

COG

SURVEY REPORT

DODD FEDERRAL UNIT #983H

TRINIDAD, 436

12/2/2018

This survey is correct to the best of my knowledge and is supported by actual field data.

JAKE ELGER

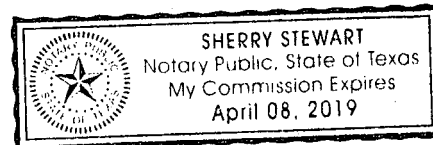
Notarized this date 11th of JANUARY, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



The Ultimate Partner In Wellbore Placement

SURVEY REPORT

DODD FEDERAL UNIT #983H

KEEPER GYRO SURVEY

CUSTOMER
PROJECT

COG
Dodd Federal Unit #983H Keeper Gyro
survey
FIELD N/A

SDI JOB NO.
SDI DISTRICT
SDI KIT/UNIT

OP.014925
Midland

SITE INFORMATION

Site Name Eddy County, New Mexico
Lat/Long 32.8388822° N, 104.0542913° W
Northing 669,009.7 ft
Easting 585,704.9 ft

Section
Township
Range

MAP INFORMATION

North Reference Grid North
Grid Correction -0.15 deg
System US State Plane 1927
Datum North American Datum 1927 (Clarke 1866)
Map Zone New Mexico East: 3001



WELL INFORMATION

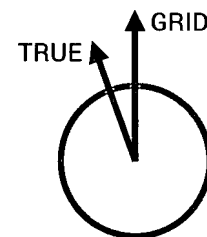
Lat/Long 32.8553523° N, 104.0649101° W
Northing 674,993.2 ft
Easting 582,428.2 ft
UWI 30-015-44808

DEPTH AND ELEVATION REFERENCE

Ground Level 3590 ft above Mean Sea Level
Reference Datum RKB
Reference Height 16.5 ft above G.L.
Reference Elevation 3606.5 ft

VERTICAL SECTION REFERENCE

+N/-S 0 ft
+E/-W 0 ft
Proposal Direction 90.00°
Calculation Method Minimum Curvature



LOCAL GRAVITY REFERENCE INFORMATION

Local Gravity 998.536 mG [computed]
True to Grid subtract 0.15°

WELL NOTES

Dodd Federal Unit #983H Keeper Gyro survey

OPERATORS

Jeffrey Loyd

SDI Operator Name (Printed)

SIGNATURE

DATE



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12/2/2018 5:35 PM Central Standard Time

Page | 1 of 3

MD	INC	AZIM	TVD	VS	+N/S	+E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	2.55	87.43	99.97	2.22	0.10	2.22	2.55	2.22	87.43
125.00	3.38	84.16	124.93	3.51	0.20	3.51	3.38	3.51	86.74
150.00	3.38	82.31	149.89	4.97	0.37	4.97	0.44	4.98	85.71
175.00	3.53	82.19	174.84	6.46	0.58	6.46	0.63	6.49	84.90
200.00	3.16	80.62	199.80	7.91	0.79	7.91	1.53	7.95	84.27
225.00	2.78	82.94	224.77	9.19	0.98	9.19	1.63	9.24	83.91
250.00	2.72	83.70	249.74	10.38	1.12	10.38	0.25	10.44	83.84
275.00	2.67	80.43	274.71	11.55	1.28	11.55	0.65	11.62	83.66
300.00	2.70	82.19	299.68	12.70	1.46	12.70	0.34	12.79	83.45
325.00	2.50	81.96	324.66	13.82	1.62	13.82	0.79	13.92	83.34
350.00	1.22	91.04	349.64	14.63	1.69	14.63	5.24	14.73	83.42
375.00	0.76	97.58	374.64	15.06	1.66	15.06	1.87	15.15	83.71
400.00	0.59	83.82	399.64	15.35	1.65	15.35	0.96	15.44	83.86
425.00	0.61	96.59	424.64	15.61	1.65	15.61	0.54	15.70	83.97
450.00	0.69	96.15	449.64	15.90	1.62	15.90	0.29	15.98	84.19
475.00	0.64	88.13	474.63	16.19	1.61	16.19	0.41	16.27	84.33
500.00	0.72	94.65	499.63	16.48	1.60	16.48	0.43	16.56	84.46
525.00	0.74	96.77	524.63	16.80	1.57	16.80	0.14	16.87	84.67
550.00	0.83	94.23	549.63	17.14	1.53	17.14	0.40	17.21	84.88
575.00	0.88	91.02	574.63	17.51	1.52	17.51	0.27	17.58	85.05
600.00	0.84	84.88	599.62	17.89	1.53	17.89	0.40	17.96	85.11
625.00	0.90	89.94	624.62	18.27	1.55	18.27	0.38	18.34	85.16
650.00	0.92	87.44	649.62	18.67	1.56	18.67	0.17	18.73	85.23
675.00	0.98	85.82	674.61	19.08	1.58	19.08	0.26	19.14	85.26
700.00	0.95	83.13	699.61	19.50	1.62	19.50	0.22	19.56	85.25
725.00	1.02	88.58	724.61	19.92	1.65	19.92	0.48	19.99	85.26
750.00	0.92	86.52	749.60	20.35	1.67	20.35	0.41	20.41	85.31
775.00	0.96	96.77	774.60	20.76	1.66	20.76	0.69	20.82	85.44
800.00	1.09	99.64	799.60	21.20	1.59	21.20	0.55	21.26	85.70
825.00	1.02	91.53	824.59	21.65	1.55	21.65	0.65	21.71	85.91
850.00	0.77	95.72	849.59	22.04	1.52	22.04	1.03	22.10	86.05

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KEEPER GYRO SURVEY

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
865.30	0.62	94.76	864.88	22.23	1.51	22.23	1.02	22.28	86.12