



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print Report

03/05/2021

Operator Name TAP ROCK OPERATING LLC	Well Name MONEY GRAHAM 26S29E3229	Well Number 234H	US Well Number 3001545604
SHL Lot 4 Sec 32 26S 29E	County EDDY	State NM	Lease Number(s) NMNM138607, NMNM138607
Well Type CONVENTIONAL GAS WELL	Well Status Approved Application for Permit to Drill	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name MONEY GRAHAM EAST PAD	Well Pad Number 1	ID 10400032524

Section 1 - General

Well Completion Report Id: 28028	Submission Date: N/A until DB Work	
BLM Office: Carlsbad Field Office	User: BILL RAMSEY	Title: Regulatory Analyst
Federal/Indian: FEDERAL	Lease Number: NMNM138607	Lease Acres: 874.57
Agreement in place?: NO	Federal or Indian Agreement:	
Agreement Number:	Agreement Name:	
Keep this Well Completion Report confidential?: NO		
APD Operator: TAP ROCK OPERATING LLC		

Section 2 - Well Information

Field/Pool or Exploratory: Field/Pool	Pool Name:	Field Name: PURPLE SAGE
Well Type: CONVENTIONAL GAS WELL		
Spud Date: 01-17-2019		
Date Total Measured Depth Reached: 02-14-2019		
Drill & Abandon or Ready To Produce: READY TO PRODUCE		
Well Class: HORIZONTAL		

Section 3 - Geologic Formations

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
RUSTLER ANHYDRITE			2362	504	504	OTHER	Salt
SALADO	SALT		2187	679	679	OTHER	Salt

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Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
BASE OF SALT			478	2388	2389	OTHER	Salt
BELL CANYON	SANDSTONE		22	2844	2850	NATURAL GAS, OIL	
BRUSHY CANYON	SANDSTONE		-1958	4824	4849	NATURAL GAS, OIL	
BONE SPRING	LIMESTONE		-3603	6469	6510	NATURAL GAS, OIL	
BONE SPRING 1ST	SANDSTONE		-4528	7394	7432	NATURAL GAS, OIL	
BONE SPRING 2ND	SANDSTONE		-5238	8104	8142	NATURAL GAS, OIL	
BONE SPRING 3RD	SANDSTONE		-6348	9214	9252	OIL	
WOLFCAMP	OTHER	A	-6633	9499	9537	NATURAL GAS, OIL	
WOLFCAMP	OTHER	A Fat	-6923	9789	9827	NATURAL GAS, OIL	
WOLFCAMP	OTHER	B	-7173	10039	10077	NATURAL GAS, OIL	
QUATERNARY	OTHER	Caliche	2866	10833	18061	OTHER, USEABLE WATER	Salt

Completion and Completed Intervals

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Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM138607	NMNM138607	NEW		PGW	04-25-2019	04-30-2019	WOLFBO NE	10540	17840	Y	.39	1326	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	To/le Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	ACID FRAC	411292	1832500	34 stage frac with 1832500 lbs Mesh Sand

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1	54	.7	FLOW FROM WELL		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
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00	S1	1	06/09/2019	24	1013	10214	8153	10082	48/64	0	0	2925

Well Location

Survey Type: RECTANGULAR

Survey Number: 19642

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum:

Aliquot/Lot/Tract	Section	Range	Township	EW-Indicator	EW-Foot	NS-Indicator	NS-Foot	Plug Type	Plug MD (ft)	Plug TVD (ft)	Lease Number	Lease Type	Elevation (MSL)	Longitude	Latitude	County	Meridian	State
Lot 4	32	29E	26S	FEL	785	FSL	320				FEE		2866	-104.0007265	32.0009926	EDDY	NEW MEXICO PRINCIPAL	NEW MEXICO
Lot 4	32	29E	26S	FEL	408	FSL	100				FEE		-7453	-104.0007265	32.0009926	EDDY	NEW MEXICO PRINCIPAL	NEW MEXICO
NENE	29	29E	26S	FEL	337	FNL	200				NMNM138607	FEDERAL	-8054	-103.9990013	32.0205887	EDDY	NEW MEXICO PRINCIPAL	NEW MEXICO

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Casing, Liner and Tubing

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	543	13.375	54.5	J-55		OTHER	BTC	
00	INTERMEDIATE	12.25	0	2793	9.625	40	J-55		OTHER	BTC	
00	PRODUCTION	6.75	0	9848	5.5	20	P-110		OTHER	BTC	
00	INTERMEDIATE	8.75	0	10110	7.625	29.7	P-110		OTHER	Flush	
00	PRODUCTION	6.75	9848	18030	5.0	18	P-110		OTHER	BTC	

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield (cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume (bbbls)
00	SURFACE		None	0	0	0	Class C	580	1.34	0	138.4
00	INTERMEDIATE		Class C	638	2.35	0	Class C	222	1.33	0	319.6
00	PRODUCTION		Class C	560	1.35	2200	Class C	1025	1.26	0	364.7

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00	INTERMEDIATE		Class C	289	2.88	0	Class H	220	1.27	0	198

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		9813			L-80			

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report Completed?	Wellbore Diagram
00	YES	NO	NO	YES	NO	NO

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Operator Certification

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: TAP ROCK OPERATING LLC

Signed By: BILL RAMSEY

Title: Regulatory Analyst

Signed on: 01/20/2021

Street Address: 602 PARK POINT DRIVE SUITE 200

City: GOLDEN

State: CO

Zip: 80401

Phone: (720)460-3316

Email address:

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Extension:

Email address:

Attachments

Money_Graham__20210120071556

TapRock_Money_Graham__20210120071712

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name MONEY GRAHAM 26S29E3229	⁶ Well Number 234H
⁷ OGRID No.	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 2866'

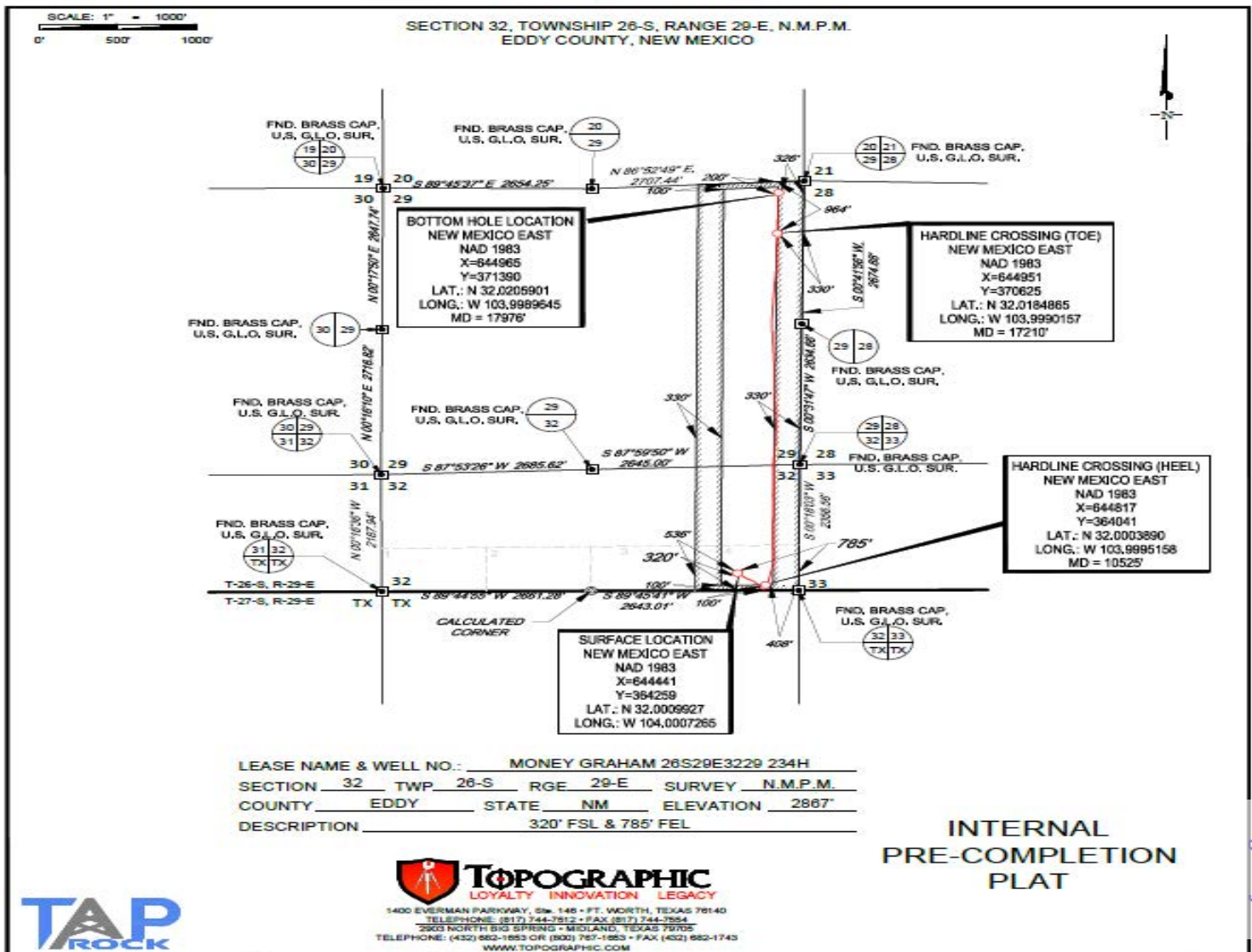
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	32	26-S	29-E	-	320'	SOUTH	785'	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	29	26-S	29-E	-	200'	NORTH	337'	EAST	EDDY

¹² Dedicated Acres 445.60	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.





Operator: TapRock Resources LLC
Well Name: Money Graham #234H
County: Eddy
State: New Mexico
Rig Name: H&P 422
API Number: 30-015-45604

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: 26.5' MD – 17,977' MD
Projection to Bit: 18,061' MD
Dates Performed: 01/29/2019 – 02/17/2019
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





Tap Rock Resources, LLC

**Eddy County, NM (NAD 83 NME)
(Money Graham) Sec-32_T-26-S_R-29-E
Money Graham 26S29E3229 #234H
API# 30-015-45604
OWB**

Design: AWB

Standard Survey Report

15 February, 2019





Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Money Graham 26S29E3229 #234H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2892.5usft (H&P 422)
Site:	(Money Graham) Sec-32_T-26-S_R-29-E	MD Reference:	KB @ 2892.5usft (H&P 422)
Well:	Money Graham 26S29E3229 #234H	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	(Money Graham) Sec-32_T-26-S_R-29-E		
Site Position:		Northing:	364,259.00 usft
From:	Map	Easting:	644,466.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 3.571 N
		Longitude:	104° 0' 2.323 W
		Grid Convergence:	0.18 °

Well	Money Graham 26S29E3229 #234H		
Well Position	+N/-S	0.0 usft	Northing: 364,259.00 usft
	+E/-W	0.0 usft	Easting: 644,441.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 0' 3.571 N
		Longitude:	104° 0' 2.613 W
		Ground Level:	2,866.0 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	01/25/19	6.96
			Dip Angle (°) 59.77
			Field Strength (nT) 47,599.35302490

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)
	0.0	0.0	0.0
			Direction (°) 0.53

Survey Program	Date	02/15/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
26.5	479.5	VES Gyro (OWB)	GYRO-NS	OWSG Gyrocompass Gyro
606.0	17,977.0	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
26.5	0.00	0.00	26.5	0.0	0.0	0.0	0.00	0.00	0.00
56.5	1.07	16.43	56.5	0.3	0.1	0.3	3.57	3.57	0.00
86.5	1.07	24.96	86.5	0.8	0.3	0.8	0.53	0.00	28.43
116.5	1.52	38.30	116.5	1.4	0.6	1.4	1.80	1.50	44.47
146.5	1.38	21.66	146.5	2.0	1.0	2.0	1.47	-0.47	-55.47
176.5	1.13	16.23	176.5	2.6	1.2	2.6	0.92	-0.83	-18.10
206.5	1.36	8.65	206.5	3.3	1.4	3.3	0.94	0.77	-25.27
236.5	1.13	12.06	236.5	3.9	1.5	3.9	0.81	-0.77	11.37
266.5	1.24	12.71	266.4	4.5	1.6	4.5	0.37	0.37	2.17



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Money Graham 26S29E3229 #234H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2892.5usft (H&P 422)
Site:	(Money Graham) Sec-32_T-26-S_R-29-E	MD Reference:	KB @ 2892.5usft (H&P 422)
Well:	Money Graham 26S29E3229 #234H	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)
296.5	1.10	16.25	296.4	5.1	1.8	5.1	0.52	-0.47	11.80
326.5	1.08	9.81	326.4	5.7	1.9	5.7	0.41	-0.07	-21.47
356.5	0.98	8.17	356.4	6.2	2.0	6.2	0.35	-0.33	-5.47
386.5	0.95	7.28	386.4	6.7	2.1	6.7	0.11	-0.10	-2.97
416.5	0.92	4.43	416.4	7.2	2.1	7.2	0.18	-0.10	-9.50
446.5	1.11	1.72	446.4	7.7	2.1	7.7	0.65	0.63	-9.03
479.5	0.86	349.69	479.4	8.3	2.1	8.3	0.98	-0.76	-36.45
Tie to VES Gyro									
497.1	0.96	352.43	497.0	8.5	2.1	8.6	0.60	0.55	15.56
Rustler Anhydrite									
606.0	1.58	1.69	605.9	10.9	2.0	11.0	0.60	0.57	8.50
672.1	0.87	62.52	672.0	12.1	2.5	12.1	2.09	-1.08	91.99
Top Salt									
786.0	2.59	129.05	785.8	10.9	5.2	10.9	2.09	1.51	58.43
966.0	8.70	138.19	964.9	-1.9	17.5	-1.7	3.42	3.39	5.08
1,145.0	10.37	135.10	1,141.4	-23.4	37.9	-23.0	0.98	0.93	-1.73
1,327.0	7.47	132.83	1,321.2	-43.0	58.1	-42.5	1.60	-1.59	-1.25
1,515.0	6.11	133.97	1,507.8	-58.3	74.3	-57.6	0.73	-0.72	0.61
1,705.0	7.87	126.50	1,696.4	-73.0	92.0	-72.2	1.04	0.93	-3.93
1,893.0	5.98	130.28	1,883.1	-87.0	109.8	-86.0	1.03	-1.01	2.01
2,082.0	8.44	116.65	2,070.6	-99.6	129.7	-98.4	1.58	1.30	-7.21
2,271.0	8.92	121.14	2,257.4	-113.4	154.7	-112.0	0.44	0.25	2.38
2,397.2	9.13	120.66	2,382.0	-123.6	171.6	-122.0	0.17	0.16	-0.38
Base Salt									
2,460.0	9.23	120.43	2,444.0	-128.7	180.3	-127.0	0.17	0.16	-0.37
2,649.0	9.27	125.00	2,630.6	-145.1	205.8	-143.2	0.39	0.02	2.42
2,737.0	9.10	131.42	2,717.4	-153.7	216.8	-151.7	1.18	-0.19	7.30
2,741.6	9.07	131.46	2,722.0	-154.2	217.4	-152.2	0.67	-0.66	0.77
Delaware Mountain Gp									
2,823.0	8.53	132.12	2,802.4	-162.5	226.7	-160.4	0.67	-0.66	0.82
2,858.0	8.49	133.08	2,837.0	-166.0	230.5	-163.9	0.42	-0.11	2.74
Bell Canyon - Lamar									
2,898.4	8.45	134.20	2,877.0	-170.1	234.8	-167.9	0.42	-0.10	2.77
Ramsey Sand									
3,012.0	8.35	137.40	2,989.4	-182.0	246.4	-179.7	0.42	-0.09	2.82
3,202.0	8.00	140.56	3,177.5	-202.4	264.1	-199.9	0.30	-0.18	1.66
3,390.0	7.34	141.79	3,363.8	-221.9	279.8	-219.3	0.36	-0.35	0.65
3,579.0	6.68	145.75	3,551.4	-240.5	293.5	-237.8	0.43	-0.35	2.10
3,768.0	5.76	144.08	3,739.2	-257.3	305.2	-254.4	0.50	-0.49	-0.88
3,881.3	5.31	145.42	3,852.0	-266.2	311.6	-263.3	0.41	-0.40	1.18
Cherry Canyon									
3,957.0	5.01	146.45	3,927.4	-271.8	315.4	-268.9	0.41	-0.40	1.36
4,145.0	4.62	147.06	4,114.7	-285.0	324.0	-282.0	0.21	-0.21	0.32
4,334.0	2.86	130.80	4,303.3	-294.5	331.7	-291.4	1.08	-0.93	-8.60



Intrepid Survey Report



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Well:	Money Graham 26S29E3229 #234H	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)
4,523.0	0.92	42.47	4,492.3	-296.4	336.3	-293.3	1.58	-1.03	-46.74
4,712.0	0.75	79.65	4,681.2	-295.1	338.6	-292.0	0.29	-0.09	19.67
4,867.8	0.53	80.24	4,837.0	-294.8	340.3	-291.6	0.14	-0.14	0.38
Brushy Canyon									
4,901.0	0.48	80.44	4,870.2	-294.8	340.6	-291.6	0.14	-0.14	0.59
5,090.0	0.48	180.73	5,059.2	-295.4	341.3	-292.2	0.39	0.00	53.06
5,280.0	0.79	0.90	5,249.2	-294.9	341.3	-291.7	0.67	0.16	-94.65
5,469.0	0.48	214.39	5,438.2	-294.2	340.9	-291.1	0.65	-0.16	-77.52
5,658.0	0.13	227.31	5,627.2	-295.0	340.3	-291.9	0.19	-0.19	6.84
5,847.0	0.79	178.62	5,816.2	-296.5	340.2	-293.3	0.38	0.35	-25.76
6,036.0	1.01	169.21	6,005.2	-299.4	340.5	-296.3	0.14	0.12	-4.98
6,225.0	1.01	44.67	6,194.2	-299.9	342.0	-296.7	0.95	0.00	-65.89
6,414.0	0.97	38.87	6,383.1	-297.5	344.2	-294.3	0.06	-0.02	-3.07
6,512.9	0.61	108.07	6,482.0	-297.0	345.2	-293.8	0.96	-0.36	69.99
Bone Spring Lime									
6,602.9	1.19	152.04	6,572.0	-297.9	346.1	-294.7	0.96	0.64	48.85
Upper Avalon									
6,603.0	1.19	152.07	6,572.1	-297.9	346.1	-294.7	0.96	0.83	22.74
6,791.0	1.49	323.99	6,760.1	-297.7	345.6	-294.5	1.42	0.16	91.45
6,980.0	1.89	288.57	6,949.0	-294.7	341.2	-291.5	0.58	0.21	-18.74
6,998.0	1.99	288.11	6,967.0	-294.5	340.6	-291.4	0.59	0.58	-2.58
Middle Avalon									
7,169.0	2.99	285.32	7,137.8	-292.4	333.5	-289.3	0.59	0.58	-1.63
7,183.2	2.97	287.03	7,152.0	-292.2	332.8	-289.1	0.64	-0.12	12.06
Lower Avalon									
7,358.0	2.99	308.61	7,326.6	-288.0	324.9	-285.0	0.64	0.01	12.34
7,408.5	2.33	315.86	7,377.0	-286.5	323.1	-283.5	1.46	-1.31	14.37
1st Bone Spring Sand									
7,548.0	1.19	17.07	7,516.5	-283.1	321.6	-280.1	1.46	-0.82	43.86
7,673.5	0.86	341.16	7,642.0	-280.9	321.7	-277.9	0.56	-0.26	-28.60
2nd Bone Spring Carb									
7,736.0	0.88	317.92	7,704.5	-280.1	321.2	-277.1	0.56	0.03	-37.21
7,925.0	0.97	211.22	7,893.4	-280.4	319.4	-277.4	0.79	0.05	-56.46
7,943.6	0.86	202.11	7,912.0	-280.7	319.3	-277.7	0.98	-0.58	-49.07
2nd Bone Spring Sand									
8,114.0	1.41	111.29	8,082.4	-282.6	320.7	-279.6	0.98	0.32	-53.29
8,303.0	1.05	151.37	8,271.4	-285.0	323.7	-282.0	0.48	-0.19	21.21
8,492.0	1.23	166.93	8,460.3	-288.5	325.0	-285.5	0.19	0.10	8.23
8,523.7	1.23	165.29	8,492.0	-289.1	325.2	-286.1	0.11	0.01	-5.18
3rd Bone Spring Carb									
8,680.0	1.27	157.43	8,648.3	-292.4	326.3	-289.3	0.11	0.02	-5.03
8,869.0	0.70	131.77	8,837.3	-295.1	327.9	-292.0	0.37	-0.30	-13.58
9,058.0	0.79	166.58	9,026.3	-297.1	329.1	-294.1	0.24	0.05	18.42
9,193.8	0.93	186.68	9,162.0	-299.1	329.2	-296.1	0.24	0.10	14.81



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Money Graham 26S29E3229 #234H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2892.5usft (H&P 422)
Site:	(Money Graham) Sec-32_T-26-S_R-29-E	MD Reference:	KB @ 2892.5usft (H&P 422)
Well:	Money Graham 26S29E3229 #234H	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)	
3rd Bone Spring Sand										
9,248.0	1.01	192.85	9,216.2	-300.0	329.0	-297.0	0.24	0.15	11.37	
9,437.0	1.14	123.16	9,405.2	-302.7	330.2	-299.6	0.65	0.07	-36.87	
9,503.8	1.25	123.59	9,472.0	-303.4	331.4	-300.4	0.16	0.16	0.64	
3rd BS W Sand										
9,593.8	1.40	124.06	9,562.0	-304.6	333.1	-301.5	0.16	0.16	0.53	
Wolfcamp A X Sand										
9,626.0	1.45	124.21	9,594.2	-305.0	333.8	-301.9	0.16	0.16	0.45	
9,693.9	1.43	126.52	9,662.0	-306.0	335.2	-302.9	0.09	-0.02	3.40	
Wolfcamp A Y Sand										
9,808.9	1.41	130.54	9,777.0	-307.8	337.4	-304.7	0.09	-0.02	3.50	
Wolfcamp A Lower										
9,814.0	1.41	130.72	9,782.1	-307.9	337.5	-304.8	0.09	-0.02	3.55	
10,003.0	0.18	109.18	9,971.1	-309.5	339.5	-306.4	0.66	-0.65	-11.40	
10,048.9	0.15	180.78	10,017.0	-309.6	339.6	-306.4	0.42	-0.07	155.91	
Wolfcamp B										
10,061.0	0.18	195.23	10,029.1	-309.6	339.6	-306.5	0.42	0.25	119.65	
10,194.0	0.20	263.30	10,162.1	-309.9	339.3	-306.7	0.16	0.02	51.18	
10,289.0	6.30	11.40	10,256.9	-304.8	340.2	-301.6	6.70	6.42	113.79	
10,336.0	13.60	18.70	10,303.1	-297.0	342.5	-293.8	15.73	15.53	15.53	
10,383.0	18.50	22.60	10,348.3	-284.9	347.1	-281.6	10.67	10.43	8.30	
10,430.0	27.00	24.60	10,391.6	-268.2	354.4	-265.0	18.16	18.09	4.26	
10,477.0	34.60	24.60	10,432.0	-246.4	364.4	-243.0	16.17	16.17	0.00	
10,524.0	41.80	21.00	10,468.9	-219.6	375.6	-216.1	16.03	15.32	-7.66	
10,571.0	45.40	15.10	10,502.9	-188.8	385.6	-185.2	11.55	7.66	-12.55	
10,598.7	47.33	13.24	10,522.0	-169.4	390.5	-165.8	8.52	6.98	-6.74	
Wolfcamp C										
10,618.0	48.70	12.00	10,534.9	-155.3	393.6	-151.7	8.52	7.07	-6.39	
10,665.0	52.70	11.50	10,564.7	-119.7	401.0	-116.0	8.55	8.51	-1.06	
10,712.0	53.80	11.40	10,592.8	-82.8	408.5	-79.1	2.35	2.34	-0.21	
10,759.0	56.10	10.60	10,619.8	-45.1	415.9	-41.2	5.09	4.89	-1.70	
10,806.0	60.70	10.10	10,644.4	-5.7	423.0	-1.8	9.83	9.79	-1.06	
10,826.5	61.55	10.53	10,654.3	12.0	426.3	15.9	4.55	4.16	2.11	
FTP @ 10826.5'MD, 330'FNL & 358.5'FEL										
10,854.0	62.70	11.10	10,667.2	35.8	430.8	39.8	4.55	4.17	2.07	
10,901.0	64.90	10.50	10,687.9	77.3	438.7	81.3	4.82	4.68	-1.28	
10,949.0	66.90	10.70	10,707.5	120.3	446.8	124.5	4.18	4.17	0.42	
10,996.0	71.00	8.40	10,724.4	163.6	454.0	167.8	9.85	8.72	-4.89	
11,043.0	72.20	5.00	10,739.3	207.9	459.2	212.1	7.32	2.55	-7.23	
11,090.0	74.90	1.30	10,752.6	252.9	461.7	257.1	9.49	5.74	-7.87	
11,137.0	78.90	359.40	10,763.2	298.6	462.0	302.9	9.38	8.51	-4.04	
11,211.0	86.40	359.20	10,772.7	372.0	461.1	376.2	10.14	10.14	-0.27	
11,273.0	86.20	358.80	10,776.7	433.8	460.0	438.1	0.72	-0.32	-0.65	
11,367.0	88.00	359.70	10,781.4	527.7	458.8	531.9	2.14	1.91	0.96	
11,461.0	88.70	359.80	10,784.1	621.6	458.4	625.9	0.75	0.74	0.11	



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Money Graham 26S29E3229 #234H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2892.5usft (H&P 422)
Site:	(Money Graham) Sec-32_T-26-S_R-29-E	MD Reference:	KB @ 2892.5usft (H&P 422)
Well:	Money Graham 26S29E3229 #234H	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)
11,555.0	88.40	0.10	10,786.5	715.6	458.3	719.8	0.45	-0.32	0.32
11,648.0	89.50	0.30	10,788.2	808.6	458.6	812.8	1.20	1.18	0.22
11,743.0	87.60	359.80	10,790.6	903.6	458.7	907.8	2.07	-2.00	-0.53
11,836.0	90.40	0.90	10,792.3	996.5	459.3	1,000.7	3.23	3.01	1.18
11,931.0	92.50	1.40	10,789.8	1,091.5	461.2	1,095.7	2.27	2.21	0.53
12,026.0	91.60	0.40	10,786.4	1,186.4	462.7	1,190.6	1.42	-0.95	-1.05
12,120.0	89.10	359.10	10,785.9	1,280.4	462.2	1,284.6	3.00	-2.66	-1.38
12,214.0	90.90	358.70	10,785.9	1,374.4	460.4	1,378.6	1.96	1.91	-0.43
12,309.0	93.70	359.90	10,782.1	1,469.3	459.3	1,473.5	3.21	2.95	1.26
12,402.0	93.10	1.30	10,776.5	1,562.1	460.2	1,566.3	1.64	-0.65	1.51
12,495.0	90.00	0.80	10,774.0	1,655.0	462.0	1,659.2	3.38	-3.33	-0.54
12,589.0	89.00	0.00	10,774.9	1,749.0	462.6	1,753.2	1.36	-1.06	-0.85
12,684.0	88.70	0.80	10,776.8	1,844.0	463.3	1,848.2	0.90	-0.32	0.84
12,778.0	87.80	0.30	10,779.6	1,938.0	464.2	1,942.2	1.10	-0.96	-0.53
12,872.0	88.10	0.90	10,783.0	2,031.9	465.2	2,036.1	0.71	0.32	0.64
12,965.0	88.10	2.70	10,786.1	2,124.8	468.1	2,129.0	1.93	0.00	1.94
13,060.0	88.70	3.50	10,788.7	2,219.6	473.2	2,223.9	1.05	0.63	0.84
13,154.0	89.80	3.50	10,790.0	2,313.4	478.9	2,317.8	1.17	1.17	0.00
13,248.0	88.60	2.40	10,791.3	2,407.3	483.8	2,411.7	1.73	-1.28	-1.17
13,342.0	88.10	1.80	10,794.0	2,501.2	487.2	2,505.6	0.83	-0.53	-0.64
13,437.0	87.80	1.10	10,797.4	2,596.1	489.6	2,600.5	0.80	-0.32	-0.74
13,531.0	87.00	0.50	10,801.6	2,690.0	490.9	2,694.4	1.06	-0.85	-0.64
13,625.0	88.50	359.50	10,805.3	2,783.9	490.9	2,788.3	1.92	1.60	-1.06
13,718.0	91.60	359.70	10,805.2	2,876.9	490.3	2,881.3	3.34	3.33	0.22
13,812.0	92.10	358.60	10,802.2	2,970.8	488.9	2,975.2	1.28	0.53	-1.17
13,905.0	93.30	358.70	10,797.8	3,063.7	486.7	3,068.1	1.29	1.29	0.11
13,999.0	92.70	358.50	10,792.9	3,157.6	484.4	3,161.9	0.67	-0.64	-0.21
14,093.0	90.60	359.10	10,790.2	3,251.5	482.5	3,255.8	2.32	-2.23	0.64
14,188.0	87.40	359.00	10,791.9	3,346.4	480.9	3,350.8	3.37	-3.37	-0.11
14,281.0	86.20	357.30	10,797.1	3,439.3	477.9	3,443.5	2.24	-1.29	-1.83
14,375.0	89.10	357.90	10,800.9	3,533.1	473.9	3,537.3	3.15	3.09	0.64
14,468.0	90.80	0.20	10,801.0	3,626.1	472.4	3,630.3	3.08	1.83	2.47
14,562.0	89.30	358.40	10,800.9	3,720.0	471.3	3,724.2	2.49	-1.60	-1.91
14,656.0	90.60	0.50	10,801.0	3,814.0	470.4	3,818.2	2.63	1.38	2.23
14,750.0	89.60	358.40	10,800.8	3,908.0	469.5	3,912.2	2.47	-1.06	-2.23
14,843.0	88.90	357.50	10,802.0	4,001.0	466.1	4,005.1	1.23	-0.75	-0.97
14,938.0	90.30	357.90	10,802.7	4,095.9	462.3	4,100.0	1.53	1.47	0.42
15,032.0	90.70	357.40	10,801.9	4,189.8	458.5	4,193.8	0.68	0.43	-0.53
15,125.0	89.70	356.60	10,801.6	4,282.7	453.6	4,286.7	1.38	-1.08	-0.86
15,220.0	90.60	357.00	10,801.3	4,377.5	448.3	4,381.5	1.04	0.95	0.42
15,313.0	90.00	357.00	10,800.8	4,470.4	443.4	4,474.3	0.65	-0.65	0.00
15,407.0	90.20	357.60	10,800.7	4,564.3	439.0	4,568.1	0.67	0.21	0.64
15,501.0	90.30	0.50	10,800.3	4,658.2	437.4	4,662.1	3.09	0.11	3.09



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Money Graham 26S29E3229 #234H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2892.5usft (H&P 422)
Site:	(Money Graham) Sec-32_T-26-S_R-29-E	MD Reference:	KB @ 2892.5usft (H&P 422)
Well:	Money Graham 26S29E3229 #234H	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)
15,595.0	89.90	1.90	10,800.1	4,752.2	439.4	4,756.1	1.55	-0.43	1.49
15,689.0	92.00	4.00	10,798.5	4,846.1	444.2	4,850.0	3.16	2.23	2.23
15,783.0	89.20	2.40	10,797.5	4,939.9	449.5	4,943.9	3.43	-2.98	-1.70
15,877.0	88.90	2.50	10,799.1	5,033.8	453.5	5,037.8	0.34	-0.32	0.11
15,971.0	90.00	3.90	10,800.0	5,127.7	458.8	5,131.7	1.89	1.17	1.49
16,064.0	88.90	2.70	10,800.9	5,220.5	464.1	5,224.6	1.75	-1.18	-1.29
16,158.0	90.80	4.00	10,801.1	5,314.3	469.6	5,318.4	2.45	2.02	1.38
16,252.0	91.30	3.70	10,799.4	5,408.1	475.9	5,412.3	0.62	0.53	-0.32
16,346.0	90.80	3.10	10,797.7	5,501.9	481.5	5,506.1	0.83	-0.53	-0.64
16,440.0	91.30	3.10	10,796.0	5,595.8	486.6	5,600.0	0.53	0.53	0.00
16,534.0	90.80	3.20	10,794.3	5,689.6	491.7	5,693.9	0.54	-0.53	0.11
16,627.0	89.20	3.50	10,794.3	5,782.4	497.2	5,786.8	1.75	-1.72	0.32
16,722.0	84.80	0.80	10,799.2	5,877.2	500.7	5,881.6	5.43	-4.63	-2.84
16,817.0	84.40	0.00	10,808.2	5,971.8	501.4	5,976.2	0.94	-0.42	-0.84
16,911.0	87.10	0.90	10,815.1	6,065.5	502.1	6,069.9	3.03	2.87	0.96
17,005.0	88.20	359.40	10,819.0	6,159.4	502.4	6,163.8	1.98	1.17	-1.60
17,099.0	91.60	3.80	10,819.2	6,253.4	505.0	6,257.8	5.91	3.62	4.68
17,193.0	89.60	2.10	10,818.2	6,347.2	509.8	6,351.7	2.79	-2.13	-1.81
17,287.0	91.10	3.30	10,817.6	6,441.1	514.3	6,445.6	2.04	1.60	1.28
17,382.0	90.50	1.70	10,816.3	6,536.0	518.4	6,540.5	1.80	-0.63	-1.68
17,476.0	88.50	0.50	10,817.1	6,630.0	520.2	6,634.5	2.48	-2.13	-1.28
17,570.0	88.60	0.30	10,819.5	6,724.0	520.9	6,728.5	0.24	0.11	-0.21
17,664.0	88.00	0.30	10,822.3	6,817.9	521.4	6,822.4	0.64	-0.64	0.00
17,758.0	89.90	3.00	10,824.0	6,911.8	524.1	6,916.4	3.51	2.02	2.87
17,847.3	88.47	359.49	10,825.2	7,001.1	526.0	7,005.7	4.25	-1.60	-3.94
LTP @ 17847.3'MD, 330'FNL & 322.9'FEL									
17,852.0	88.40	359.30	10,825.4	7,005.8	525.9	7,010.4	4.25	-1.59	-3.94
17,945.0	87.70	359.10	10,828.5	7,098.7	524.6	7,103.3	0.78	-0.75	-0.22
LAST SVY									
17,977.0	87.70	359.10	10,829.8	7,130.7	524.1	7,135.2	0.00	0.00	0.00
Projection to TD @ 18061'MD, 200.5'FNL & 337'FEL									



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Money Graham 26S29E3229 #234H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2892.5usft (H&P 422)
Site:	(Money Graham) Sec-32_T-26-S_R-29-E	MD Reference:	KB @ 2892.5usft (H&P 422)
Well:	Money Graham 26S29E3229 #234H	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)		
FTP (Money Graham	0.00	0.00	10,780.0	12.0	447.0	364,271.00	644,888.00	32° 0' 3.677 N	103° 59' 57.421 W
- actual wellpath misses target center by 111.9usft at 10885.5usft MD (10681.3 TVD, 63.5 N, 436.1 E)									
- Point									
PBHL (Money Graham	0.42	0.53	10,830.0	7,130.0	513.0	371,389.00	644,954.00	32° 1' 14.116 N	103° 59' 56.399 W
- actual wellpath misses target center by 11.2usft at 17976.5usft MD (10829.8 TVD, 7130.2 N, 524.2 E)									
- Rectangle (sides W60.0 H7,118.3 D30.0)									
LTP (Money Graham :	0.00	0.00	10,830.0	7,000.0	511.0	371,259.00	644,952.00	32° 1' 12.829 N	103° 59' 56.427 W
- actual wellpath misses target center by 15.8usft at 17845.9usft MD (10825.2 TVD, 6999.7 N, 526.0 E)									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
497.1	497.0	Rustler Anhydrite			
672.1	672.0	Top Salt			
2,397.2	2,382.0	Base Salt			
2,741.6	2,722.0	Delaware Mountain Gp			
2,858.0	2,837.0	Bell Canyon			
2,858.0	2,837.0	Lamar			
2,898.4	2,877.0	Ramsey Sand			
3,881.3	3,852.0	Cherry Canyon			
4,867.8	4,837.0	Brushy Canyon			
6,512.9	6,482.0	Bone Spring Lime			
6,602.9	6,572.0	Upper Avalon			
6,998.0	6,967.0	Middle Avalon			
7,183.2	7,152.0	Lower Avalon			
7,408.5	7,377.0	1st Bone Spring Sand			
7,673.5	7,642.0	2nd Bone Spring Carb			
7,943.6	7,912.0	2nd Bone Spring Sand			
8,523.7	8,492.0	3rd Bone Spring Carb			
9,193.8	9,162.0	3rd Bone Spring Sand			
9,503.8	9,472.0	3rd BS W Sand			
9,593.8	9,562.0	Wolfcamp A X Sand			
9,693.9	9,662.0	Wolfcamp A Y Sand			
9,808.9	9,777.0	Wolfcamp A Lower			
10,048.9	10,017.0	Wolfcamp B			
10,598.7	10,522.0	Wolfcamp C			



Intrepid Survey Report



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Site:	(Money Graham) Sec-32_T-26-S_R-29-E	MD Reference:	KB @ 2892.5usft (H&P 422)
Well:	Money Graham 26S29E3229 #234H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
479.5	479.4	8.3	2.1	Tie to VES Gyro
10,826.5	10,654.3	12.0	426.3	FTP @ 10826.5'MD, 330'FNL & 358.5'FEL
17,847.3	10,825.2	7,001.1	526.0	LTP @ 17847.3'MD, 330'FNL & 322.9'FEL
17,945.0	10,828.5	7,098.7	524.6	
17,977.0	10,829.8	7,130.7	524.1	LAST SVY
18061.0	10,833.8	7,215.2	522.2	Projection to TD @ 18061'MD, 200'FNL & 337'FEL

Checked By: _____ Approved By: _____ Date: _____

District I

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 19872

CONDITIONS OF APPROVAL

Operator: TAP ROCK OPERATING, LLC Suite 200 Golden, CO80401	523 Park Point Drive	OGRID: 372043	Action Number: 19872	Action Type: C-105
OCD Reviewer plmartinez		Condition None		