

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address TAP ROCK OPERATING, LLC 602 PARK POINT DRIVE, SUITE 200 GOLDEN, CO 80401		² OGRID Number 372043	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 0 25-46623	⁵ Pool Name TRIPLE X, BONE SPRING, WEST		⁶ Pool Code 96674
⁷ Property Code 325171	⁸ Property Name ZEUS STATE		⁹ Well Number 144H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
P	09	24S	33E		827	SOUTH	136	EAST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	09	24S	33E		19	NORTH	810	EAST	LEA
¹² Lse Code S	¹³ Producing Method Code F		¹⁴ Gas Connection Date 3/10/2020		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
214754	ENLINK MIDSTREAM OPERATING,LP 1722 ROUTH ST. SUITE 1300 DALLAS, TX 75201	O
371960	LUCID ENERGY GROUP 3100 MCKINNON ST #800 DALLAS, TX 75201	G

IV. Well Completion Data

²¹ Spud Date 01/25/20	²² Ready Date 3/10/2020	²³ TD 15551'	²⁴ PBTD 15486'	²⁵ Perforations 10721' - 15388'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 1/2"		13 3/8"	1301'		1100
12 1/4"		9 5/8"	5313'		1380
8 3/4"		5 1/2"	15531'		2144

V. Well Test Data

³¹ Date New Oil 3/10/2020	³² Gas Delivery Date 3/11/2020	³³ Test Date 3/16/2020	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 303
³⁷ Choke Size 40/64	³⁸ Oil 324	³⁹ Water 1463	⁴⁰ Gas 371		⁴¹ Test Method FLoWing
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Bill Ramsey			Approved by: Patricia Martinez		
Title: Regulatory Analyst			Title: LM II		
E-mail Address: bramsey@taprk.com			Approval Date: 6/8/2020		
Date: 5/26/2020		Phone: 720-360-4028			

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017												
		1. WELL API NO. 30-025-46623																
		2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN																
		3. State Oil & Gas Lease No.																
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name ZEUS STATE 6. Well Number: #144H												
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER																		
8. Name of Operator TAP ROCK OPERATING, LLC						9. OGRID 372043												
10. Address of Operator 602 PARK POINT DRIVE, SUITE 200, GOLDEN, CO						11. Pool name or Wildcat [96674] TRIPLE X, BONE SPRING, WEST												
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:	P	09	24S	33E		827	FSL	136	FEL	LEA								
BH:	A	09	24S	33E		19	FNL	810	FEL	LEA								
13. Date Spudded 1/25/20	14. Date T.D. Reached 2/6/20	15. Date Rig Released 2/9/20			16. Date Completed (Ready to Produce) 3/10/2020			17. Elevations (DF and RKB, RT, GR, etc.) 3615 GL										
18. Total Measured Depth of Well 15551'			19. Plug Back Measured Depth 15486'			20. Was Directional Survey Made? YES		21. Type Electric and Other Logs Run GR										
22. Producing Interval(s), of this completion - Top, Bottom, Name 10721' - 15388', Bone Spring Carb																		
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
13 3/8"		54.5		1301'		17 1/2"		1100 SKS		NA								
9 5/8"		40		5313'		12 1/4"		1380 SKS		NA								
5 1/2"		20		15531'		8 3/4"		2144 SKS		NA								
24. LINER RECORD						25. TUBING RECORD												
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET											
26. Perforation record (interval, size, and number) 10721' - 15388', .39, 936 total shots					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>10721' - 15388'</td> <td>24 stage frac with 12,050,660 lbs 100 mesh sand.</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>						DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	10721' - 15388'	24 stage frac with 12,050,660 lbs 100 mesh sand.				
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
10721' - 15388'	24 stage frac with 12,050,660 lbs 100 mesh sand.																	
28. PRODUCTION																		
Date First Production 3/10/2020		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Flowing				Well Status (<i>Prod. or Shut-in</i>) Producing												
Date of Test 3/16/2020	Hours Tested 24 hrs	Choke Size 40/64	Prod'n For Test Period	Oil - Bbl 324	Gas - MCF 371	Water - Bbl. 1463	Gas - Oil Ratio 1.145											
Flow Tubing Press. 0	Casing Pressure 303	Calculated 24-Hour Rate	Oil - Bbl. 324	Gas - MCF 371	Water - Bbl. 1463	Oil Gravity - API - (<i>Corr.</i>)												
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) Sold							30. Test Witnessed By N/A											
31. List Attachments Directional Survey, GR																		
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:											
34. If an on-site burial was used at the well, report the exact location of the on-site burial:																		
Latitude			Longitude			NAD83												
<i>I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief</i>																		
Signature		Printed Name Bill Ramsey			Title Regulatory Analyst			Date 4/9/2020										
E-mail Address bramsey@taprk.com																		

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

[illegible]

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

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 30-025-46623		² Pool Code 96674		³ Pool Name TRIPLE X, BONE SPRING, WEST	
⁴ Property Code 325171		⁵ Property Name ZEUS STATE			⁶ Well Number 144H
⁷ OGRID No. 372043		⁸ Operator Name TAP ROCK OPERATING, LLC.			⁹ Elevation 3615'

¹⁰Surface Location

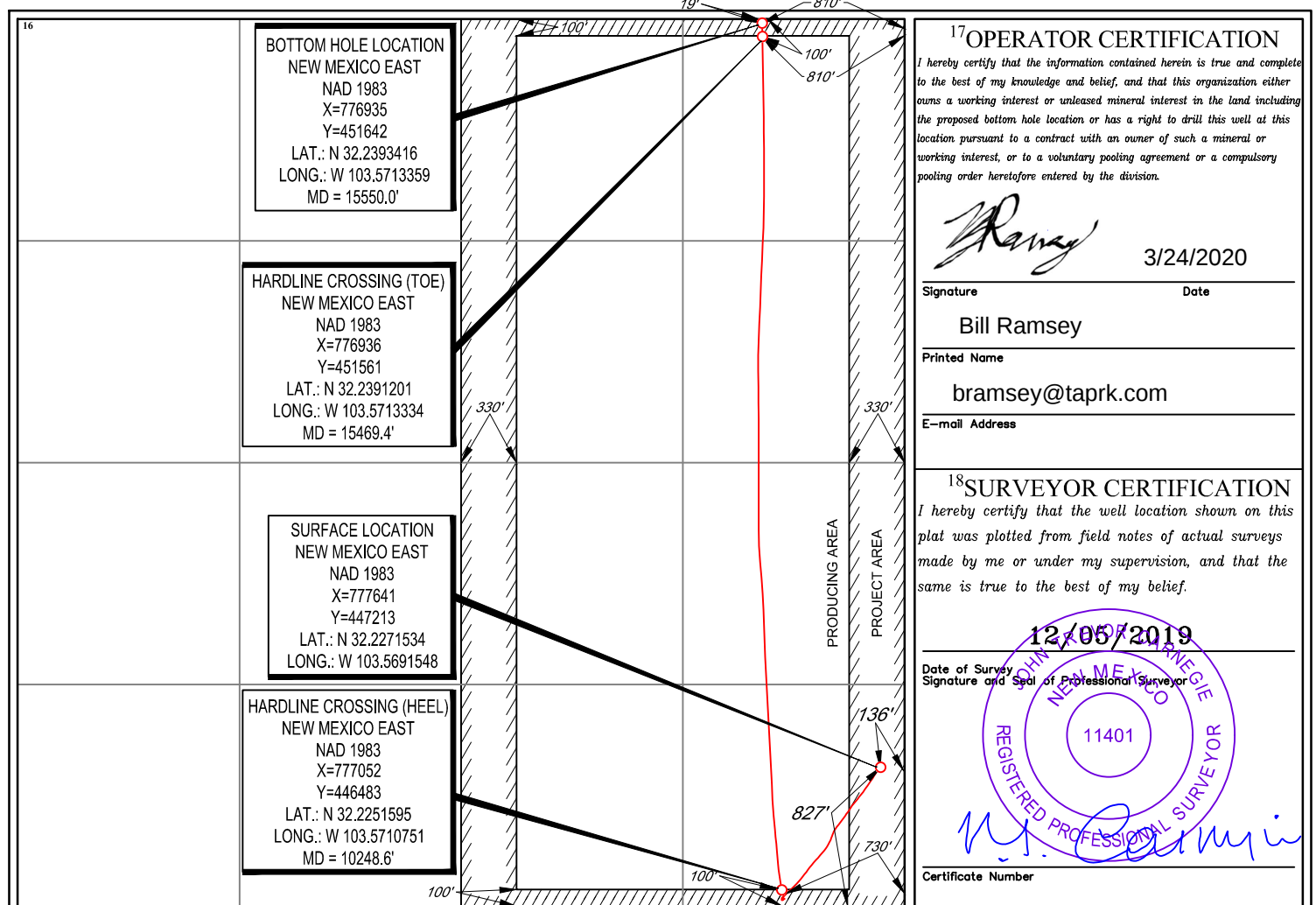
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	9	24-S	33-E	-	827'	SOUTH	136'	EAST	LEA

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
A	9	24-S	33-E	-	19'	NORTH	810'	EAST	LEA

¹² Dedicated Acres 320.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.





Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Zeus State) Sec-9_T24-S_R-33-E
Zeus State #144H**

OWB

Design: AWB

Standard Survey Report

07 February, 2020

Type text here





Operator: Tap Rock Resources LLC
Well Name: Zeus State #144H
County: Lea
State: New Mexico
Rig Name: H&P 376
API: 30-015-46623

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: 180' MD – 15,486' MD
Projection to Bit: 15,551' MD
Dates Performed: 01/25/2020 – 02/06/2020
Type of Survey: MWD

Sincerely,

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

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	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		(Zeus State) Sec-9_T24-S_R-33-E				
Site Position:		Northing:	447,193.00 usft	Latitude:	32° 13' 37.575 N	
From:	Map	Easting:	777,416.00 usft	Longitude:	103° 34' 11.577 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well		Zeus State #144H				
Well Position	+N/-S	0.0 usft	Northing:	447,213.00 usft	Latitude:	32° 13' 37.757 N
	+E/-W	0.0 usft	Easting:	777,641.00 usft	Longitude:	103° 34' 8.956 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,615.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2020/01/24	6.67	60.03	47,670.95096552

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	359.59	

Survey Program	Date	2020/02/07			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
180.0	15,551.0	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
180.0	0.26	307.72	180.0	0.2	-0.3	0.3	0.14	0.14	0.00
241.0	0.13	199.62	241.0	0.3	-0.5	0.3	0.53	-0.21	-177.21
329.0	0.62	251.65	329.0	0.0	-0.9	0.0	0.62	0.56	59.13
420.0	0.62	219.13	420.0	-0.5	-1.7	-0.5	0.38	0.00	-35.74
514.0	0.44	207.71	514.0	-1.2	-2.2	-1.2	0.22	-0.19	-12.15
606.0	0.48	253.23	606.0	-1.6	-2.7	-1.6	0.39	0.04	49.48
698.0	0.66	215.35	698.0	-2.2	-3.4	-2.2	0.44	0.20	-41.17
790.0	0.70	230.21	790.0	-3.0	-4.2	-3.0	0.20	0.04	16.15
883.0	0.40	236.89	883.0	-3.5	-4.9	-3.5	0.33	-0.32	7.18

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
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Well:	Zeus State #144H	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)
975.0	1.05	217.46	975.0	-4.4	-5.6	-4.3	0.75	0.71	-21.12
1,067.0	1.23	213.86	1,066.9	-5.9	-6.7	-5.8	0.21	0.20	-3.91
1,160.0	0.84	217.37	1,159.9	-7.2	-7.7	-7.2	0.42	-0.42	3.77
1,246.0	0.62	246.90	1,245.9	-7.9	-8.5	-7.9	0.50	-0.26	34.34
1,275.1	0.56	253.12	1,275.0	-8.0	-8.8	-8.0	0.30	-0.21	21.39
Rustler Anhydrite									
1,434.0	0.44	309.66	1,433.9	-7.9	-10.0	-7.8	0.30	-0.07	35.58
1,528.0	1.54	241.10	1,527.9	-8.2	-11.4	-8.2	1.53	1.17	-72.94
1,623.0	4.88	219.57	1,622.7	-12.0	-15.1	-11.9	3.68	3.52	-22.66
1,717.0	8.92	213.68	1,716.0	-21.1	-21.6	-21.0	4.36	4.30	-6.27
1,786.9	10.18	211.66	1,785.0	-30.9	-27.9	-30.7	1.87	1.81	-2.89
Top Salt									
1,812.0	10.64	211.05	1,809.7	-34.8	-30.3	-34.5	1.87	1.82	-2.43
1,907.0	10.42	212.54	1,903.1	-49.5	-39.4	-49.2	0.37	-0.23	1.57
2,001.0	10.46	214.74	1,995.5	-63.7	-48.8	-63.3	0.43	0.04	2.34
2,096.0	10.68	214.82	2,088.9	-78.0	-58.8	-77.6	0.23	0.23	0.08
2,190.0	10.77	215.44	2,181.2	-92.3	-68.8	-91.8	0.16	0.10	0.66
2,285.0	10.81	215.53	2,274.6	-106.8	-79.2	-106.2	0.05	0.04	0.09
2,380.0	9.58	212.89	2,368.1	-120.7	-88.6	-120.0	1.38	-1.29	-2.78
2,474.0	8.97	215.44	2,460.8	-133.2	-97.1	-132.5	0.78	-0.65	2.71
2,569.0	8.62	217.37	2,554.7	-144.9	-105.7	-144.2	0.48	-0.37	2.03
2,664.0	8.04	218.34	2,648.7	-155.8	-114.2	-155.0	0.63	-0.61	1.02
2,758.0	7.65	219.04	2,741.8	-165.8	-122.2	-164.9	0.43	-0.41	0.74
2,853.0	7.16	217.46	2,836.0	-175.4	-129.8	-174.5	0.56	-0.52	-1.66
2,948.0	7.69	218.08	2,930.3	-185.1	-137.3	-184.1	0.56	0.56	0.65
3,042.0	9.01	216.58	3,023.3	-196.0	-145.6	-194.9	1.42	1.40	-1.60
3,137.0	8.40	219.48	3,117.2	-207.3	-154.4	-206.2	0.79	-0.64	3.05
3,232.0	7.74	220.10	3,211.2	-217.6	-163.0	-216.4	0.70	-0.69	0.65
3,326.0	8.44	216.14	3,304.3	-228.0	-171.1	-226.7	0.95	0.74	-4.21
3,421.0	10.07	214.91	3,398.0	-240.4	-180.0	-239.1	1.73	1.72	-1.29
3,516.0	9.27	214.21	3,491.7	-253.5	-189.0	-252.2	0.85	-0.84	-0.74
3,611.0	8.44	214.82	3,585.6	-265.6	-197.3	-264.2	0.88	-0.87	0.64
3,705.0	7.65	214.12	3,678.6	-276.4	-204.8	-275.0	0.85	-0.84	-0.74
3,800.0	8.62	214.47	3,772.7	-287.5	-212.3	-286.0	1.02	1.02	0.37
3,895.0	10.59	216.67	3,866.3	-300.4	-221.6	-298.8	2.11	2.07	2.32
3,990.0	10.51	216.85	3,959.7	-314.4	-232.0	-312.7	0.09	-0.08	0.19
4,084.0	10.15	218.43	4,052.2	-327.7	-242.3	-326.0	0.49	-0.38	1.68
4,179.0	9.23	218.08	4,145.9	-340.3	-252.2	-338.4	0.97	-0.97	-0.37
4,274.0	8.44	217.02	4,239.7	-351.8	-261.1	-349.9	0.85	-0.83	-1.12
4,368.0	7.56	214.39	4,332.8	-362.4	-268.7	-360.5	1.01	-0.94	-2.80
4,463.0	6.33	209.46	4,427.1	-372.1	-274.8	-370.2	1.44	-1.29	-5.19
4,557.0	5.98	201.99	4,520.6	-381.2	-279.2	-379.2	0.93	-0.37	-7.95
4,652.0	5.23	201.47	4,615.1	-389.8	-282.6	-387.8	0.79	-0.79	-0.55
4,746.0	5.36	201.38	4,708.7	-397.9	-285.8	-395.8	0.14	0.14	-0.10

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	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)
4,841.0	7.47	204.80	4,803.1	-407.6	-290.0	-405.5	2.26	2.22	3.60
4,936.0	7.08	198.39	4,897.4	-418.8	-294.5	-416.7	0.95	-0.41	-6.75
5,019.3	7.58	201.30	4,980.0	-428.8	-298.1	-426.6	0.75	0.61	3.49
Base Salt									
5,030.0	7.65	201.64	4,990.6	-430.1	-298.6	-428.0	0.75	0.62	3.23
5,125.0	8.26	210.17	5,084.7	-441.9	-304.4	-439.7	1.40	0.64	8.98
5,219.0	6.86	207.79	5,177.8	-452.7	-310.4	-450.5	1.53	-1.49	-2.53
5,256.0	6.29	207.18	5,214.6	-456.4	-312.3	-454.2	1.55	-1.54	-1.65
5,271.5	6.27	207.24	5,230.0	-458.0	-313.1	-455.7	0.16	-0.15	0.40
Delaware Mountain Gp									
5,276.5	6.26	207.26	5,235.0	-458.4	-313.4	-456.2	0.16	-0.15	0.41
Lamar									
5,301.7	6.22	207.37	5,260.0	-460.9	-314.6	-458.6	0.16	-0.15	0.41
Bell Canyon									
5,321.8	6.19	207.45	5,280.0	-462.8	-315.6	-460.5	0.16	-0.15	0.41
Ramsey Sand									
5,402.0	6.07	207.79	5,359.8	-470.4	-319.6	-468.1	0.16	-0.15	0.42
5,497.0	8.57	216.67	5,454.0	-480.5	-326.1	-478.2	2.88	2.63	9.35
5,592.0	11.12	219.04	5,547.6	-493.3	-336.1	-490.9	2.72	2.68	2.49
5,686.0	11.74	221.50	5,639.7	-507.5	-348.2	-505.0	0.84	0.66	2.62
5,781.0	11.78	220.45	5,732.7	-522.1	-360.9	-519.5	0.23	0.04	-1.11
5,875.0	11.87	221.68	5,824.7	-536.7	-373.5	-534.0	0.28	0.10	1.31
5,970.0	12.31	222.82	5,917.6	-551.4	-386.9	-548.6	0.53	0.46	1.20
6,065.0	11.52	220.63	6,010.6	-566.0	-400.0	-563.1	0.96	-0.83	-2.31
6,159.0	10.99	218.08	6,102.8	-580.2	-411.6	-577.2	0.77	-0.56	-2.71
6,254.0	10.55	218.78	6,196.1	-594.1	-422.7	-591.1	0.48	-0.46	0.74
6,258.0	10.55	218.68	6,200.0	-594.7	-423.1	-591.6	0.46	0.09	-2.46
Cherry Canyon									
6,348.0	10.64	216.49	6,288.5	-607.8	-433.2	-604.7	0.46	0.10	-2.44
6,443.0	10.46	216.85	6,381.9	-621.7	-443.6	-618.5	0.20	-0.19	0.38
6,538.0	10.59	219.39	6,475.3	-635.4	-454.3	-632.1	0.51	0.14	2.67
6,633.0	10.81	218.60	6,568.6	-649.1	-465.4	-645.7	0.28	0.23	-0.83
6,727.0	11.25	218.08	6,660.9	-663.2	-476.6	-659.8	0.48	0.47	-0.55
6,822.0	11.38	218.87	6,754.0	-677.8	-488.2	-674.3	0.21	0.14	0.83
6,917.0	9.80	225.02	6,847.4	-690.8	-499.8	-687.2	2.04	-1.66	6.47
7,011.0	9.19	227.13	6,940.1	-701.6	-510.9	-697.9	0.75	-0.65	2.24
7,106.0	8.88	225.11	7,034.0	-711.9	-521.7	-708.1	0.47	-0.33	-2.13
7,201.0	8.92	224.84	7,127.8	-722.3	-532.1	-718.5	0.06	0.04	-0.28
7,295.0	9.01	228.01	7,220.7	-732.4	-542.7	-728.5	0.53	0.10	3.37
7,390.0	7.87	227.30	7,314.6	-741.8	-553.0	-737.8	1.20	-1.20	-0.75
7,484.0	7.56	225.72	7,407.8	-750.5	-562.1	-746.4	0.40	-0.33	-1.68
7,579.0	6.81	222.30	7,502.0	-759.0	-570.4	-754.9	0.91	-0.79	-3.60
7,673.0	6.46	227.57	7,595.4	-766.7	-578.1	-762.5	0.75	-0.37	5.61
7,768.0	4.66	229.33	7,690.0	-772.8	-584.9	-768.6	1.90	-1.89	1.85

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	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)
7,788.1	4.20	228.23	7,710.0	-773.8	-586.1	-769.6	2.33	-2.29	-5.46
Brushy Canyon									
7,863.0	2.51	220.63	7,784.8	-776.9	-589.2	-772.6	2.33	-2.26	-10.15
7,957.0	1.27	181.16	7,878.7	-779.5	-590.6	-775.2	1.84	-1.32	-41.99
8,052.0	1.10	178.26	7,973.7	-781.5	-590.6	-777.2	0.19	-0.18	-3.05
8,147.0	1.71	184.94	8,068.7	-783.8	-590.7	-779.5	0.66	0.64	7.03
8,242.0	1.63	176.59	8,163.6	-786.5	-590.7	-782.3	0.27	-0.08	-8.79
8,336.0	0.97	116.39	8,257.6	-788.2	-589.9	-784.0	1.51	-0.70	-64.04
8,431.0	1.41	81.67	8,352.6	-788.4	-588.0	-784.2	0.87	0.46	-36.55
8,526.0	0.75	91.95	8,447.6	-788.3	-586.3	-784.0	0.72	-0.69	10.82
8,620.0	0.79	122.45	8,541.6	-788.6	-585.1	-784.4	0.43	0.04	32.45
8,715.0	1.14	75.34	8,636.5	-788.7	-583.6	-784.5	0.88	0.37	-49.59
8,810.0	1.80	43.35	8,731.5	-787.4	-581.7	-783.2	1.08	0.69	-33.67
8,904.0	1.23	38.25	8,825.5	-785.6	-580.0	-781.4	0.62	-0.61	-5.43
8,999.0	1.49	64.53	8,920.5	-784.2	-578.3	-780.1	0.70	0.27	27.66
9,094.0	1.41	48.80	9,015.4	-782.9	-576.3	-778.8	0.43	-0.08	-16.56
9,188.0	0.66	40.54	9,109.4	-781.7	-575.1	-777.6	0.81	-0.80	-8.79
9,198.6	0.63	40.63	9,120.0	-781.7	-575.0	-777.5	0.27	-0.27	0.82
Bone Spring Lime									
9,283.0	0.40	41.77	9,204.4	-781.1	-574.5	-777.0	0.27	-0.27	1.35
9,318.6	0.56	36.63	9,240.0	-780.9	-574.3	-776.7	0.47	0.46	-14.45
Upper Avalon									
9,378.0	0.84	32.54	9,299.4	-780.3	-573.9	-776.1	0.47	0.47	-6.88
9,472.0	0.62	44.23	9,393.4	-779.3	-573.2	-775.2	0.28	-0.23	12.44
9,567.0	0.35	294.54	9,488.4	-778.8	-573.1	-774.7	0.85	-0.28	-115.46
9,588.6	0.33	258.87	9,510.0	-778.8	-573.2	-774.7	0.97	-0.09	-165.10
Middle Avalon									
9,661.0	0.84	204.37	9,582.4	-779.3	-573.6	-775.2	0.97	0.70	-75.28
9,756.0	0.97	217.02	9,677.4	-780.6	-574.4	-776.5	0.25	0.14	13.32
9,850.0	0.84	218.96	9,771.4	-781.8	-575.3	-777.6	0.14	-0.14	2.06
9,945.0	1.67	287.25	9,866.3	-781.9	-577.1	-777.8	1.65	0.87	71.88
9,967.0	2.11	270.28	9,888.3	-781.8	-577.8	-777.7	3.22	2.00	-77.14
9,993.7	2.38	307.90	9,915.0	-781.5	-578.7	-777.3	5.51	1.02	140.98
Lower Avalon									
10,071.0	5.80	347.98	9,992.1	-776.7	-580.8	-772.5	5.51	4.42	51.84
10,166.0	16.66	352.64	10,085.2	-758.4	-583.6	-754.2	11.46	11.43	4.91
10,246.0	24.43	348.23	10,160.0	-730.8	-588.4	-726.6	9.90	9.71	-5.51
1st Bone Spring Sand									
10,247.9	24.62	348.16	10,161.8	-730.0	-588.6	-725.8	9.90	9.77	-3.80
FTP @ 10247.9'MD, 100'FSL & 730'FEL									
10,260.0	25.80	347.72	10,172.7	-725.0	-589.6	-720.7	9.90	9.78	-3.61
10,355.0	39.30	350.97	10,252.6	-674.8	-598.8	-670.5	14.32	14.21	3.42
10,450.0	48.66	352.90	10,320.9	-609.6	-608.0	-605.2	9.95	9.85	2.03
10,497.0	51.52	355.63	10,351.0	-573.7	-611.5	-569.3	7.54	6.09	5.81
10,544.0	55.34	355.89	10,379.0	-536.1	-614.3	-531.7	8.14	8.13	0.55

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	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)
10,591.0	60.04	355.10	10,404.2	-496.5	-617.5	-492.1	10.10	10.00	-1.68
10,639.0	61.67	353.87	10,427.5	-454.8	-621.5	-450.3	4.07	3.40	-2.56
10,686.0	64.35	353.69	10,448.9	-413.1	-626.0	-408.6	5.71	5.70	-0.38
10,734.0	66.07	354.04	10,469.0	-369.8	-630.7	-365.3	3.64	3.58	0.73
10,749.0	66.78	354.27	10,475.0	-356.1	-632.1	-351.6	4.92	4.72	1.54
2nd Bone Spring Carb									
10,828.0	70.51	355.45	10,503.7	-282.9	-638.7	-278.3	4.92	4.72	1.49
10,923.0	75.60	356.94	10,531.4	-192.2	-644.7	-187.6	5.56	5.36	1.57
11,017.0	81.32	358.00	10,550.2	-100.2	-648.7	-95.6	6.18	6.09	1.13
11,112.0	87.69	357.38	10,559.3	-5.8	-652.5	-1.1	6.74	6.71	-0.65
11,207.0	87.87	356.68	10,563.0	89.0	-657.5	93.7	0.76	0.19	-0.74
11,301.0	90.81	356.77	10,564.1	182.8	-662.8	187.6	3.13	3.13	0.10
11,396.0	92.31	357.30	10,561.5	277.7	-667.7	282.4	1.67	1.58	0.56
11,490.0	92.31	356.86	10,557.7	371.5	-672.5	376.3	0.47	0.00	-0.47
11,585.0	91.96	357.03	10,554.2	466.3	-677.6	471.1	0.41	-0.37	0.18
11,680.0	91.60	356.68	10,551.2	561.1	-682.8	565.9	0.53	-0.38	-0.37
11,775.0	91.56	356.50	10,548.6	655.9	-688.4	660.8	0.19	-0.04	-0.19
11,869.0	89.14	358.79	10,548.0	749.8	-692.3	754.7	3.54	-2.57	2.44
11,964.0	89.32	358.17	10,549.3	844.7	-694.8	849.7	0.68	0.19	-0.65
12,059.0	89.54	357.47	10,550.2	939.7	-698.4	944.6	0.77	0.23	-0.74
12,153.0	88.57	356.42	10,551.8	1,033.5	-703.4	1,038.5	1.52	-1.03	-1.12
12,248.0	88.66	355.27	10,554.1	1,128.2	-710.3	1,133.3	1.21	0.09	-1.21
12,343.0	88.97	354.75	10,556.1	1,222.8	-718.6	1,228.0	0.64	0.33	-0.55
12,437.0	90.15	357.47	10,556.8	1,316.6	-725.0	1,321.8	3.15	1.26	2.89
12,532.0	90.73	0.72	10,556.0	1,411.6	-726.5	1,416.7	3.47	0.61	3.42
12,627.0	90.33	359.76	10,555.2	1,506.6	-726.1	1,511.7	1.09	-0.42	-1.01
12,721.0	90.33	359.23	10,554.6	1,600.6	-726.9	1,605.7	0.56	0.00	-0.56
12,816.0	88.04	0.99	10,556.0	1,695.6	-726.7	1,700.7	3.04	-2.41	1.85
12,911.0	88.04	359.84	10,559.2	1,790.5	-726.0	1,795.6	1.21	0.00	-1.21
13,006.0	88.44	359.76	10,562.1	1,885.4	-726.4	1,890.6	0.43	0.42	-0.08
13,101.0	88.70	359.76	10,564.5	1,980.4	-726.8	1,985.6	0.27	0.27	0.00
13,195.0	89.23	359.67	10,566.2	2,074.4	-727.2	2,079.6	0.57	0.56	-0.10
13,290.0	89.01	359.84	10,567.7	2,169.4	-727.6	2,174.5	0.29	-0.23	0.18
13,384.0	89.36	359.40	10,569.0	2,263.4	-728.3	2,268.5	0.60	0.37	-0.47
13,479.0	90.15	358.79	10,569.4	2,358.4	-729.8	2,363.5	1.05	0.83	-0.64
13,574.0	90.07	0.63	10,569.2	2,453.4	-730.2	2,458.5	1.94	-0.08	1.94
13,668.0	89.98	2.92	10,569.2	2,547.3	-727.3	2,552.4	2.44	-0.10	2.44
13,763.0	88.31	2.30	10,570.6	2,642.2	-723.0	2,647.3	1.88	-1.76	-0.65
13,858.0	88.70	2.57	10,573.1	2,737.1	-719.0	2,742.1	0.50	0.41	0.28
13,952.0	89.10	2.30	10,574.9	2,831.0	-715.0	2,836.0	0.51	0.43	-0.29
14,047.0	88.84	2.39	10,576.6	2,925.9	-711.1	2,930.9	0.29	-0.27	0.09
14,141.0	88.88	2.57	10,578.5	3,019.8	-707.0	3,024.8	0.20	0.04	0.19
14,236.0	89.01	2.92	10,580.2	3,114.6	-702.5	3,119.6	0.39	0.14	0.37

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	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)
14,331.0	90.42	1.25	10,580.7	3,209.6	-699.0	3,214.5	2.30	1.48	-1.76
14,425.0	90.07	1.07	10,580.3	3,303.6	-697.1	3,308.5	0.42	-0.37	-0.19
14,520.0	90.81	1.16	10,579.6	3,398.5	-695.3	3,403.4	0.78	0.78	0.09
14,615.0	91.91	0.02	10,577.3	3,493.5	-694.3	3,498.4	1.67	1.16	-1.20
14,709.0	90.46	359.76	10,575.4	3,587.5	-694.5	3,592.4	1.57	-1.54	-0.28
14,804.0	88.88	359.58	10,575.9	3,682.5	-695.0	3,687.3	1.67	-1.66	-0.19
14,899.0	89.54	359.58	10,577.2	3,777.5	-695.7	3,782.3	0.69	0.69	0.00
14,993.0	90.51	358.97	10,577.2	3,871.4	-696.9	3,876.3	1.22	1.03	-0.65
15,088.0	88.26	359.40	10,578.2	3,966.4	-698.2	3,971.3	2.41	-2.37	0.45
15,183.0	87.74	359.23	10,581.5	4,061.4	-699.4	4,066.3	0.58	-0.55	-0.18
15,277.0	88.44	358.79	10,584.6	4,155.3	-701.0	4,160.2	0.88	0.74	-0.47
15,372.0	89.49	359.05	10,586.4	4,250.3	-702.8	4,255.2	1.14	1.11	0.27
15,467.0	89.67	358.88	10,587.1	4,345.2	-704.5	4,350.2	0.26	0.19	-0.18
15,470.0	89.72	358.91	10,587.1	4,348.2	-704.6	4,353.2	1.86	1.63	0.89
LTP @ 15470'MD, 100'FNL & 809.4'FEL									
15,486.0	89.98	359.05	10,587.1	4,364.2	-704.9	4,369.2	1.86	1.63	0.89
LAST SVY									
15,551.0	89.98	359.05	10,587.1	4,429.2	-705.9	4,434.2	0.00	0.00	0.00
Projection to TD @ 15551'MD, 19'FNL & 810.2'FEL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Zeus State #144	0.00	0.00	10,560.0	-730.0	-684.0	446,483.00	776,957.00	32° 13' 30.581 N	103° 34' 16.979 W
- hit/miss target									
- Shape									
- Point									
- actual wellpath misses target center by 270.7usft at 10500.6usft MD (10353.3 TVD, -570.9 N, -611.8 E)									
LTP (Zeus State #144	0.00	0.00	10,575.0	4,348.0	-720.0	451,561.00	776,921.00	32° 14' 20.831 N	103° 34' 16.979 W
- hit/miss target									
- Shape									
- Point									
- actual wellpath misses target center by 19.6usft at 15470.0usft MD (10587.1 TVD, 4348.2 N, -704.6 E)									
PBHL (Zeus State #14	0.32	359.59	10,575.0	4,443.0	-721.0	451,656.00	776,920.00	32° 14' 21.772 N	103° 34' 16.982 W
- hit/miss target									
- Shape									
- Point									
- actual wellpath misses target center by 23.7usft at 15551.0usft MD (10587.1 TVD, 4429.2 N, -705.9 E)									
- Rectangle (sides W100.0 H5,173.0 D30.0)									

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	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 (°)
1,275.1	1,275.0	Rustler Anhydrite			
1,786.9	1,785.0	Top Salt			
5,019.3	4,980.0	Base Salt			
5,271.5	5,230.0	Delaware Mountain Gp			
5,276.5	5,235.0	Lamar			
5,301.7	5,260.0	Bell Canyon			
5,321.8	5,280.0	Ramsey Sand			
6,258.0	6,200.0	Cherry Canyon			
7,788.1	7,710.0	Brushy Canyon			
9,198.6	9,120.0	Bone Spring Lime			
9,318.6	9,240.0	Upper Avalon			
9,588.6	9,510.0	Middle Avalon			
9,993.7	9,915.0	Lower Avalon			
10,246.0	10,160.0	1st Bone Spring Sand			
10,749.0	10,475.0	2nd Bone Spring Carb			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,247.9	10,161.8	-730.0	-588.6	FTP @ 10247.9'MD, 100'FSL & 730'FEL
15,470.0	10,587.1	4,348.2	-704.6	LTP @ 15470'MD, 100'FNL & 809.4'FEL
15,486.0	10,587.1	4,364.2	-704.9	LAST SVY
15,551.0	10,587.1	4,429.2	-705.9	Projection to TD @ 15551'MD, 19'FNL & 810.2'FEL

Checked By: _____ Approved By: _____ Date: _____