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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-43458	¹ Pool Code 98117	¹ Pool Name WC025 G09 S263504N;Wolfcamp
¹ Property Code 314797	¹ Property Name TALCO 9 26 35 Fed	¹ Well Number 3H
¹ OGRID No. 270329	¹ Operator Name ENDURANCE RESOURCES, LLC	¹ Elevation 3174.3

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	9	26 S	35 E		2440	NORTH	2280	EAST	LEA

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	4	26 S	35 E		330	NORTH	2320	EAST	LEA

11 Dedicated Acres 240	12 Joint or Infill	13 Consolidation Code	14 Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW CORNER SEC. 4
 LAT. = 32°04'46.537"N
 LONG. = 103°22'51.548"W

N/4 CORNER SEC. 4
 LAT. = 32°04'46.508"N
 LONG. = 103°22'20.829"W

W/4 CORNER SEC. 4
 LAT. = 32°04'20.371"N
 LONG. = 103°22'51.498"W

SECTION CORNER
 LAT. = 32°03'54.245"N
 LONG. = 103°22'51.488"W

W/4 CORNER SEC. 9
 LAT. = 32°03'28.137"N
 LONG. = 103°22'51.424"W

SW CORNER SEC. 9
 LAT. = 32°03'01.980"N
 LONG. = 103°22'51.402"W

S/4 CORNER SEC. 9
 LAT. = 32°03'01.959"N
 LONG. = 103°22'20.889"W

NE CORNER SEC. 4
 LAT. = 32°04'46.494"N
 LONG. = 103°21'50.124"W

E/4 CORNER SEC. 4
 LAT. = 32°04'20.351"N
 LONG. = 103°21'50.104"W

SECTION CORNER
 LAT. = 32°03'54.218"N
 LONG. = 103°21'50.080"W

E/4 CORNER SEC. 9
 LAT. = 32°03'28.066"N
 LONG. = 103°21'50.038"W

SE CORNER SEC. 9
 LAT. = 32°03'01.928"N
 LONG. = 103°21'50.000"W

BOTTOM OF HOLE
 LAT. = 32°04'43.241"N
 LONG. = 103°22'16.617"W

SURFACE LOCATION
 2280'

TALCO #8H
 ELEV. = 3174.3'
 LAT. = 32°03'30.105"N (NAD83)
 LONG. = 103°22'16.529"W

NOTE:
 LATITUDE AND LONGITUDE COORDINATES ARE SHOWN
 USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) IN
 DEGREES, MINUTES, SECONDS FORMAT. BASIS OF BEARING
 IS NEW MEXICO STATE PLANE EAST (NAD83) COORDINATES
 MODIFIED TO SURFACE. ELEVATION VALUES ARE NAVD 88.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unassessed mineral interest in the land including the proposed bottom hole location or has a right to drill disinterested at this location pursuant to a contract with an owner of such a mineral working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Tim L. Tilton* Date: 3-10-2011

Printed Name: TIM L. TILTON

E-mail Address: tilton@cerklaw.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 15, 2011

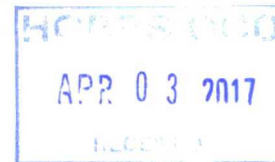
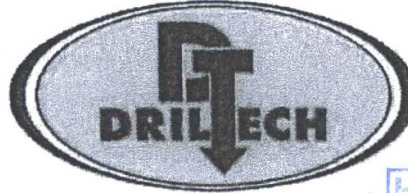
Date of Survey

NEW MEXICO
 12797

Signature: *Tim L. Tilton*

Certificate Number: 12797

SURVEY NO. 4818



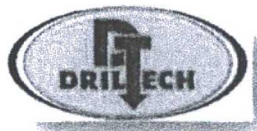
State of New Mexico

County of Lea

I, Paul Miller, certify that I am employed by DrilTech, LLC. I did on the day(s) of 12/3/16 through 12/17/16 conduct or supervise the taking of the 96 survey(s) from a measured depth of 11,894 feet to a measured depth of 19,722 feet. The data is true, correct, complete, and within the limitations of the tool as set forth by DrilTech, LLC. I am authorized and qualified to make this report, and this/these survey(s) was/were conducted at the request of Endurance Resources, LLC. for the Talco 9 26 35 Fed #3H ST1 API No. 30-025-434580100 in Lea County, New Mexico. I have reviewed this report, and find that it conforms to the principles and procedures as set forth by DrilTech, LLC.

SIGNATURE

DATE



DrilTech, LLC

MWD Survey Report

Job No: DM-2016-063-ENDT-N

Operator: **Endurance Resources, LLC**
Well Name: **Talco 9 26 35 Fed #3H ST1**
Location: **Lea County, New Mexico**
Rig: **NorAm 23**
Directional Drilling Co: **DrilTech, LLC**
Well API #: **30025434580100**
Tie Into: **DrilTech, LLC**
Tie-In Date: **12/3/2016**
Date Completed: **12/17/2016**

Reference Coordinates: LAT:

32	°	3	'	30.1050	"	N
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LON:

103	°	22	'	16.5290	"	W
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Reference Grid Coordinates: X: 839386.00 (ft)
Y: 386298.00 (ft)

Reference Grid: **NAD 83**
Zone: **New Mexico Eastern Zone**
(UTM or Lambert): **Lambert**

Survey Vertical Reference: **27.70 (ft)** Rotary Table to Ground Level
Elevation: **3174.13 (ft)** Ground Level to Mean Sea Level
Vertical Section Plane: **359.43 (deg)**

North Alignment: **Grid North**

<u>Magnetic Data</u>	<u>Section 1</u>	<u>Section 2</u>	<u>Section 3</u>	<u>Section 4</u>
Magnetic Declination (deg)	6.92			
Grid (deg)	0.51			
TOTAL CORRECTION (deg)	6.41			
Depth Start (MD Ft)	11894.00			
Depth End (MD Ft)	19722.00			

REMARKS:

SIDETRACK

DRILTECH MWD SURVEY REPORT



Company: Endurance Resources, LLC
 Well: Talco 9 26 35 Fed #3H ST1
 Location: Lea County, New Mexico
 Rig: NorAm 23

Job Number: DM-2016-063-ENDT-NM
 Vertical Section Plane: 359.43
 Well API Number: 300254345580100
 Tie Into: DrilTech, LLC

Calculation Method: Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Tie In	MWD	11894.00	2.80	344.80	94	11891.27	11.99	11.83 N	15.41 W	19.43	307.52	0.34	0.21	-5.74
1	MWD	11983.00	7.70	358.10	89	11979.87	20.05	19.89 N	16.18 W	25.64	320.88	5.64	5.51	14.94
2	MWD	12030.00	10.70	2.40	47	12026.26	27.56	27.40 N	16.10 W	31.78	329.56	6.54	6.38	-756.81
3	MWD	12077.00	13.20	3.70	47	12072.24	37.27	37.12 N	15.57 W	40.25	337.24	5.35	5.32	2.77
4	MWD	12124.00	16.10	1.70	47	12117.71	49.13	48.99 N	15.03 W	51.24	342.94	6.26	6.17	-4.26
5	MWD	12172.00	19.90	359.30	48	12163.35	63.96	63.81 N	14.93 W	65.54	346.83	8.06	7.92	745.00
6	MWD	12219.00	24.10	359.60	47	12206.92	81.56	81.42 N	15.10 W	82.80	349.49	8.94	8.94	0.64
7	MWD	12266.00	27.10	0.40	47	12249.30	101.87	101.72 N	15.09 W	102.83	351.56	6.43	6.38	-764.26
8	MWD	12313.00	30.60	1.80	47	12290.46	124.53	124.39 N	14.64 W	125.25	353.29	7.58	7.45	2.98
9	MWD	12361.00	34.30	1.20	48	12330.96	150.26	150.13 N	13.97 W	150.78	354.68	7.74	7.71	-1.25
10	MWD	12408.00	39.50	359.90	47	12368.53	178.47	178.34 N	13.72 W	178.87	355.60	11.19	11.06	763.19
11	MWD	12455.00	42.30	358.90	47	12404.05	209.24	209.11 N	14.05 W	209.58	356.16	6.12	5.96	-2.13
12	MWD	12502.00	44.60	359.50	47	12438.17	241.56	241.42 N	14.50 W	241.86	356.56	4.97	4.89	1.28
13	MWD	12550.00	49.40	1.30	48	12470.90	276.64	276.52 N	14.23 W	276.88	357.05	10.37	10.00	-746.25
14	MWD	12597.00	53.50	1.50	47	12500.18	313.37	313.25 N	13.33 W	313.54	357.56	8.73	8.72	0.43
15	MWD	12644.00	56.40	0.30	47	12527.17	351.83	351.72 N	12.74 W	351.95	357.93	6.51	6.17	-2.55
16	MWD	12691.00	59.70	0.70	47	12552.04	391.70	391.59 N	12.38 W	391.79	358.19	7.06	7.02	0.85
17	MWD	12738.00	63.80	1.00	47	12574.28	433.08	432.98 N	11.77 W	433.14	358.44	8.74	8.72	0.64
18	MWD	12785.00	69.20	0.40	47	12593.02	476.15	476.06 N	11.25 W	476.20	358.65	11.55	11.49	-1.28
19	MWD	12832.00	72.40	359.70	47	12608.47	520.53	520.44 N	11.21 W	520.56	358.77	6.95	6.81	764.41
20	MWD	12879.00	74.60	358.60	47	12621.82	565.59	565.50 N	11.88 W	565.62	358.80	5.19	4.68	-2.34
21	MWD	12927.00	77.60	357.70	48	12633.35	612.17	612.06 N	13.39 W	612.21	358.75	6.51	6.25	-1.88
22	MWD	12974.00	77.90	357.40	47	12643.32	658.07	657.95 N	15.35 W	658.13	358.66	0.89	0.64	-0.64
23	MWD	13021.00	82.30	358.50	47	12651.40	704.34	704.21 N	17.00 W	704.41	358.62	9.64	9.36	2.34
24	MWD	13068.00	87.00	360.00	47	12655.78	751.12	750.99 N	17.61 W	751.19	358.66	10.49	10.00	3.19
25	MWD	13115.00	89.60	360.00	47	12657.18	798.10	797.96 N	17.61 W	798.16	358.74	5.53	5.53	0.00
26	MWD	13210.00	91.30	358.00	95	12656.43	893.08	892.94 N	19.27 W	893.14	358.76	2.76	1.79	-2.11
27	MWD	13304.00	86.40	351.30	94	12658.32	986.66	986.43 N	28.02 W	986.82	358.37	8.83	-5.21	-7.13
28	MWD	13398.00	90.60	354.60	94	12660.78	1079.99	1079.65 N	39.55 W	1080.37	357.90	5.68	4.47	3.51
29	MWD	13493.00	90.10	357.80	95	12660.20	1174.82	1174.43 N	45.84 W	1175.32	357.76	3.41	-0.53	3.37
30	MWD	13588.00	89.20	0.80	95	12660.78	1269.81	1269.41 N	47.00 W	1270.28	357.88	3.30	-0.95	-375.79
31	MWD	13682.00	91.50	357.60	94	12660.21	1363.79	1363.38 N	48.32 W	1364.23	357.97	4.19	2.45	379.57
32	MWD	13776.00	87.60	356.60	94	12660.94	1457.69	1457.23 N	53.07 W	1458.20	357.91	4.28	-4.15	-1.06
33	MWD	13871.00	86.60	358.60	95	12665.75	1552.51	1552.02 N	57.04 W	1553.07	357.90	2.35	-1.05	2.11



DRILTECH MWD SURVEY REPORT

Company: Endurance Resources, LLC
 Well: Talco 9 26 35 Fed #3H ST1
 Location: Lea County, New Mexico
 Rig: NorAm 23

Job Number: DM-2016-063-ENDT-NM
 Vertical Section Plane: 359.43
 Well API Number: 300254345580100
 Tie Into: DrilTech, LLC

Calculation Method: Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
34	MWD	13965.00	88.60	1.30	94	12669.69	1646.41	1645.93 N	57.12 W	1646.92	358.01	3.57	2.13	-380.11
35	MWD	14060.00	91.50	2.10	95	12669.61	1741.33	1740.87 N	54.31 W	1741.72	358.21	3.17	3.05	0.84
36	MWD	14154.00	92.20	1.80	94	12666.57	1835.19	1834.77 N	51.11 W	1835.48	358.40	0.81	0.74	-0.32
37	MWD	14249.00	91.70	1.00	95	12663.34	1930.08	1929.69 N	48.79 W	1930.30	358.55	0.99	-0.53	-0.84
38	MWD	14343.00	89.60	1.30	94	12662.27	2024.02	2023.66 N	46.90 W	2024.20	358.67	2.26	-2.23	0.32
39	MWD	14437.00	90.00	1.70	94	12662.60	2117.96	2117.62 N	44.44 W	2118.09	358.80	0.60	0.43	0.43
40	MWD	14532.00	91.30	2.30	95	12661.52	2212.86	2212.56 N	41.13 W	2212.94	358.94	1.51	1.37	0.63
41	MWD	14626.00	90.40	1.80	94	12660.13	2306.75	2306.48 N	37.77 W	2306.79	359.06	1.10	-0.96	-0.53
42	MWD	14720.00	89.20	1.00	94	12660.46	2400.69	2400.45 N	35.47 W	2400.72	359.15	1.53	-1.28	-0.85
43	MWD	14815.00	92.00	1.40	95	12659.46	2495.63	2495.42 N	33.48 W	2495.64	359.23	2.98	2.95	0.42
44	MWD	14909.00	91.50	0.90	94	12656.59	2589.54	2589.35 N	31.59 W	2589.55	359.30	0.75	-0.53	-0.53
45	MWD	15003.00	90.20	358.30	94	12655.20	2683.52	2683.33 N	32.25 W	2683.53	359.31	3.09	-1.38	380.21
46	MWD	15098.00	90.70	356.60	95	12654.45	2778.46	2778.23 N	36.48 W	2778.47	359.25	1.87	0.53	-1.79
47	MWD	15192.00	93.80	358.90	94	12650.76	2872.33	2872.07 N	40.17 W	2872.35	359.20	4.11	3.30	2.45
48	MWD	15286.00	91.50	357.40	94	12646.41	2966.19	2965.91 N	43.20 W	2966.22	359.17	2.92	-2.45	-1.60
49	MWD	15381.00	92.60	0.20	95	12643.01	3061.11	3060.82 N	45.19 W	3061.15	359.15	3.16	1.16	-376.00
50	MWD	15475.00	86.80	1.00	94	12643.51	3155.05	3154.77 N	44.20 W	3155.08	359.20	6.23	-6.17	0.85
51	MWD	15570.00	86.70	0.70	95	12648.89	3249.87	3249.61 N	42.80 W	3249.89	359.25	0.33	-0.11	-0.32
52	MWD	15664.00	91.50	2.30	94	12650.37	3343.77	3343.53 N	40.34 W	3343.77	359.31	5.38	5.11	1.70
53	MWD	15758.00	90.90	1.10	94	12648.40	3437.67	3437.47 N	37.55 W	3437.67	359.37	1.43	-0.64	-1.28
54	MWD	15853.00	91.50	1.00	95	12646.41	3532.61	3532.43 N	35.81 W	3532.61	359.42	0.64	0.63	-0.11
55	MWD	15947.00	91.50	0.20	94	12643.95	3626.56	3626.39 N	34.82 W	3626.56	359.45	0.85	0.00	-0.85
56	MWD	16041.00	93.70	3.60	94	12639.68	3720.36	3720.22 N	31.71 W	3720.36	359.51	4.30	2.34	3.62
57	MWD	16136.00	90.70	3.40	95	12636.04	3815.04	3814.97 N	25.92 W	3815.05	359.61	3.16	-3.16	-0.21
58	MWD	16230.00	88.50	357.70	94	12636.69	3908.97	3908.92 N	25.02 W	3909.00	359.63	6.50	-2.34	376.91
59	MWD	16324.00	88.50	358.20	94	12639.15	4002.91	4002.82 N	28.38 W	4002.92	359.59	0.53	0.00	0.53
60	MWD	16419.00	88.80	358.40	95	12641.56	4097.86	4097.75 N	31.20 W	4097.87	359.56	0.24	0.11	0.21
61	MWD	16513.00	88.80	357.20	94	12643.69	4191.79	4191.65 N	34.80 W	4191.80	359.52	1.29	0.21	-1.28
62	MWD	16607.00	91.10	355.70	94	12643.77	4285.66	4285.47 N	40.62 W	4285.66	359.46	2.92	2.45	-1.60
63	MWD	16702.00	93.60	357.30	95	12639.88	4380.44	4380.20 N	46.42 W	4380.44	359.39	3.12	2.63	1.68
64	MWD	16796.00	91.90	359.00	94	12635.37	4474.30	4474.03 N	49.45 W	4474.31	359.37	2.56	-1.81	1.81
65	MWD	16890.00	90.30	358.90	94	12633.56	4568.28	4568.00 N	51.17 W	4568.28	359.36	1.71	-1.70	-0.11
66	MWD	16984.00	91.00	4.80	94	12632.50	4662.15	4661.90 N	48.14 W	4662.15	359.41	6.32	0.74	-376.70
67	MWD	17079.00	90.40	7.20	95	12631.34	4756.51	4756.37 N	38.21 W	4756.52	359.54	2.60	-0.63	2.53
68	MWD	17173.00	90.50	11.20	94	12630.60	4849.13	4849.13 N	23.18 W	4849.19	359.73	4.26	0.11	4.26
69	MWD	17268.00	89.70	8.10	95	12630.43	4942.61	4942.78 N	7.26 W	4942.78	359.92	3.37	-0.84	-3.26
70	MWD	17362.00	89.10	359.70	94	12631.42	5036.23	5036.47 N	0.87 W	5036.47	359.99	8.96	-0.64	374.04

Job Number:	DM-2016-063-ENDT-NM
Vertical Section Plane:	359.43
Well API Number:	300254345580100
Tie Into:	DrilTech, LLC

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
								N/S (ft)	E/W (ft)		Distance (ft)	Angle (deg)				
71	MWD	17456.00	91.20	359.60	94	12631.17	5130.22	5130.46	N	1.45	W	5130.46	359.98	2.24	2.23	-0.11
72	MWD	17551.00	87.80	352.90	95	12632.00	5225.01	5225.19	N	7.65	W	5225.19	359.92	7.91	-3.58	-7.05
73	MWD	17645.00	92.50	357.60	94	12631.75	5318.70	5318.81	N	15.43	W	5318.84	359.83	7.07	5.00	5.00
74	MWD	17740.00	91.80	355.70	95	12628.19	5413.52	5413.58	N	20.98	W	5413.62	359.78	2.13	-0.74	-2.00
75	MWD	17834.00	86.70	349.10	94	12629.42	5506.72	5506.66	N	33.40	W	5506.76	359.65	8.87	-5.43	-7.02
76	MWD	17929.00	89.70	352.30	95	12632.41	5600.55	5600.35	N	48.74	W	5600.56	359.50	4.62	3.16	3.37
77	MWD	18023.00	92.90	357.50	94	12630.27	5694.19	5693.91	N	57.09	W	5694.19	359.43	6.49	3.40	5.53
78	MWD	18117.00	92.70	358.50	94	12625.68	5788.05	5787.73	N	60.37	W	5788.05	359.40	1.08	-0.21	1.06
79	MWD	18212.00	90.60	356.00	95	12622.94	5882.93	5882.57	N	64.92	W	5882.93	359.37	3.44	-2.21	-2.63
80	MWD	18307.00	90.40	356.80	95	12622.12	5977.79	5977.38	N	70.89	W	5977.80	359.32	0.87	-0.21	0.84
81	MWD	18401.00	93.60	0.30	94	12618.83	6071.70	6071.27	N	73.27	W	6071.71	359.31	5.04	3.40	-379.26
82	MWD	18495.00	90.70	358.50	94	12615.31	6165.62	6165.18	N	74.25	W	6165.63	359.31	3.63	-3.09	381.06
83	MWD	18590.00	89.20	357.40	95	12615.39	6260.58	6260.12	N	77.65	W	6260.60	359.29	1.96	-1.58	-1.16
84	MWD	18684.00	87.80	356.80	94	12617.85	6354.47	6353.96	N	82.40	W	6354.50	359.26	1.62	-1.49	-0.64
85	MWD	18779.00	88.40	357.70	95	12621.00	6449.34	6448.80	N	86.96	W	6449.38	359.23	1.14	0.63	0.95
86	MWD	18873.00	89.50	359.10	94	12622.72	6543.31	6542.74	N	89.58	W	6543.36	359.22	1.89	1.17	1.49
87	MWD	18968.00	89.30	356.30	95	12623.72	6638.25	6637.65	N	93.39	W	6638.31	359.19	2.95	-0.21	-2.95
88	MWD	19062.00	89.10	353.50	94	12625.03	6731.94	6731.26	N	101.75	W	6732.03	359.13	2.99	-0.21	-2.98
89	MWD	19156.00	91.70	357.30	94	12624.38	6825.68	6824.93	N	109.29	W	6825.80	359.08	4.90	2.77	4.04
90	MWD	19250.00	91.20	359.60	94	12622.00	6919.63	6918.86	N	111.83	W	6919.76	359.07	2.50	-0.53	2.45
91	MWD	19344.00	91.20	2.10	94	12620.03	7013.57	7012.82	N	110.43	W	7013.69	359.10	2.66	0.00	-380.32
92	MWD	19439.00	90.90	355.20	95	12618.28	7108.49	7107.72	N	112.67	W	7108.61	359.09	7.27	-0.32	371.68
93	MWD	19533.00	92.50	1.90	94	12615.49	7202.38	7201.59	N	115.05	W	7202.51	359.08	7.32	1.70	-375.6