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Office of Oil and Gas
FEB 06 2023
WV Department of
Environmental Protection

Schlumberger

Tribune Resources

TRIBUNE RESOURCES

Borehole:	Well:	Field:	Structure:
Original Borehole	HOGE South 8H	WV Wetzel County (NAD 27)	H&P 608

Gravity & Magnetic Parameters
Model: HDGM 2021 Dip: 66.44° Date: 28-Feb-2022
MagDec: -7.99° FS: 51816.534nT Gravity FS: 999.304mgn (9.80665 Based)

Surface Location NAD27 West Virginia State Plane, Northern Zone, US Feet
Lat: N 39 28 47.04 Northing: 359087.1ftUS Grid Conv: -0.763°
Lon: W 80 41 46.81 Easting: 1662320.9ftUS Scale Fact: 0.99994398

Miscellaneous
Slot: HOGE South 8H TVD Ref: RKB (1405.300 ft above MSL)
Plan: Tribune Resources HOGE South 8H Rev2 IC 28Feb22

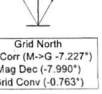
Critical Points

Comments	Survey MD(ft)	Inclination(deg)	Azimuth(deg)	TVD(ft)	VS(ft)	NS(ft)	EW(ft)	Sub-Sea TVD	DLS(°/100ft)
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1,405.30	
Adjusted KB	26.30	0.00	0.00	26.30	0.00	0.00	0.00	-1,379.00	0.00
Last 3rd Party MWD	6,581.30	15.11	32.38	6,487.32	-438.36	692.45	322.63	5,082.02	1.27
First SLB_MWD	6,620.00	14.27	34.91	6,524.76	-442.72	700.62	328.06	5,119.46	2.73
Landing Point	8,039.00	89.42	148.78	7,392.92	322.88	204.58	1,000.10	5,987.62	6.00
Final Survey	19,424.00	90.54	149.69	7,419.13	11,706.45	-9,653.26	6,892.97	6,013.83	1.55
Projection to TD	***19,450.00***	***90.54***	***149.69***	***7,418.89***	***11,732.45***	***-9,675.71***	***6,706.09***	***6,013.59***	***0.00***

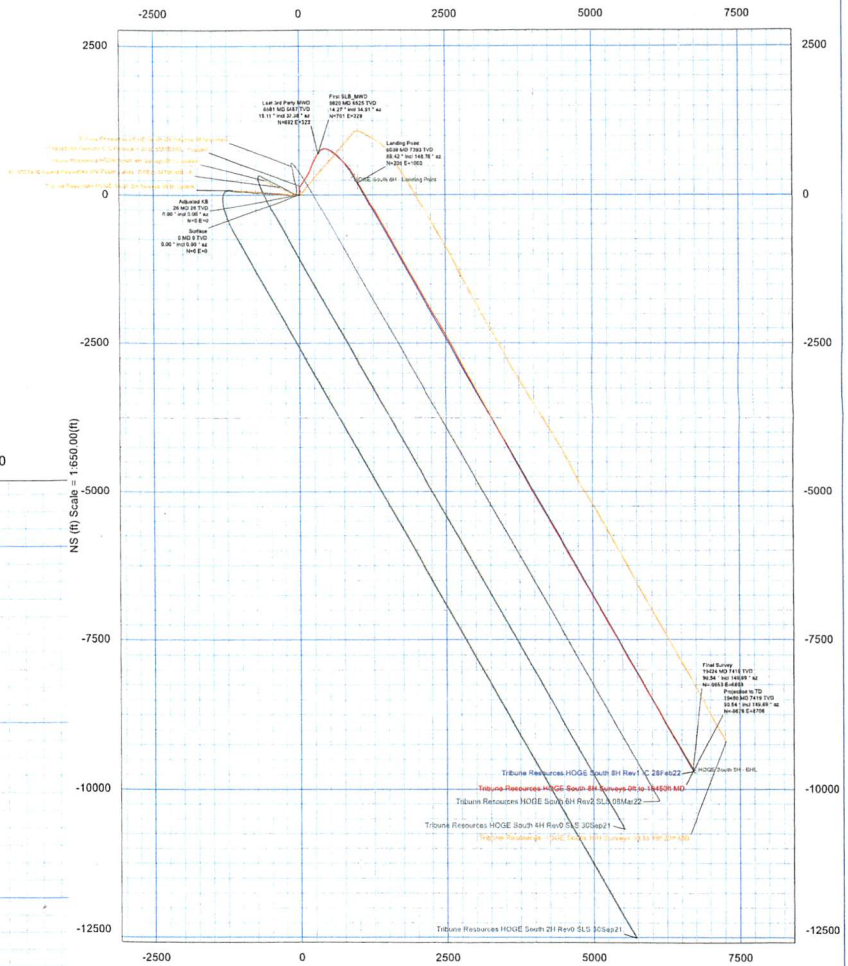
PRN T	Seq.	Survey Tool/ Survey Tool Code	Vendor/Tool	Hole Size (in)	Casing Size (in)	Expected Max Incl (°)	MD From (ft)	MD To (ft)	Survey Frequency (ft)	EOU Size (Semi Major) (ft)	EOU Size (Semi Minor) (ft)	Comments/ Contingency
1	1	A001Mb_MWD		17.5	13.375		0	503		2.823	2.512	
1	2	A001Mb_MWD		12.25	9.625		503	3000		13.032	12.979	
1	3	A001Mb_MWD		8.75	0		3000	6581.3		28.258	22.742	
1	4	A001Mb_MWD		8.5	8.5		6581.3	19484.531	1/100.00	324.083	37.018	

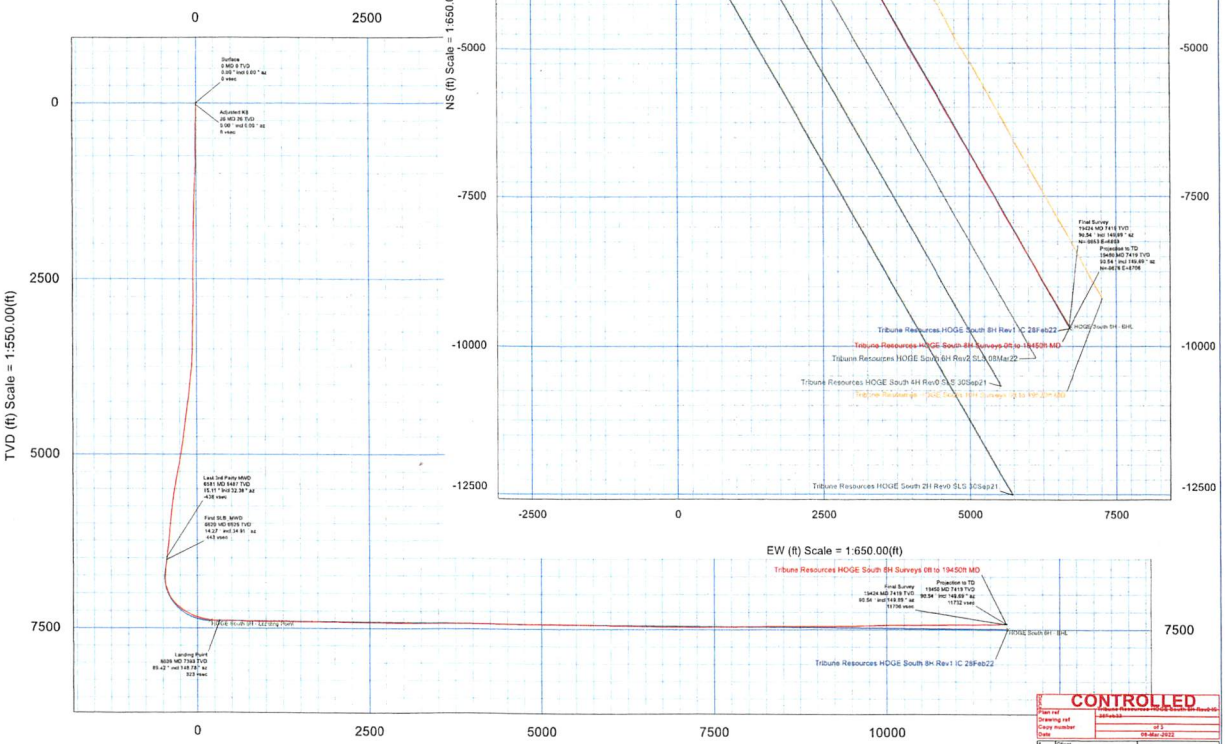
Surface Location
Northing: 359087.09963799 Easting: 1662320.95297743 Latitude: N 39 28 47.04 Longitude: W 80 41 46.81 VSec Azimuth: 150.00

Target Description			Grid Coord						Local Coord	
Target Name	Shape	Dimension	Latitude	Longitude	Northing	Easting	TVD	VSec	N(+)/S(-)	E(+)/W(-)
HOGE South 8H - Landing Point	Point	N/A	N 39 28 50.26	W 80 41 35.09	359401.50	1663244.30	7393.30	188.43	314.42	923.45
HOGE South 8H - BHL	Point	N/A	N 39 27 12.00	W 80 45 19.70	349187.90	1658025.50	7491.21	11752.73	9659.76	6704.09



Grid North
Tot Corr (M->G -7.227°)
Mag Dec (-7.990°)
Grid Conv (-0.763°)





CONTROLLED

Plan ref	Tribune Resources HOGE South 8H Rev2 IC 28Feb22
Drawing ref	
Copy number	of 3
Date	08-Mar-2022
1 Client	
2 Client	
3 Office	
4 Office	
Audit number	Ref

03/17/2023