<u>District I</u> 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 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**

Form C-101 August 1, 2011

Permit 323855

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZO
--

1. Operator Name and Address	2. OGRID Number							
ADVANCE ENERGY PARTNERS HA	372417							
11490 Westheimer Rd., Ste 950	3. API Number							
Houston, TX 77077	30-025-50569							
4. Property Code	5. Property Name	6. Well No.						
333273	BECKNELL 21 33 17 STATE COM	911H						

7. Surface Location

I	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	E	17	21S	33E	E	2437	N	740	W	Lea

8. Proposed Bottom Hole Location

8. Froposed Bottonii fiole Eccation										
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
1	5	218	33F	1	2589	S	430	W	Lea	

9. Pool Information

WC-025 G-08	S213304D;BONE SPRING	97895

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3807
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	21903	3rd Bone Spring Carbonate		6/18/2023
Depth to Ground water		Distance from nearest fresh water well	Distance to nearest surface water	

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1825	1400	0
Int1	12.25	10.75	40.5	3724	422	0
Int2	9.875	7.625	29.7	5502	813	0
Prod	6.75	5.5	20	21903	701	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

knowledge and be	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATIO	ON DIVISION
Signature:					
Printed Name:	Electronically filed by Eileen M K	osakowski	Approved By:	Paul F Kautz	
Title:			Title:	Geologist	
Email Address:	ekosakowski@advanceenergypa	artners.com	Approved Date:	9/14/2022	Expiration Date: 9/14/2024
Date:	8/24/2022	Phone: 832-672-4604	Conditions of Appr	oval Attached	

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

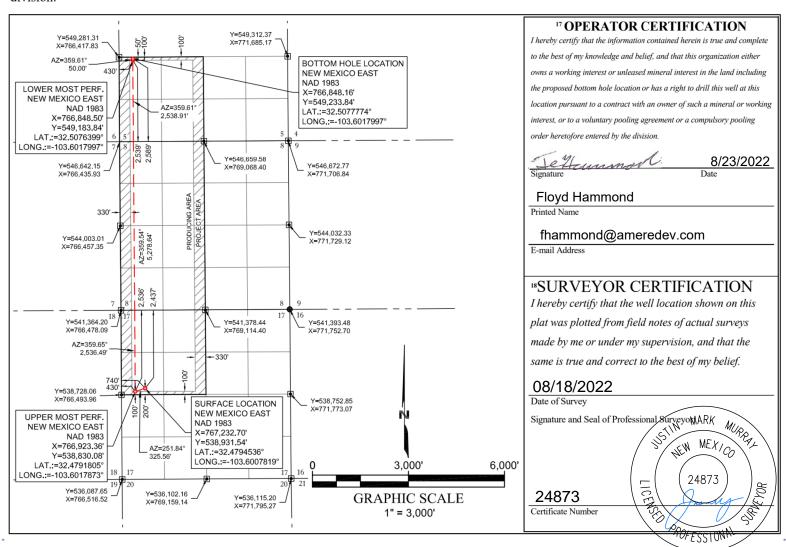
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 50569		² Pool Code 97895	³ Pool Name WC-025 G-08 S213304D; BONE SF	PRING		
⁴ Property Code 333273			operty Name 6 Well Number 1-33-17 State Com #911H			
⁷ OGRID №. 372417		- 1	perator Name PARTNERS HAT MESA LLC	⁹ Elevation 3,807.16'		

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
E	17	21-S	33-E		2,437'	NORTH	740'	WEST	LEA
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
L	5	21-S	33-E		2,589'	SOUTH	430'	WEST	LEA
12 Dedicated Acres	Joint o	r Infill 14	Consolidation	Code 15 Or	rder No.				
640			С						

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.



Form APD Conditions

Permit 323855

<u>District I</u> 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

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**

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417]	30-025-50569
11490 Westheimer Rd., Ste 950	Well:
Houston, TX 77077	BECKNELL 21 33 17 STATE COM #911H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	CEMENT MUST COME TO THE SURFACE ON ALL STRINGS
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

State of New Mexico Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham Governor

Sarah Cottrell Propst Cabinet Secretary Designate Adrienne Sandoval, Division Director Oil Conservation Division



September 12, 2022,

Todd E. Leahy, JD, PhD Deputy Secretary

BUREAU OF LAND MANAGEMENT ATT: James S. Rutley 620 E Greene Street Carlsbad, NM 88220 STATE LAND OFFICE ATT: Paige Czoski PO BOX 1148 Santa Fe, NM 87505

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR: Advance Energy Partners Hat Mesa, LLC

LEASE NAME: Becknell 21 33 17 State Com # 911H

PROPOSED LOCATION: U/L E Sec 17 T21S R33E 2437 FNL 740 FWL

Lat. 32.4794536

Long. -103.6007819 NAD83

PROPOSED DEPTH: 21903' MD 11202

11202' TVD

Gentleman:

The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuant to the provisions of Oil Conservation Division Order R – 111 - P, please advise this office whether the location is within an established Life-of-Mine-Reserve that are filed with and approved by your office. If not, please advise whether it is within the buffer zone established by the order.

Thank you for your assistance. Please Return as soon as possible.

Very truly yours,

OIL CONSERVATION DIVISION

P Kautz Paul Kautz

Hobbs Office Geologist, District I

RESONSE:

The above referenced location is in LMR (Vear) ------Yes_____No___

The above referenced location is within the Buffer Zone No

Signed
Printed Signature

Representing BUM

State of New Mexico Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham

Governor

Sarah Cottrell Propst
Cabinet Secretary Designate

Adrienne Sandoval, Division Director Oil Conservation Division



Todd E. Leahy, JD, PhD Deputy Secretary

September 12, 2022,

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Thank you for your assistance. Please Return as soon as possible.

Very truly yours,

OIL CONSERVATION DIVISION

Paul Kautz

Hobbs Office Geologist, District I

RESONSE:

The above referenced location is in LMR (__2022__year) --------Yes_______No __X

The above referenced location is within the Buffer Zone------Yes_______No __X

Signed ______Paige Czoski

Printed Signature _____Paige Czoski

NM SLO

Representing _____



Ameredev Operating

Hat Mesa Becknell State Com - D Pad BECKNELL 21-31-17 STATE COM 911H

OWB

Plan: PRELIM1

Standard Planning Report - Geographic

23 August, 2022



AUS-COMPASS - EDM 15 - 32bit Database:

Company: Ameredev Operating Project: Hat Mesa

Becknell State Com - D Pad Site:

Well: BECKNELL 21-31-17 STATE COM 911H

Wellbore: **OWB** Design: PRELIM1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 911H

kb=27' @ 3833.0usft kb=27' @ 3833.0usft

Grid

Minimum Curvature

Project	Hat Mesa, Lea County.	NM

US State Plane 1983 Map System: Geo Datum:

North American Datum 1983 Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Becknell State Com - D Pad

Northing: 538,931.41 usft 32.479454 Site Position: Latitude: Easting: 767,192.65 usft -103.600912 Longitude: From: Мар

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well BECKNELL 21-31-17 STATE COM 911H

Well Position 0.0 usft +N/-S Northing: 538,931.54 usfl Latitude: 32.479454

> 767,232.70 usfl -103.600782 +E/-W 0.0 usft Easting: Longitude:

Position Uncertainty 0.0 usft Wellhead Elevation: usf Ground Level: 3.807.0 usft

0.39° **Grid Convergence:**

Wellbore **OWB**

Declination **Magnetics Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) 6.44 60.09 47,515.66045066 **IGRF2020** 8/22/2022

Design PRELIM1

Audit Notes:

PROTOTYPE 0.0 Version: Phase: Tie On Depth:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.0 0.0 0.0 357.86

Plan Survey Tool Program Date 8/23/2022

Depth From Depth To

Tool Name (usft) (usft) Survey (Wellbore) Remarks

0.0 21,903.0 PRELIM1 (OWB) MWD

OWSG MWD - Standard

Plan Sections Vertical Measured Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate **TFO** (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (usft) (usft) Target (°) (°) (°) 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 2,000.0 0.00 0.00 0.0 0.00 0.00 0.00 0.00 2,000.0 0.0 2,215.1 4.30 206.54 2,214.9 -7.2 -3.6 2.00 2.00 0.00 206.54 10,717.1 4.30 206.54 10,692.9 -577.7 -288.5 0.00 0.00 0.00 0.00 11.202.0 -101.5 -309.3 12.00 10.96 19.57 152.98 FTP (BS 911H) 11.499.0 90.00 359.59 11,824.6 90.00 359.59 11,202.0 224.1 -311.7 0.00 0.00 0.00 0.00 LTP (BS 911H) 0.00 0.00 BHL (BS 911H) 21,903.0 90.00 359.59 11,202.0 10,302.3 -384.50.00 0.00



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa

Site: Becknell State Com - D Pad

Well: BECKNELL 21-31-17 STATE COM 911H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 911H

kb=27' @ 3833.0usft kb=27' @ 3833.0usft

Crid

Planned Surv	vey .								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0		0.00	0.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
100.0		0.00	100.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
200.0		0.00	200.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
300.0		0.00	300.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
400.0		0.00	400.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
500.0		0.00	500.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
600.0		0.00	600.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
700.0		0.00	700.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
800.0		0.00	0.008	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
900.0 1,000.0		0.00 0.00	900.0 1,000.0	0.0 0.0	0.0 0.0	538,931.54 538,931.54	767,232.70 767,232.70	32.479454 32.479454	-103.600782 -103.600782
1,100.0		0.00	1,100.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
1,200.0		0.00	1,100.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
1,300.0		0.00	1,300.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
1,400.0		0.00	1,400.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
1,500.0		0.00	1,500.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
1,600.0		0.00	1,600.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
1,699.8		0.00	1,699.8	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
RSLR_	GRID								
1,700.0		0.00	1,700.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
1,800.0	0.00	0.00	1,800.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
1,900.0		0.00	1,900.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
2,000.0	0.00	0.00	2,000.0	0.0	0.0	538,931.54	767,232.70	32.479454	-103.600782
	uild 2.00								
2,100.0		206.54	2,100.0	-1.6	-0.8	538,929.98	767,231.92	32.479449	-103.600785
2,110.6		206.54	2,110.6	-1.9	-1.0	538,929.63	767,231.74	32.479448	-103.600785
SLDO_									
2,200.0		206.54	2,199.8	-6.2	-3.1	538,925.30	767,229.58	32.479437	-103.600792
2,215.1		206.54	2,214.9	-7.2	-3.6	538,924.32	767,229.09	32.479434	-103.600794
	502.0 hold a			40.0	0.5	500 040 00	707 000 05	00.470440	400 00000
2,300.0		206.54	2,299.6	-12.9	-6.5	538,918.62	767,226.25	32.479418	-103.600803
2,400.0		206.54	2,399.3	-19.6	-9.8	538,911.91	767,222.89	32.479400 32.479382	-103.600814
2,500.0 2,600.0		206.54 206.54	2,499.0 2,598.7	-26.3 -33.0	-13.2 -16.5	538,905.20 538,898.49	767,219.54 767,216.19	32.479363 32.479363	-103.600825 -103.600836
2,700.0		206.54	2,698.4	-39.8	-10.5	538,891.78	767,210.19	32.479345	-103.600847
2,800.0		206.54	2,798.2	-46.5	-23.2	538,885.07	767,209.49	32.479326	-103.600858
2,900.0		206.54	2,897.9	-53.2	-26.6	538,878.36	767,206.14	32.479308	-103.600870
3,000.0		206.54	2,997.6	-59.9	-29.9	538,871.65	767,202.79	32.479290	-103.600881
3,100.0		206.54	3,097.3	-66.6	-33.3	538,864.94	767,199.43	32.479271	-103.600892
3,200.0		206.54	3,197.0	-73.3	-36.6	538,858.23	767,196.08	32.479253	-103.600903
3,300.0		206.54	3,296.7	-80.0	-40.0	538,851.52	767,192.73	32.479234	-103.600914
3,400.0	4.30	206.54	3,396.5	-86.7	-43.3	538,844.81	767,189.38	32.479216	-103.600925
3,500.0		206.54	3,496.2	-93.4	-46.7	538,838.10	767,186.03	32.479198	-103.600936
3,600.0		206.54	3,595.9	-100.2	-50.0	538,831.39	767,182.68	32.479179	-103.600947
3,602.8	4.30	206.54	3,598.7	-100.3	-50.1	538,831.20	767,182.58	32.479179	-103.600947
TNSL_					=		- 0- :-: : :		
3,700.0		206.54	3,695.6	-106.9	-53.4	538,824.68	767,179.33	32.479161	-103.600958
3,800.0		206.54	3,795.3	-113.6	-56.7	538,817.97	767,175.97	32.479143	-103.600969
3,900.0		206.54	3,895.1	-120.3	-60.1	538,811.26	767,172.62	32.479124	-103.600980
4,000.0		206.54 206.54	3,994.8	-127.0 120.6	-63.4	538,804.55	767,169.27	32.479106	-103.600991 -103.600995
4,039.3		200.04	4,034.0	-129.6	-64.7	538,801.91	767,167.95	32.479099	-103.000995
CPTN_ 4,100.0		206.54	4,094.5	-133.7	-66.8	538,797.84	767,165.92	32.479087	-103.601002
4,200.0		206.54	4,194.2	-140.4	-70.1	538,791.13	767,162.57	32.479069	-103.601013
٦,200.0	7.00	200.04	1,10-1.2	170.7	7 0.1	555,751.10	101,102.01	52.710000	100.001010



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa

Site: Becknell State Com - D Pad

Well: BECKNELL 21-31-17 STATE COM 911H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 911H

kb=27' @ 3833.0usft kb=27' @ 3833.0usft

Crid

Map	Planned Surv	ey								
4,300 0										
4,00.0									Latitude	Longitude
4,500.0 4,30 206.54 4,493.4 1-60.5 -80.2 538,771.00 767,145.51 32,478914 1-03.801046 4,600.0 4,30 206.54 4,892.8 1-74.0 -86.9 538,764.29 7-67,145.81 32,478977 1-03.601068 4,800.0 4,30 206.54 4,892.2 1-187.4 1-93.6 538,756.7 67,145.81 32,478997 1-03.601039 4,900.0 4,30 206.54 4,892.2 1-187.4 1-93.6 538,756.7 67,145.81 32,478994 1-03.601090 5,000.0 4,30 206.54 4,992.0 1-194.1 1-96.9 538,737.45 767,135.76 24,7892.1 1-03.601030 1-03.60103 1-03.601030										
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8,300.0 4.30 206.54 8,282.7 -415.5 -207.5 538,516.01 767,025.16 32.478315 -103.601464 8,400.0 4.30 206.54 8,382.4 -422.2 -210.9 538,509.30 767,021.81 32.478297 -103.601475 8,500.0 4.30 206.54 8,482.1 -428.9 -214.2 538,502.59 767,018.46 32.478279 -103.601486 8,600.0 4.30 206.54 8,581.8 -435.7 -217.6 538,495.88 767,015.11 32.478260 -103.601497 8,700.0 4.30 206.54 8,681.5 -442.4 -220.9 538,489.17 767,011.76 32.478242 -103.601508 8,800.0 4.30 206.54 8,781.2 -449.1 -224.3 538,482.46 767,008.41 32.478224 -103.601519 8,900.0 4.30 206.54 8,881.0 -455.8 -227.6 538,475.75 767,005.05 32.478205 -103.601531 8,909.4 4.30 206.54 8,890.3 -456.4 -228.0 538,475.12 767,004.74 32.478203 -103.601532				,				·		
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8,500.0 4.30 206.54 8,482.1 -428.9 -214.2 538,502.59 767,018.46 32.478279 -103.601486 8,600.0 4.30 206.54 8,581.8 -435.7 -217.6 538,495.88 767,015.11 32.478260 -103.601497 8,700.0 4.30 206.54 8,681.5 -442.4 -220.9 538,489.17 767,011.76 32.478242 -103.601508 8,800.0 4.30 206.54 8,781.2 -449.1 -224.3 538,482.46 767,008.41 32.478224 -103.601519 8,900.0 4.30 206.54 8,881.0 -455.8 -227.6 538,475.75 767,005.05 32.478205 -103.601531 8,909.4 4.30 206.54 8,890.3 -456.4 -228.0 538,475.12 767,004.74 32.478203 -103.601532								·		
8,600.0 4.30 206.54 8,581.8 -435.7 -217.6 538,495.88 767,015.11 32.478260 -103.601497 8,700.0 4.30 206.54 8,681.5 -442.4 -220.9 538,489.17 767,011.76 32.478242 -103.601508 8,800.0 4.30 206.54 8,781.2 -449.1 -224.3 538,482.46 767,008.41 32.478224 -103.601519 8,900.0 4.30 206.54 8,881.0 -455.8 -227.6 538,475.75 767,005.05 32.478205 -103.601531 8,909.4 4.30 206.54 8,890.3 -456.4 -228.0 538,475.12 767,004.74 32.478203 -103.601532										
8,700.0 4.30 206.54 8,681.5 -442.4 -220.9 538,489.17 767,011.76 32.478242 -103.601508 8,800.0 4.30 206.54 8,781.2 -449.1 -224.3 538,482.46 767,008.41 32.478224 -103.601519 8,900.0 4.30 206.54 8,881.0 -455.8 -227.6 538,475.75 767,005.05 32.478205 -103.601531 8,909.4 4.30 206.54 8,890.3 -456.4 -228.0 538,475.12 767,004.74 32.478203 -103.601532										
8,800.0 4.30 206.54 8,781.2 -449.1 -224.3 538,482.46 767,008.41 32.478224 -103.601519 8,900.0 4.30 206.54 8,881.0 -455.8 -227.6 538,475.75 767,005.05 32.478205 -103.601531 8,909.4 4.30 206.54 8,890.3 -456.4 -228.0 538,475.12 767,004.74 32.478203 -103.601532										
8,900.0 4.30 206.54 8,881.0 -455.8 -227.6 538,475.75 767,005.05 32.478205 -103.601531 8,909.4 4.30 206.54 8,890.3 -456.4 -228.0 538,475.12 767,004.74 32.478203 -103.601532										
8,909.4 4.30 206.54 8,890.3 -456.4 -228.0 538,475.12 767,004.74 32.478203 -103.601532	1							·		
				2,230.0	•		,	. ,	5=111 0=00	11130.032
9,000.0 4.30 206.54 8,980.7 -462.5 -231.0 538,469.04 767,001.70 32.478187 -103.601542			206.54	8,980.7	-462.5	-231.0	538,469.04	767,001.70	32.478187	-103.601542



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa
Site: Becknell State Com - D Pad

Well: BECKNELL 21-31-17 STATE COM 911H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 911H

kb=27' @ 3833.0usft kb=27' @ 3833.0usft

Grid

Planned Surv	'ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,100.0		206.54	9,080.4	-469.2	-234.3	538,462.33	766,998.35	32.478168	-103.601553
9,200.0		206.54	9,180.1	-475.9	-237.7	538,455.62	766,995.00	32.478150	-103.601564
9,300.0		206.54	9,279.8	-482.6	-241.0	538,448.91	766,991.65	32.478132	-103.601575
9,400.0 9,500.0		206.54 206.54	9,379.6 9,479.3	-489.3 -496.1	-244.4 -247.8	538,442.20 538,435.49	766,988.30 766,984.95	32.478113 32.478095	-103.601586 -103.601597
9,600.0		206.54	9,579.0	-502.8	-247.0 -251.1	538,428.78	766,981.59	32.478077	-103.601608
9,700.0		206.54	9,678.7	-502.5 -509.5	-254.5	538,422.07	766,978.24	32.478058	-103.601619
9,800.0		206.54	9,778.4	-516.2	-257.8	538,415.36	766,974.89	32.478040	-103.601630
9,900.0		206.54	9,878.2	-522.9	-261.2	538,408.65	766,971.54	32.478021	-103.601641
9,964.5		206.54	9,942.4	-527.2	-263.3	538,404.32	766,969.38	32.478010	-103.601648
FBSG	GRID								
10,000.0	4.30	206.54	9,977.9	-529.6	-264.5	538,401.94	766,968.19	32.478003	-103.601652
10,048.7	4.30	206.54	10,026.4	-532.9	-266.1	538,398.67	766,966.56	32.477994	-103.601657
AEP_T	ARGET_1BS	S_GRID							
10,100.0		206.54	10,077.6	-536.3	-267.9	538,395.23	766,964.84	32.477985	-103.601663
10,200.0		206.54	10,177.3	-543.0	-271.2	538,388.52	766,961.49	32.477966	-103.601674
10,300.0		206.54	10,277.0	-549.7	-274.6	538,381.81	766,958.13	32.477948	-103.601685
10,348.5		206.54	10,325.4	- 553.0	-276.2	538,378.55	766,956.51	32.477939	-103.601690
	ARGET_2C		40.070.7	550.4	077.0	500.075.40	700 054 70	00.477000	400 004000
10,400.0		206.54	10,376.7	-556.4	-277.9	538,375.10	766,954.78	32.477929	-103.601696
10,500.0 10,562.2		206.54 206.54	10,476.5 10,538.4	-563.2 -567.3	-281.3 -283.3	538,368.39 538,364.22	766,951.43 766,949.35	32.477911 32.477900	-103.601707 -103.601714
,		200.54	10,556.4	-507.5	-203.3	330,304.22	700,949.33	32.477900	-103.001714
SBSG_ 10,599.4		206.54	10,575.5	-569.8	-284.6	538,361.72	766,948.10	32.477893	-103.601718
	ARGET_2BS		•	000.0	204.0	000,001.72	700,040.10	02.477000	100.001710
10,600.0		206.54	10,576.2	-569.9	-284.6	538,361.68	766,948.08	32.477893	-103.601718
10,700.0		206.54	10,675.9	-576.6	-288.0	538,354.97	766,944.73	32.477874	-103.601729
10,717.1		206.54	10,692.9	-577.7	-288.5	538,353.82	766,944.16	32.477871	-103.601731
Start D	LS 12.00 TF	O 152.98							
10,725.0		213.69	10,700.8	-578.2	-288.8	538,353.36	766,943.89	32.477870	-103.601732
10,750.0	1.96	273.08	10,725.8	-578.8	-289.7	538,352.75	766,943.04	32.477868	-103.601734
10,775.0		327.57	10,750.8	-578.1	-290.5	538,353.45	766,942.19	32.477870	-103.601737
10,778.4		330.68	10,754.2	-577.9	-290.6	538,353.65	766,942.07	32.477871	-103.601737
	ARGET_2BS								
10,800.0		341.95	10,775.7	-576.1	-291.4	538,355.46	766,941.32	32.477876	-103.601740
10,825.0		347.60	10,800.4	-572.8	-292.2	538,358.76	766,940.46	32.477885	-103.601743
10,850.0 10,875.0		350.57 352.40	10,825.0 10,849.3	-568.2 -562.3	-293.1 -294.0	538,363.36 538,369.24	766,939.58 766,938.71	32.477897 32.477914	-103.601745 -103.601748
10,975.0		353.64	10,873.2	-555.2	-294.9	538,376.39	766,937.85	32.477933	-103.601751
10,925.0		354.54	10,896.7	-546.8	-295.7	538,384.77	766,936.98	32.477956	-103.601753
10,950.0		355.23	10,919.8	-537.2	-296.6	538,394.38	766,936.13	32.477983	-103.601756
10,975.0		355.78	10,942.3	-526.4	-297.4	538,405.19	766,935.28	32.478013	-103.601758
11,000.0	30.18	356.22	10,964.3	-514.4	-298.2	538,417.15	766,934.45	32.478045	-103.601761
11,021.0	32.69	356.54	10,982.2	-503.5	-298.9	538,428.08	766,933.76	32.478075	-103.601763
	ARGET_2BS								
11,025.0		356.60	10,985.5	-501.3	-299.1	538,430.25	766,933.63	32.478081	-103.601763
11,050.0		356.91	11,006.1	-487.1	-299.9	538,444.45	766,932.82	32.478120	-103.601765
11,071.0		357.14	11,022.8	-474.4	-300.5	538,457.18	766,932.16	32.478155	-103.601767
TBSGL		057.40	44.005.0	474.0	200.7	F00 450 70	700 000 04	00.470400	400 004700
11,075.0		357.19	11,025.9	-471.8	-300.7	538,459.70	766,932.04	32.478162	-103.601768
11,100.0 11,125.0		357.43 357.64	11,044.9 11,062.9	-455.6 -438.3	-301.4 -302.2	538,475.97 538,493.21	766,931.27 766,930.53	32.478207 32.478255	-103.601770 -103.601772
11,125.0		357.84	11,082.9	-436.3 -420.2	-302.2 -302.9	538,511.37	766,930.53 766,929.82	32.478304	-103.601772
11,130.0	40.13	337.04	11,000.1	-4 ∠U.∠	-502.8	000,011.01	100,323.02	32.470304	-103.001774



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa

Site: Becknell State Com - D Pad

Well: BECKNELL 21-31-17 STATE COM 911H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 911H

kb=27' @ 3833.0usft kb=27' @ 3833.0usft

Grid

Planned Surv	r ey								
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
11,175.0	51.15	358.01	11,096.3	-401.1	-303.6	538,530.41	766,929.13	32.478357	-103.601775
11,200.0	54.14	358.17	11,111.4	-381.3	-304.2	538,550.27	766,928.47	32.478411	-103.601777
11,225.0		358.32	11,125.6	-360.6	-304.9	538,570.90	766,927.84	32.478468	-103.601779
11,250.0		358.46	11,138.6	-339.3	-305.5	538,592.23	766,927.24	32.478527	-103.601780
11,275.0		358.60	11,150.4	-317.3	-306.0	538,614.22	766,926.68	32.478587	-103.601782
11,277.0		358.61	11,151.3	-315.6	-306.1	538,615.99	766,926.63	32.478592	-103.601782
	ARGET_3CA			2017	0000	500 000 00	700 000 45	00.470040	100 001700
11,300.0		358.72	11,161.1	-294.7	-306.6	538,636.80	766,926.15 766,925.66	32.478649	-103.601783 -103.601784
11,325.0		358.84	11,170.7	-271.6	-307.0	538,659.91	,	32.478713 32.478778	-103.601785
11,350.0 11,375.0		358.96 359.07	11,179.0 11,186.0	-248.0 -224.1	-307.5 -307.9	538,683.49 538,707.47	766,925.20 766,924.79	32.478744 32.478844	-103.601786
11,400.0		359.18	11,100.0	-199.8	-308.3	538,731.79	766,924.42	32.478910	-103.601786
11,425.0		359.28	11,196.3	-175.2	-308.6	538,756.38	766,924.08	32.478978	-103.601787
11,450.0		359.38	11,199.5	-150.4	-308.9	538,781.16	766,923.80	32.479046	-103.601787
11,475.0		359.49	11,201.4	-125.5	-309.1	538,806.09	766,923.55	32.479115	-103.601787
11,499.0		359.59	11,202.0	-101.5	-309.3	538,830.08	766,923.36	32.479181	-103.601788
Start 3	25.6 hold at	11499.0 MD	- FTP (BS 91	11H)					
11,600.0	90.00	359.59	11,202.0	-0.5	-310.1	538,931.07	766,922.63	32.479458	-103.601788
11,700.0		359.59	11,202.0	99.5	-310.8	539,031.07	766,921.90	32.479733	-103.601788
11,800.0		359.59	11,202.0	199.5	-311.5	539,131.07	766,921.18	32.480008	-103.601788
11,824.6		359.59	11,202.0	224.1	-311.7	539,155.63	766,921.00	32.480075	-103.601788
	0078.5 hold			000.5	040.0	500 004 07	700 000 40	00.400000	400 004700
11,900.0 12,000.0		359.59 359.59	11,202.0 11,202.0	299.5 399.5	-312.2 -313.0	539,231.07 539,331.06	766,920.46 766,919.74	32.480283 32.480558	-103.601788 -103.601788
12,000.0		359.59	11,202.0	499.5	-313.0	539,431.06	766,919.74	32.480833	-103.601788
12,700.0		359.59	11,202.0	599.5	-314.4	539,531.06	766,918.29	32.481107	-103.601788
12,300.0		359.59	11,202.0	699.5	-315.1	539,631.06	766,917.57	32.481382	-103.601789
12,400.0		359.59	11,202.0	799.5	-315.9	539,731.05	766,916.84	32.481657	-103.601789
12,500.0		359.59	11,202.0	899.5	-316.6	539,831.05	766,916.12	32.481932	-103.601789
12,600.0		359.59	11,202.0	999.5	-317.3	539,931.05	766,915.40	32.482207	-103.601789
12,700.0	90.00	359.59	11,202.0	1,099.5	-318.0	540,031.04	766,914.68	32.482482	-103.601789
12,800.0		359.59	11,202.0	1,199.5	-318.7	540,131.04	766,913.95	32.482757	-103.601789
12,900.0		359.59	11,202.0	1,299.5	-319.5	540,231.04	766,913.23	32.483031	-103.601789
13,000.0		359.59	11,202.0	1,399.5	-320.2	540,331.04	766,912.51	32.483306	-103.601789
13,100.0		359.59	11,202.0	1,499.5	-320.9	540,431.03	766,911.79	32.483581	-103.601789
13,200.0		359.59	11,202.0	1,599.5	-321.6	540,531.03	766,911.06	32.483856	-103.601790
13,300.0 13,400.0		359.59 359.59	11,202.0 11,202.0	1,699.5 1,799.5	-322.4 -323.1	540,631.03 540,731.03	766,910.34 766,909.62	32.484131 32.484406	-103.601790 -103.601790
13,400.0		359.59	11,202.0	1,799.5	-323.1 -323.8	540,731.03	766,909.82 766,908.89	32.484681	-103.601790
13,600.0		359.59	11,202.0	1,099.5	-323.6	540,931.02	766,908.17	32.484955	-103.601790
13,700.0		359.59	11,202.0	2,099.5	-325.2	541,031.02	766,907.45	32.485230	-103.601790
13,800.0		359.59	11,202.0	2,199.5	-326.0	541,131.02	766,906.73	32.485505	-103.601790
13,900.0		359.59	11,202.0	2,299.5	-326.7	541,231.01	766,906.00	32.485780	-103.601790
14,000.0		359.59	11,202.0	2,399.5	-327.4	541,331.01	766,905.28	32.486055	-103.601791
14,100.0		359.59	11,202.0	2,499.5	-328.1	541,431.01	766,904.56	32.486330	-103.601791
14,200.0		359.59	11,202.0	2,599.5	-328.9	541,531.01	766,903.83	32.486605	-103.601791
14,300.0		359.59	11,202.0	2,699.5	-329.6	541,631.00	766,903.11	32.486880	-103.601791
14,400.0		359.59	11,202.0	2,799.5	-330.3	541,731.00	766,902.39	32.487154	-103.601791
14,500.0		359.59	11,202.0	2,899.5	-331.0	541,831.00	766,901.67	32.487429	-103.601791
14,600.0 14,700.0		359.59 359.59	11,202.0 11,202.0	2,999.5 3,099.5	-331.8 -332.5	541,931.00 542,030.99	766,900.94 766,900.22	32.487704 32.487979	-103.601791 -103.601791
14,700.0		359.59	11,202.0	3,099.5	-332.5 -333.2	542,030.99 542,130.99	766,900.22 766,899.50	32.487979 32.488254	-103.601791
14,800.0		359.59	11,202.0	3,199.4	-333.2	542,130.99	766,898.77	32.488529	-103.601792
15,000.0		359.59	11,202.0	3,399.4	-334.6	542,330.98	766,898.05	32.488804	-103.601792
.5,555.0	55.50	203.00	,_50	-,000.1	001.0	,000.00		220001	.55.561752



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa

Site: Becknell State Com - D Pad

Well: BECKNELL 21-31-17 STATE COM 911H

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Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 911H

kb=27' @ 3833.0usft kb=27' @ 3833.0usft

Crid

Measured Copt Inclination Azimuth Critical Depth (ustr) Dep	Diamand Com									
Depth Inclination Azimuth Depth Inclination Circ Cust Cu	Planned Surv	ey								
15,200.0 90.00 356.59 11,202.0 3,599.4 -338.6 542,530.98 766,895.66 124,8935.3 -103,601792	Depth			Depth			Northing	Easting	Latitude	Longitude
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	19,700.0		359.59	11,202.0	8,099.3	-368.6	547,030.86	766,864.08	32.501722	-103.601797
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19,900.0 90.00 359.59 11,202.0 8,299.3 -370.1 547,230.86 766,862.64 32.502272 -103.601798				,			•	•		
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20,500.0 90.00 359.59 11,202.0 8,899.3 -374.4 547,830.84 766,858.30 32.503921 -103.601798							•	•		



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa
Site: Becknell State Com - D Pad

Well: BECKNELL 21-31-17 STATE COM 911H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 911H

kb=27' @ 3833.0usft kb=27' @ 3833.0usft

Grid

Planned Surv	ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,600.0	90.00	359.59	11,202.0	8,999.3	-375.1	547,930.84	766,857.58	32.504196	-103.601798
20,700.0	90.00	359.59	11,202.0	9,099.3	-375.8	548,030.84	766,856.85	32.504471	-103.601799
20,800.0	90.00	359.59	11,202.0	9,199.3	-376.6	548,130.83	766,856.13	32.504746	-103.601799
20,900.0	90.00	359.59	11,202.0	9,299.3	-377.3	548,230.83	766,855.41	32.505020	-103.601799
21,000.0	90.00	359.59	11,202.0	9,399.3	-378.0	548,330.83	766,854.68	32.505295	-103.601799
21,100.0	90.00	359.59	11,202.0	9,499.3	-378.7	548,430.83	766,853.96	32.505570	-103.601799
21,200.0	90.00	359.59	11,202.0	9,599.3	-379.5	548,530.82	766,853.24	32.505845	-103.601799
21,300.0	90.00	359.59	11,202.0	9,699.3	-380.2	548,630.82	766,852.52	32.506120	-103.601799
21,400.0	90.00	359.59	11,202.0	9,799.3	-380.9	548,730.82	766,851.79	32.506395	-103.601799
21,500.0	90.00	359.59	11,202.0	9,899.3	-381.6	548,830.82	766,851.07	32.506670	-103.601800
21,600.0	90.00	359.59	11,202.0	9,999.3	-382.3	548,930.81	766,850.35	32.506944	-103.601800
21,700.0	90.00	359.59	11,202.0	10,099.3	-383.1	549,030.81	766,849.62	32.507219	-103.601800
21,800.0	90.00	359.59	11,202.0	10,199.3	-383.8	549,130.81	766,848.90	32.507494	-103.601800
21,853.0	90.00	359.59	11,202.0	10,252.3	-384.2	549,183.84	766,848.52	32.507640	-103.601800
LTP (B	S 911H)								
21,903.0	90.00	359.59	11,202.0	10,302.3	-384.5	549,233.84	766,848.16	32.507777	-103.601800
TD at 2	1903.0 - BHI	L (BS 911H)							

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL (BS 911H) - plan hits target of Point	0.00 center	0.00	11,202.0	10,302.3	-384.5	549,233.84	766,848.16	32.507777	-103.601800
LTP (BS 911H) - plan hits target of Point	0.00 center	0.00	11,202.0	10,252.3	-384.2	549,183.84	766,848.50	32.507640	-103.601800
FTP (BS 911H) - plan hits target of Point	0.00 center	0.00	11,202.0	-101.5	-309.3	538,830.08	766,923.36	32.479181	-103.601788



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating Project: Hat Mesa

Site: Becknell State Com - D Pad

Well: BECKNELL 21-31-17 STATE COM 911H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 911H

kb=27' @ 3833.0usft kb=27' @ 3833.0usft

Grid

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,699.8	1,699.8	RSLR_GRID		0.00	
	2,110.6	2,110.6	SLDO_GRID		0.00	
	3,602.8	3,598.7	TNSL_GRID		0.00	
	4,039.3	4,034.0	CPTN_GRID			
	5,436.5	5,427.2	BLCN_GRID			
	7,287.6	7,273.1	BYCN_GRID			
	8,909.4	8,890.3	BSPG_GRID			
	9,964.5	9,942.4	FBSG_GRID			
	10,048.7	10,026.4	AEP_TARGET_1BS_GRID			
	10,348.5	10,325.4	AEP_TARGET_2CARB_GRID			
	10,562.2	10,538.4	SBSG_GRID			
	10,599.4	10,575.5	AEP_TARGET_2BS_EK_UPR_GRI			
	10,778.4	10,754.2	AEP_TARGET_2BS_EK_LWR_GRI			
	11,021.0	10,982.2	AEP_TARGET_2BS_EN_GRID			
	11,071.0	11,022.8	TBSGU_GRID			
	11,277.0	11,151.3	AEP_TARGET_3CARB_SND_GRID			

Plan Annotations				
Measured	Vertical	Local Cool	rdinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,215.1	2,214.9	-7.2	-3.6	Start 8502.0 hold at 2215.1 MD
10,717.1	10,692.9	-577.7	-288.5	Start DLS 12.00 TFO 152.98
11,499.0	11,202.0	-101.5	-309.3	Start 325.6 hold at 11499.0 MD
11,824.6	11,202.0	224.1	-311.7	Start 10078.5 hold at 11824.6 MD
21,903.0	11,202.0	10,302.3	-384.5	TD at 21903.0



2901 Via Fortuna, Suite 600, Austin, Texas 78746 • Phone 832-672-4700 • Fax 832-672-4609

September 9, 2022

Mr. Paul Kautz, Hobbs District Geologist Energy Minerals Natural Resources Dept. Oil Conservation Division 1625 N. French Dr. Hobbs, New Mexico 88240

Re: Advance Energy Partners Hat Mesa, LLC (OGRID No. 372417)
Proposed Well APDs- Becknell Wells
State Land in Section 17, T21S-R33E
Lea County, New Mexico

Dear Mr. Kautz,

This letter is to confirm that there are no active potash leases within a 1-mile radius of the SHLs of the Becknell 21-33-17 State Com wells in Section 17, Township 21 South, Range 33 East, Lea County, New Mexico.

Becknell 21-33-17 State Com Wells:

Becknell 21-33-17 State Com #71H

- The surface location is located 2,437 feet from the north line and 700 feet from the west line (Unit E) of Section 17
- The bottom hole location is located 2,589 feet from the south line and 330 feet from the west line (Unit L) of Section 5.

Becknell 21-33-17 State Com #72H

- The surface location is located 2,437 feet from the north line and 1,700 feet from the west line (Unit F) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 1,973 feet from the west line (Unit K) of Section 5.

Becknell 21-33-17 State Com #73H

- The surface location is located 2,439 feet from the north line and 2,033 feet from the east line (Unit G) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 1,430 feet from the east line (Unit J) of Section 5.

Becknell 21-33-17 State Com #91H

■ The surface location is located 2,437 feet from the north line and 760 feet from the west line (Unit E) of Section 17

The bottom hole location is located 2,589 feet from the south line and 330 feet from the west line (Unit L) of Section 5.

Becknell 21-33-17 State Com #92H

- The surface location is located 2,437 feet from the north line and 1,640 feet from the west line (Unit F) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 2,090 feet from the west line (Unit K) of Section 5.

Becknell 21-33-17 State Com #93H

- The surface location is located 2,440 feet from the north line and 810 feet from the east line (Unit H) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 1,430 feet from the east line (Unit J) of Section 5.

Becknell 21-33-17 State Com #111H

- The surface location is located 2,437 feet from the north line and 1,620 feet from the west line (Unit F) of Section 17
- The bottom hole location is located 2,588 feet from the south line and 1,210 feet from the west line (Unit L) of Section 5.

Becknell 21-33-17 State Com #113H

- The surface location is located 2,439 feet from the north line and 2,073 feet from the east line (Unit G) of Section 17
- The bottom hole location is located 2,588 feet from the south line and 2,304 feet from the east line (Unit J) of Section 5.

Becknell 21-33-17 State Com #114H

- The surface location is located 2,440 feet from the north line and 790 feet from the east line (Unit H) of Section 17
- The bottom hole location is located 2,589 feet from the south line and 550 feet from the east line (Unit I) of Section 5.

Becknell 21-33-17 State Com #811H

- The surface location is located 2,437 feet from the north line and 800 feet from the west line (Unit E) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 1,210 feet from the west line (Unit L) of Section 5.

Becknell 21-33-17 State Com #813H

- The surface location is located 2,439 feet from the north line and 2,133 feet from the east line (Unit G) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 2,304 feet from the east line (Unit J) of Section 5.

Becknell 21-33-17 State Com #814H

- The surface location is located 2,440 feet from the north line and 730 feet from the east line (Unit H) of Section 17
- The bottom hole location is located 2,589 feet from the south line and 550 feet from the east line (Unit I) of Section 5.

Becknell 21-33-17 State Com #821H

- The surface location is located 2,437 feet from the north line and 720 feet from the west line (Unit E) of Section 17.
- The bottom hole location is located 2,589 feet from the south line and 330 feet from the west line (Unit L) of Section 5.

Becknell 21-33-17 State Com #822H

- The surface location is located 2,437 feet from the north line and 1,680 feet from the west line (Unit F) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 2,090 feet from the west line (Unit K) of Section 5.

Becknell 21-33-17 State Com #823H

- The surface location is located 2,439 feet from the north line and 2,053 feet from the east line (Unit G) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 1,430 feet from the east line (Unit J) of Section 5.

Becknell 21-33-17 State Com #831H

- The surface location is located 2,437 feet from the north line and 780 feet from the west line (Unit E) of Section 17
- The bottom hole location is located 2,588 feet from the south line and 1,210 feet from the west line (Unit L) of Section 5.

Becknell 21-33-17 State Com #833H

- The surface location is located 2,439 feet from the north line and 2,113 feet from the east line (Unit G) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 2,304 feet from the east line (Unit J) of Section 5.

Becknell 21-33-17 State Com #834H

- The surface location is located 2,440 feet from the north line and 750 feet from the east line (Unit H) of Section 17
- The bottom hole location is located 2,589 feet from the south line and 550 feet from the east line (Unit I) of Section 5.

Becknell 21-33-17 State Com #911H

• The surface location is located 2,437 feet from the north line and 740 feet from the west line (Unit E) of Section 17

• The bottom hole location is located 2,589 feet from the south line and 430 feet from the west line (Unit L) of Section 5.

Becknell 21-33-17 State Com #912H

- The surface location is located 2,437 feet from the north line and 1,660 feet from the west line (Unit F) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 2,190 feet from the west line (Unit K) of Section 5.

Becknell 21-33-17 State Com #913H

- The surface location is located 2,440 feet from the north line and 830 feet from the east line (Unit H) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 1,330 feet from the east line (Unit J) of Section 5.

Becknell 21-33-17 State Com #921H

- The surface location is located 2,437 feet from the north line and 1,600 feet from the west line (Unit F) of Section 17.
- The bottom hole location is located 2,588 feet from the south line and 1,310 feet from the west line (Unit L) of Section 5.

Becknell 21-33-17 State Com #923H

- The surface location is located 2,439 feet from the north line and 2,093 feet from the east line (Unit G) of Section 17
- The bottom hole location is located 2,588 feet from the south line and 2,204 feet from the east line (Unit J) of Section 5.

Boone 21-33-16 State Com #924H

- The surface location is located 2,440 feet from the north line and 770 feet from the east line (Unit H) of Section 17
- The bottom hole location is located 2,589 feet from the south line and 450 feet from the east line (Unit I) of Section 5.

If you have any questions about this letter, please contact me by phone at 737-444-2997 or email at LLaufer@ameredev.com.

Sincerely,

Lizzy Laufer Landman

Advance Energy Partners Hat Mesa, LLC

Email: LLaufer@ameredev.com

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date:

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Advance Energy Partners Hat Mesa, LLC OGRID: 372417

Other, please describe: _						
I. Well(s): Provide the for recompleted from a sing					vells proposed to	be drilled or prop
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
BECKNELL 21-33-17 State Com 071H	30-025-	E-17-21S-33E	2437' FNL & 700' FWL	1000	1600	3300
BECKNELL 21-33-17 State Com 091H	30-025-	E-17-21S-33E	2437' FNL & 760' FWL	1000	1600	3300
BECKNELL 21-33-17 State Com 811H	30-025-	E-17-21S-33E	2437' FNL & 800' FWL	1000	1600	3300
BECKNELL 21-33-17 State Com 821H	30-025-	E-17-21S-33E	2437' FNL & 720' FWL	1000	1600	3300
BECKNELL 21-33-17 State Com 831H	30-025-	E-17-21S-33E	2437' FNL & 780' FWL	1000	1600	3300
BECKNELL 21-33-17 State Com 911H	30-025-	E-17-21S-33E	2437' FNL & 740' FWL	1000	1600	3300

IV. Central Delivery Point Name:[_ [See 19.15.27.9(D)(1) NM	IAC]
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V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
BECKNELL 21-33-17 State Com 071H	30-025-	8/1/2023	8/21/2023	9/23/2022	11/13/2022	11/16/2022
BECKNELL 21-33-17 State Com 091H	30-025-	5/27/2023	6/16/2023	9/23/2022	11/13/2022	11/16/2022
BECKNELL 21-33-17 State Com 811H	30-025-	4/13/2023	5/3/2023	9/23/2022	11/13/2022	11/16/2022
BECKNELL 21-33-17 State Com 821H	30-025-	7/10/2023	7/30/2023	9/23/2022	11/13/2022	11/16/2022
BECKNELL 21-33-17 State Com 831H	30-025-	5/5/2023	5/25/2023	9/23/2022	11/13/2022	11/16/2022
BECKNELL 21-33-17 State Com 911H	30-025-	6/18/2023	7/8/2023	9/23/2022	11/13/2022	11/16/2022

VI. Separation Equipment: ⊠ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ⊠ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices:

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

🗵 Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural	gas gathering system \square	will □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well	prior to the date of first p	production.			

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment	, or portion	, of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused b	y the new w	ell(s).

ı	Ш.	Attacl	h C	Operator	's p	lan to	manage	product	ion in	response	to th	ne increased	line	pressure

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides	led in
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific inform	nation
for which confidentiality is asserted and the basis for such assertion.	

(i)

Section 3 - Certifications Effective May 25, 2021

	Effective May 25, 2021
Operator certifies that,	after reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	e to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the into account the current	e able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. **box, Operator will select one of the following:
Well Shut-In. □ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection 5; or
	Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential sees for the natural gas until a natural gas gathering system is available, including:
(a)	power generation on lease;
(b)	power generation for grid;
(c)	compression on lease;
(d)	liquids removal on lease;
(e)	reinjection for underground storage;
(f)	reinjection for temporary storage;
(g)	reinjection for enhanced oil recovery;
(h)	fuel cell production; and

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Dayerd Khan
Printed Name: Dayeed Khan
Title: Engineer
E-mail Address: dkhan@ameredev.com
Date: 08/23/2022
Phone: 737-300-4735
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment is sized to allow for retention time and velocity to adequately separate oil, gas, and water at anticipated peak rates.
- All central tank battery equipment is designed to efficiently capture the remaining gas from the liquid phase.
- Valves and meters are designed to service without flow interruption or venting of gas.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

19.15.27.8 (A)

Advanced Energy Partners field operations are designed with the goal of minimizing flaring and preventing venting of natural gas. If capturing the gas is not possible then the gas is combusted/flared using properly sized flares or combustors in accordance with state air permit rules.

19.15.27.8 (B) Venting and Flaring during drilling operations

- A properly-sized flare stack will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared. Venting will only occur if there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety, public health, or the environment.

19.15.27.8 (C) Venting and Flaring during completions or recompletions operations.

- During all phases of flowback, wells will flow through a sand separator, or other appropriate flowback separation equipment, and the well stream will be directed to a central tank battery (CTB) through properly sized flowlines
- The CTB will have properly sized separation equipment for maximum anticipated flowrates
- Multiple stages of separation will be used to separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks equipped with a closed loop system that will recover any residual gas from the tanks and route such gas to a sales outlet.

19.15.27.8 (D) Venting and Flaring during production operations.

• During production, the well stream will be routed to the CTB where multiple stages of separation will separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks with a closed

loop system that will recover any residual gas from the tanks and route such gas to a sales outlet, minimizing tank emissions.

- Flares are equipped with auto-ignition systems and continuous pilot operations.
- Automatic gauging equipment is installed on all tanks.

19.15.27.8 (E) Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- Automatic gauging equipment is installed on all tanks to minimize venting
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- •Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status
- Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 Mcfd.
- Gas/H2S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

19.15.27.8 (F) Measurement or estimation of vented and flared natural gas

- All high pressure flared gas is measured by equipment conforming to API 14.10.
- No meter bypasses are installed.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated through flare flow curves with the assistance of air emissions consultants, as necessary.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- Advanced Energy Partners will use best management practices to vent as minimally as possible during well intervention operations and downhole well maintenance
- All natural gas is routed into the gas gathering system and directed to one of Advanced Energy Partners multiple gas sales outlets.
- All venting events will be recorded and all start-up, shutdown, maintenance logs will be kept for control equipment
- All control equipment will be maintained to provide highest run-time possible
- All procedures are drafted to keep venting and flaring to the absolute minimum