

SCALE: 1" = 1000'

SECTION 9, TOWNSHIP 24-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

FND. BRASS CAP,
U.S. G.L.O. SUR.



FND. BRASS CAP,
U.S. G.L.O. SUR.

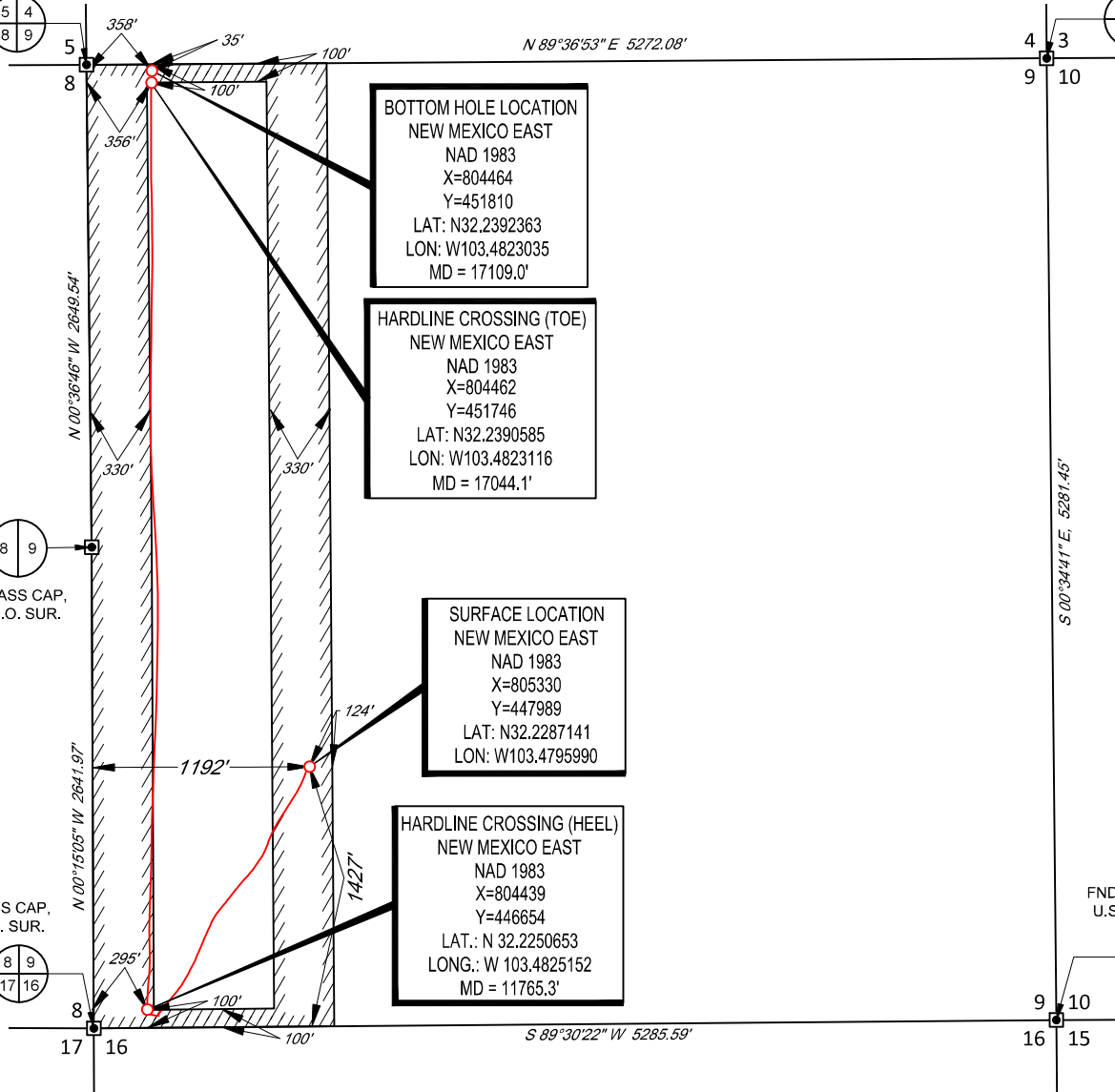


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LEASE NAME & WELL NO.: THE CONTEST FED COM 131H
SECTION 9 TWP 24-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3563'
DESCRIPTION 1427' FSL & 1192' FWL



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

**INTERNAL
PRE-COMPLETION
PLAT**

THE CONTEST FED COM 131H PRE-COMPLETION	REVISION:		NOTES:
	INT	DATE	
DATE: 05/28/2020			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.
FILE: C:\THE_CONTEST_FED_COM_131H			
DRAWN BY: IMU			
SHEET: 1 OF 1			



Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Contest Fed) Sec-9_T-24-S_R-34-E
The Contest Fed Com #131H**

OWB

Design: AWB

Standard Survey Report

10 May, 2020





Operator: Taprock Resources LLC
Well Name: The Contest Fed Com #131H
County: Lea
State: New Mexico
Rig Name: H&P 388
API: 30-025-46673

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: 242' MD – 17041' MD
Projection to Bit: 17110' MD
Dates Performed: 04/06/2020 – 05/08/2020
Type of Survey: MWD

Sincerely,

A handwritten signature in blue ink, appearing to read "JB", with a stylized flourish at the end.

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists





Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Contest Fed) Sec-9_T-24-S_R-34-E
The Contest Fed Com #131H**

OWB

Design: AWB

Standard Survey Report

10 May, 2020



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project	Lea 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	(Contest Fed) Sec-9_T-24-S_R-34-E		
Site Position:		Northing:	447,954.00 usft
From:	Map	Easting:	805,330.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 43.026 N
		Longitude:	103° 28' 46.561 W
		Grid Convergence:	0.46 °

Well	The Contest Fed Com #131H		
Well Position	+N/-S	0.0 usft	Northing: 447,989.00 usft
	+E/-W	0.0 usft	Easting: 805,330.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 13' 43.372 N
		Longitude:	103° 28' 46.558 W
		Ground Level:	3,563.0 usft

Wellbore	OWB		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/06/20	6.61	60.04	47,660.94439104

Design	AWB		
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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	359.57

Survey Program	Date	05/10/20
From (usft)	To (usft)	Survey (Wellbore)
242.0	17,110.0	Intrepid MWD (OWB)
Tool Name	Description	
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
	242.0	0.26	15.82	242.0	0.5	0.1	0.5	0.11	0.11	0.00
	332.0	0.22	17.05	332.0	0.9	0.3	0.9	0.04	-0.04	1.37
	420.0	0.26	5.45	420.0	1.3	0.3	1.2	0.07	0.05	-13.18
	510.0	0.35	18.19	510.0	1.7	0.4	1.7	0.12	0.10	14.16
	695.0	0.66	322.64	695.0	3.1	0.0	3.1	0.29	0.17	-30.03
	786.0	0.97	325.63	786.0	4.2	-0.8	4.2	0.34	0.34	3.29
	969.0	0.75	316.05	969.0	6.3	-2.5	6.3	0.14	-0.12	-5.23
	1,064.0	0.66	316.23	1,064.0	7.1	-3.3	7.2	0.09	-0.09	0.19
	1,159.0	0.70	243.98	1,158.9	7.3	-4.2	7.3	0.84	0.04	-76.05

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Well:	The Contest Fed Com #131H	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)
1,196.1	0.70	242.57	1,196.0	7.1	-4.6	7.1	0.05	0.00	-3.80
Rustler Anhydrite									
1,348.0	0.70	236.78	1,347.9	6.1	-6.2	6.2	0.05	0.00	-3.81
1,443.0	2.29	211.73	1,442.9	4.2	-7.7	4.3	1.77	1.67	-26.37
1,538.0	5.19	198.37	1,537.7	-1.5	-10.0	-1.4	3.17	3.05	-14.06
1,633.0	7.96	199.25	1,632.1	-11.8	-13.6	-11.7	2.92	2.92	0.93
1,727.0	9.89	197.93	1,724.9	-25.6	-18.2	-25.5	2.06	2.05	-1.40
1,727.1	9.89	197.93	1,725.0	-25.6	-18.2	-25.5	0.00	0.00	0.00
Top Salt									
1,822.0	10.68	198.81	1,818.4	-41.7	-23.6	-41.5	0.85	0.83	0.93
1,917.0	10.90	202.85	1,911.7	-58.3	-29.9	-58.1	0.83	0.23	4.25
2,012.0	10.55	205.22	2,005.0	-74.5	-37.1	-74.2	0.59	-0.37	2.49
2,107.0	10.24	206.01	2,098.5	-89.9	-44.5	-89.6	0.36	-0.33	0.83
2,201.0	9.80	205.75	2,191.1	-104.6	-51.6	-104.2	0.47	-0.47	-0.28
2,296.0	9.45	208.21	2,284.7	-118.8	-58.8	-118.3	0.57	-0.37	2.59
2,391.0	8.97	209.79	2,378.5	-132.1	-66.2	-131.6	0.57	-0.51	1.66
2,485.0	8.40	210.76	2,471.4	-144.3	-73.3	-143.8	0.63	-0.61	1.03
2,580.0	8.48	212.25	2,565.4	-156.2	-80.6	-155.6	0.25	0.08	1.57
2,674.0	8.75	211.55	2,658.3	-168.2	-88.1	-167.5	0.31	0.29	-0.74
2,769.0	8.31	212.17	2,752.3	-180.2	-95.5	-179.4	0.47	-0.46	0.65
2,864.0	8.35	211.02	2,846.3	-191.9	-102.7	-191.1	0.18	0.04	-1.21
2,959.0	8.84	210.67	2,940.2	-204.1	-110.0	-203.2	0.52	0.52	-0.37
3,053.0	8.31	212.87	3,033.2	-216.0	-117.4	-215.1	0.66	-0.56	2.34
3,148.0	8.75	212.78	3,127.1	-227.8	-125.0	-226.9	0.46	0.46	-0.09
3,243.0	10.42	213.04	3,220.8	-241.1	-133.6	-240.1	1.76	1.76	0.27
3,338.0	10.29	211.64	3,314.2	-255.5	-142.7	-254.5	0.30	-0.14	-1.47
3,432.0	9.58	211.73	3,406.8	-269.3	-151.2	-268.2	0.76	-0.76	0.10
3,527.0	9.67	211.64	3,500.5	-282.8	-159.6	-281.6	0.10	0.09	-0.09
3,622.0	12.00	212.34	3,593.8	-298.0	-169.1	-296.7	2.46	2.45	0.74
3,716.0	11.47	210.32	3,685.8	-314.3	-179.0	-313.0	0.71	-0.56	-2.15
3,811.0	10.81	211.02	3,779.0	-330.1	-188.4	-328.7	0.71	-0.69	0.74
3,906.0	9.89	206.01	3,872.5	-345.1	-196.5	-343.6	1.35	-0.97	-5.27
4,095.0	10.99	204.43	4,058.3	-376.1	-211.1	-374.5	0.60	0.58	-0.84
4,190.0	10.68	201.97	4,151.7	-392.5	-218.1	-390.8	0.59	-0.33	-2.59
4,285.0	10.55	200.30	4,245.0	-408.8	-224.5	-407.1	0.35	-0.14	-1.76
4,379.0	10.55	200.48	4,337.4	-424.9	-230.5	-423.2	0.04	0.00	0.19
4,474.0	10.51	204.52	4,430.8	-440.9	-237.1	-439.2	0.78	-0.04	4.25
4,569.0	10.15	202.32	4,524.3	-456.6	-243.9	-454.7	0.56	-0.38	-2.32
4,664.0	10.99	204.69	4,617.7	-472.5	-250.8	-470.6	1.00	0.88	2.49
4,758.0	11.21	209.27	4,709.9	-488.7	-259.0	-486.7	0.97	0.23	4.87
4,853.0	10.68	215.68	4,803.2	-503.9	-268.7	-501.8	1.40	-0.56	6.75
4,948.0	9.76	217.97	4,896.7	-517.4	-278.8	-515.3	1.06	-0.97	2.41
5,043.0	9.19	211.90	4,990.4	-530.2	-287.7	-528.0	1.21	-0.60	-6.39
5,078.0	9.04	211.17	5,025.0	-534.9	-290.6	-532.7	0.54	-0.43	-2.09

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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)
Base Salt									
5,137.0	8.79	209.88	5,083.2	-542.8	-295.3	-540.5	0.54	-0.42	-2.18
5,232.0	9.93	215.86	5,177.0	-555.7	-303.7	-553.4	1.58	1.20	6.29
5,327.0	13.01	219.55	5,270.1	-570.6	-315.3	-568.2	3.33	3.24	3.88
5,350.5	12.89	220.06	5,293.0	-574.6	-318.7	-572.2	0.70	-0.51	2.16
Lamar									
5,352.6	12.88	220.10	5,295.0	-575.0	-319.0	-572.6	0.70	-0.51	2.18
Delaware Mountain Gp									
5,389.5	12.69	220.92	5,331.0	-581.2	-324.3	-578.7	0.70	-0.51	2.21
Bell Canyon									
5,391.5	12.68	220.97	5,333.0	-581.5	-324.6	-579.1	0.70	-0.50	2.25
Ramsey Sand									
5,422.0	12.53	221.66	5,362.7	-586.5	-329.0	-584.0	0.70	-0.50	2.28
5,506.0	12.70	222.10	5,444.7	-600.2	-341.2	-597.6	0.23	0.20	0.52
5,595.0	12.40	223.15	5,531.6	-614.4	-354.3	-611.7	0.42	-0.34	1.18
5,690.0	13.93	219.46	5,624.1	-630.7	-368.6	-627.9	1.84	1.61	-3.88
5,784.0	15.52	219.99	5,715.0	-649.0	-383.8	-646.1	1.70	1.69	0.56
5,879.0	15.47	218.58	5,806.5	-668.7	-399.9	-665.7	0.40	-0.05	-1.48
5,973.0	15.34	217.97	5,897.2	-688.3	-415.4	-685.2	0.22	-0.14	-0.65
6,068.0	15.34	217.97	5,988.8	-708.1	-430.8	-704.9	0.00	0.00	0.00
6,163.0	14.15	217.18	6,080.6	-727.3	-445.6	-723.9	1.27	-1.25	-0.83
6,258.0	12.92	218.23	6,173.0	-744.9	-459.2	-741.4	1.32	-1.29	1.11
6,352.0	12.48	221.48	6,264.7	-760.7	-472.4	-757.2	0.89	-0.47	3.46
6,447.0	12.62	219.55	6,357.4	-776.4	-485.8	-772.7	0.47	0.15	-2.03
6,467.0	12.51	219.62	6,377.0	-779.8	-488.6	-776.1	0.56	-0.56	0.36
Cherry Canyon									
6,542.0	12.09	219.90	6,450.2	-792.0	-498.8	-788.3	0.56	-0.56	0.37
6,636.0	13.10	217.00	6,542.0	-808.1	-511.5	-804.2	1.27	1.07	-3.09
6,731.0	15.38	209.09	6,634.1	-827.7	-524.1	-823.8	3.15	2.40	-8.33
6,826.0	16.97	204.52	6,725.3	-851.3	-536.0	-847.3	2.14	1.67	-4.81
6,920.0	16.35	204.43	6,815.3	-875.9	-547.2	-871.7	0.66	-0.66	-0.10
7,015.0	15.91	204.78	6,906.6	-899.9	-558.2	-895.7	0.47	-0.46	0.37
7,110.0	14.90	205.57	6,998.2	-922.7	-568.9	-918.4	1.09	-1.06	0.83
7,204.0	14.37	203.20	7,089.1	-944.3	-578.7	-940.0	0.85	-0.56	-2.52
7,299.0	14.46	202.15	7,181.2	-966.2	-587.8	-961.7	0.29	0.09	-1.11
7,394.0	15.52	203.03	7,272.9	-988.8	-597.3	-984.3	1.14	1.12	0.93
7,488.0	16.92	202.59	7,363.2	-1,013.0	-607.4	-1,008.5	1.50	1.49	-0.47
7,583.0	16.88	202.85	7,454.1	-1,038.5	-618.1	-1,033.8	0.09	-0.04	0.27
7,678.0	17.93	205.13	7,544.7	-1,064.5	-629.7	-1,059.7	1.32	1.11	2.40
7,772.0	17.67	206.54	7,634.2	-1,090.3	-642.2	-1,085.5	0.54	-0.28	1.50
7,789.6	17.61	206.56	7,651.0	-1,095.1	-644.6	-1,090.2	0.37	-0.37	0.09
Brushy Canyon									
7,867.0	17.32	206.63	7,724.8	-1,115.9	-655.0	-1,110.9	0.37	-0.37	0.10
7,962.0	16.44	208.56	7,815.7	-1,140.3	-667.7	-1,135.3	1.10	-0.93	2.03
8,057.0	15.03	211.11	7,907.2	-1,162.7	-680.5	-1,157.5	1.65	-1.48	2.68

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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)
8,151.0	14.42	212.08	7,998.1	-1,183.0	-693.0	-1,177.8	0.70	-0.65	1.03
8,246.0	12.84	211.90	8,090.4	-1,202.0	-704.9	-1,196.7	1.66	-1.66	-0.19
8,341.0	13.23	217.88	8,183.0	-1,219.6	-717.2	-1,214.1	1.48	0.41	6.29
8,435.0	11.52	220.52	8,274.8	-1,235.2	-729.9	-1,229.7	1.92	-1.82	2.81
8,530.0	10.20	219.81	8,368.1	-1,248.9	-741.4	-1,243.3	1.40	-1.39	-0.75
8,625.0	8.31	219.90	8,461.8	-1,260.6	-751.2	-1,254.9	1.99	-1.99	0.09
8,719.0	8.04	218.93	8,554.9	-1,270.9	-759.7	-1,265.2	0.32	-0.29	-1.03
8,814.0	9.36	215.68	8,648.8	-1,282.4	-768.4	-1,276.5	1.48	1.39	-3.42
8,908.0	9.36	218.58	8,741.5	-1,294.5	-777.6	-1,288.7	0.50	0.00	3.09
9,003.0	7.52	218.14	8,835.5	-1,305.5	-786.2	-1,299.5	1.94	-1.94	-0.46
9,098.0	7.12	212.78	8,929.7	-1,315.3	-793.3	-1,309.3	0.83	-0.42	-5.64
9,143.6	6.53	214.50	8,975.0	-1,319.8	-796.3	-1,313.8	1.38	-1.30	3.76
Bone Spring Lime									
9,193.0	5.89	216.74	9,024.1	-1,324.2	-799.4	-1,318.1	1.38	-1.29	4.54
9,212.0	5.65	217.34	9,043.0	-1,325.7	-800.5	-1,319.6	1.31	-1.27	3.19
Upper Avalon									
9,287.0	4.70	220.34	9,117.7	-1,331.0	-804.8	-1,324.9	1.31	-1.26	3.99
9,382.0	3.87	221.66	9,212.4	-1,336.3	-809.4	-1,330.2	0.88	-0.87	1.39
9,477.0	3.08	222.54	9,307.3	-1,340.6	-813.3	-1,334.5	0.83	-0.83	0.93
9,503.8	2.96	224.93	9,334.0	-1,341.6	-814.2	-1,335.5	0.65	-0.45	8.94
Middle Avalon									
9,571.0	2.68	231.85	9,401.2	-1,343.8	-816.7	-1,337.6	0.65	-0.41	10.29
9,666.0	2.95	219.64	9,496.0	-1,347.1	-820.0	-1,340.9	0.69	0.28	-12.85
9,760.0	2.95	220.16	9,589.9	-1,350.8	-823.1	-1,344.6	0.03	0.00	0.55
9,839.2	3.17	215.71	9,669.0	-1,354.1	-825.7	-1,347.9	0.40	0.27	-5.62
Lower Avalon									
9,855.0	3.21	214.89	9,684.8	-1,354.8	-826.2	-1,348.6	0.40	0.28	-5.16
9,949.0	1.19	230.97	9,778.7	-1,357.6	-828.5	-1,351.4	2.23	-2.15	17.11
10,044.0	0.70	190.46	9,873.7	-1,358.8	-829.3	-1,352.5	0.84	-0.52	-42.64
10,139.0	1.71	177.98	9,968.7	-1,360.8	-829.4	-1,354.5	1.09	1.06	-13.14
10,165.3	1.61	175.33	9,995.0	-1,361.5	-829.4	-1,355.3	0.49	-0.39	-10.07
1st Bone Spring Sand									
10,233.0	1.36	166.73	10,062.6	-1,363.3	-829.1	-1,357.0	0.49	-0.36	-12.71
10,328.0	1.32	149.06	10,157.6	-1,365.3	-828.3	-1,359.1	0.44	-0.04	-18.60
10,408.4	1.03	175.44	10,238.0	-1,366.8	-827.7	-1,360.6	0.75	-0.36	32.81
2nd Bone Spring Carb									
10,423.0	1.01	181.49	10,252.6	-1,367.1	-827.7	-1,360.8	0.75	-0.15	41.46
10,517.0	0.79	241.17	10,346.6	-1,368.2	-828.3	-1,362.0	0.97	-0.23	63.49
10,612.0	1.32	273.16	10,441.6	-1,368.5	-830.0	-1,362.2	0.81	0.56	33.67
10,692.5	1.50	263.11	10,522.0	-1,368.6	-832.0	-1,362.3	0.38	0.23	-12.49
2nd Bone Spring Sand									
10,707.0	1.54	261.56	10,536.5	-1,368.6	-832.3	-1,362.3	0.38	0.26	-10.65
10,802.0	1.32	260.42	10,631.5	-1,369.0	-834.7	-1,362.7	0.23	-0.23	-1.20
10,896.0	2.51	278.79	10,725.5	-1,368.8	-837.8	-1,362.5	1.41	1.27	19.54

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	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)
10,991.0	3.74	275.97	10,820.3	-1,368.2	-842.9	-1,361.8	1.30	1.29	-2.97
11,086.0	2.46	286.61	10,915.2	-1,367.3	-848.0	-1,360.9	1.47	-1.35	11.20
11,181.0	2.37	295.57	11,010.1	-1,365.9	-851.7	-1,359.4	0.41	-0.09	9.43
11,192.9	2.39	294.65	11,022.0	-1,365.7	-852.1	-1,359.2	0.35	0.13	-7.75
3rd Bone Spring Carb									
11,275.0	2.51	288.63	11,104.0	-1,364.4	-855.4	-1,357.9	0.35	0.15	-7.33
11,370.0	4.48	276.24	11,198.8	-1,363.3	-861.0	-1,356.8	2.21	2.07	-13.04
11,482.0	4.57	277.12	11,310.5	-1,362.3	-869.8	-1,355.7	0.10	0.08	0.79
11,616.0	4.57	265.43	11,444.0	-1,362.0	-880.4	-1,355.4	0.69	0.00	-8.72
11,663.0	7.08	314.03	11,490.8	-1,360.2	-884.4	-1,353.5	11.29	5.34	103.40
11,710.0	14.90	343.21	11,537.0	-1,352.4	-888.2	-1,345.7	19.92	16.64	62.09
11,740.4	19.34	350.78	11,566.0	-1,343.6	-890.2	-1,336.9	16.32	14.61	24.93
3rd Bone Spring Sand									
11,765.3	23.13	354.84	11,589.2	-1,334.7	-891.3	-1,328.0	16.32	15.22	16.29
FTP @ 11765.3'MD, 100'FSL & 295.5'FWL									
11,805.0	29.32	359.21	11,624.8	-1,317.2	-892.1	-1,310.5	16.32	15.59	11.00
11,900.0	36.13	3.07	11,704.7	-1,265.9	-890.9	-1,259.2	7.49	7.17	4.06
11,995.0	42.11	4.83	11,778.4	-1,206.1	-886.7	-1,199.5	6.40	6.29	1.85
12,026.0	44.13	5.14	11,801.0	-1,185.0	-884.9	-1,178.4	6.56	6.52	1.00
3rd BS W Sand									
12,090.0	48.31	5.71	11,845.3	-1,139.0	-880.5	-1,132.4	6.56	6.53	0.89
12,126.4	50.40	3.41	11,869.0	-1,111.5	-878.3	-1,104.9	7.47	5.74	-6.30
Wolfcamp A X Sand									
12,185.0	53.85	0.00	11,905.0	-1,065.3	-877.0	-1,058.7	7.47	5.89	-5.83
12,275.1	57.14	357.16	11,956.0	-991.1	-878.9	-984.5	4.48	3.65	-3.15
Wolfcamp A Y Sand									
12,280.0	57.32	357.01	11,958.6	-987.0	-879.1	-980.4	4.48	3.69	-3.03
12,375.0	69.19	0.35	12,001.3	-902.3	-880.9	-895.7	12.88	12.49	3.52
12,443.9	75.88	1.64	12,022.0	-836.7	-879.7	-830.0	9.88	9.71	1.88
Wolfcamp A Lower									
12,470.0	78.42	2.11	12,027.8	-811.2	-878.9	-804.6	9.88	9.72	1.79
12,565.0	86.81	2.55	12,040.0	-717.2	-875.1	-710.6	8.84	8.83	0.46
12,623.0	88.40	1.40	12,042.4	-659.3	-873.1	-652.7	3.38	2.74	-1.98
12,718.0	90.90	1.14	12,043.0	-564.3	-871.0	-557.7	2.65	2.63	-0.27
12,813.0	92.70	1.32	12,040.0	-469.4	-868.9	-462.8	1.90	1.89	0.19
12,908.0	93.10	1.40	12,035.2	-374.5	-866.7	-368.0	0.43	0.42	0.08
13,003.0	93.32	0.88	12,029.9	-279.7	-864.8	-273.2	0.59	0.23	-0.55
13,098.0	92.84	1.93	12,024.8	-184.9	-862.5	-178.4	1.21	-0.51	1.11
13,193.0	92.92	2.19	12,020.0	-90.0	-859.1	-83.6	0.29	0.08	0.27
13,288.0	93.67	2.28	12,014.6	4.7	-855.4	11.2	0.80	0.79	0.09
13,383.0	92.97	2.81	12,009.1	99.5	-851.1	105.9	0.92	-0.74	0.56
13,478.0	93.45	2.81	12,003.7	194.2	-846.5	200.6	0.51	0.51	0.00
13,573.0	92.44	1.49	11,998.9	289.0	-842.9	295.3	1.75	-1.06	-1.39
13,667.0	90.73	1.49	11,996.3	383.0	-840.5	389.3	1.82	-1.82	0.00
13,762.0	90.68	1.49	11,995.1	477.9	-838.0	484.2	0.05	-0.05	0.00

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	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)
13,858.0	90.77	0.96	11,993.9	573.9	-836.0	580.1	0.56	0.09	-0.55
13,953.0	90.86	0.96	11,992.5	668.9	-834.4	675.1	0.09	0.09	0.00
14,048.0	93.01	0.44	11,989.3	763.8	-833.2	770.0	2.33	2.26	-0.55
14,143.0	92.40	359.65	11,984.8	858.7	-833.1	864.9	1.05	-0.64	-0.83
14,238.0	93.54	359.38	11,979.9	953.6	-834.0	959.8	1.23	1.20	-0.28
14,333.0	93.14	357.54	11,974.4	1,048.4	-836.5	1,054.6	1.98	-0.42	-1.94
14,428.0	93.41	357.27	11,968.9	1,143.1	-840.8	1,149.4	0.40	0.28	-0.28
14,523.0	93.54	357.10	11,963.2	1,237.8	-845.5	1,244.1	0.23	0.14	-0.18
14,617.0	93.36	356.22	11,957.5	1,331.5	-850.9	1,337.8	0.95	-0.19	-0.94
14,712.0	91.08	357.01	11,953.9	1,426.2	-856.5	1,432.6	2.54	-2.40	0.83
14,806.0	89.27	356.57	11,953.6	1,520.1	-861.8	1,526.5	1.98	-1.93	-0.47
14,902.0	90.46	357.98	11,953.8	1,616.0	-866.3	1,622.4	1.92	1.24	1.47
14,997.0	90.33	357.62	11,953.1	1,710.9	-870.0	1,717.4	0.40	-0.14	-0.38
15,092.0	92.18	358.94	11,951.1	1,805.8	-872.8	1,812.3	2.39	1.95	1.39
15,188.0	93.54	359.47	11,946.3	1,901.7	-874.2	1,908.2	1.52	1.42	0.55
15,283.0	95.38	0.00	11,938.9	1,996.4	-874.6	2,002.9	2.02	1.94	0.56
15,377.0	94.24	0.70	11,931.0	2,090.1	-874.0	2,096.6	1.42	-1.21	0.74
15,473.0	91.69	1.23	11,926.0	2,185.9	-872.4	2,192.4	2.71	-2.66	0.55
15,568.0	91.74	1.05	11,923.2	2,280.9	-870.5	2,287.3	0.20	0.05	-0.19
15,663.0	91.30	0.79	11,920.7	2,375.8	-869.0	2,382.3	0.54	-0.46	-0.27
15,758.0	91.52	0.70	11,918.3	2,470.8	-867.8	2,477.2	0.25	0.23	-0.09
15,853.0	91.34	0.88	11,916.0	2,565.7	-866.5	2,572.2	0.27	-0.19	0.19
15,948.0	91.08	1.14	11,914.0	2,660.7	-864.8	2,667.1	0.39	-0.27	0.27
16,043.0	92.62	0.09	11,910.9	2,755.6	-863.8	2,762.0	1.96	1.62	-1.11
16,139.0	91.47	359.73	11,907.5	2,851.6	-863.9	2,858.0	1.26	-1.20	-0.38
16,234.0	91.08	359.65	11,905.3	2,946.6	-864.4	2,953.0	0.42	-0.41	-0.08
16,329.0	93.23	359.47	11,901.8	3,041.5	-865.2	3,047.9	2.27	2.26	-0.19
16,424.0	92.70	358.24	11,896.9	3,136.3	-867.1	3,142.7	1.41	-0.56	-1.29
16,518.0	92.66	358.68	11,892.5	3,230.2	-869.6	3,236.6	0.47	-0.04	0.47
16,613.0	94.81	0.17	11,886.3	3,325.0	-870.5	3,331.4	2.75	2.26	1.57
16,708.0	93.63	359.65	11,879.3	3,419.7	-870.7	3,426.2	1.36	-1.24	-0.55
16,803.0	93.32	0.00	11,873.5	3,514.5	-871.0	3,521.0	0.49	-0.33	0.37
16,898.0	90.29	0.44	11,870.5	3,609.5	-870.6	3,615.9	3.22	-3.19	0.46
16,993.0	91.08	0.61	11,869.4	3,704.5	-869.7	3,710.9	0.85	0.83	0.18
17,041.0	92.97	1.76	11,867.7	3,752.4	-868.8	3,758.8	4.61	3.94	2.40
LAST SVY									
17,045.1	92.97	1.76	11,867.5	3,756.5	-868.6	3,762.9	0.00	0.00	0.00
LTP @ 17045.1'MD, 100'FNL & 355.4'FWL									
17,110.0	92.97	1.76	11,864.1	3,821.3	-866.6	3,827.7	0.00	0.00	0.00
Projection to TD @ 17110'MD, 35.2'FNL & 358.'FWL									

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Design Targets

Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (The Contest Fed	- actual wellpath misses target center by 20.0usft at 17110.0usft MD (11864.1 TVD, 3821.3 N, -866.6 E)	-2.50	359.57	11,862.7	3,826.0	-886.0	451,815.00	804,444.00	32° 14' 21.300 N	103° 28' 56.519 W
- Rectangle (sides W100.0 H2,496.9 D30.0)										
LTP (The Contest Fed	- actual wellpath misses target center by 18.0usft at 17044.3usft MD (11867.5 TVD, 3755.7 N, -868.7 E)	0.00	0.00	11,862.7	3,756.0	-886.0	451,745.00	804,444.00	32° 14' 20.607 N	103° 28' 56.526 W
- Point										
FTP (The Contest Fed	- actual wellpath misses target center by 284.7usft at 12090.0usft MD (11845.3 TVD, -1139.0 N, -880.5 E)	0.00	0.00	12,050.0	-1,334.0	-847.0	446,655.00	804,483.00	32° 13' 30.239 N	103° 28' 56.541 W
- Point										

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,196.1	1,196.0	Rustler Anhydrite			
1,727.1	1,725.0	Top Salt			
5,078.0	5,025.0	Base Salt			
5,350.5	5,293.0	Lamar			
5,352.6	5,295.0	Delaware Mountain Gp			
5,389.5	5,331.0	Bell Canyon			
5,391.5	5,333.0	Ramsey Sand			
6,467.0	6,377.0	Cherry Canyon			
7,789.6	7,651.0	Brushy Canyon			
9,143.6	8,975.0	Bone Spring Lime			
9,212.0	9,043.0	Upper Avalon			
9,503.8	9,334.0	Middle Avalon			
9,839.2	9,669.0	Lower Avalon			
10,165.3	9,995.0	1st Bone Spring Sand			
10,408.4	10,238.0	2nd Bone Spring Carb			
10,692.5	10,522.0	2nd Bone Spring Sand			
11,192.9	11,022.0	3rd Bone Spring Carb			
11,740.4	11,566.0	3rd Bone Spring Sand			
12,026.0	11,801.0	3rd BS W Sand			
12,126.4	11,869.0	Wolfcamp A X Sand			
12,275.1	11,956.0	Wolfcamp A Y Sand			
12,443.9	12,022.0	Wolfcamp A Lower			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
11,765.3	11,589.2	-1,334.7	-891.3	FTP @ 11765.3'MD, 100'FSL & 295.5'FWL
17,041.0	11,867.7	3,752.4	-868.8	LAST SVY
17,045.1	11,867.5	3,756.5	-868.6	LTP @ 17045.1'MD, 100'FNL & 355.4'FWL
17,110.0	11,864.1	3,821.3	-866.6	Projection to TD @ 17110'MD, 35.2'FNL & 358.'FWL



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Checked By: _____	Approved By: _____	Date: _____
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Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project	Lea 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	(Contest Fed) Sec-9_T-24-S_R-34-E		
Site Position:		Northing:	447,954.00 usft
From:	Map	Easting:	805,330.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 43.026 N
		Longitude:	103° 28' 46.561 W
		Grid Convergence:	0.46 °

Well	The Contest Fed Com #131H		
Well Position	+N/-S	0.0 usft	Northing: 447,989.00 usft
	+E/-W	0.0 usft	Easting: 805,330.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 13' 43.372 N
		Longitude:	103° 28' 46.558 W
		Ground Level:	3,563.0 usft

Wellbore	OWB		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/06/20	6.61	60.04	47,660.94439104

Design	AWB		
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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	359.57

Survey Program	Date	05/10/20
From (usft)	To (usft)	Survey (Wellbore)
242.0	17,110.0	Intrepid MWD (OWB)
Tool Name	Description	
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
	242.0	0.26	15.82	242.0	0.5	0.1	0.5	0.11	0.11	0.00
	332.0	0.22	17.05	332.0	0.9	0.3	0.9	0.04	-0.04	1.37
	420.0	0.26	5.45	420.0	1.3	0.3	1.2	0.07	0.05	-13.18
	510.0	0.35	18.19	510.0	1.7	0.4	1.7	0.12	0.10	14.16
	695.0	0.66	322.64	695.0	3.1	0.0	3.1	0.29	0.17	-30.03
	786.0	0.97	325.63	786.0	4.2	-0.8	4.2	0.34	0.34	3.29
	969.0	0.75	316.05	969.0	6.3	-2.5	6.3	0.14	-0.12	-5.23
	1,064.0	0.66	316.23	1,064.0	7.1	-3.3	7.2	0.09	-0.09	0.19
	1,159.0	0.70	243.98	1,158.9	7.3	-4.2	7.3	0.84	0.04	-76.05

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	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)
1,196.1	0.70	242.57	1,196.0	7.1	-4.6	7.1	0.05	0.00	-3.80
Rustler Anhydrite									
1,348.0	0.70	236.78	1,347.9	6.1	-6.2	6.2	0.05	0.00	-3.81
1,443.0	2.29	211.73	1,442.9	4.2	-7.7	4.3	1.77	1.67	-26.37
1,538.0	5.19	198.37	1,537.7	-1.5	-10.0	-1.4	3.17	3.05	-14.06
1,633.0	7.96	199.25	1,632.1	-11.8	-13.6	-11.7	2.92	2.92	0.93
1,727.0	9.89	197.93	1,724.9	-25.6	-18.2	-25.5	2.06	2.05	-1.40
1,727.1	9.89	197.93	1,725.0	-25.6	-18.2	-25.5	0.00	0.00	0.00
Top Salt									
1,822.0	10.68	198.81	1,818.4	-41.7	-23.6	-41.5	0.85	0.83	0.93
1,917.0	10.90	202.85	1,911.7	-58.3	-29.9	-58.1	0.83	0.23	4.25
2,012.0	10.55	205.22	2,005.0	-74.5	-37.1	-74.2	0.59	-0.37	2.49
2,107.0	10.24	206.01	2,098.5	-89.9	-44.5	-89.6	0.36	-0.33	0.83
2,201.0	9.80	205.75	2,191.1	-104.6	-51.6	-104.2	0.47	-0.47	-0.28
2,296.0	9.45	208.21	2,284.7	-118.8	-58.8	-118.3	0.57	-0.37	2.59
2,391.0	8.97	209.79	2,378.5	-132.1	-66.2	-131.6	0.57	-0.51	1.66
2,485.0	8.40	210.76	2,471.4	-144.3	-73.3	-143.8	0.63	-0.61	1.03
2,580.0	8.48	212.25	2,565.4	-156.2	-80.6	-155.6	0.25	0.08	1.57
2,674.0	8.75	211.55	2,658.3	-168.2	-88.1	-167.5	0.31	0.29	-0.74
2,769.0	8.31	212.17	2,752.3	-180.2	-95.5	-179.4	0.47	-0.46	0.65
2,864.0	8.35	211.02	2,846.3	-191.9	-102.7	-191.1	0.18	0.04	-1.21
2,959.0	8.84	210.67	2,940.2	-204.1	-110.0	-203.2	0.52	0.52	-0.37
3,053.0	8.31	212.87	3,033.2	-216.0	-117.4	-215.1	0.66	-0.56	2.34
3,148.0	8.75	212.78	3,127.1	-227.8	-125.0	-226.9	0.46	0.46	-0.09
3,243.0	10.42	213.04	3,220.8	-241.1	-133.6	-240.1	1.76	1.76	0.27
3,338.0	10.29	211.64	3,314.2	-255.5	-142.7	-254.5	0.30	-0.14	-1.47
3,432.0	9.58	211.73	3,406.8	-269.3	-151.2	-268.2	0.76	-0.76	0.10
3,527.0	9.67	211.64	3,500.5	-282.8	-159.6	-281.6	0.10	0.09	-0.09
3,622.0	12.00	212.34	3,593.8	-298.0	-169.1	-296.7	2.46	2.45	0.74
3,716.0	11.47	210.32	3,685.8	-314.3	-179.0	-313.0	0.71	-0.56	-2.15
3,811.0	10.81	211.02	3,779.0	-330.1	-188.4	-328.7	0.71	-0.69	0.74
3,906.0	9.89	206.01	3,872.5	-345.1	-196.5	-343.6	1.35	-0.97	-5.27
4,095.0	10.99	204.43	4,058.3	-376.1	-211.1	-374.5	0.60	0.58	-0.84
4,190.0	10.68	201.97	4,151.7	-392.5	-218.1	-390.8	0.59	-0.33	-2.59
4,285.0	10.55	200.30	4,245.0	-408.8	-224.5	-407.1	0.35	-0.14	-1.76
4,379.0	10.55	200.48	4,337.4	-424.9	-230.5	-423.2	0.04	0.00	0.19
4,474.0	10.51	204.52	4,430.8	-440.9	-237.1	-439.2	0.78	-0.04	4.25
4,569.0	10.15	202.32	4,524.3	-456.6	-243.9	-454.7	0.56	-0.38	-2.32
4,664.0	10.99	204.69	4,617.7	-472.5	-250.8	-470.6	1.00	0.88	2.49
4,758.0	11.21	209.27	4,709.9	-488.7	-259.0	-486.7	0.97	0.23	4.87
4,853.0	10.68	215.68	4,803.2	-503.9	-268.7	-501.8	1.40	-0.56	6.75
4,948.0	9.76	217.97	4,896.7	-517.4	-278.8	-515.3	1.06	-0.97	2.41
5,043.0	9.19	211.90	4,990.4	-530.2	-287.7	-528.0	1.21	-0.60	-6.39
5,078.0	9.04	211.17	5,025.0	-534.9	-290.6	-532.7	0.54	-0.43	-2.09

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	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)
Base Salt									
5,137.0	8.79	209.88	5,083.2	-542.8	-295.3	-540.5	0.54	-0.42	-2.18
5,232.0	9.93	215.86	5,177.0	-555.7	-303.7	-553.4	1.58	1.20	6.29
5,327.0	13.01	219.55	5,270.1	-570.6	-315.3	-568.2	3.33	3.24	3.88
5,350.5	12.89	220.06	5,293.0	-574.6	-318.7	-572.2	0.70	-0.51	2.16
Lamar									
5,352.6	12.88	220.10	5,295.0	-575.0	-319.0	-572.6	0.70	-0.51	2.18
Delaware Mountain Gp									
5,389.5	12.69	220.92	5,331.0	-581.2	-324.3	-578.7	0.70	-0.51	2.21
Bell Canyon									
5,391.5	12.68	220.97	5,333.0	-581.5	-324.6	-579.1	0.70	-0.50	2.25
Ramsey Sand									
5,422.0	12.53	221.66	5,362.7	-586.5	-329.0	-584.0	0.70	-0.50	2.28
5,506.0	12.70	222.10	5,444.7	-600.2	-341.2	-597.6	0.23	0.20	0.52
5,595.0	12.40	223.15	5,531.6	-614.4	-354.3	-611.7	0.42	-0.34	1.18
5,690.0	13.93	219.46	5,624.1	-630.7	-368.6	-627.9	1.84	1.61	-3.88
5,784.0	15.52	219.99	5,715.0	-649.0	-383.8	-646.1	1.70	1.69	0.56
5,879.0	15.47	218.58	5,806.5	-668.7	-399.9	-665.7	0.40	-0.05	-1.48
5,973.0	15.34	217.97	5,897.2	-688.3	-415.4	-685.2	0.22	-0.14	-0.65
6,068.0	15.34	217.97	5,988.8	-708.1	-430.8	-704.9	0.00	0.00	0.00
6,163.0	14.15	217.18	6,080.6	-727.3	-445.6	-723.9	1.27	-1.25	-0.83
6,258.0	12.92	218.23	6,173.0	-744.9	-459.2	-741.4	1.32	-1.29	1.11
6,352.0	12.48	221.48	6,264.7	-760.7	-472.4	-757.2	0.89	-0.47	3.46
6,447.0	12.62	219.55	6,357.4	-776.4	-485.8	-772.7	0.47	0.15	-2.03
6,467.0	12.51	219.62	6,377.0	-779.8	-488.6	-776.1	0.56	-0.56	0.36
Cherry Canyon									
6,542.0	12.09	219.90	6,450.2	-792.0	-498.8	-788.3	0.56	-0.56	0.37
6,636.0	13.10	217.00	6,542.0	-808.1	-511.5	-804.2	1.27	1.07	-3.09
6,731.0	15.38	209.09	6,634.1	-827.7	-524.1	-823.8	3.15	2.40	-8.33
6,826.0	16.97	204.52	6,725.3	-851.3	-536.0	-847.3	2.14	1.67	-4.81
6,920.0	16.35	204.43	6,815.3	-875.9	-547.2	-871.7	0.66	-0.66	-0.10
7,015.0	15.91	204.78	6,906.6	-899.9	-558.2	-895.7	0.47	-0.46	0.37
7,110.0	14.90	205.57	6,998.2	-922.7	-568.9	-918.4	1.09	-1.06	0.83
7,204.0	14.37	203.20	7,089.1	-944.3	-578.7	-940.0	0.85	-0.56	-2.52
7,299.0	14.46	202.15	7,181.2	-966.2	-587.8	-961.7	0.29	0.09	-1.11
7,394.0	15.52	203.03	7,272.9	-988.8	-597.3	-984.3	1.14	1.12	0.93
7,488.0	16.92	202.59	7,363.2	-1,013.0	-607.4	-1,008.5	1.50	1.49	-0.47
7,583.0	16.88	202.85	7,454.1	-1,038.5	-618.1	-1,033.8	0.09	-0.04	0.27
7,678.0	17.93	205.13	7,544.7	-1,064.5	-629.7	-1,059.7	1.32	1.11	2.40
7,772.0	17.67	206.54	7,634.2	-1,090.3	-642.2	-1,085.5	0.54	-0.28	1.50
7,789.6	17.61	206.56	7,651.0	-1,095.1	-644.6	-1,090.2	0.37	-0.37	0.09
Brushy Canyon									
7,867.0	17.32	206.63	7,724.8	-1,115.9	-655.0	-1,110.9	0.37	-0.37	0.10
7,962.0	16.44	208.56	7,815.7	-1,140.3	-667.7	-1,135.3	1.10	-0.93	2.03
8,057.0	15.03	211.11	7,907.2	-1,162.7	-680.5	-1,157.5	1.65	-1.48	2.68

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	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)
8,151.0	14.42	212.08	7,998.1	-1,183.0	-693.0	-1,177.8	0.70	-0.65	1.03
8,246.0	12.84	211.90	8,090.4	-1,202.0	-704.9	-1,196.7	1.66	-1.66	-0.19
8,341.0	13.23	217.88	8,183.0	-1,219.6	-717.2	-1,214.1	1.48	0.41	6.29
8,435.0	11.52	220.52	8,274.8	-1,235.2	-729.9	-1,229.7	1.92	-1.82	2.81
8,530.0	10.20	219.81	8,368.1	-1,248.9	-741.4	-1,243.3	1.40	-1.39	-0.75
8,625.0	8.31	219.90	8,461.8	-1,260.6	-751.2	-1,254.9	1.99	-1.99	0.09
8,719.0	8.04	218.93	8,554.9	-1,270.9	-759.7	-1,265.2	0.32	-0.29	-1.03
8,814.0	9.36	215.68	8,648.8	-1,282.4	-768.4	-1,276.5	1.48	1.39	-3.42
8,908.0	9.36	218.58	8,741.5	-1,294.5	-777.6	-1,288.7	0.50	0.00	3.09
9,003.0	7.52	218.14	8,835.5	-1,305.5	-786.2	-1,299.5	1.94	-1.94	-0.46
9,098.0	7.12	212.78	8,929.7	-1,315.3	-793.3	-1,309.3	0.83	-0.42	-5.64
9,143.6	6.53	214.50	8,975.0	-1,319.8	-796.3	-1,313.8	1.38	-1.30	3.76
Bone Spring Lime									
9,193.0	5.89	216.74	9,024.1	-1,324.2	-799.4	-1,318.1	1.38	-1.29	4.54
9,212.0	5.65	217.34	9,043.0	-1,325.7	-800.5	-1,319.6	1.31	-1.27	3.19
Upper Avalon									
9,287.0	4.70	220.34	9,117.7	-1,331.0	-804.8	-1,324.9	1.31	-1.26	3.99
9,382.0	3.87	221.66	9,212.4	-1,336.3	-809.4	-1,330.2	0.88	-0.87	1.39
9,477.0	3.08	222.54	9,307.3	-1,340.6	-813.3	-1,334.5	0.83	-0.83	0.93
9,503.8	2.96	224.93	9,334.0	-1,341.6	-814.2	-1,335.5	0.65	-0.45	8.94
Middle Avalon									
9,571.0	2.68	231.85	9,401.2	-1,343.8	-816.7	-1,337.6	0.65	-0.41	10.29
9,666.0	2.95	219.64	9,496.0	-1,347.1	-820.0	-1,340.9	0.69	0.28	-12.85
9,760.0	2.95	220.16	9,589.9	-1,350.8	-823.1	-1,344.6	0.03	0.00	0.55
9,839.2	3.17	215.71	9,669.0	-1,354.1	-825.7	-1,347.9	0.40	0.27	-5.62
Lower Avalon									
9,855.0	3.21	214.89	9,684.8	-1,354.8	-826.2	-1,348.6	0.40	0.28	-5.16
9,949.0	1.19	230.97	9,778.7	-1,357.6	-828.5	-1,351.4	2.23	-2.15	17.11
10,044.0	0.70	190.46	9,873.7	-1,358.8	-829.3	-1,352.5	0.84	-0.52	-42.64
10,139.0	1.71	177.98	9,968.7	-1,360.8	-829.4	-1,354.5	1.09	1.06	-13.14
10,165.3	1.61	175.33	9,995.0	-1,361.5	-829.4	-1,355.3	0.49	-0.39	-10.07
1st Bone Spring Sand									
10,233.0	1.36	166.73	10,062.6	-1,363.3	-829.1	-1,357.0	0.49	-0.36	-12.71
10,328.0	1.32	149.06	10,157.6	-1,365.3	-828.3	-1,359.1	0.44	-0.04	-18.60
10,408.4	1.03	175.44	10,238.0	-1,366.8	-827.7	-1,360.6	0.75	-0.36	32.81
2nd Bone Spring Carb									
10,423.0	1.01	181.49	10,252.6	-1,367.1	-827.7	-1,360.8	0.75	-0.15	41.46
10,517.0	0.79	241.17	10,346.6	-1,368.2	-828.3	-1,362.0	0.97	-0.23	63.49
10,612.0	1.32	273.16	10,441.6	-1,368.5	-830.0	-1,362.2	0.81	0.56	33.67
10,692.5	1.50	263.11	10,522.0	-1,368.6	-832.0	-1,362.3	0.38	0.23	-12.49
2nd Bone Spring Sand									
10,707.0	1.54	261.56	10,536.5	-1,368.6	-832.3	-1,362.3	0.38	0.26	-10.65
10,802.0	1.32	260.42	10,631.5	-1,369.0	-834.7	-1,362.7	0.23	-0.23	-1.20
10,896.0	2.51	278.79	10,725.5	-1,368.8	-837.8	-1,362.5	1.41	1.27	19.54

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	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)
10,991.0	3.74	275.97	10,820.3	-1,368.2	-842.9	-1,361.8	1.30	1.29	-2.97
11,086.0	2.46	286.61	10,915.2	-1,367.3	-848.0	-1,360.9	1.47	-1.35	11.20
11,181.0	2.37	295.57	11,010.1	-1,365.9	-851.7	-1,359.4	0.41	-0.09	9.43
11,192.9	2.39	294.65	11,022.0	-1,365.7	-852.1	-1,359.2	0.35	0.13	-7.75
3rd Bone Spring Carb									
11,275.0	2.51	288.63	11,104.0	-1,364.4	-855.4	-1,357.9	0.35	0.15	-7.33
11,370.0	4.48	276.24	11,198.8	-1,363.3	-861.0	-1,356.8	2.21	2.07	-13.04
11,482.0	4.57	277.12	11,310.5	-1,362.3	-869.8	-1,355.7	0.10	0.08	0.79
11,616.0	4.57	265.43	11,444.0	-1,362.0	-880.4	-1,355.4	0.69	0.00	-8.72
11,663.0	7.08	314.03	11,490.8	-1,360.2	-884.4	-1,353.5	11.29	5.34	103.40
11,710.0	14.90	343.21	11,537.0	-1,352.4	-888.2	-1,345.7	19.92	16.64	62.09
11,740.4	19.34	350.78	11,566.0	-1,343.6	-890.2	-1,336.9	16.32	14.61	24.93
3rd Bone Spring Sand									
11,765.3	23.13	354.84	11,589.2	-1,334.7	-891.3	-1,328.0	16.32	15.22	16.29
FTP @ 11765.3'MD, 100'FSL & 295.5'FWL									
11,805.0	29.32	359.21	11,624.8	-1,317.2	-892.1	-1,310.5	16.32	15.59	11.00
11,900.0	36.13	3.07	11,704.7	-1,265.9	-890.9	-1,259.2	7.49	7.17	4.06
11,995.0	42.11	4.83	11,778.4	-1,206.1	-886.7	-1,199.5	6.40	6.29	1.85
12,026.0	44.13	5.14	11,801.0	-1,185.0	-884.9	-1,178.4	6.56	6.52	1.00
3rd BS W Sand									
12,090.0	48.31	5.71	11,845.3	-1,139.0	-880.5	-1,132.4	6.56	6.53	0.89
12,126.4	50.40	3.41	11,869.0	-1,111.5	-878.3	-1,104.9	7.47	5.74	-6.30
Wolfcamp A X Sand									
12,185.0	53.85	0.00	11,905.0	-1,065.3	-877.0	-1,058.7	7.47	5.89	-5.83
12,275.1	57.14	357.16	11,956.0	-991.1	-878.9	-984.5	4.48	3.65	-3.15
Wolfcamp A Y Sand									
12,280.0	57.32	357.01	11,958.6	-987.0	-879.1	-980.4	4.48	3.69	-3.03
12,375.0	69.19	0.35	12,001.3	-902.3	-880.9	-895.7	12.88	12.49	3.52
12,443.9	75.88	1.64	12,022.0	-836.7	-879.7	-830.0	9.88	9.71	1.88
Wolfcamp A Lower									
12,470.0	78.42	2.11	12,027.8	-811.2	-878.9	-804.6	9.88	9.72	1.79
12,565.0	86.81	2.55	12,040.0	-717.2	-875.1	-710.6	8.84	8.83	0.46
12,623.0	88.40	1.40	12,042.4	-659.3	-873.1	-652.7	3.38	2.74	-1.98
12,718.0	90.90	1.14	12,043.0	-564.3	-871.0	-557.7	2.65	2.63	-0.27
12,813.0	92.70	1.32	12,040.0	-469.4	-868.9	-462.8	1.90	1.89	0.19
12,908.0	93.10	1.40	12,035.2	-374.5	-866.7	-368.0	0.43	0.42	0.08
13,003.0	93.32	0.88	12,029.9	-279.7	-864.8	-273.2	0.59	0.23	-0.55
13,098.0	92.84	1.93	12,024.8	-184.9	-862.5	-178.4	1.21	-0.51	1.11
13,193.0	92.92	2.19	12,020.0	-90.0	-859.1	-83.6	0.29	0.08	0.27
13,288.0	93.67	2.28	12,014.6	4.7	-855.4	11.2	0.80	0.79	0.09
13,383.0	92.97	2.81	12,009.1	99.5	-851.1	105.9	0.92	-0.74	0.56
13,478.0	93.45	2.81	12,003.7	194.2	-846.5	200.6	0.51	0.51	0.00
13,573.0	92.44	1.49	11,998.9	289.0	-842.9	295.3	1.75	-1.06	-1.39
13,667.0	90.73	1.49	11,996.3	383.0	-840.5	389.3	1.82	-1.82	0.00
13,762.0	90.68	1.49	11,995.1	477.9	-838.0	484.2	0.05	-0.05	0.00

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3589.0usft (H&P 388)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	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)
13,858.0	90.77	0.96	11,993.9	573.9	-836.0	580.1	0.56	0.09	-0.55
13,953.0	90.86	0.96	11,992.5	668.9	-834.4	675.1	0.09	0.09	0.00
14,048.0	93.01	0.44	11,989.3	763.8	-833.2	770.0	2.33	2.26	-0.55
14,143.0	92.40	359.65	11,984.8	858.7	-833.1	864.9	1.05	-0.64	-0.83
14,238.0	93.54	359.38	11,979.9	953.6	-834.0	959.8	1.23	1.20	-0.28
14,333.0	93.14	357.54	11,974.4	1,048.4	-836.5	1,054.6	1.98	-0.42	-1.94
14,428.0	93.41	357.27	11,968.9	1,143.1	-840.8	1,149.4	0.40	0.28	-0.28
14,523.0	93.54	357.10	11,963.2	1,237.8	-845.5	1,244.1	0.23	0.14	-0.18
14,617.0	93.36	356.22	11,957.5	1,331.5	-850.9	1,337.8	0.95	-0.19	-0.94
14,712.0	91.08	357.01	11,953.9	1,426.2	-856.5	1,432.6	2.54	-2.40	0.83
14,806.0	89.27	356.57	11,953.6	1,520.1	-861.8	1,526.5	1.98	-1.93	-0.47
14,902.0	90.46	357.98	11,953.8	1,616.0	-866.3	1,622.4	1.92	1.24	1.47
14,997.0	90.33	357.62	11,953.1	1,710.9	-870.0	1,717.4	0.40	-0.14	-0.38
15,092.0	92.18	358.94	11,951.1	1,805.8	-872.8	1,812.3	2.39	1.95	1.39
15,188.0	93.54	359.47	11,946.3	1,901.7	-874.2	1,908.2	1.52	1.42	0.55
15,283.0	95.38	0.00	11,938.9	1,996.4	-874.6	2,002.9	2.02	1.94	0.56
15,377.0	94.24	0.70	11,931.0	2,090.1	-874.0	2,096.6	1.42	-1.21	0.74
15,473.0	91.69	1.23	11,926.0	2,185.9	-872.4	2,192.4	2.71	-2.66	0.55
15,568.0	91.74	1.05	11,923.2	2,280.9	-870.5	2,287.3	0.20	0.05	-0.19
15,663.0	91.30	0.79	11,920.7	2,375.8	-869.0	2,382.3	0.54	-0.46	-0.27
15,758.0	91.52	0.70	11,918.3	2,470.8	-867.8	2,477.2	0.25	0.23	-0.09
15,853.0	91.34	0.88	11,916.0	2,565.7	-866.5	2,572.2	0.27	-0.19	0.19
15,948.0	91.08	1.14	11,914.0	2,660.7	-864.8	2,667.1	0.39	-0.27	0.27
16,043.0	92.62	0.09	11,910.9	2,755.6	-863.8	2,762.0	1.96	1.62	-1.11
16,139.0	91.47	359.73	11,907.5	2,851.6	-863.9	2,858.0	1.26	-1.20	-0.38
16,234.0	91.08	359.65	11,905.3	2,946.6	-864.4	2,953.0	0.42	-0.41	-0.08
16,329.0	93.23	359.47	11,901.8	3,041.5	-865.2	3,047.9	2.27	2.26	-0.19
16,424.0	92.70	358.24	11,896.9	3,136.3	-867.1	3,142.7	1.41	-0.56	-1.29
16,518.0	92.66	358.68	11,892.5	3,230.2	-869.6	3,236.6	0.47	-0.04	0.47
16,613.0	94.81	0.17	11,886.3	3,325.0	-870.5	3,331.4	2.75	2.26	1.57
16,708.0	93.63	359.65	11,879.3	3,419.7	-870.7	3,426.2	1.36	-1.24	-0.55
16,803.0	93.32	0.00	11,873.5	3,514.5	-871.0	3,521.0	0.49	-0.33	0.37
16,898.0	90.29	0.44	11,870.5	3,609.5	-870.6	3,615.9	3.22	-3.19	0.46
16,993.0	91.08	0.61	11,869.4	3,704.5	-869.7	3,710.9	0.85	0.83	0.18
17,041.0	92.97	1.76	11,867.7	3,752.4	-868.8	3,758.8	4.61	3.94	2.40
LAST SVY									
17,045.1	92.97	1.76	11,867.5	3,756.5	-868.6	3,762.9	0.00	0.00	0.00
LTP @ 17045.1'MD, 100'FNL & 355.4'FWL									
17,110.0	92.97	1.76	11,864.1	3,821.3	-866.6	3,827.7	0.00	0.00	0.00
Projection to TD @ 17110'MD, 35.2'FNL & 358.'FWL									

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Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Design Targets

Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL (The Contest Fed	- actual wellpath misses target center by 20.0usft at 17110.0usft MD (11864.1 TVD, 3821.3 N, -866.6 E)	-2.50	359.57	11,862.7	3,826.0	-886.0	451,815.00	804,444.00	32° 14' 21.300 N	103° 28' 56.519 W
- Rectangle (sides W100.0 H2,496.9 D30.0)										
LTP (The Contest Fed	- actual wellpath misses target center by 18.0usft at 17044.3usft MD (11867.5 TVD, 3755.7 N, -868.7 E)	0.00	0.00	11,862.7	3,756.0	-886.0	451,745.00	804,444.00	32° 14' 20.607 N	103° 28' 56.526 W
- Point										
FTP (The Contest Fed	- actual wellpath misses target center by 284.7usft at 12090.0usft MD (11845.3 TVD, -1139.0 N, -880.5 E)	0.00	0.00	12,050.0	-1,334.0	-847.0	446,655.00	804,483.00	32° 13' 30.239 N	103° 28' 56.541 W
- Point										

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,196.1	1,196.0	Rustler Anhydrite			
1,727.1	1,725.0	Top Salt			
5,078.0	5,025.0	Base Salt			
5,350.5	5,293.0	Lamar			
5,352.6	5,295.0	Delaware Mountain Gp			
5,389.5	5,331.0	Bell Canyon			
5,391.5	5,333.0	Ramsey Sand			
6,467.0	6,377.0	Cherry Canyon			
7,789.6	7,651.0	Brushy Canyon			
9,143.6	8,975.0	Bone Spring Lime			
9,212.0	9,043.0	Upper Avalon			
9,503.8	9,334.0	Middle Avalon			
9,839.2	9,669.0	Lower Avalon			
10,165.3	9,995.0	1st Bone Spring Sand			
10,408.4	10,238.0	2nd Bone Spring Carb			
10,692.5	10,522.0	2nd Bone Spring Sand			
11,192.9	11,022.0	3rd Bone Spring Carb			
11,740.4	11,566.0	3rd Bone Spring Sand			
12,026.0	11,801.0	3rd BS W Sand			
12,126.4	11,869.0	Wolfcamp A X Sand			
12,275.1	11,956.0	Wolfcamp A Y Sand			
12,443.9	12,022.0	Wolfcamp A Lower			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	Comment
		+N/-S (usft) +E/-W (usft)	
11,765.3	11,589.2	-1,334.7 -891.3	FTP @ 11765.3'MD, 100'FSL & 295.5'FWL
17,041.0	11,867.7	3,752.4 -868.8	LAST SVY
17,045.1	11,867.5	3,756.5 -868.6	LTP @ 17045.1'MD, 100'FNL & 355.4'FWL
17,110.0	11,864.1	3,821.3 -866.6	Projection to TD @ 17110'MD, 35.2'FNL & 358.'FWL



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Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	MD Reference:	KB @ 3589.0usft (H&P 388)
Well:	The Contest Fed Com #131H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Checked By: _____	Approved By: _____	Date: _____
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