543		
SHR37P_06	Point	Surface	8.50	5.5	5268	17932	342.716	34.142			

PART	Seq	Survey Tool	Vendor/Tool	Hole Size (in)	Casing Size (in)	Expected Hole Incl (°)	MD From (ft)	MD To (ft)	Survey Frequency (ft)	ESU Size (ft/min Meter)	ESU Size (ft/min Meter)	Comments/Contingency
1	1	AS200A_DPRONS-Depth Only		17.5	13.375	0	29	168.425	0.732	0.729		
1	2	AS200A_DPRONS-Depth Only		17.5	13.375	29	29	600	0.732	0.729		
1	3	AS200A_DPRONS		17.5	13.375	29	365	800	2.2	2.197		
1	4	AS01M_MWD		17.5	13.375	365	800	5268	3.296	3.296		
1	5	AS01M_MWD		12.25	9.825	600	5268	24.317	22.543			
1	6	BS00M_MWD-HURF		8.5	5.5	5268	17932	342.716	34.142			

Critical Point	MD	INCL	AZIM	TVD	VSEC	N (ft)	E (ft)	DLS
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Last 3rd Party MWD	5268.00	5.87	48.82	5233.31	-122.11	235.27	308.21	1.17
First SLB MWD	5325.00	6.75	46.41	5289.94	-134.82	236.53	312.87	1.45
Wellbore	6644.87	81.83	159.88	6291.00	487.56	-327.18	547.24	1.38
Landing Point	6917.00	89.72	160.80	6315.53	756.64	-462.42	638.75	3.19
Deepend TVD	10104.00	89.89	161.35	6317.15	3947.18	-1806.42	1850.16	0.54
Wellbore	16122.42	90.18	156.84	6291.00	9965.81	-8242.89	3787.23	0.84
Wellbore	16809.61	89.45	157.84	6291.00	10640.09	-8854.20	4033.88	0.36
Final Survey	17904.00	89.40	156.10	6296.60	11730.14	-10966.51	4479.83	1.25
Projection to TD	17932.00	89.40	156.10	6296.50	11738.04	-10988.11	4481.17	0.00



CONTROLLED	
Plan ref:	CNX SHR-37P-HSM Surveys OR to 17932ft
Drawing ref:	
Copy number:	3
Date:	06-Jun-2022
Drawn By:	G. Shannon
Check number:	

03/17/2023

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	16930.00	89.55	156.99	6292.16	5435.16	10760.23	-9975.31	4080.22	0.67	0.19	-0.64	303727.41	1623489.38	39.32625372	-80.83098572
	17023.00	89.71	155.78	6292.76	5435.76	10852.92	-10060.52	4117.47	1.31	0.17	-1.30	303642.20	1623526.63	39.32602132	-80.83084960
	17116.00	89.48	155.08	6293.42	5436.42	10945.48	-10145.09	4156.14	0.79	-0.25	-0.75	303557.63	1623565.30	39.32579072	-80.83070850
	17210.00	89.62	155.39	6294.15	5437.15	11039.00	-10230.45	4195.51	0.36	0.15	0.33	303472.28	1623604.67	39.32555801	-80.83056487
	17303.00	89.68	155.61	6294.72	5437.72	11131.57	-10315.07	4234.08	0.25	0.06	0.24	303387.66	1623643.24	39.32532727	-80.83042413
	17397.00	89.32	155.67	6295.54	5438.54	11225.16	-10400.70	4272.85	0.39	-0.38	0.06	303302.04	1623682.00	39.32509379	-80.83028262
	17491.00	89.55	155.85	6296.47	5439.47	11318.76	-10486.41	4311.44	0.31	0.24	0.19	303216.33	1623720.59	39.32486008	-80.83014175
	17584.00	89.92	155.99	6296.90	5439.90	11411.39	-10571.31	4349.39	0.43	0.40	0.15	303131.43	1623758.54	39.32462854	-80.83000320
	17678.00	89.56	155.99	6297.33	5440.33	11505.03	-10657.18	4387.63	0.38	-0.38	0.00	303045.57	1623796.78	39.32439438	-80.82986353
	17772.00	89.65	155.63	6297.97	5440.97	11598.65	-10742.92	4426.15	0.39	0.10	-0.38	302959.83	1623835.30	39.32416056	-80.82972291
	17864.00	89.88	156.24	6298.35	5441.35	11690.29	-10826.92	4463.67	0.71	0.25	0.66	302875.83	1623872.81	39.32393149	-80.82958593
Final Survey	17904.00	89.40	156.10	6298.60	5441.60	11730.14	-10863.51	4479.83	1.25	-1.20	-0.35	302839.25	1623888.97	39.32383170	-80.82952690
Projection to TD	17932.00	89.40	156.10	6298.90	5441.90	11758.04	-10889.11	4491.17	0.00	0.00	0.00	302813.65	1623900.31	39.32376189	-80.82948547

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma
 Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (In)	Casing Diameter (In)	Survey Tool Type	Borehole / Survey
	1	0.000	29.000	1/98.425	17.500	13.375	A020Ga_GYRO-NS-Depth Only	Original Borehole / CNX SHR-37P-HSM Surveys 0ft to 17932ft
	1	29.000	29.000	Act Stns	17.500	13.375	A020Ga_GYRO-NS-Depth Only	Original Borehole / CNX SHR-37P-HSM Surveys 0ft to 17932ft
	1	29.000	365.000	Act Stns	17.500	13.375	A020Ga_GYRO-NS	Original Borehole / CNX SHR-37P-HSM Surveys 0ft to 17932ft
	1	365.000	800.000	Act Stns	17.500	13.375	A001Mb_MWD	Original Borehole / CNX SHR-37P-HSM Surveys 0ft to 17932ft
	1	800.000	5268.000	Act Stns	12.250	9.625	A001Mb_MWD	Original Borehole / CNX SHR-37P-HSM Surveys 0ft to 17932ft
	1	5268.000	17932.000	Act Stns	8.500	5.500	B006Mb_MWD+IGRF	Original Borehole / CNX SHR-37P-HSM Surveys 0ft to 17932ft

...CNX SHR-37 Pad\SHR-37P-HSM\Original Borehole\CNX SHR-37P-HSM Surveys 0ft to 17932ft