

30-045-35688



Project: San Juan County, NM
 Site: S9-T23N-R8W
 Well: HEROS 2308 09L COM #1H
 Wellbore: OH
 Design: PLAN #3

PROJECT DETAILS: San Juan County, NM

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone

SITE DETAILS: S9-T23N-R8W

Well Centre Northing: 1906138.82
 Easting: 2763902.48

Positional Uncertainty: 0.00
 Convergence: 0.08
 Local North: True

SHL: 1476' FSL & 210' FWL
 SEC 9 T23N R8W
 BHL: 2274' FNL & 380' FWL
 SEC 16 T23N R8W

LANDING PT / 7' CSG:
 2273' FSL & 380' FWL
 SEC 9 T23N R8W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00	KOP #1 @ 650'
3	1848.96	23.98	4.87	1814.26	246.38	20.99	2.00	4.87	-245.71	EOB; INC=23.98°
4	4643.56	23.98	4.87	4367.67	1378.00	117.41	0.00	0.00	-1374.35	KOP #2 @ 4644' MD/4368' TVD
5	5908.68	90.00	179.35	5261.00	796.26	162.23	9.00	173.96	-791.62	LP @ 5909' MD/5261' TVD; 90°
6	6008.68	90.00	179.35	5261.00	696.27	163.36	0.00	0.00	-691.63	START BUILD
7	6077.90	91.38	179.35	5260.16	627.06	164.15	2.00	0.01	-622.43	EOB; INC=91.38°
8	8176.25	91.38	179.35	5209.47	-1470.54	187.94	0.00	0.00	1475.05	START TURN
9	8323.24	91.37	182.29	5205.94	-1617.46	185.84	2.00	90.28	1621.87	END OF TURN
10	10456.76	91.37	182.29	5155.00	-3748.69	100.58	0.00	0.00	3750.04	PBHL
11	10506.76	91.37	182.29	5153.81	-3798.63	98.58	0.00	0.00	3799.91	50' HOLD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
HEROS 2308 09L PBHL	5155.00	-3748.69	100.58	1902390.28	2764008.41	36° 13' 41.50 N	107° 41' 40.56 W
HEROS 2308 09L TGT	5209.47	-1470.54	187.94	1904868.55	2764092.52	36° 14' 4.03 N	107° 41' 39.50 W
HEROS 2308 09L LP	5261.00	796.14	163.37	1906935.19	2764064.71	36° 14' 26.45 N	107° 41' 39.80 W

CASING DETAILS

TVD	MD	Name	Size
320.00	320.00	9 5/8"	9-5/8
5155.00	10456.76	4 1/2" Liner (2274' FNL, 380' FWL)	4-1/2
5261.00	5908.68	7" (2273' FSL, 380' FWL)	7

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
850.00	850.16	Ojo Alamo
1056.00	1057.37	Kirkland
1186.00	1189.18	Fruitland
1538.00	1552.87	Pictured Cliffs
1647.00	1668.31	Chacra
3019.00	3167.49	Cliff House
3056.00	3207.99	Meneffee
3878.00	4107.63	Point Lookout
4180.00	4438.16	Mancos
4888.00	5180.11	Gallup
5173.00	5569.81	Top Target Zone

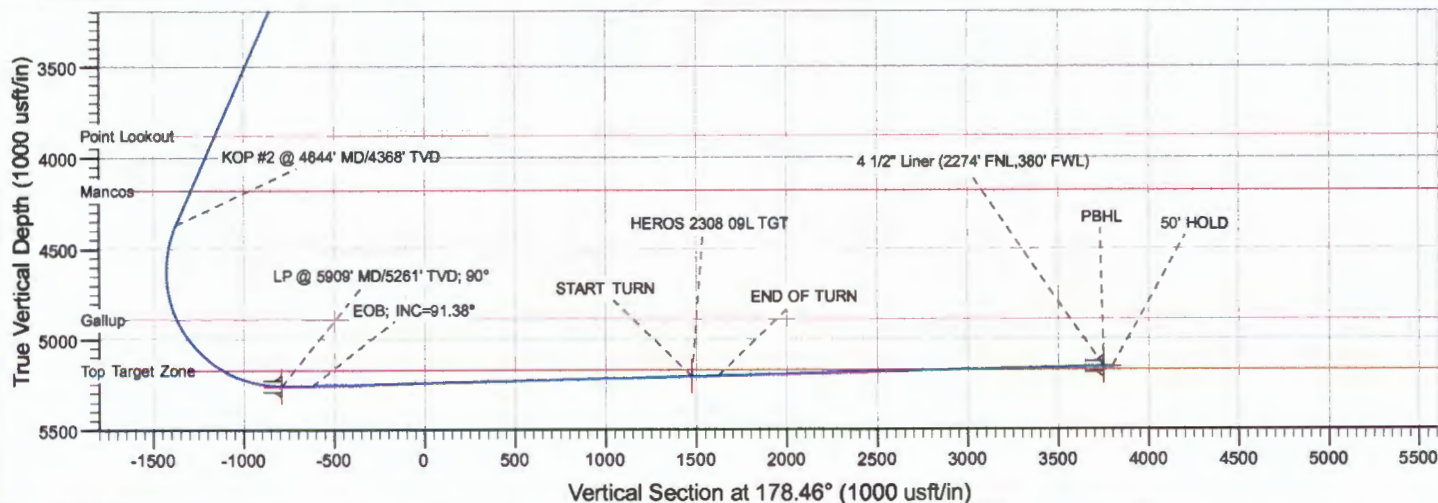
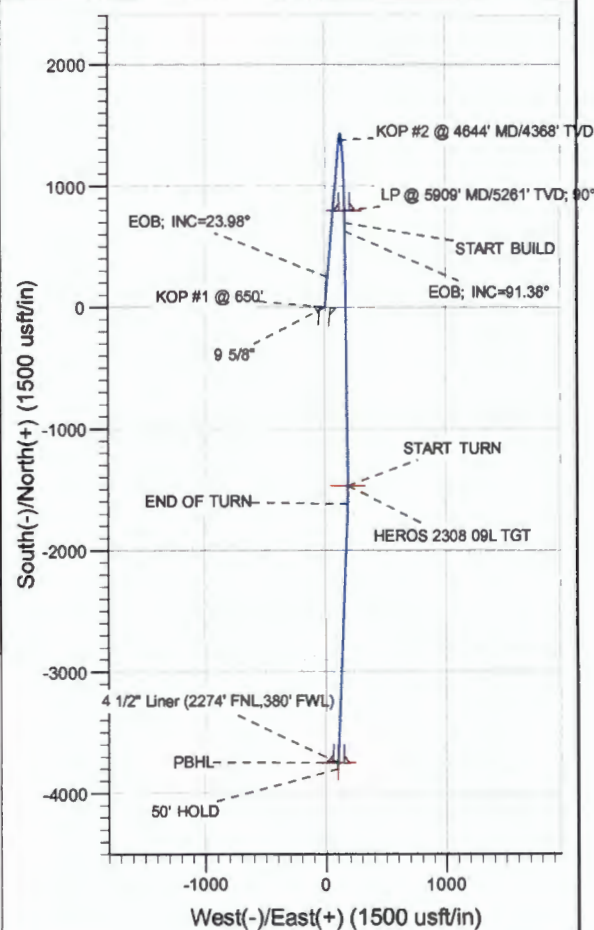


Azimuths to True North
 Magnetic North: 9.00°

Magnetic Field
 Strength: 49687.7nT
 Dip Angle: 62.90°
 Date: 4/7/2017
 Model: HDGM

OIL CONS. DIV DIST. 3

APR 21 2017



WELL DETAILS: HEROS 2308 09L COM #1H

+N/-S 0.00 +E/-W 0.00 Northing 1906138.82 Ground Level: 6916.00 Easting 2763902.48 Latitude 36° 14' 18.57 N Longitude 107° 41' 41.79 W

CATHEDRAL

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