

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-47039	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 326330	⁵ Property Name WTG FED COM	⁶ Well Number 217H
⁷ OGRID No. #372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 2885'

¹⁰Surface Location

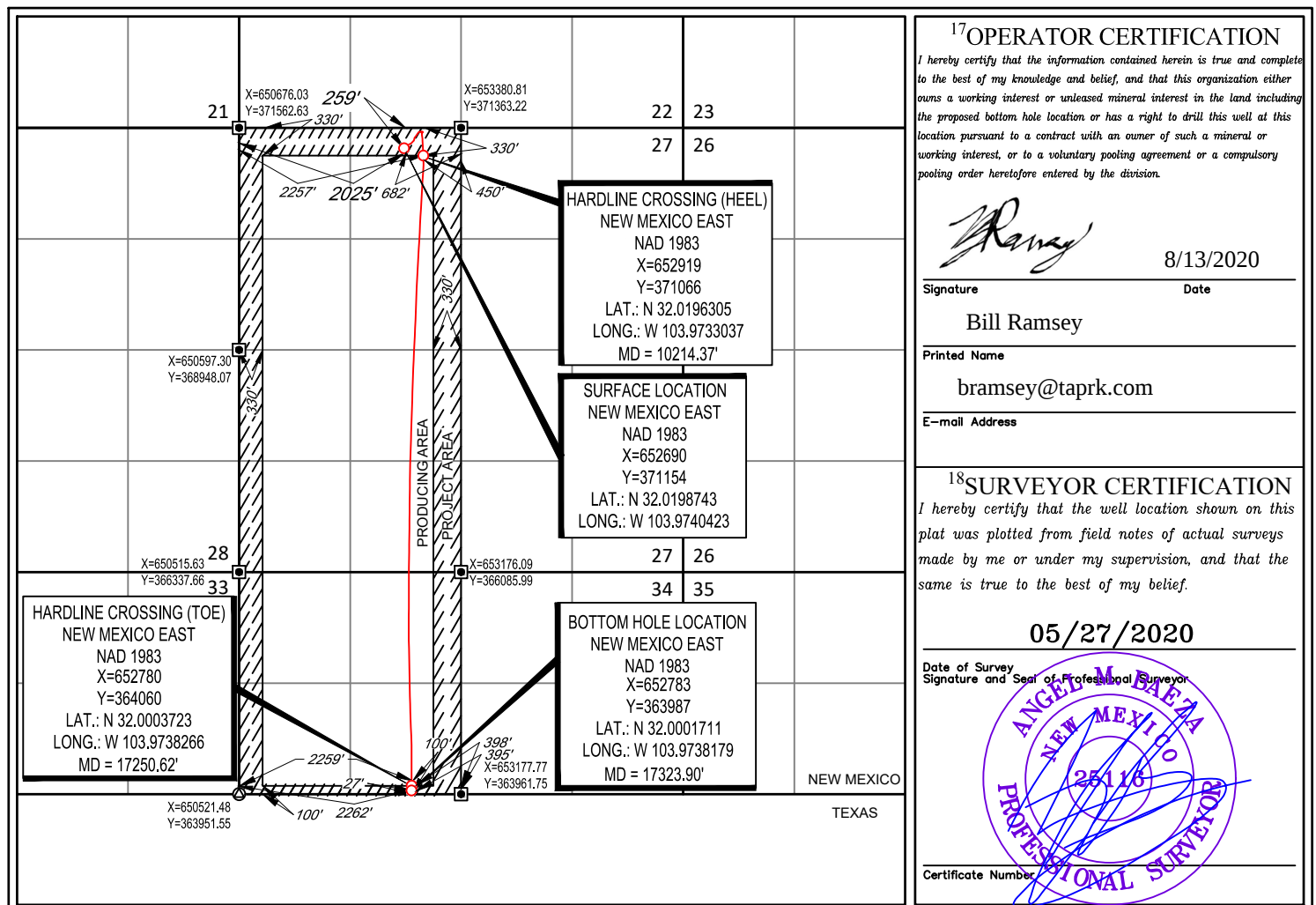
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	26-S	29-E	-	259'	NORTH	2025'	WEST	EDDY

¹¹Bottom 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
10	34	26-S	29-E	-	27'	SOUTH	2262'	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

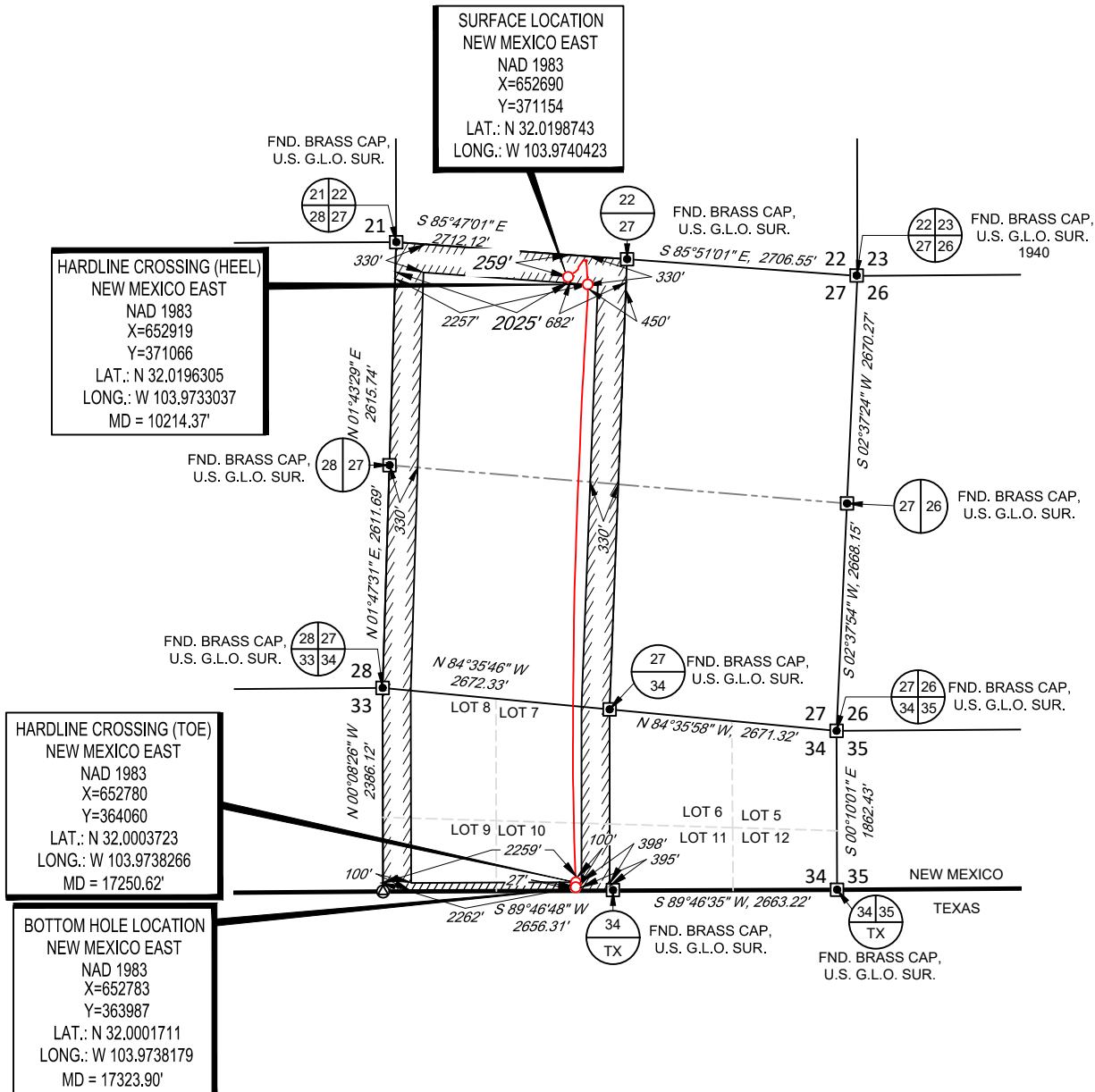
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SCALE: 1" = 2000'

0' 1000' 2000'

SECTION 27, TOWNSHIP 26-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: WTG FED COM 217H

SECTION 27 TWP 26-S RGE 29-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM ELEVATION 2885'

DESCRIPTION 259' FNL & 2025' FWL

INTERNAL
PRE-COMPLETION
PLAT



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

WTG FED COM 217H PRE-COMPLETION	REVISION:	
	INT	DATE
DATE: 07/29/2020		
FILE: C_WTG_FED COM_217H		
DRAWN BY: H.B.		
SHEET: 1 OF 1		

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



Tap Rock Resources, LLC

**Eddy County, NM (NAD 83 NME)
(WTG Fed) Sec-27_T26-S_R-29-E
WTG Fed Com #217H**

OWB

Design: AWB

Standard Survey Report

13 July, 2020





Operator: Taprock Resources LLC
Well Name: WTG Fed Com #217H
County: Eddy
State: New Mexico
Rig Name: H&P 388
API#: 30-015-47039

Intrepid Directional Drilling Specialists certifies that the surveys performed on the above referenced well are true and correct MWD surveys, data provided as follows:

Surveyor: Intrepid Directional Drilling Specialists
Survey Depths: 181' MD – 17256' MD
Projection to Bit: 17325' MD
Dates Performed: 07/03/2020 – 07/14/2020
Type of Survey: MWD

Sincerely,

A handwritten signature in blue ink, appearing to read "James Burleson".

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #217H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #217H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project	Eddy County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(WTG Fed) Sec-27_T26-S_R-29-E		
Site Position:		Northing:	371,035.00 usft
From:	Map	Easting:	651,080.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 10.419 N
		Longitude:	103° 58' 45.255 W
		Grid Convergence:	0.19 °

Well	WTG Fed Com #217H		
Well Position	+N/-S	0.0 usft	Northing: 371,154.00 usft
	+E/-W	0.0 usft	Easting: 652,690.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 1' 11.545 N
		Longitude:	103° 58' 26.549 W
		Ground Level:	2,886.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	06/23/20	6.67	59.58	47,650.98012325

Design	AWB				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	181.69	

Survey Program	Date	07/13/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
181.0	17,325.0	Intrepid MWD (OWB)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
181.0	0.44	284.39	181.0	0.2	-0.7	-0.2	0.24	0.24	0.00
242.0	0.35	15.62	242.0	0.4	-0.8	-0.4	0.93	-0.15	149.56
333.0	0.66	24.94	333.0	1.2	-0.6	-1.1	0.35	0.34	10.24
515.0	1.32	10.96	515.0	4.2	0.3	-4.2	0.38	0.36	-7.68
541.0	1.38	7.08	541.0	4.8	0.4	-4.8	0.41	0.21	-14.90
Rustler Anhydrite									
572.0	1.45	2.88	571.9	5.5	0.4	-5.5	0.41	0.24	-13.57
689.0	2.15	0.24	688.9	9.2	0.5	-9.2	0.60	0.60	-2.26
781.0	3.03	31.97	780.8	13.0	1.8	-13.0	1.79	0.96	34.49
873.0	3.03	47.47	872.7	16.7	4.9	-16.8	0.89	0.00	16.85

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Well:	WTG Fed Com #217H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
925.4	2.90	47.55	925.0	18.5	6.9	-18.7	0.24	-0.24	0.16
Top Salt									
1,055.0	2.59	47.79	1,054.5	22.7	11.5	-23.0	0.24	-0.24	0.18
1,146.0	2.55	52.80	1,145.4	25.3	14.6	-25.7	0.25	-0.04	5.51
1,241.0	2.37	49.46	1,240.3	27.9	17.8	-28.4	0.24	-0.19	-3.52
1,336.0	1.80	62.20	1,335.2	29.8	20.6	-30.4	0.77	-0.60	13.41
1,431.0	1.67	51.74	1,430.2	31.4	23.0	-32.1	0.36	-0.14	-11.01
1,526.0	1.58	60.71	1,525.1	32.9	25.3	-33.6	0.28	-0.09	9.44
1,621.0	1.76	77.23	1,620.1	33.9	27.8	-34.7	0.54	0.19	17.39
1,716.0	2.59	82.94	1,715.0	34.4	31.4	-35.4	0.90	0.87	6.01
1,811.0	2.29	86.28	1,809.9	34.8	35.4	-35.9	0.35	-0.32	3.52
1,906.0	2.07	89.62	1,904.9	35.0	39.0	-36.1	0.27	-0.23	3.52
2,001.0	2.20	63.78	1,999.8	35.8	42.4	-37.0	1.01	0.14	-27.20
2,096.0	2.42	49.02	2,094.7	37.9	45.5	-39.2	0.67	0.23	-15.54
2,191.0	1.76	58.34	2,189.7	40.0	48.3	-41.4	0.78	-0.69	9.81
2,286.0	2.86	72.13	2,284.6	41.5	51.8	-43.0	1.29	1.16	14.52
2,381.0	3.52	63.43	2,379.4	43.5	56.6	-45.2	0.86	0.69	-9.16
2,476.0	4.00	60.09	2,474.2	46.5	62.1	-48.3	0.56	0.51	-3.52
2,571.0	4.75	67.12	2,569.0	49.6	68.6	-51.6	0.97	0.79	7.40
2,650.3	5.18	69.81	2,648.0	52.2	75.0	-54.3	0.62	0.55	3.39
Base Salt									
2,666.0	5.27	70.29	2,663.6	52.6	76.3	-54.9	0.62	0.55	3.06
2,762.0	3.96	54.20	2,759.3	56.1	83.2	-58.5	1.91	-1.36	-16.76
2,857.0	3.74	36.27	2,854.1	60.5	87.7	-63.0	1.28	-0.23	-18.87
2,890.0	3.56	39.05	2,887.0	62.2	89.0	-64.7	0.76	-0.54	8.42
Delaware Mountain Gp									
2,920.0	3.41	41.82	2,917.0	63.5	90.1	-66.2	0.76	-0.52	9.24
Lamar									
2,921.1	3.40	41.92	2,918.0	63.6	90.2	-66.2	0.76	-0.50	9.67
Bell Canyon									
2,952.0	3.25	45.06	2,948.9	64.9	91.4	-67.6	0.76	-0.49	10.14
2,961.1	3.25	45.06	2,958.0	65.3	91.8	-67.9	0.00	0.00	0.00
Ramsey Sand									
3,115.0	3.21	44.80	3,111.6	71.4	97.9	-74.2	0.03	-0.03	-0.17
3,210.0	3.21	45.15	3,206.5	75.2	101.7	-78.1	0.02	0.00	0.37
3,306.0	3.03	45.33	3,302.3	78.8	105.4	-81.9	0.19	-0.19	0.19
3,399.0	3.21	47.96	3,395.2	82.3	109.0	-85.5	0.25	0.19	2.83
3,494.0	3.16	50.34	3,490.1	85.8	113.0	-89.1	0.15	-0.05	2.51
3,589.0	3.30	37.68	3,584.9	89.6	116.7	-93.0	0.76	0.15	-13.33
3,684.0	4.13	14.39	3,679.7	95.1	119.2	-98.5	1.79	0.87	-24.52
3,777.0	3.65	14.57	3,772.5	101.2	120.8	-104.7	0.52	-0.52	0.19
3,821.6	3.56	12.12	3,817.0	103.9	121.5	-107.4	0.40	-0.20	-5.49
Cherry Canyon									
3,869.0	3.47	9.38	3,864.3	106.8	122.0	-110.3	0.40	-0.19	-5.78

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Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,959.0	3.38	5.60	3,954.2	112.1	122.7	-115.7	0.27	-0.10	-4.20
4,050.0	3.91	14.48	4,045.0	117.8	123.8	-121.4	0.85	0.58	9.76
4,141.0	5.80	35.75	4,135.7	124.5	127.2	-128.2	2.83	2.08	23.37
4,236.0	5.80	36.27	4,230.2	132.3	132.9	-136.1	0.06	0.00	0.55
4,329.0	5.41	36.80	4,322.7	139.6	138.3	-143.6	0.42	-0.42	0.57
4,421.0	5.49	36.80	4,414.3	146.6	143.5	-150.7	0.09	0.09	0.00
4,515.0	5.71	35.13	4,507.9	154.0	148.9	-158.3	0.29	0.23	-1.78
4,608.0	5.32	35.22	4,600.4	161.3	154.0	-165.8	0.42	-0.42	0.10
4,703.0	5.14	35.48	4,695.0	168.4	159.0	-173.0	0.19	-0.19	0.27
4,798.0	5.45	33.81	4,789.6	175.6	164.0	-180.3	0.36	0.33	-1.76
4,893.0	5.19	33.11	4,884.2	182.9	168.9	-187.8	0.28	-0.27	-0.74
4,988.0	4.26	45.68	4,978.9	189.0	173.8	-194.0	1.46	-0.98	13.23
5,082.0	4.13	71.61	5,072.7	192.5	179.5	-197.7	2.01	-0.14	27.59
5,175.0	3.52	73.63	5,165.4	194.4	185.4	-199.7	0.67	-0.66	2.17
5,268.0	3.43	77.06	5,258.3	195.8	190.8	-201.3	0.24	-0.10	3.69
5,360.0	3.52	81.54	5,350.1	196.8	196.3	-202.5	0.31	0.10	4.87
5,456.0	3.16	85.49	5,445.9	197.5	201.9	-203.3	0.44	-0.38	4.11
5,479.1	3.04	86.47	5,469.0	197.5	203.1	-203.4	0.56	-0.51	4.23
Brushy Canyon									
5,551.0	2.68	90.06	5,540.8	197.7	206.7	-203.7	0.56	-0.50	5.00
5,646.0	2.33	92.61	5,635.7	197.6	210.8	-203.7	0.39	-0.37	2.68
5,741.0	2.33	94.63	5,730.7	197.3	214.7	-203.6	0.09	0.00	2.13
5,836.0	2.29	95.25	5,825.6	197.0	218.5	-203.4	0.05	-0.04	0.65
5,929.0	1.76	112.30	5,918.5	196.3	221.7	-202.7	0.86	-0.57	18.33
6,025.0	1.58	174.97	6,014.5	194.4	223.2	-200.9	1.82	-0.19	65.28
6,120.0	1.63	176.55	6,109.4	191.7	223.4	-198.3	0.07	0.05	1.66
6,215.0	1.93	176.11	6,204.4	188.8	223.5	-195.3	0.32	0.32	-0.46
6,309.0	1.19	252.13	6,298.4	186.9	222.7	-193.4	2.14	-0.79	80.87
6,403.0	1.93	281.31	6,392.3	186.9	220.2	-193.3	1.13	0.79	31.04
6,497.0	1.63	271.73	6,486.3	187.3	217.4	-193.6	0.45	-0.32	-10.19
6,580.7	1.28	266.06	6,570.0	187.3	215.2	-193.5	0.46	-0.42	-6.77
Bone Spring Lime									
6,592.0	1.23	265.05	6,581.3	187.2	215.0	-193.5	0.46	-0.41	-8.96
6,687.0	1.14	219.44	6,676.2	186.4	213.4	-192.6	0.97	-0.09	-48.01
6,708.8	1.17	213.11	6,698.0	186.1	213.1	-192.3	0.60	0.13	-29.08
Upper Avalon									
6,783.0	1.36	194.74	6,772.2	184.6	212.5	-190.8	0.60	0.26	-24.75
6,878.0	0.57	247.04	6,867.2	183.3	211.8	-189.5	1.17	-0.83	55.05
6,973.0	0.40	230.60	6,962.2	182.9	211.1	-189.1	0.23	-0.18	-17.31
7,067.0	0.84	158.97	7,056.2	182.1	211.1	-188.2	0.86	0.47	-76.20
7,092.8	0.84	157.75	7,082.0	181.7	211.2	-187.9	0.07	0.00	-4.72
Middle Avalon									
7,162.0	0.84	154.49	7,151.2	180.8	211.6	-186.9	0.07	0.00	-4.72
7,257.0	1.05	175.85	7,246.2	179.3	212.0	-185.5	0.43	0.22	22.48

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,294.8	0.96	164.59	7,284.0	178.6	212.1	-184.8	0.57	-0.23	-29.76
Lower Avalon									
7,352.0	0.92	144.91	7,341.2	177.8	212.5	-184.0	0.57	-0.08	-34.42
7,447.0	0.92	6.92	7,436.2	177.9	213.0	-184.1	1.81	0.00	-145.25
7,541.0	1.45	2.35	7,530.1	179.9	213.1	-186.1	0.57	0.56	-4.86
7,588.9	1.45	5.02	7,578.0	181.1	213.2	-187.3	0.14	0.00	5.57
1st Bone Spring Sand									
7,634.0	1.45	7.53	7,623.1	182.2	213.3	-188.4	0.14	0.00	5.57
7,730.0	1.14	1.73	7,719.1	184.4	213.5	-190.6	0.35	-0.32	-6.04
7,825.0	1.10	3.05	7,814.1	186.2	213.6	-192.4	0.05	-0.04	1.39
7,876.9	0.73	339.88	7,866.0	187.0	213.5	-193.2	0.99	-0.70	-44.61
2nd Bone Spring Carb									
7,920.0	0.62	304.52	7,909.1	187.4	213.2	-193.6	0.99	-0.27	-82.12
8,015.0	0.92	271.47	8,004.1	187.7	212.0	-193.9	0.55	0.32	-34.79
8,109.0	1.23	254.77	8,098.0	187.5	210.3	-193.6	0.47	0.33	-17.77
8,139.0	1.20	244.02	8,128.0	187.3	209.7	-193.4	0.77	-0.11	-35.88
2nd Bone Spring Sand									
8,204.0	1.27	220.93	8,193.0	186.4	208.6	-192.5	0.77	0.11	-35.50
8,299.0	0.97	164.33	8,288.0	184.9	208.2	-190.9	1.15	-0.32	-59.58
8,395.0	2.37	145.61	8,384.0	182.4	209.5	-188.5	1.55	1.46	-19.50
8,486.0	1.85	119.51	8,474.9	180.2	211.9	-186.3	1.19	-0.57	-28.68
8,581.0	1.23	93.67	8,569.9	179.3	214.2	-185.6	0.96	-0.65	-27.20
8,676.0	0.70	50.51	8,664.8	179.6	215.7	-185.9	0.91	-0.56	-45.43
8,745.2	0.10	49.03	8,734.0	179.9	216.0	-186.2	0.87	-0.87	-2.14
3rd Bone Spring Carb									
8,771.0	0.13	232.01	8,759.8	179.9	216.0	-186.2	0.87	0.13	-684.87
8,866.0	0.62	284.48	8,854.8	180.0	215.5	-186.3	0.58	0.52	55.23
8,961.0	0.66	191.23	8,949.8	179.6	214.8	-185.9	0.98	0.04	-98.16
9,055.0	1.10	190.52	9,043.8	178.2	214.6	-184.4	0.47	0.47	-0.76
9,151.0	1.10	191.14	9,139.8	176.4	214.2	-182.6	0.01	0.00	0.65
9,246.0	1.19	194.21	9,234.8	174.5	213.8	-180.7	0.11	0.09	3.23
9,341.0	1.19	193.34	9,329.8	172.6	213.3	-178.8	0.02	0.00	-0.92
9,409.2	1.22	194.35	9,398.0	171.2	213.0	-177.4	0.05	0.04	1.49
3rd Bone Spring Sand									
9,436.0	1.23	194.74	9,424.8	170.7	212.9	-176.9	0.05	0.04	1.44
9,527.0	1.41	193.60	9,515.7	168.6	212.3	-174.8	0.20	0.20	-1.25
9,623.0	1.71	182.70	9,611.7	166.0	212.0	-172.2	0.44	0.31	-11.35
9,687.0	3.25	174.97	9,675.6	163.3	212.1	-169.5	2.46	2.41	-12.08
9,719.5	7.43	172.34	9,708.0	160.3	212.5	-166.5	12.87	12.85	-8.09
3rd BS W Sand									
9,782.0	15.47	171.27	9,769.2	148.0	214.3	-154.3	12.87	12.87	-1.71
9,812.1	17.73	171.60	9,798.0	139.5	215.6	-145.8	7.52	7.51	1.08
Wolfcamp A X Sand									
9,875.0	22.46	172.07	9,857.1	118.1	218.6	-124.5	7.52	7.52	0.75
9,925.6	27.01	176.33	9,903.0	97.1	220.7	-103.6	9.65	8.99	8.43

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #217H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #217H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Wolfcamp A Y Sand									
9,970.0	31.08	179.10	9,941.8	75.5	221.5	-82.0	9.65	9.17	6.23
10,050.6	38.46	176.49	10,008.0	29.7	223.4	-36.2	9.34	9.15	-3.24
Wolfcamp A Lower									
10,065.0	39.78	176.11	10,019.2	20.6	224.0	-27.2	9.34	9.19	-2.62
10,161.0	48.48	177.95	10,088.0	-46.1	227.3	39.4	9.16	9.06	1.92
10,214.7	53.25	177.00	10,121.9	-87.7	229.2	80.9	8.99	8.89	-1.78
FTP @ 10214.7'MD, 330'FNL & 449.5'FEL									
10,254.0	56.75	176.37	10,144.4	-119.8	231.1	113.0	8.99	8.90	-1.59
10,346.0	66.81	181.82	10,187.9	-200.7	232.2	193.8	12.11	10.93	5.92
10,438.0	76.75	184.19	10,216.7	-287.9	227.5	281.0	11.08	10.80	2.58
10,530.0	80.66	183.49	10,234.7	-377.9	221.5	371.2	4.31	4.25	-0.76
10,622.0	90.51	182.96	10,241.7	-469.3	216.3	462.8	10.72	10.71	-0.58
10,716.0	89.67	184.02	10,241.6	-563.2	210.6	556.7	1.44	-0.89	1.13
10,776.0	87.30	183.05	10,243.2	-623.0	206.9	616.7	4.27	-3.95	-1.62
10,837.1	87.41	183.17	10,246.0	-684.0	203.6	677.7	0.27	0.18	0.19
Wolfcamp B									
10,869.0	87.47	183.23	10,247.4	-715.8	201.8	709.5	0.27	0.18	0.19
10,964.0	89.27	183.49	10,250.1	-810.6	196.3	804.4	1.91	1.89	0.27
11,059.0	90.42	182.70	10,250.4	-905.4	191.1	899.4	1.47	1.21	-0.83
11,154.0	90.07	182.88	10,250.0	-1,000.3	186.5	994.4	0.41	-0.37	0.19
11,249.0	90.42	182.79	10,249.6	-1,095.2	181.8	1,089.4	0.38	0.37	-0.09
11,344.0	92.44	184.28	10,247.2	-1,190.0	176.0	1,184.3	2.64	2.13	1.57
11,440.0	90.20	183.05	10,245.0	-1,285.8	169.8	1,280.2	2.66	-2.33	-1.28
11,534.0	89.05	183.14	10,245.6	-1,379.6	164.7	1,374.2	1.23	-1.22	0.10
11,628.0	88.09	182.96	10,247.9	-1,473.5	159.7	1,468.1	1.04	-1.02	-0.19
11,723.0	88.57	182.52	10,250.7	-1,568.3	155.2	1,563.1	0.69	0.51	-0.46
11,816.0	89.10	182.61	10,252.6	-1,661.2	151.0	1,656.0	0.58	0.57	0.10
11,912.0	89.23	182.00	10,254.0	-1,757.1	147.2	1,752.0	0.65	0.14	-0.64
12,007.0	89.71	182.00	10,254.9	-1,852.1	143.9	1,847.0	0.51	0.51	0.00
12,103.0	91.38	182.26	10,254.0	-1,948.0	140.3	1,943.0	1.76	1.74	0.27
12,198.0	90.68	182.35	10,252.3	-2,042.9	136.5	2,038.0	0.74	-0.74	0.09
12,293.0	90.51	182.35	10,251.3	-2,137.8	132.6	2,133.0	0.18	-0.18	0.00
12,388.0	90.33	182.61	10,250.6	-2,232.7	128.5	2,228.0	0.33	-0.19	0.27
12,483.0	89.76	182.96	10,250.5	-2,327.6	123.9	2,322.9	0.70	-0.60	0.37
12,578.0	89.98	182.70	10,250.7	-2,422.5	119.2	2,417.9	0.36	0.23	-0.27
12,674.0	90.51	183.05	10,250.3	-2,518.4	114.4	2,513.9	0.66	0.55	0.36
12,769.0	90.55	182.44	10,249.4	-2,613.2	109.8	2,608.9	0.64	0.04	-0.64
12,864.0	91.43	181.56	10,247.8	-2,708.2	106.5	2,703.9	1.31	0.93	-0.93
12,960.0	91.47	181.65	10,245.4	-2,804.1	103.8	2,799.8	0.10	0.04	0.09
13,055.0	91.08	181.91	10,243.2	-2,899.0	100.9	2,894.8	0.49	-0.41	0.27
13,150.0	90.46	181.91	10,242.0	-2,994.0	97.7	2,989.8	0.65	-0.65	0.00
13,245.0	90.20	181.91	10,241.4	-3,088.9	94.5	3,084.8	0.27	-0.27	0.00
13,340.0	89.76	182.00	10,241.5	-3,183.9	91.3	3,179.8	0.47	-0.46	0.09

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #217H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #217H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,435.0	91.12	181.65	10,240.7	-3,278.8	88.3	3,274.8	1.48	1.43	-0.37
13,530.0	91.56	181.73	10,238.5	-3,373.7	85.5	3,369.8	0.47	0.46	0.08
13,625.0	91.21	181.82	10,236.2	-3,468.7	82.5	3,464.7	0.38	-0.37	0.09
13,721.0	90.68	182.00	10,234.6	-3,564.6	79.3	3,560.7	0.58	-0.55	0.19
13,817.0	90.37	182.17	10,233.7	-3,660.5	75.8	3,656.7	0.37	-0.32	0.18
13,912.0	90.46	181.12	10,233.1	-3,755.5	73.1	3,751.7	1.11	0.09	-1.11
14,007.0	91.34	180.68	10,231.6	-3,850.5	71.6	3,846.7	1.04	0.93	-0.46
14,102.0	91.34	180.77	10,229.3	-3,945.4	70.4	3,941.6	0.09	0.00	0.09
14,198.0	90.86	180.68	10,227.5	-4,041.4	69.2	4,037.6	0.51	-0.50	-0.09
14,293.0	90.64	180.59	10,226.3	-4,136.4	68.1	4,132.6	0.25	-0.23	-0.09
14,388.0	90.64	180.59	10,225.2	-4,231.4	67.2	4,227.6	0.00	0.00	0.00
14,483.0	90.29	180.50	10,224.4	-4,326.4	66.3	4,322.5	0.38	-0.37	-0.09
14,578.0	89.41	180.59	10,224.7	-4,421.4	65.3	4,417.5	0.93	-0.93	0.09
14,673.0	89.10	180.86	10,225.9	-4,516.4	64.1	4,512.5	0.43	-0.33	0.28
14,768.0	90.73	180.50	10,226.1	-4,611.3	63.0	4,607.5	1.76	1.72	-0.38
14,863.0	90.77	180.59	10,224.8	-4,706.3	62.1	4,702.5	0.10	0.04	0.09
14,958.0	90.42	180.86	10,223.8	-4,801.3	60.9	4,797.4	0.47	-0.37	0.28
15,053.0	90.02	180.59	10,223.5	-4,896.3	59.7	4,892.4	0.51	-0.42	-0.28
15,147.0	89.58	180.42	10,223.8	-4,990.3	58.9	4,986.4	0.50	-0.47	-0.18
15,242.0	90.33	180.06	10,223.9	-5,085.3	58.5	5,081.4	0.88	0.79	-0.38
15,338.0	90.99	180.06	10,222.8	-5,181.3	58.4	5,177.3	0.69	0.69	0.00
15,432.0	91.08	180.06	10,221.1	-5,275.3	58.3	5,271.3	0.10	0.10	0.00
15,527.0	90.46	180.33	10,219.8	-5,370.3	58.0	5,366.2	0.71	-0.65	0.28
15,623.0	90.33	180.33	10,219.1	-5,466.3	57.4	5,462.2	0.14	-0.14	0.00
15,717.0	90.37	180.33	10,218.5	-5,560.3	56.9	5,556.2	0.04	0.04	0.00
15,812.0	89.89	180.33	10,218.3	-5,655.3	56.3	5,651.1	0.51	-0.51	0.00
15,907.0	89.27	179.98	10,219.0	-5,750.3	56.1	5,746.1	0.75	-0.65	-0.37
16,002.0	90.73	178.66	10,219.0	-5,845.2	57.2	5,841.0	2.07	1.54	-1.39
16,097.0	90.51	178.83	10,218.0	-5,940.2	59.3	5,935.9	0.29	-0.23	0.18
16,191.0	90.42	178.83	10,217.2	-6,034.2	61.2	6,029.8	0.10	-0.10	0.00
16,286.0	91.16	178.92	10,215.9	-6,129.2	63.1	6,124.6	0.78	0.78	0.09
16,381.0	92.75	179.01	10,212.7	-6,224.1	64.8	6,219.5	1.68	1.67	0.09
16,476.0	92.97	179.10	10,207.9	-6,319.0	66.3	6,314.3	0.25	0.23	0.09
16,571.0	91.21	178.57	10,204.5	-6,413.9	68.3	6,409.1	1.93	-1.85	-0.56
16,666.0	90.95	178.75	10,202.7	-6,508.8	70.5	6,503.9	0.33	-0.27	0.19
16,761.0	90.73	178.83	10,201.3	-6,603.8	72.5	6,598.8	0.25	-0.23	0.08
16,856.0	89.27	178.22	10,201.3	-6,698.8	74.9	6,693.6	1.67	-1.54	-0.64
16,951.0	89.89	178.04	10,202.0	-6,793.7	78.0	6,788.5	0.68	0.65	-0.19
17,046.0	89.10	177.52	10,202.8	-6,888.6	81.7	6,883.2	1.00	-0.83	-0.55
17,141.0	88.40	177.52	10,204.9	-6,983.5	85.8	6,978.0	0.74	-0.74	0.00
17,251.4	87.68	177.68	10,208.7	-7,093.8	90.4	7,088.0	0.67	-0.65	0.15
LTP @ 17251.4'MD, 100'FSL & 397.3'FEL									
17,256.0	87.65	177.69	10,208.9	-7,098.4	90.6	7,092.6	0.67	-0.65	0.15

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #217H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #217H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
LAST SVY									
17,325.0	87.65	177.69	10,211.7	-7,167.2	93.4	7,161.4	0.00	0.00	0.00
Projection to TD @ 17325'MD, 26.5'FSL & 394.3'FEL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
LTP (WTG Fed Com #	0.00	0.00	10,195.0	-7,094.0	59.0	364,060.00	652,749.00	32° 0' 1.339 N	103° 58' 26.138 W
- actual wellpath misses target center by 34.3usft at 17249.9usft MD (10208.6 TVD, -7092.2 N, 90.4 E)									
- Point									
PBHL (WTG Fed Corr	-0.50	179.86	10,195.0	-7,164.0	59.0	363,990.00	652,749.00	32° 0' 0.646 N	103° 58' 26.140 W
- actual wellpath misses target center by 38.0usft at 17319.7usft MD (10211.5 TVD, -7161.9 N, 93.2 E)									
- Rectangle (sides W100.0 H2,142.0 D40.0)									
PI (WTG Fed Com #2	-0.50	181.69	10,213.0	-5,023.0	54.0	366,131.00	652,744.00	32° 0' 21.834 N	103° 58' 26.116 W
- actual wellpath misses target center by 11.9usft at 15179.7usft MD (10224.0 TVD, -5023.0 N, 58.7 E)									
- Rectangle (sides W100.0 H4,942.0 D40.0)									
FTP (WTG Fed Com #	0.00	0.00	10,253.0	-85.0	200.0	371,069.00	652,890.00	32° 1' 10.697 N	103° 58' 24.229 W
- actual wellpath misses target center by 115.2usft at 10274.4usft MD (10155.3 TVD, -137.0 N, 232.0 E)									
- Point									

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #217H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #217H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
541.0	541.0	Rustler Anhydrite			
925.4	925.0	Top Salt			
2,650.3	2,648.0	Base Salt			
2,890.0	2,887.0	Delaware Mountain Gp			
2,920.0	2,917.0	Lamar			
2,921.1	2,918.0	Bell Canyon			
2,961.1	2,958.0	Ramsey Sand			
3,821.6	3,817.0	Cherry Canyon			
5,479.1	5,469.0	Brushy Canyon			
6,580.7	6,570.0	Bone Spring Lime			
6,708.8	6,698.0	Upper Avalon			
7,092.8	7,082.0	Middle Avalon			
7,294.8	7,284.0	Lower Avalon			
7,588.9	7,578.0	1st Bone Spring Sand			
7,876.9	7,866.0	2nd Bone Spring Carb			
8,139.0	8,128.0	2nd Bone Spring Sand			
8,745.2	8,734.0	3rd Bone Spring Carb			
9,409.2	9,398.0	3rd Bone Spring Sand			
9,719.5	9,708.0	3rd BS W Sand			
9,812.1	9,798.0	Wolfcamp A X Sand			
9,925.6	9,903.0	Wolfcamp A Y Sand			
10,050.6	10,008.0	Wolfcamp A Lower			
10,837.1	10,246.0	Wolfcamp B			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,214.7	10,121.9	-87.7	229.2	FTP @ 10214.7'MD, 330'FNL & 449.5'FEL
17,251.4	10,208.7	-7,093.8	90.4	LTP @ 17251.4'MD, 100'FSL & 397.3'FEL
17,256.0	10,208.9	-7,098.4	90.6	LAST SVY
17,325.0	10,211.7	-7,167.2	93.4	Projection to TD @ 17325'MD, 26.5'FSL & 394.3'FEL

Checked By: _____ Approved By: _____ Date: _____