

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address BTA OIL PRODUCERS, LLC 104 S. PECOS MIDLAND, TX. 79701		² OGRID Number 260297	
		³ Reason for Filing Code/ Effective Date NEW WELL 3/2/2021	
⁴ API Number 30 – 015-46134	⁵ Pool Name CULEBRA BLUFF; BONE SPRING, SOUTH		⁶ Pool Code 15011
⁷ Property Code 325766	⁸ Property Name HADES 22102 2 STATE COM		⁹ Well Number 5H

II. ¹⁰ Surface Location

UL or lot no. A	Section 2	Township 23S	Range 28E	Lot Idn	Feet from the 521	North/South Line NORTH	Feet from the 1070	East/West line EAST	County EDDY
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¹¹ Bottom Hole Location

UL or lot no. O	Section 2	Township 23S	Range 28E	Lot Idn	Feet from the 101	North/South line SOUTH	Feet from the 2306	East/West line EAST	County EDDY
¹² Lse Code F	¹³ Producing Method Code FLOWING		¹⁴ Gas Connection Date		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
151618	ENTERPRISE CRUDE OIL, LLC	O
327139	SENDERO 1000 LOUISIANA AVE, SUITE 6900 HOUSTON, TX. 77002	G

IV. Well Completion Data

²¹ Spud Date 10/23/2020	²² Ready Date 3/2/2021	²³ TD 13,421’	²⁴ PBTd 13,421’	²⁵ Perforations 8,800’ – 13,287’	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 1/2		13 3/8	468		555
8 3/4		5 1/2	13,408		1821

V. Well Test Data

³¹ Date New Oil 3/2/2021	³² Gas Delivery Date FLARE	³³ Test Date 3/8/2021	³⁴ Test Length 24	³⁵ Tbg. Pressure 880	³⁶ Csg. Pressure 1250
³⁷ Choke Size 28/64	³⁸ Oil 227	³⁹ Water 2667	⁴⁰ Gas 698		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: Katy Reddell			OIL CONSERVATION DIVISION Approved by: KURT SIMMONS		
Printed name: KATY REDDELL			Title: NMMOCD, SANTA FE		
Title: REGULATORY ANALYST			Approval Date: 07/07/2021		
E-mail Address: kreddell@btaoil.com					
Date: 4/15/2021		Phone: 432-682-3753			

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

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-46134	² Pool Code 15011	³ Pool Name CULEBRA BLUFF; BONE SPRING, SOUTH
⁴ Property Code 325766	Property Name HADES 22102 2 STATE COM	⁶ Well Number 5H
⁷ OGRID No. 260297	⁸ Operator Name BTA OIL PRODUCERS, LLC	⁹ Elevation 3069'

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
A	2	23S	28E		521	NORTH	1070	EAST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	2	23S	28E		101	SOUTH	2306	EAST	EDDY
¹² Dedicated Acres 318.97	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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

1 CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 629075.09' / Y: 488269.73' B - X: 629059.56' / Y: 482925.07' C - X: 626359.90' / Y: 482920.26' D - X: 626412.61' / Y: 488262.71' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 587892.62' / Y: 488209.99' B - X: 587876.94' / Y: 482865.46' C - X: 585177.32' / Y: 482860.69' D - X: 585230.17' / Y: 488203.01' SURFACE HOLE LOCATION 521' FNL 1070' FEL, SECTION 2 NAD 83, SPCS NM EAST X: 628003.93' / Y: 487746.04' LAT: 32.34057314N / LON: 104.05271170W NAD 27, SPCS NM EAST X: 586821.45' / Y: 487686.32' LAT: 32.34045229N / LON: 104.05221616W KICK OFF POINT 7857' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 626967.70' / Y: 488138.34' LAT: 32.34165893N / LON: 104.05606364W NAD 27, SPCS NM EAST X: 585785.24' / Y: 488078.63' LAT: 32.34153813N / LON: 104.05556794W FIRST TAKE POINT 8210' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 626874.96' / Y: 488089.14' LAT: 32.32759696N / LON: 104.05679780W NAD 27, SPCS NM EAST X: 585692.51' / Y: 488029.44' LAT: 32.34140357N / LON: 104.05586863W LAST TAKE POINT/BOTTOM HOLE LOCATION 13421' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 626754.17' / Y: 483022.16' LAT: 32.32759696N / LON: 104.05679780W NAD 27, SPCS NM EAST X: 585571.58' / Y: 482962.58' LAT: 32.32747606N / LON: 104.05630258W Farthest from Lease Line MD=8,210' Nearest to Lease Line MD=10,381' FTP 175' KOP 126' SHL 521' 2107' 2199' 1070' 357' 2306' 101' LTP/BHL SHEET 1 OF 1 JOB No. R4124_001 REV 0 DEF 02/24/2021	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Katy Reddell 4/15/2021 Signature Date KATY REDDELL Printed Name kreddell@btaoil.com E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. FEBRUARY 25, 2021 Date of Survey DAVID W. MYERS Signature and Seal of Professional Surveyor Certificate Number DAVID W. MYERS 11403
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Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence Angle: 00°07'02.70001"

RECEIVED

Submit 1 Copy To Appropriate District Office

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DISTRICT IV
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-46134
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HADES 2 TBC STATE COM
8. Well Number 1H
9. OGRID Number 372098
10. Pool name or Wildcat CULEBRA BLUFF; BONE SPRING, SOUTH

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator Marathon Oil Permian LLC	
3. Address of Operator 5555 San Felipe St., Houston, TX 77056	
4. Well Location Unit Letter <u>A</u> : <u>521</u> feet from the <u>NORTH</u> line and <u>1040</u> feet from the <u>EAST</u> line Section <u>2</u> Township <u>23S</u> Range <u>28E</u> NMPM County <u>EDDY</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3068' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
 PULL OR ALTER CASING ☐ MULTIPLE COMPL. ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon Oil Permian LLC requests to make the following changes to the approved APD.

-Change well name from Hades 2 TBC State Com 1H to Hades 2 SB State Com 5H

-Change SHL
From 521' FNL 1040' FEL ✓
To 521' FNL 1070' FEL

325766

-Change proposed casing and cement program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sack of Cement	TOC
Surf	17 1/2	13 3/8	54.5	450	470	0
Int1	12 1/4	9 5/8	36	2550	503	0
Prod	8 3/4	5 1/2	17	13437	2382	2250

Spud Date:

10/23/2019

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE CTR - Technician HES

DATE 11/12/2019

Type or print name

Adrian Covarrubias

E-mail address:

acovarrubias@marathonoil.com

PHONE:

713-296-3368

For State Use Only

APPROVED BY:

Raymond R. Padany

TITLE

Greedy 3rd

DATE

11-18-19

Conditions of Approval (if any):

NOV 13 2019

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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District IV
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico **DISTRICT IV-ARTESIA O.C.D.**
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46134	² Pool Code 15011	³ Pool Name CULEBRA BLUFF; BONE SPRING, SOUTH
⁴ Property Code 325766	⁵ Property Name HADES 2 SB STATE COM	⁶ Well Number 5H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3070'

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	2	23S	28E		521	NORTH	1070	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	2	23S	28E		100	SOUTH	2310	EAST	EDDY

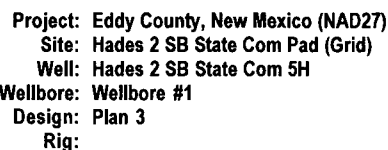
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
318.97			

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.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 629075.09' / Y: 488269.73' B - X: 629059.56' / Y: 482925.07' C - X: 626359.90' / Y: 482920.26' D - X: 626386.21' / Y: 485587.65' E - X: 626412.61' / Y: 488262.71'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Date: 11/11/2019 Signature: <i>[Signature]</i> Printed Name: MELISSA SZUDERA E-mail Address:
	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 587892.62' / Y: 488209.99' B - X: 587876.94' / Y: 482865.46' C - X: 585177.32' / Y: 482860.69' D - X: 585203.71' / Y: 485528.00' E - X: 585230.17' / Y: 488203.01'	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: NOVEMBER 5, 2019 Signature and Seal of Professional Surveyor: <i>[Signature]</i> DAVID W. MYERS Certificate Number: DAVID W. MYERS 11403
	SURFACE HOLE LOCATION 521' FNL 1070' FEL, SECTION 2 NAD 83, SPCS NM EAST X: 628003.93' / Y: 487746.09' LAT: 32.34057329N / LON: 104.05271168W NAD 27, SPCS NM EAST X: 586821.48' / Y: 487686.38' LAT: 32.34045243N / LON: 104.05221614W	KICK OFF POINT / FIRST TAKE POINT 100' FNL 2310' FEL, SECTION 2 NAD 83, SPCS NM EAST X: 626764.78' / Y: 488163.64' LAT: 32.34172992N / LON: 104.05672047W NAD 27, SPCS NM EAST X: 585582.33' / Y: 488103.93' LAT: 32.34160914N / LON: 104.05622474W
	LAST TAKE POINT/BOTTOM HOLE LOCATION 100' FSL 2310' FEL, SECTION 2 NAD 83, SPCS NM EAST X: 626749.83' / Y: 483020.96' LAT: 32.32759369N / LON: 104.05681185W NAD 27, SPCS NM EAST X: 585567.25' / Y: 482961.37' LAT: 32.32747279N / LON: 104.05631663W	

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence: 00°07'02.70001"

RWP 11-18-19



3068,00

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

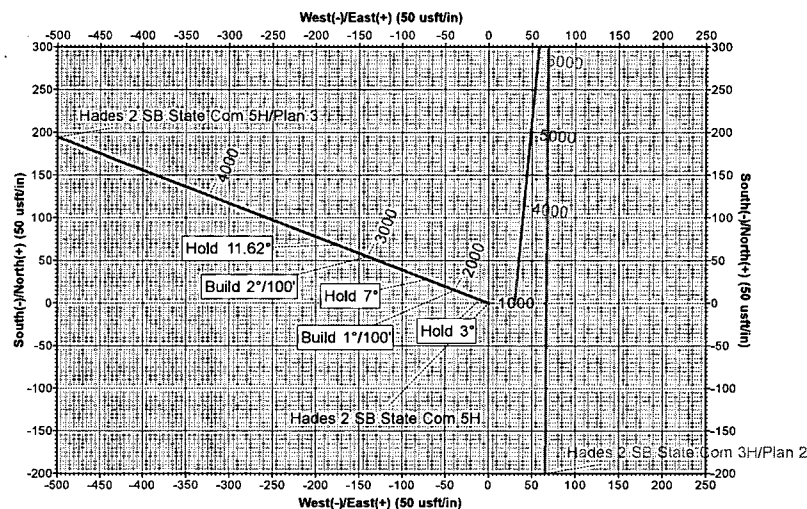
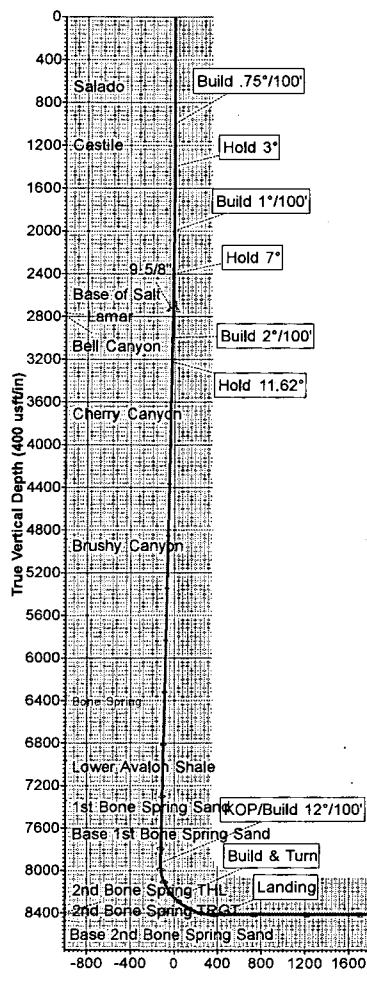


Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.93°

Magnetic Field
Strength: 47882.1nT
Dip Angle: 60.07°
Date: 10/18/2019
Model: HDGM 2019-

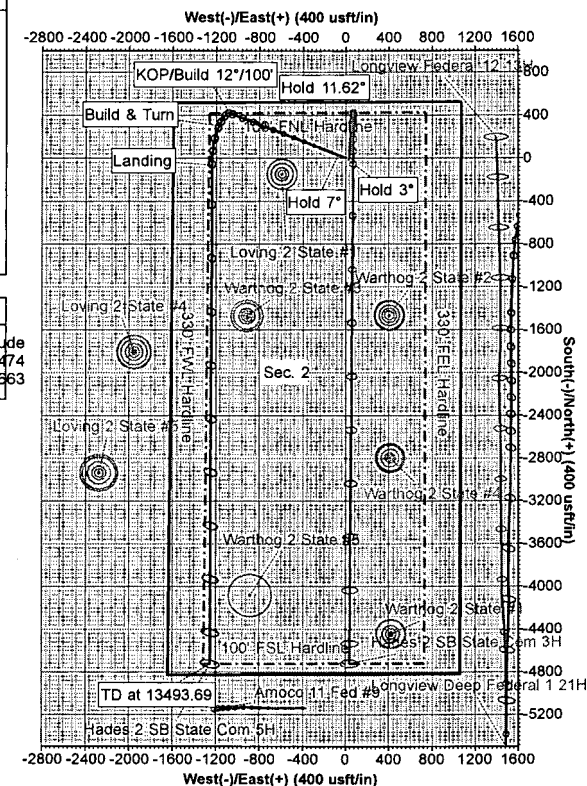
WELL DETAILS										
3068.00										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude					
0.00	0.00	487686.32	586821.45	32.34045228	-104.05221616					
SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	Build .75°/100'	
1400.00	3.00	291.25	1399.82	3.79	-9.76	0.75	291.25	-1.16	Hold 3°	
2000.00	3.00	291.25	1998.99	15.18	-39.02	0.00	0.00	-4.66	Build 1°/100'	
2400.00	7.00	291.25	2397.39	27.81	-71.51	1.00	0.00	-8.53	Hold 7°	
3000.00	7.00	291.25	2992.92	54.31	-139.66	0.00	0.00	-16.66	Build 2°/100'	
3231.00	11.62	291.25	3220.82	67.85	-174.48	2.00	0.00	-20.82	Hold 11.62°	
8033.89	11.62	291.25	7925.27	418.47	-1076.10	0.00	0.00	-128.38	KOP/Build 12°/100'	
8412.37	45.00	205.00	8262.28	305.01	-1173.32	12.00	-97.84	6.23	Build & Turn	
8829.70	90.00	180.17	8420.00	-60.98	-1240.63	12.00	-33.20	377.23	Landing	
13493.69	90.00	180.17	8420.00	-4724.95	-1254.20	0.00	0.00	4888.58	TD at 13493.69	

DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
5H KOP/FTP (100' FNL - 1002' FEL)	417.61	-1239.12	488103.93	585582.33	32.34160913	-104.05622474
5H LTP/BHL (100' FSL - 1019' FEL)	-4724.95	-1254.20	482961.37	585567.25	32.32747278	-104.05631663



Target Line

8420' TVD @ 0° VS 90°



HALLIBURTON | Sperry Drilling

Marathon Oil Permian LLC

Eddy County, New Mexico (NAD27) Hades 2 SB State Com Pad (Grid)

API#

Hades 2 SB State Com 5H

SHL: (521' FNL - 1070' FEL)

Wellbore #1

Plan: Plan 3

Sperry Drilling Services

Combo Report

01 November, 2019

Well Coordinates: 32.34045228
-104.05221617

NAD 1927 (NADCON CONUS)
New Mexico East 3001
487,686.32 N
586,821.45 E

Ground Level: 3,068.00 usft

Local Coordinate Origin:

Centered on Well Hades 2 SB State Com 5H

Viewing Datum:

RKB (Precision 601) 25' + GL(3068') @ 3093.00usft

TVDs to System:

N

North Reference:

Grid

Unit System:

Midcon (2 decimal)

Version: 5000.15 Build: 91

Report Version: Midcon Combo v1.14

HALLIBURTON

Marathon Oil Permian LLC

Eddy County, New Mexico (NAD27)

HALLIBURTON**Plan Report for Hades 2 SB State Com 5H - Plan 3**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
0.00	0.00	0.00	0.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
592.00	0.00	0.00	592.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	Salado
600.00	0.00	0.00	600.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00 N	0.00 E	487,686.32	586,821.45	0.00	0.00	0.00	Build 75°/100'
1,100.00	0.75	291.25	1,100.00	0.24 N	0.61 W	487,686.56	586,820.84	0.75	-0.07	291.25	
1,138.01	1.04	291.25	1,138.00	0.45 N	1.16 W	487,686.77	586,820.29	0.75	-0.14	0.00	Castile
1,200.00	1.50	291.25	1,199.98	0.95 N	2.44 W	487,687.27	586,819.01	0.75	-0.29	0.00	
1,300.00	2.25	291.25	1,299.92	2.13 N	5.49 W	487,688.45	586,815.96	0.75	-0.65	0.00	
1,400.00	3.00	291.25	1,399.82	3.79 N	9.76 W	487,690.11	586,811.69	0.75	-1.16	0.00	Hold 3°
1,500.00	3.00	291.25	1,499.68	5.69 N	14.64 W	487,692.01	586,806.81	0.00	-1.75	0.00	
1,600.00	3.00	291.25	1,599.54	7.59 N	19.51 W	487,693.91	586,801.94	0.00	-2.33	0.00	
1,700.00	3.00	291.25	1,699.41	9.49 N	24.39 W	487,695.81	586,797.06	0.00	-2.91	0.00	
1,800.00	3.00	291.25	1,799.27	11.38 N	29.27 W	487,697.70	586,792.18	0.00	-3.49	0.00	
1,900.00	3.00	291.25	1,899.13	13.28 N	34.15 W	487,699.60	586,787.30	0.00	-4.07	0.00	
2,000.00	3.00	291.25	1,998.99	15.18 N	39.02 W	487,701.50	586,782.43	0.00	-4.66	0.00	Build 1°/100'
2,100.00	4.00	291.25	2,098.81	17.39 N	44.71 W	487,703.71	586,776.74	1.00	-5.33	0.00	
2,200.00	5.00	291.25	2,198.50	20.23 N	52.03 W	487,706.55	586,769.42	1.00	-6.21	0.00	
2,300.00	6.00	291.25	2,298.04	23.71 N	60.96 W	487,710.03	586,760.49	1.00	-7.27	0.00	
2,400.00	7.00	291.25	2,397.39	27.81 N	71.51 W	487,714.13	586,749.94	1.00	-8.53	0.00	Hold 7°
2,500.00	7.00	291.25	2,496.65	32.23 N	82.87 W	487,718.55	586,738.58	0.00	-9.89	0.00	
2,536.63	7.00	291.25	2,533.00	33.84 N	87.03 W	487,720.16	586,734.42	0.00	-10.38	0.00	Base of Salt
2,600.00	7.00	291.25	2,595.90	36.64 N	94.23 W	487,722.96	586,727.22	0.00	-11.24	0.00	
2,700.00	7.00	291.25	2,695.16	41.06 N	105.58 W	487,727.38	586,715.87	0.00	-12.60	0.00	
2,755.26	7.00	291.25	2,750.00	43.50 N	111.86 W	487,729.82	586,709.59	0.00	-13.35	0.00	9 5/8"
2,774.40	7.00	291.25	2,769.00	44.35 N	114.03 W	487,730.67	586,707.42	0.00	-13.60	0.00	Lamar
2,800.00	7.00	291.25	2,794.41	45.48 N	116.94 W	487,731.80	586,704.51	0.00	-13.95	0.00	
2,802.61	7.00	291.25	2,797.00	45.59 N	117.24 W	487,731.91	586,704.21	0.00	-13.99	0.00	Bell Canyon
2,900.00	7.00	291.25	2,893.67	49.89 N	128.30 W	487,736.21	586,693.15	0.00	-15.31	0.00	

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				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
3,000.00	7.00	291.25	2,992.92	54.31 N	139.66 W	487,740.63	586,681.79	0.00	-16.66	0.00	Build 2°/100'
3,100.00	9.00	291.25	3,091.94	59.35 N	152.63 W	487,745.67	586,668.82	2.00	-18.21	0.00	
3,200.00	11.00	291.25	3,190.42	65.65 N	168.81 W	487,751.97	586,652.64	2.00	-20.14	0.00	
3,231.00	11.62	291.25	3,220.82	67.85 N	174.48 W	487,754.17	586,646.97	2.00	-20.82	0.00	Hold 11.62°
3,300.00	11.62	291.25	3,288.40	72.89 N	187.43 W	487,759.21	586,634.02	0.00	-22.36	0.00	
3,400.00	11.62	291.25	3,386.35	80.19 N	206.20 W	487,766.51	586,615.25	0.00	-24.60	0.00	
3,500.00	11.62	291.25	3,484.30	87.49 N	224.98 W	487,773.81	586,596.47	0.00	-26.84	0.00	
3,600.00	11.62	291.25	3,582.25	94.79 N	243.75 W	487,781.11	586,577.70	0.00	-29.08	0.00	
3,671.21	11.62	291.25	3,652.00	99.99 N	257.12 W	487,786.31	586,564.33	0.00	-30.68	0.00	Cherry Canyon
3,700.00	11.62	291.25	3,680.20	102.09 N	262.52 W	487,788.41	586,558.93	0.00	-31.32	0.00	
3,800.00	11.62	291.25	3,778.15	109.39 N	281.29 W	487,795.71	586,540.16	0.00	-33.56	0.00	
3,900.00	11.62	291.25	3,876.10	116.69 N	300.07 W	487,803.01	586,521.38	0.00	-35.80	0.00	
4,000.00	11.62	291.25	3,974.05	123.99 N	318.84 W	487,810.31	586,502.61	0.00	-38.04	0.00	
4,100.00	11.62	291.25	4,072.00	131.29 N	337.61 W	487,817.61	586,483.84	0.00	-40.28	0.00	
4,200.00	11.62	291.25	4,169.96	138.59 N	356.38 W	487,824.91	586,465.07	0.00	-42.52	0.00	
4,300.00	11.62	291.25	4,267.91	145.89 N	375.16 W	487,832.21	586,446.29	0.00	-44.76	0.00	
4,400.00	11.62	291.25	4,365.86	153.19 N	393.93 W	487,839.51	586,427.52	0.00	-47.00	0.00	
4,500.00	11.62	291.25	4,463.81	160.49 N	412.70 W	487,846.81	586,408.75	0.00	-49.24	0.00	
4,600.00	11.62	291.25	4,561.76	167.79 N	431.47 W	487,854.11	586,389.98	0.00	-51.48	0.00	
4,700.00	11.62	291.25	4,659.71	175.09 N	450.25 W	487,861.41	586,371.20	0.00	-53.72	0.00	
4,800.00	11.62	291.25	4,757.66	182.39 N	469.02 W	487,868.71	586,352.43	0.00	-55.96	0.00	
4,900.00	11.62	291.25	4,855.61	189.69 N	487.79 W	487,876.01	586,333.66	0.00	-58.20	0.00	
4,932.05	11.62	291.25	4,887.00	192.03 N	493.81 W	487,878.35	586,327.64	0.00	-58.91	0.00	Brushy Canyon
5,000.00	11.62	291.25	4,953.56	196.99 N	506.56 W	487,883.31	586,314.89	0.00	-60.44	0.00	
5,100.00	11.62	291.25	5,051.51	204.29 N	525.34 W	487,890.61	586,296.11	0.00	-62.68	0.00	
5,200.00	11.62	291.25	5,149.46	211.59 N	544.11 W	487,897.91	586,277.34	0.00	-64.92	0.00	
5,300.00	11.62	291.25	5,247.41	218.89 N	562.88 W	487,905.21	586,258.57	0.00	-67.15	0.00	
5,400.00	11.62	291.25	5,345.36	226.19 N	581.65 W	487,912.51	586,239.80	0.00	-69.39	0.00	
5,500.00	11.62	291.25	5,443.31	233.49 N	600.43 W	487,919.81	586,221.02	0.00	-71.63	0.00	
5,600.00	11.62	291.25	5,541.26	240.79 N	619.20 W	487,927.11	586,202.25	0.00	-73.87	0.00	
5,700.00	11.62	291.25	5,639.21	248.09 N	637.97 W	487,934.41	586,183.48	0.00	-76.11	0.00	
5,800.00	11.62	291.25	5,737.16	255.39 N	656.74 W	487,941.71	586,164.71	0.00	-78.35	0.00	
5,900.00	11.62	291.25	5,835.11	262.69 N	675.52 W	487,949.01	586,145.93	0.00	-80.59	0.00	
6,000.00	11.62	291.25	5,933.06	269.99 N	694.29 W	487,956.31	586,127.16	0.00	-82.83	0.00	
6,100.00	11.62	291.25	6,031.01	277.29 N	713.06 W	487,963.61	586,108.39	0.00	-85.07	0.00	
6,200.00	11.62	291.25	6,128.97	284.59 N	731.83 W	487,970.91	586,089.62	0.00	-87.31	0.00	
6,300.00	11.62	291.25	6,226.92	291.90 N	750.61 W	487,978.22	586,070.84	0.00	-89.55	0.00	

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				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
6,400.00	11.62	291.25	6,324.87	299.20 N	769.38 W	487,985.52	586,052.07	0.00	-91.79	0.00	
6,424.64	11.62	291.25	6,349.00	300.99 N	774.00 W	487,987.31	586,047.45	0.00	-92.34	0.00	Bone Spring
6,500.00	11.62	291.25	6,422.82	306.50 N	788.15 W	487,992.82	586,033.30	0.00	-94.03	0.00	
6,600.00	11.62	291.25	6,520.77	313.80 N	806.92 W	488,000.12	586,014.53	0.00	-96.27	0.00	
6,700.00	11.62	291.25	6,618.72	321.10 N	825.70 W	488,007.42	585,995.75	0.00	-98.51	0.00	
6,800.00	11.62	291.25	6,716.67	328.40 N	844.47 W	488,014.72	585,976.98	0.00	-100.75	0.00	
6,900.00	11.62	291.25	6,814.62	335.70 N	863.24 W	488,022.02	585,958.21	0.00	-102.99	0.00	
7,000.00	11.62	291.25	6,912.57	343.00 N	882.01 W	488,029.32	585,939.44	0.00	-105.23	0.00	
7,053.53	11.62	291.25	6,965.00	346.90 N	892.06 W	488,033.22	585,929.39	0.00	-106.43	0.00	Lower Avalon Shale
7,100.00	11.62	291.25	7,010.52	350.30 N	900.79 W	488,036.62	585,920.66	0.00	-107.47	0.00	
7,200.00	11.62	291.25	7,108.47	357.60 N	919.56 W	488,043.92	585,901.89	0.00	-109.71	0.00	
7,300.00	11.62	291.25	7,206.42	364.90 N	938.33 W	488,051.22	585,883.12	0.00	-111.95	0.00	
7,400.00	11.62	291.25	7,304.37	372.20 N	957.10 W	488,058.52	585,864.35	0.00	-114.19	0.00	
7,438.42	11.62	291.25	7,342.00	375.00 N	964.32 W	488,061.32	585,857.13	0.00	-115.05	0.00	1st Bone Spring Sand
7,500.00	11.62	291.25	7,402.32	379.50 N	975.88 W	488,065.82	585,845.57	0.00	-116.43	0.00	
7,600.00	11.62	291.25	7,500.27	386.80 N	994.65 W	488,073.12	585,826.80	0.00	-118.67	0.00	
7,697.73	11.62	291.25	7,596.00	393.93 N	1,013.00 W	488,080.25	585,808.45	0.00	-120.86	0.00	Base 1st Bone Spring Sand
7,700.00	11.62	291.25	7,598.22	394.10 N	1,013.42 W	488,080.42	585,808.03	0.00	-120.91	0.00	
7,800.00	11.62	291.25	7,696.17	401.40 N	1,032.19 W	488,087.72	585,789.26	0.00	-123.15	0.00	
7,900.00	11.62	291.25	7,794.12	408.70 N	1,050.97 W	488,095.02	585,770.48	0.00	-125.39	0.00	
8,000.00	11.62	291.25	7,892.07	416.00 N	1,069.74 W	488,102.32	585,751.71	0.00	-127.63	0.00	
8,033.89	11.62	291.25	7,925.27	418.47 N	1,076.10 W	488,104.79	585,745.35	0.00	-128.38	0.00	KOP/Build 12°/100'
8,050.00	11.51	281.61	7,941.05	419.38 N	1,079.19 W	488,105.70	585,742.26	12.00	-128.47	-97.84	
8,075.00	11.97	267.01	7,965.54	419.75 N	1,084.22 W	488,106.07	585,737.23	12.00	-127.54	-88.39	
8,100.00	13.11	254.19	7,989.94	418.84 N	1,089.54 W	488,105.16	585,731.91	12.00	-125.29	-74.09	
8,125.00	14.77	243.79	8,014.21	416.66 N	1,095.13 W	488,102.98	585,726.32	12.00	-121.75	-61.58	
8,150.00	16.80	235.65	8,038.27	413.21 N	1,100.98 W	488,099.53	585,720.47	12.00	-116.92	-51.48	
8,175.00	19.08	229.31	8,062.05	408.51 N	1,107.06 W	488,094.83	585,714.39	12.00	-110.81	-43.65	
8,200.00	21.54	224.32	8,085.50	402.56 N	1,113.37 W	488,088.88	585,708.08	12.00	-103.44	-37.61	
8,207.01	22.25	223.11	8,092.00	400.67 N	1,115.17 W	488,086.99	585,706.28	12.00	-101.16	-32.93	2nd Bone Spring Sand
8,225.00	24.11	220.32	8,108.54	395.38 N	1,119.88 W	488,081.70	585,701.57	12.00	-94.84	-31.81	
8,250.00	26.76	217.07	8,131.12	387.00 N	1,126.58 W	488,073.32	585,694.87	12.00	-85.01	-29.24	
8,275.00	29.48	214.36	8,153.17	377.43 N	1,133.44 W	488,063.75	585,688.01	12.00	-74.00	-26.30	
8,300.00	32.24	212.09	8,174.62	366.70 N	1,140.46 W	488,053.02	585,680.99	12.00	-61.83	-23.92	
8,325.00	35.04	210.13	8,195.44	354.84 N	1,147.61 W	488,041.16	585,673.84	12.00	-48.53	-21.96	
8,350.00	37.87	208.43	8,215.54	341.88 N	1,154.86 W	488,028.20	585,666.59	12.00	-34.15	-20.34	
8,375.00	40.71	206.94	8,234.89	327.86 N	1,162.21 W	488,014.18	585,659.24	12.00	-18.71	-18.97	

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				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
8,400.00	43.58	205.61	8,253.42	312.82 N	1,169.63 W	487,999.14	585,651.82	12.00	-2.27	-17.81	
8,412.37	45.00	205.00	8,262.28	305.01 N	1,173.32 W	487,991.33	585,648.13	12.00	6.23	-16.83	Build & Turn
8,425.00	46.27	203.85	8,271.11	296.79 N	1,177.06 W	487,983.11	585,644.39	12.00	15.13	-33.20	
8,450.00	48.83	201.72	8,287.98	279.78 N	1,184.19 W	487,966.10	585,637.26	12.00	33.40	-32.40	
8,475.00	51.42	199.74	8,304.01	261.84 N	1,190.98 W	487,948.16	585,630.47	12.00	52.48	-30.96	
8,500.00	54.04	197.91	8,319.15	243.01 N	1,197.39 W	487,929.33	585,624.06	12.00	72.32	-29.69	
8,525.00	56.68	196.19	8,333.36	223.35 N	1,203.41 W	487,909.67	585,618.04	12.00	92.87	-28.58	
8,550.00	59.35	194.58	8,346.60	202.90 N	1,209.03 W	487,889.22	585,612.42	12.00	114.08	-27.60	
8,575.00	62.04	193.05	8,358.84	181.73 N	1,214.23 W	487,868.05	585,607.22	12.00	135.87	-26.75	
8,600.00	64.75	191.59	8,370.03	159.90 N	1,219.00 W	487,846.22	585,602.45	12.00	158.20	-26.00	
8,625.00	67.46	190.20	8,380.16	137.46 N	1,223.32 W	487,823.78	585,598.13	12.00	181.00	-25.35	
8,650.00	70.19	188.87	8,389.19	114.47 N	1,227.18 W	487,800.79	585,594.27	12.00	204.21	-24.79	
8,668.02	72.16	187.93	8,395.00	97.60 N	1,229.67 W	487,783.92	585,591.78	12.00	221.15	-24.30	2nd Bone Spring THL
8,675.00	72.93	187.58	8,397.09	91.00 N	1,230.57 W	487,777.32	585,590.88	12.00	227.76	-24.00	
8,700.00	75.68	186.32	8,403.86	67.11 N	1,233.48 W	487,753.43	585,587.97	12.00	251.59	-23.89	
8,725.00	78.43	185.10	8,409.46	42.87 N	1,235.90 W	487,729.19	585,585.55	12.00	275.65	-23.55	
8,750.00	81.19	183.90	8,413.88	18.34 N	1,237.83 W	487,704.66	585,583.62	12.00	299.85	-23.28	
8,775.00	83.95	182.72	8,417.11	6.40 S	1,239.26 W	487,679.92	585,582.19	12.00	324.13	-23.07	
8,800.00	86.71	181.55	8,419.15	31.30 S	1,240.19 W	487,655.02	585,581.26	12.00	348.43	-22.92	
8,825.00	89.48	180.39	8,419.98	56.28 S	1,240.61 W	487,630.04	585,580.84	12.00	372.69	-22.82	
8,829.70	90.00	180.17	8,420.00	60.98 S	1,240.63 W	487,625.34	585,580.82	12.00	377.23	-22.78	Landing - 2nd Bone Spring TRGT
8,900.00	90.00	180.17	8,420.00	131.28 S	1,240.84 W	487,555.04	585,580.61	0.00	445.23	0.00	
9,000.00	90.00	180.17	8,420.00	231.28 S	1,241.13 W	487,455.04	585,580.32	0.00	541.96	0.00	
9,100.00	90.00	180.17	8,420.00	331.28 S	1,241.43 W	487,355.04	585,580.02	0.00	638.69	0.00	
9,200.00	90.00	180.17	8,420.00	431.28 S	1,241.72 W	487,255.04	585,579.73	0.00	735.42	0.00	
9,300.00	90.00	180.17	8,420.00	531.28 S	1,242.01 W	487,155.04	585,579.44	0.00	832.14	0.00	
9,400.00	90.00	180.17	8,420.00	631.28 S	1,242.30 W	487,055.04	585,579.15	0.00	928.87	0.00	
9,500.00	90.00	180.17	8,420.00	731.28 S	1,242.60 W	486,955.04	585,578.85	0.00	1,025.60	0.00	
9,600.00	90.00	180.17	8,420.00	831.28 S	1,242.89 W	486,855.04	585,578.56	0.00	1,122.33	0.00	
9,700.00	90.00	180.17	8,420.00	931.28 S	1,243.18 W	486,755.04	585,578.27	0.00	1,219.05	0.00	
9,800.00	90.00	180.17	8,420.00	1,031.28 S	1,243.48 W	486,655.04	585,577.97	0.00	1,315.78	0.00	
9,900.00	90.00	180.17	8,420.00	1,131.28 S	1,243.77 W	486,555.04	585,577.68	0.00	1,412.51	0.00	
10,000.00	90.00	180.17	8,420.00	1,231.28 S	1,244.06 W	486,455.04	585,577.39	0.00	1,509.24	0.00	
10,100.00	90.00	180.17	8,420.00	1,331.28 S	1,244.36 W	486,355.04	585,577.09	0.00	1,605.97	0.00	
10,200.00	90.00	180.17	8,420.00	1,431.28 S	1,244.65 W	486,255.04	585,576.80	0.00	1,702.69	0.00	
10,300.00	90.00	180.17	8,420.00	1,531.27 S	1,244.94 W	486,155.05	585,576.51	0.00	1,799.42	0.00	

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				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
10,400.00	90.00	180.17	8,420.00	1,631.27 S	1,245.24 W	486,055.05	585,576.21	0.00	1,896.15	0.00	
10,500.00	90.00	180.17	8,420.00	1,731.27 S	1,245.53 W	485,955.05	585,575.92	0.00	1,992.88	0.00	
10,600.00	90.00	180.17	8,420.00	1,831.27 S	1,245.82 W	485,855.05	585,575.63	0.00	2,089.60	0.00	
10,700.00	90.00	180.17	8,420.00	1,931.27 S	1,246.12 W	485,755.05	585,575.33	0.00	2,186.33	0.00	
10,800.00	90.00	180.17	8,420.00	2,031.27 S	1,246.41 W	485,655.05	585,575.04	0.00	2,283.06	0.00	
10,900.00	90.00	180.17	8,420.00	2,131.27 S	1,246.70 W	485,555.05	585,574.75	0.00	2,379.79	0.00	
11,000.00	90.00	180.17	8,420.00	2,231.27 S	1,247.00 W	485,455.05	585,574.45	0.00	2,476.51	0.00	
11,100.00	90.00	180.17	8,420.00	2,331.27 S	1,247.29 W	485,355.05	585,574.16	0.00	2,573.24	0.00	
11,200.00	90.00	180.17	8,420.00	2,431.27 S	1,247.58 W	485,255.05	585,573.87	0.00	2,669.97	0.00	
11,300.00	90.00	180.17	8,420.00	2,531.27 S	1,247.88 W	485,155.05	585,573.57	0.00	2,766.70	0.00	
11,400.00	90.00	180.17	8,420.00	2,631.27 S	1,248.17 W	485,055.05	585,573.28	0.00	2,863.43	0.00	
11,500.00	90.00	180.17	8,420.00	2,731.27 S	1,248.46 W	484,955.05	585,572.99	0.00	2,960.15	0.00	
11,600.00	90.00	180.17	8,420.00	2,831.27 S	1,248.76 W	484,855.05	585,572.69	0.00	3,056.88	0.00	
11,700.00	90.00	180.17	8,420.00	2,931.27 S	1,249.05 W	484,755.05	585,572.40	0.00	3,153.61	0.00	
11,800.00	90.00	180.17	8,420.00	3,031.27 S	1,249.34 W	484,655.05	585,572.11	0.00	3,250.34	0.00	
11,900.00	90.00	180.17	8,420.00	3,131.27 S	1,249.64 W	484,555.05	585,571.81	0.00	3,347.06	0.00	
12,000.00	90.00	180.17	8,420.00	3,231.27 S	1,249.93 W	484,455.05	585,571.52	0.00	3,443.79	0.00	
12,100.00	90.00	180.17	8,420.00	3,331.27 S	1,250.22 W	484,355.05	585,571.23	0.00	3,540.52	0.00	
12,200.00	90.00	180.17	8,420.00	3,431.27 S	1,250.51 W	484,255.05	585,570.94	0.00	3,637.25	0.00	
12,300.00	90.00	180.17	8,420.00	3,531.27 S	1,250.81 W	484,155.05	585,570.64	0.00	3,733.98	0.00	
12,400.00	90.00	180.17	8,420.00	3,631.27 S	1,251.10 W	484,055.05	585,570.35	0.00	3,830.70	0.00	
12,500.00	90.00	180.17	8,420.00	3,731.27 S	1,251.39 W	483,955.05	585,570.06	0.00	3,927.43	0.00	
12,600.00	90.00	180.17	8,420.00	3,831.26 S	1,251.69 W	483,855.06	585,569.76	0.00	4,024.16	0.00	
12,700.00	90.00	180.17	8,420.00	3,931.26 S	1,251.98 W	483,755.06	585,569.47	0.00	4,120.89	0.00	
12,800.00	90.00	180.17	8,420.00	4,031.26 S	1,252.27 W	483,655.06	585,569.18	0.00	4,217.61	0.00	
12,900.00	90.00	180.17	8,420.00	4,131.26 S	1,252.57 W	483,555.06	585,568.88	0.00	4,314.34	0.00	
13,000.00	90.00	180.17	8,420.00	4,231.26 S	1,252.86 W	483,455.06	585,568.59	0.00	4,411.07	0.00	
13,100.00	90.00	180.17	8,420.00	4,331.26 S	1,253.15 W	483,355.06	585,568.30	0.00	4,507.80	0.00	
13,200.00	90.00	180.17	8,420.00	4,431.26 S	1,253.45 W	483,255.06	585,568.00	0.00	4,604.52	0.00	
13,300.00	90.00	180.17	8,420.00	4,531.26 S	1,253.74 W	483,155.06	585,567.71	0.00	4,701.25	0.00	
13,400.00	90.00	180.17	8,420.00	4,631.26 S	1,254.03 W	483,055.06	585,567.42	0.00	4,797.98	0.00	
13,493.69	90.00	180.17	8,420.00	4,724.95 S	1,254.31 W	482,961.37	585,567.14	0.00	4,888.60	0.00	TD at 13493.69 - 5 1/2"

HALLIBURTON**Marathon Oil Permian LLC**

Eddy County, New Mexico (NAD27)

Plan Report for Hades 2 SB State Com 5H - Plan 3**Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.00	1,000.00	0.00	0.00	Build .75°/100'
1,400.00	1,399.82	3.79	-9.76	Hold 3°
2,000.00	1,998.99	15.18	-39.02	Build 1°/100'
2,400.00	2,397.39	27.81	-71.51	Hold 7°
3,000.00	2,992.92	54.31	-139.66	Build 2°/100'
3,231.00	3,220.82	67.85	-174.48	Hold 11.62°
8,033.89	7,925.27	418.47	-1,076.10	KOP/Build 12°/100'
8,412.37	8,262.28	305.01	-1,173.32	Build & Turn
8,829.70	8,420.00	-60.98	-1,240.63	Landing
13,493.69	8,420.00	-4,724.95	-1,254.20	TD at 13493.69

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (usft)
				+N/-S (usft)	+E/-W (usft)	
TD	No Target (Freehand)	194.87	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	13,493.69	Plan 3	3_MWD

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,755.26	2,750.00	9 5/8"	9-5/8	12-1/4
13,493.69	8,420.00	5 1/2"	5-1/2	8-3/4

HALLIBURTON

Marathon Oil Permian LLC
Eddy County, New Mexico (NAD27)

Plan Report for Hades 2 SB State Com 5H - Plan 3**Formation Details**

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
592.00	592.00	-2,501.00	Salado			
1,138.01	1,138.00	-1,955.00	Castile			
2,536.63	2,533.00	-560.00	Base of Salt			
2,774.40	2,769.00	-324.00	Lamar			
2,802.61	2,797.00	-296.00	Bell Canyon			
3,671.21	3,652.00	559.00	Cherry Canyon			
4,932.05	4,887.00	1,794.00	Brushy Canyon			
6,424.64	6,349.00	3,256.00	Bone Spring			
7,053.53	6,965.00	3,872.00	Lower Avalon Shale			
7,438.42	7,342.00	4,249.00	1st Bone Spring Sand			
7,697.73	7,596.00	4,503.00	Base 1st Bone Spring Sand			
8,207.01	8,092.00	4,999.00	2nd Bone Spring Sand			
8,668.02	8,395.00	5,302.00	2nd Bone Spring THL			
8,829.70	8,420.00	5,327.00	2nd Bone Spring TRGT			

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
5H KOP/FTP (100' FNL - 1002' FEL) ()									
	0.00	0.00	8,386.00	417.61	-1,239.12	488,103.93	585,582.33	32.34160913	-104.05622474
- plan misses target center by 177.26usft at 8438.07usft MD (8280.03 TVD, 288.02 N, -1180.83 E)									
- Point									

5H LTP/BHL (100' FSL - 1019' FEL) ()									
	0.00	0.00	8,386.00	-4,724.95	-1,254.20	482,961.37	585,567.25	32.32747278	-104.05631663
- plan misses target center by 34.00usft at 13493.69usft MD (8420.00 TVD -4724.95 N, -1254.31 E)									
- Point									

Directional Difficulty Index

Average Dogleg over Survey:	0.79 °/100usft	Maximum Dogleg over Survey:	12.00 °/100usft at 8,412.37 usft
Net Tortosity applicable to Plans:	0.79 °/100usft	Directional Difficulty Index:	6.226

HALLIBURTON

Marathon Oil Permian LLC

Eddy County, New Mexico (NAD27)

Plan Report for Hades 2 SB State Com 5H - Plan 3

Audit Info

HALLIBURTON

Marathon Oil Permian LLC
Eddy County, New Mexico (NAD27)

North Reference Sheet for Hades 2 SB State Com Pad (Grid) - Hades 2 SB State Com 5H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to RKB (Precision 601) 25' + GL(3068') @ 3093.00usft. Northing and Easting are relative to Hades 2 SB State Com 5H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33333333°, Longitude Origin:0.00000000°, Latitude Origin:0.00000000°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99991772

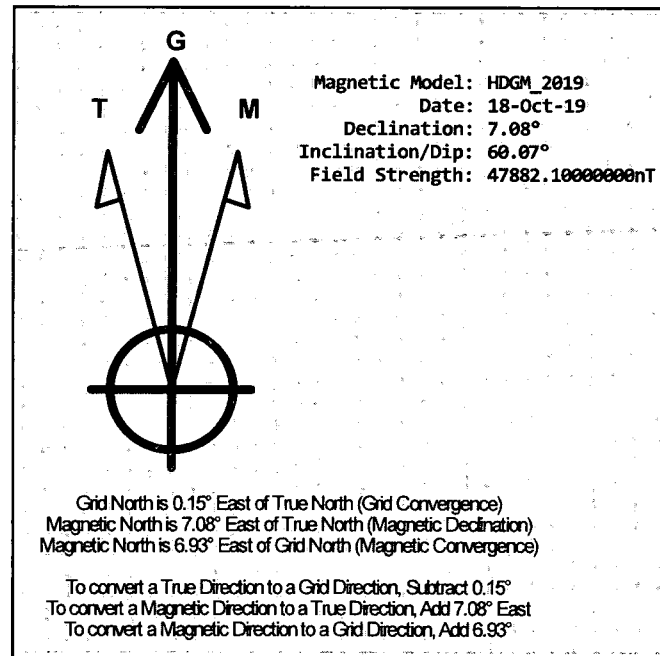
Grid Coordinates of Well: 487,686.32 usft N, 586,821.45 usft E

Geographical Coordinates of Well: 32.34045228, -104.05221617

Grid Convergence at Surface is: 0.15°

Based upon Minimum Curvature type calculations, at a Measured Depth of 13,493.69usft
the Bottom Hole Displacement is 4,888.60usft in the Direction of 194.87° (Grid).

Magnetic Convergence at surface is: -6.93° (18 October 2019, , HDGM_2019)



Submit 1 Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-46134
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 15011
7. Lease Name or Unit Agreement Name HADES 22102 2 STATE COM
8. Well Number 5H
9. OGRID Number 260297
10. Pool name or Wildcat CULEBRA BLUFF; BONE SPRING, S.

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator BTA OIL PRODUCERS, LLC	
3. Address of Operator 104 S PECOS; MIDLAND, TX. 79701	
4. Well Location Unit Letter A 521 feet from the NORTH line and 1070 feet from the EAST line Section 2 Township 23S Range 28E NMPM County EDDY	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,069' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: FRAC COMPLETION ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

TD @ 13,421' REACHED ON 12/19/2020.

02/08/2021 THRU 02/20/2021 PERFORATE AND FRAC BONE SPRING: 8,800' – 13,071' WITH 241,395 BBLS FLUID; 11.4MM 100 MESH SAND.

03/02/2021: COMPLETE DRILLOUT START FLOWING BACK AND TESTING. FLOWING CASING PRESSURE: 1,080 psi on 17" CHOKE.

Spud Date: 10/23/2020

Rig Release Date: 12/19/2020

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Katy Reddell*

TITLE: REGULATORY ANALYST

DATE: 03/11/2021

Type or print name _____ E-mail address: _____ PHONE: _____

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any): _____

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												
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 HADES 22102 2 STATE COM										
								6. Well Number: 5H										
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____																		
8. Name of Operator BTA OIL PRODUCERS, LLC							9. OGRID 260297											
10. Address of Operator 104 S PECOS; MIDLAND, TX. 79701							11. Pool name or Wildcat CULEBRA BLUFF; BONE SPRING, SOUTH											
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:	A	2	23S	28E		521	N	1070	E	EDDY								
BH:	O	2	23S	28E		101	S	2306	E	EDDY								
13. Date Spudded 10/23/2020	14. Date T.D. Reached 12/7/2020		15. Date Rig Released 12/7/2020		16. Date Completed (Ready to Produce) 3/2/2021			17. Elevations (DF and RKB, RT, GR, etc.)										
18. Total Measured Depth of Well 13,421'			19. Plug Back Measured Depth 13,421'		20. Was Directional Survey Made? YES			21. Type Electric and Other Logs Run MWD										
22. Producing Interval(s), of this completion - Top, Bottom, Name BONE SPRING																		
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		55		468		17 1/2		555										
5 1/2		17		13408		8 3/4		1821										
24. LINER RECORD																		
SIZE	TOP	BOTTOM	SACKS CEMENT		SCREEN													
26. Perforation record (interval, size, and number) 8,655' – 13,172' 0.42" HOLES 708 TOTAL HOLES						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">DEPTH INTERVAL</td> <td style="width:50%;">AMOUNT AND KIND MATERIAL USED</td> </tr> <tr> <td>13,172'</td> <td>246,792 TOTAL FLUID; 11,394,403 TOTAL SAND.</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	13,172'	246,792 TOTAL FLUID; 11,394,403 TOTAL SAND.				
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
13,172'	246,792 TOTAL FLUID; 11,394,403 TOTAL SAND.																	
28. PRODUCTION																		
Date First Production 3/2/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) FLOWING					Well Status (Prod. or Shut-in) PROD											
Date of Test 3/8/2021	Hours Tested 24	Choke Size 28/64	Prod'n For Test Period 24 HRS	Oil - Bbl 227	Gas - MCF 698	Water - Bbl. 2667	Gas - Oil Ratio											
Flow Tubing Press. 880	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 619	Gas - MCF 696	Water - Bbl. 2667	Oil Gravity - API - (Corr.) 46												
29. Disposition of Gas (Sold, used for fuel, vented, etc.) FLARE WAITING ON PIPELINE								30. Test Witnessed By										
31. List Attachments																		
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 hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Printed

Signature *Katy Reddell* Name KATY REDDELL Title REGULATORY ANALYST Date 4/15/2021

E-mail Address kreddell@btaoil.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

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

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	From	To	Thickness In Feet	Lithology
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District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 24265

ACKNOWLEDGMENTS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 24265
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☐	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☐	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 24265

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 24265
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	Submit Completion Report	7/7/2021