

30-015-42282 MAR 19 2018

COG

SURVEY REPORT

GRAHAM CRACKER 2 STATE #1H

PRECISION 595

11/15/2017

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

Kolton Cotton

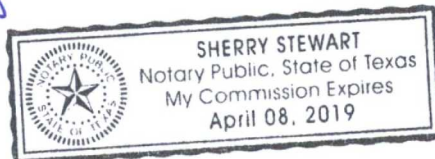
Notarized this date 9 of February, 2018.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



SURVEY REPORT

GRAHAM CRACKER 2 STATE #1H

KEEPER GYRO SURVEY

CUSTOMER
PROJECT
FIELD

COG
Eddy County, New Mexico
N/A

SDI JOB NO.
SDI DISTRICT
SDI KIT/UNIT

OP:005932
Midland

SITE INFORMATION

Site Name
Lat/Long
Northing
Easting

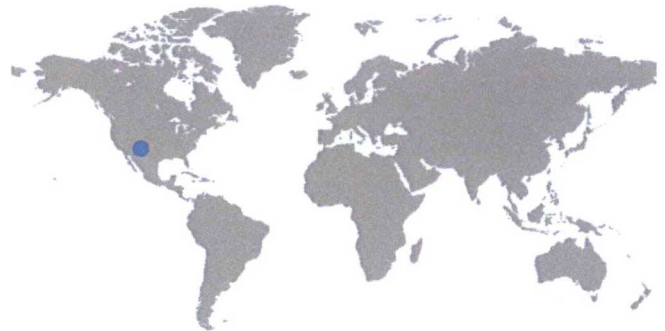
ATLAS
32.0210925° N, 104.0958572° W
371,480.8 ft
573,599.6 ft

Section
Township
Range

MAP INFORMATION

North Reference
Grid Correction
System
Datum
Map Zone

Grid North
-0.13 deg
US State Plane 1927
North American Datum 1927 (Clarke 1866)
New Mexico East: 3001



WELL INFORMATION

Lat/Long
Northing
Easting
UWI

32.0663636° N, 104.0515011° W

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DEPTH AND ELEVATION REFERENCE

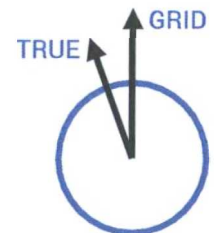
Ground Level
Reference Datum
Reference Height
Reference Elevation

2949 ft above Mean Sea Level
RKB
25 ft above G.L.
2974 ft

VERTICAL SECTION REFERENCE

+N/-S
+E/-W
Proposal Direction
Calculation Method

0 ft
0 ft
5.59°
Minimum Curvature



LOCAL GRAVITY REFERENCE INFORMATION

Local Gravity
True to Grid

998.531 mG [computed]
subtract 0.13°

WELL NOTES

OPERATORS

Jeffrey Loyd

SDI Operator Name (Printed)

SIGNATURE

DATE

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	0.14	181.21	100.00	-0.12	-0.12	0.00	0.14	0.12	181.21
125.00	0.11	168.07	125.00	-0.17	-0.17	0.00	0.16	0.17	179.44
150.00	0.13	208.57	150.00	-0.22	-0.22	-0.01	0.34	0.22	181.83
175.00	0.13	195.35	175.00	-0.28	-0.28	-0.03	0.12	0.28	185.90
200.00	0.12	163.35	200.00	-0.33	-0.33	-0.03	0.28	0.33	184.97
225.00	0.15	139.24	225.00	-0.38	-0.38	0.00	0.26	0.38	179.88
250.00	0.17	197.00	250.00	-0.44	-0.44	0.01	0.62	0.44	178.43
275.00	0.12	194.89	275.00	-0.50	-0.50	-0.01	0.17	0.50	180.62
300.00	0.11	190.30	300.00	-0.55	-0.55	-0.02	0.06	0.55	181.73
325.00	0.13	203.44	325.00	-0.60	-0.60	-0.03	0.15	0.60	183.11
350.00	0.18	114.45	350.00	-0.64	-0.64	-0.01	0.89	0.64	180.78
375.00	0.24	101.25	375.00	-0.66	-0.67	0.08	0.31	0.67	173.31
400.00	0.45	85.21	400.00	-0.65	-0.67	0.23	0.90	0.71	161.31
425.00	0.54	71.02	425.00	-0.58	-0.62	0.44	0.61	0.76	145.14
450.00	0.66	82.24	450.00	-0.50	-0.57	0.69	0.69	0.89	129.41
475.00	0.79	80.60	474.99	-0.42	-0.52	1.00	0.50	1.13	117.37
500.00	0.89	55.28	499.99	-0.25	-0.38	1.33	1.52	1.39	105.96
525.00	1.25	31.91	524.99	0.12	-0.04	1.64	2.25	1.64	91.36
550.00	1.15	46.57	549.98	0.56	0.37	1.96	1.29	2.00	79.43
575.00	1.16	48.64	574.98	0.93	0.71	2.33	0.17	2.44	73.18
600.00	1.20	44.11	599.97	1.32	1.06	2.71	0.40	2.91	68.60
625.00	1.27	44.08	624.97	1.74	1.45	3.08	0.27	3.40	64.84
650.00	1.30	49.41	649.96	2.16	1.83	3.49	0.49	3.94	62.32
675.00	1.31	50.43	674.95	2.57	2.20	3.92	0.10	4.49	60.77
700.00	1.39	51.38	699.95	2.98	2.57	4.38	0.34	5.08	59.63
725.00	1.23	41.81	724.94	3.41	2.95	4.79	1.09	5.63	58.36
750.00	1.16	40.19	749.93	3.83	3.35	5.14	0.29	6.13	56.90
775.00	1.22	50.48	774.93	4.23	3.71	5.51	0.89	6.64	56.02
800.00	1.28	51.63	799.92	4.61	4.05	5.93	0.26	7.18	55.64
825.00	1.19	50.87	824.92	4.99	4.39	6.35	0.38	7.72	55.33
850.00	1.21	52.78	849.91	5.35	4.72	6.76	0.18	8.24	55.11

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
875.00	1.27	54.89	874.91	5.71	5.03	7.20	0.31	8.79	55.04
900.00	1.32	50.87	899.90	6.10	5.38	7.65	0.42	9.35	54.90
925.00	1.28	56.84	924.89	6.47	5.71	8.11	0.57	9.92	54.84
950.00	1.23	56.43	949.89	6.82	6.01	8.57	0.18	10.47	54.93
975.00	1.32	55.17	974.88	7.17	6.33	9.03	0.35	11.02	54.98
1000.00	1.36	54.28	999.87	7.56	6.66	9.50	0.18	11.60	54.96
1025.00	1.32	50.35	1024.87	7.96	7.02	9.96	0.39	12.19	54.84
1050.00	1.38	51.45	1049.86	8.37	7.39	10.42	0.27	12.78	54.66
1075.00	1.42	54.44	1074.85	8.79	7.76	10.91	0.33	13.39	54.58
1100.00	1.45	54.64	1099.84	9.20	8.12	11.42	0.11	14.02	54.58
1125.00	1.36	51.03	1124.84	9.61	8.49	11.91	0.51	14.63	54.51
1150.00	1.31	52.76	1149.83	10.02	8.85	12.37	0.25	15.21	54.41
1175.00	1.48	50.72	1174.82	10.44	9.23	12.85	0.71	15.82	54.30
1200.00	1.37	52.39	1199.82	10.87	9.62	13.33	0.51	16.44	54.20
1225.00	1.22	48.15	1224.81	11.27	9.98	13.77	0.69	17.00	54.07
1250.00	1.26	50.54	1249.80	11.66	10.33	14.18	0.27	17.55	53.92
1275.00	1.29	49.37	1274.80	12.06	10.69	14.61	0.15	18.10	53.80
1300.00	1.34	48.91	1299.79	12.48	11.06	15.04	0.19	18.67	53.66
1325.00	1.40	51.52	1324.78	12.90	11.45	15.50	0.36	19.27	53.55
1350.00	1.44	46.63	1349.78	13.35	11.85	15.97	0.51	19.88	53.41
1375.00	1.29	43.01	1374.77	13.81	12.27	16.39	0.68	20.47	53.17
1400.00	1.25	45.53	1399.76	14.24	12.67	16.77	0.28	21.02	52.93
1425.00	1.20	41.59	1424.76	14.67	13.06	17.14	0.40	21.55	52.70
1450.00	1.06	41.08	1449.75	15.07	13.43	17.47	0.55	22.03	52.45
1475.00	1.07	50.11	1474.75	15.42	13.75	17.80	0.67	22.49	52.31
1500.00	0.95	48.34	1499.74	15.74	14.04	18.13	0.50	22.93	52.25
1525.00	0.98	42.68	1524.74	16.06	14.33	18.43	0.40	23.35	52.13
1550.00	1.14	45.26	1549.74	16.42	14.67	18.75	0.68	23.81	51.97
1575.00	1.24	44.87	1574.73	16.83	15.03	19.12	0.41	24.32	51.83
1600.00	1.41	44.45	1599.72	17.28	15.45	19.53	0.68	24.90	51.66
1625.00	1.42	41.87	1624.72	17.76	15.90	19.95	0.26	25.51	51.45
1643.00	1.52	45.97	1642.71	18.13	16.23	20.27	0.84	25.97	51.32