<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 323863

APPLICATION FOR PERMIT TO DRIL	., RE-ENTER, DEEPEN	I, PLUGBACK	, OR ADD A ZONE
--------------------------------	---------------------	-------------	-----------------

Operator Name and Address	2. OGRID Number								
ADVANCE ENERGY PARTNER	372417								
11490 Westheimer Rd., Ste 95	3. API Number								
Houston, TX 77077	Houston, TX 77077								
4. Property Code	5. Property Name	6. Well No.							
333273	BECKNELL 21 33 17 STATE COM	921H							

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
F	17	21S	33E	F	2437	N	1600	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	5	21S	33E	L	2588	S	1310	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	3789
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	22185	3rd Bone Spring Carbonate	7/24/2023	
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	1828	1402	0
Int1	12.25	10.75	40.5	3721	422	0
Int2	9.875	7.625	29.7	5494	812	0
Prod	6.75	5.5	20	22185	710	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program										
Туре	Working Pressure	Test Pressure	Manufacturer							
Double Pam	5000	5000	TRD							

knowledge and l	pelief. have complied with 19.15.14.9 (A)	s true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSI	ERVATION DIVISION
Signature:					
Printed Name:	Electronically filed by Eileen M k	Cosakowski	Approved By:	Paul F Kautz	
Title:			Title:	Geologist	
Email Address: ekosakowski@advanceenergypartners.com			Approved Date:	9/14/2022	Expiration Date: 9/14/2024
Date:	8/24/2022 Phone: 832-672-4604			proval Attached	

District I

District III

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

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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

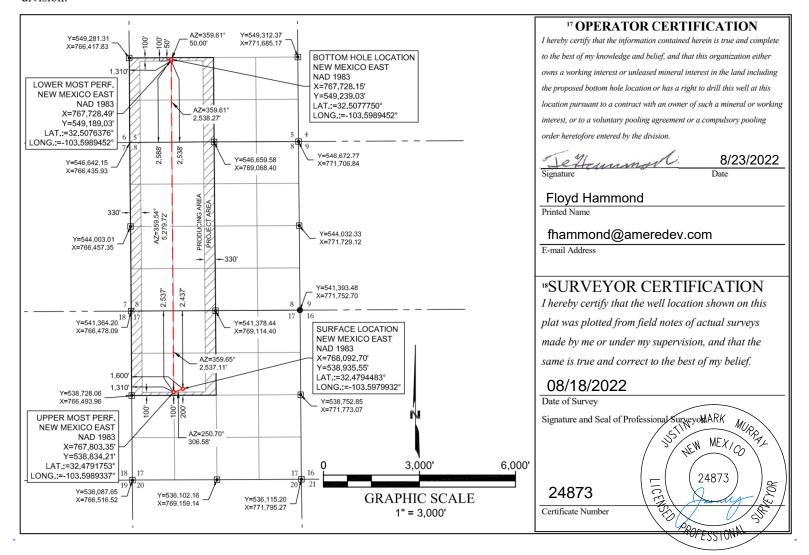
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 50572		² Pool Code 97895	RING				
⁴ Property Code 333273			roperty Name				
⁷ OGRID No. 372417		- 1	perator Name PARTNERS HAT MESA LLC	⁹ Elevation 3,789.27'			

¹⁰ Surface Location

	Surface Location								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	17	21-S	33-E		2,437'	NORTH	1,600'	WEST	LEA
	" 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		2,588'	SOUTH	1,310'	WEST	LEA
12 Dedicated Acres	Joint o	r Infill 14	Consolidation	Code 15 Or	der No.				
640			С						
1	I	I		l l					Į.

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 323863

<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

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]	30-025-50572
11490 Westheimer Rd., Ste 950	Well:
Houston, TX 77077	BECKNELL 21 33 17 STATE COM #921H

OCD	Condition
Reviewer	
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
pkautz	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
pkautz	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 CIRCULATE 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 # 921H

PROPOSED LOCATION: U/L F Sec 17 T21S R33E 2437 FNL 1600 FWL

Lat. 32.4794483

Long. -103.5979932 NAD83

PROPOSED DEPTH: 22185' MD 11484' 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

Paul Kautz

Hobbs Office Geologist, District I

RESONSE:

The above referenced location is in LMR (////year)

Yes No

The above referenced location is within the Buffer Zone-

____ No __

Signed

Printed Signature

Representing B

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,

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 # 921H

PROPOSED LOCATION: U/L F Sec 17 T21S R33E 2437 FNL 1600 FWL

Lat. 32.4794483

Long. -103.5979932 NAD83

PROPOSED DEPTH: 22185' MD

11484' 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 (2022 year) -------Yes No X

The above referenced location is within the Buffer Zone------Yes No X

Signed Printed Signature Paige Czoski

NM SLO

Representing



American Resource Development LLC.

Ameredev Operating

Hat Mesa Becknell State Com - C Pad BECKNELL 21-31-17 STATE COM 921H

OWB

Plan: PRELIM1

Standard Planning Report - Geographic

23 August, 2022



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating
Project: Hat Mesa

Site: Becknell State Com - C Pad

Well: BECKNELL 21-31-17 STATE COM 921H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM921H

KB=27 @ 3816.0usft KB=27 @ 3816.0usft

Grid

Minimum Curvature

Project Hat Mesa, Lea County, NM

Map System: US State Plane 1983 Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Becknell State Com - C Pad

 Site Position:
 Northing:
 538,936.06 usft
 Latitude:
 32.479448

 From:
 Map
 Easting:
 768,192.76 usft
 Longitude:
 -103.597669

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

Well BECKNELL 21-31-17 STATE COM 921H

Well Position +N/-S 0.0 usft **Northing:** 538,935.55 usfl **Latitude:** 32.479448

+E/-W 0.0 usft **Easting**: 768,092.70 usft **Longitude**: -103.597993

Position Uncertainty 0.0 usft Wellhead Elevation: usft Ground Level: 3,789.0 usft

Grid Convergence: 0.39 °

Wellbore OWB

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 8/22/2022
 6.44
 60.09
 47,516.06176639

Design PRELIM1

Audit Notes:

Version:Phase:PROTOTYPETie On Depth:0.0

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

 0.0
 0.0
 0.0
 357.97

Plan Survey Tool Program Date 8/23/2022

Depth From Depth To

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

1 0.0 22,184.7 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 0.00 2,000.0 0.00 2,000.0 0.0 0.00 0.00 0.00 0.00 0.0 2,205.4 2.00 2,205.6 4.11 205.07 -6.7-3.12.00 0.00 205.07 10,998.7 4.11 205.07 10,975.9 -577.7 -270.2 0.00 0.00 0.00 0.00 90.00 11.484.0 -101.3 -289.3 12.00 11.00 19.79 154.46 FTP (BS 921H) 11.779.6 359.59 12,086.2 90.00 359.59 11,484.0 205.2 -291.6 0.00 0.00 0.00 0.00 LTP (BS 921H) -364.5 0.00 0.00 0.00 BHL (BS 921H) 22,184.7 90.00 359.59 11,484.0 10,303.5 0.00



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa

Site: Becknell State Com - C Pad

Well: BECKNELL 21-31-17 STATE COM 921H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 921H

KB=27 @ 3816.0usft KB=27 @ 3816.0usft

Grid

Planned Surv	v ey								
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	538,935.55	768,092.70	32.479448	-103.597993
100.0		0.00	100.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
200.0		0.00	200.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
300.0		0.00	300.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
400.0		0.00	400.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
500.0		0.00	500.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
600.0 700.0		0.00 0.00	600.0 700.0	0.0 0.0	0.0	538,935.55 538,935.55	768,092.70 768,092.70	32.479448 32.479448	-103.597993 -103.597993
800.0		0.00	800.0	0.0	0.0 0.0	538,935.55	768,092.70 768,092.70	32.479448 32.479448	-103.597993
900.0		0.00	900.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
1,000.0		0.00	1,000.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
1,100.0		0.00	1,100.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
1,200.0		0.00	1,200.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
1,300.0		0.00	1,300.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
1,400.0		0.00	1,400.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
1,500.0		0.00	1,500.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
1,600.0		0.00	1,600.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
1,700.0		0.00	1,700.0	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
1,703.2		0.00	1,703.2	0.0	0.0	538,935.55	768,092.70	32.479448	-103.597993
RSLR_		0.00	4 000 0	0.0	0.0	E20 025 55	700 000 70	20.470440	402 507002
1,800.0 1,900.0		0.00 0.00	1,800.0	0.0 0.0	0.0 0.0	538,935.55 538,935.55	768,092.70 768,092.70	32.479448 32.479448	-103.597993 -103.597993
2,000.0		0.00	1,900.0 2,000.0	0.0	0.0	538,935.55	768,092.70	32.479448 32.479448	-103.597993
2,100.0		205.07	2,100.0	-1.6	-0.7	538,933.97	768,091.96	32.479444	-103.597996
2,108.3		205.07	2,108.3	-1.9	-0.9	538,933.70	768,091.83	32.479443	-103.597996
SLDO			,			,	,		
2,205.6		205.07	2,205.4	-6.7	-3.1	538,928.88	768,089.57	32.479430	-103.598004
2,300.0	4.11	205.07	2,299.6	-12.8	-6.0	538,922.74	768,086.71	32.479413	-103.598013
2,400.0		205.07	2,399.3	-19.3	-9.0	538,916.25	768,083.67	32.479396	-103.598023
2,500.0		205.07	2,499.1	-25.8	-12.1	538,909.75	768,080.63	32.479378	-103.598033
2,600.0		205.07	2,598.8	-32.3	-15.1	538,903.26	768,077.59	32.479360	-103.598043
2,700.0		205.07	2,698.6	-38.8	-18.1	538,896.77	768,074.56	32.479342	-103.598053
2,800.0		205.07	2,798.3	-45.3	-21.2	538,890.27	768,071.52	32.479324	-103.598063
2,900.0 3,000.0		205.07 205.07	2,898.0 2,997.8	-51.8 -58.3	-24.2 -27.3	538,883.78 538,877.29	768,068.48 768,065.44	32.479307 32.479289	-103.598073 -103.598083
3,100.0		205.07	3,097.5	-64.8	-30.3	538,870.79	768,062.41	32.479271	-103.598093
3,200.0		205.07	3,197.3	-71.3	-33.3	538,864.30	768,059.37	32.479253	-103.598103
3,300.0		205.07	3,297.0	-77.7	-36.4	538,857.80	768,056.33	32.479235	-103.598113
3,400.0		205.07	3,396.8	-84.2	-39.4	538,851.31	768,053.30	32.479218	-103.598123
3,500.0	4.11	205.07	3,496.5	-90.7	-42.4	538,844.82	768,050.26	32.479200	-103.598133
3,600.0	4.11	205.07	3,596.2	-97.2	-45.5	538,838.32	768,047.22	32.479182	-103.598143
3,600.3	4.11	205.07	3,596.5	-97.2	-45.5	538,838.31	768,047.21	32.479182	-103.598143
TNSL_									
3,700.0		205.07	3,696.0	-103.7	-48.5	538,831.83	768,044.18	32.479164	-103.598153
3,800.0		205.07	3,795.7	-110.2	-51.6	538,825.34	768,041.15	32.479146	-103.598163
3,900.0		205.07	3,895.5	-116.7	-54.6	538,818.84	768,038.11	32.479129	-103.598173
4,000.0		205.07	3,995.2	-123.2	-57.6	538,812.35 538,808.82	768,035.07 768,033.42	32.479111	-103.598183
4,054.3 CPTN		205.07	4,049.3	-126.7	-59.3	030,000.02	100,033.42	32.479101	-103.598188
4,100.0		205.07	4,094.9	-129.7	-60.7	538,805.86	768,032.03	32.479093	-103.598193
4,200.0		205.07	4,194.7	-136.2	-63.7	538,799.36	768,029.00	32.479075	-103.598203
4,300.0		205.07	4,294.4	-142.7	-66.7	538,792.87	768,025.96	32.479057	-103.598213
4,400.0		205.07	4,394.2	-149.2	-69.8	538,786.37	768,022.92	32.479040	-103.598223
4,500.0		205.07	4,493.9	-155.7	-72.8	538,779.88	768,019.89	32.479022	-103.598233



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa

Site: Becknell State Com - C Pad

Well: BECKNELL 21-31-17 STATE COM 921H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 921H

KB=27 @ 3816.0usft KB=27 @ 3816.0usft

Grid

Design.	1111								
Planned Surv	ev								
	٠,								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
` '									_
4,600.0		205.07	4,593.7	-162.2	-75.8	538,773.39	768,016.85	32.479004	-103.598243
4,700.0		205.07	4,693.4	-168.7	-78.9	538,766.89	768,013.81	32.478986	-103.598253
4,800.0		205.07	4,793.1	-175.2	-81.9	538,760.40	768,010.77	32.478969	-103.598263
4,900.0		205.07	4,892.9	-181.6	-85.0	538,753.91	768,007.74	32.478951	-103.598273
5,000.0		205.07	4,992.6	-188.1	-88.0	538,747.41	768,004.70	32.478933	-103.598283
5,100.0		205.07	5,092.4	-194.6	-91.0	538,740.92	768,001.66	32.478915	-103.598293
5,200.0		205.07	5,192.1	-201.1	-94.1	538,734.42	767,998.62	32.478897	-103.598303
5,300.0	4.11	205.07	5,291.9	-207.6	-97.1	538,727.93	767,995.59	32.478880	-103.598313
5,400.0		205.07	5,391.6	-214.1	-100.1	538,721.44	767,992.55	32.478862	-103.598323
5,427.2	4.11	205.07	5,418.8	-215.9	-101.0	538,719.67	767,991.72	32.478857	-103.598326
BLCN_	GRID								
5,500.0		205.07	5,491.3	-220.6	-103.2	538,714.94	767,989.51	32.478844	-103.598333
5,600.0		205.07	5,591.1	-227.1	-106.2	538,708.45	767,986.48	32.478826	-103.598343
5,700.0		205.07	5,690.8	-233.6	-109.3	538,701.96	767,983.44	32.478808	-103.598353
5,800.0		205.07	5,790.6	-240.1	-112.3	538,695.46	767,980.40	32.478791	-103.598363
5,900.0	4.11	205.07	5,890.3	-246.6	-115.3	538,688.97	767,977.36	32.478773	-103.598373
6,000.0	4.11	205.07	5,990.1	-253.1	-118.4	538,682.47	767,974.33	32.478755	-103.598383
6,100.0	4.11	205.07	6,089.8	-259.6	-121.4	538,675.98	767,971.29	32.478737	-103.598393
6,200.0	4.11	205.07	6,189.5	-266.1	-124.4	538,669.49	767,968.25	32.478719	-103.598403
6,300.0	4.11	205.07	6,289.3	-272.6	-127.5	538,662.99	767,965.21	32.478702	-103.598413
6,400.0	4.11	205.07	6,389.0	-279.1	-130.5	538,656.50	767,962.18	32.478684	-103.598423
6,500.0	4.11	205.07	6,488.8	-285.5	-133.6	538,650.01	767,959.14	32.478666	-103.598433
6,600.0	4.11	205.07	6,588.5	-292.0	-136.6	538,643.51	767,956.10	32.478648	-103.598443
6,700.0	4.11	205.07	6,688.3	-298.5	-139.6	538,637.02	767,953.07	32.478631	-103.598453
6,800.0	4.11	205.07	6,788.0	-305.0	-142.7	538,630.52	767,950.03	32.478613	-103.598463
6,900.0	4.11	205.07	6,887.7	-311.5	-145.7	538,624.03	767,946.99	32.478595	-103.598473
7,000.0	4.11	205.07	6,987.5	-318.0	-148.7	538,617.54	767,943.95	32.478577	-103.598483
7,100.0	4.11	205.07	7,087.2	-324.5	-151.8	538,611.04	767,940.92	32.478559	-103.598493
7,200.0	4.11	205.07	7,187.0	-331.0	-154.8	538,604.55	767,937.88	32.478542	-103.598503
7,267.8	4.11	205.07	7,254.6	-335.4	-156.9	538,600.15	767,935.82	32.478529	-103.598510
BYCN_	GRID								
7,300.0		205.07	7,286.7	-337.5	-157.9	538,598.06	767,934.84	32.478524	-103.598513
7,400.0	4.11	205.07	7,386.5	-344.0	-160.9	538,591.56	767,931.80	32.478506	-103.598523
7,500.0		205.07	7,486.2	-350.5	-163.9	538,585.07	767,928.77	32.478488	-103.598533
7,600.0		205.07	7,585.9	-357.0	-167.0	538,578.57	767,925.73	32.478470	-103.598543
7,700.0	4.11	205.07	7,685.7	-363.5	-170.0	538,572.08	767,922.69	32.478453	-103.598553
7,800.0		205.07	7,785.4	-370.0	-173.0	538,565.59	767,919.65	32.478435	-103.598563
7,900.0	4.11	205.07	7,885.2	-376.5	-176.1	538,559.09	767,916.62	32.478417	-103.598573
8,000.0		205.07	7,984.9	-383.0	-179.1	538,552.60	767,913.58	32.478399	-103.598583
8,100.0		205.07	8,084.7	-389.4	-182.2	538,546.11	767,910.54	32.478381	-103.598593
8,200.0		205.07	8,184.4	-395.9	-185.2	538,539.61	767,907.51	32.478364	-103.598603
8,300.0		205.07	8,284.1	-402.4	-188.2	538,533.12	767,904.47	32.478346	-103.598613
8,400.0		205.07	8,383.9	-408.9	-191.3	538,526.63	767,901.43	32.478328	-103.598623
8,500.0	4.11	205.07	8,483.6	-415.4	-194.3	538,520.13	767,898.39	32.478310	-103.598633
8,600.0		205.07	8,583.4	-421.9	-197.3	538,513.64	767,895.36	32.478292	-103.598643
8,700.0	4.11	205.07	8,683.1	-428.4	-200.4	538,507.14	767,892.32	32.478275	-103.598653
8,800.0		205.07	8,782.9	-434.9	-203.4	538,500.65	767,889.28	32.478257	-103.598663
8,881.4	4.11	205.07	8,864.0	-440.2	-205.9	538,495.37	767,886.81	32.478242	-103.598671
BSPG									
8,900.0		205.07	8,882.6	-441.4	-206.5	538,494.16	767,886.24	32.478239	-103.598673
9,000.0		205.07	8,982.3	-447.9	-209.5	538,487.66	767,883.21	32.478221	-103.598683
9,100.0		205.07	9,082.1	-454.4	-212.5	538,481.17	767,880.17	32.478204	-103.598693
9,200.0		205.07	9,181.8	-460.9	-215.6	538,474.68	767,877.13	32.478186	-103.598703
9,300.0		205.07	9,281.6	-467.4	-218.6	538,468.18	767,874.10	32.478168	-103.598713
-,5.0			-,			,	- ,		



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

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

Well: BECKNELL 21-31-17 STATE COM 921H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 921H

KB=27 @ 3816.0usft KB=27 @ 3816.0usft

Grid

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
9,400.0 9,500.0 9,600.0 9,700.0 9,800.0	4.11 4.11 4.11	205.07 205.07 205.07 205.07 205.07	9,381.3 9,481.1 9,580.8 9,680.5 9,780.3	-473.9 -480.4 -486.9 -493.3 -499.8	-221.6 -224.7 -227.7 -230.8 -233.8	538,461.69 538,455.19 538,448.70 538,442.21 538,435.71	767,871.06 767,868.02 767,864.98 767,861.95 767,858.91	32.478150 32.478132 32.478115 32.478097 32.478079	-103.598723 -103.598733 -103.598743 -103.598753 -103.598763
9,900.0 9,937.2 FBSG	4.11 4.11	205.07 205.07 205.07	9,880.0 9,917.1	-506.3 -508.7	-236.8 -238.0	538,429.22 538,426.80	767,855.87 767,854.74	32.478061 32.478055	-103.598773 -103.598776
10,000.0 10,023.1	4.11 4.11	205.07 205.07	9,979.8 10,002.8	-512.8 -514.3	-239.9 -240.6	538,422.73 538,421.23	767,852.83 767,852.13	32.478043 32.478039	-103.598783 -103.598785
	ARGET_1BS		10 070 E	E40.2	242.0	E20 446 02	767 040 00	20.470006	102 500702
10,100.0 10,200.0 10,300.0 10,333.9	4.11 4.11	205.07 205.07 205.07 205.07	10,079.5 10,179.3 10,279.0 10,312.8	-519.3 -525.8 -532.3 -534.5	-242.9 -245.9 -249.0 -250.0	538,416.23 538,409.74 538,403.24 538,401.04	767,849.80 767,846.76 767,843.72 767,842.69	32.478026 32.478008 32.477990 32.477984	-103.598793 -103.598803 -103.598813 -103.598816
	ARGET_2C		10,012.0	-554.5	-230.0	330,401.04	707,042.00	02.47700 4	-100.00010
10,400.0 10,500.0 10,532.7	4.11 4.11 4.11	205.07 205.07 205.07 205.07	10,378.7 10,478.5 10,511.1	-538.8 -545.3 -547.4	-252.0 -255.0 -256.0	538,396.75 538,390.26 538,388.13	767,840.69 767,837.65 767,836.66	32.477972 32.477954 32.477949	-103.598823 -103.598833 -103.598836
SBSG_									
10,576.1		205.07	10,554.4	-550.2	-257.4	538,385.31	767,835.34	32.477941	-103.598840
	ARGET_2BS			554.0	050.4	500 000 70	707 004 04	00 477007	400 500040
10,600.0		205.07	10,578.2	-551.8	-258.1	538,383.76	767,834.61	32.477937	-103.598843
10,700.0 10,758.9		205.07 205.07	10,678.0 10,736.7	-558.3 -562.1	-261.1 -262.9	538,377.27 538,373.44	767,831.57 767,829.78	32.477919 32.477908	-103.598853 -103.598859
1	ARGET_2BS		-	-302.1	-202.9	330,373.44	707,029.70	32.477900	-100.090009
10,800.0		205.07	10,777.7	-564.8	-264.2	538,370.78	767,828.54	32.477901	-103.598863
10,900.0		205.07	10,877.5	-571.3	-267.2	538,364.28	767,825.50	32.477883	-103.598873
10,985.4		205.07	10,962.6	-576.8	-269.8	538,358.74	767,822.91	32.477868	-103.598881
	ARGET_2BS		•				•		
10,998.7		205.07	10,975.9	-577.7	-270.2	538,357.87	767,822.50	32.477866	-103.598882
11,000.0		206.05	10,977.2	-577.8	-270.2	538,357.79	767,822.46	32.477866	-103.598883
11,025.0	1.86	252.27	11,002.2	-578.7	-271.0	538,356.89	767,821.70	32.477863	-103.598885
11,040.6	2.21	306.28	11,017.7	-578.6	-271.5	538,356.99	767,821.21	32.477863	-103.598887
TBSGL									
11,050.0		323.72	11,027.1	- 578.3	-271.8	538,357.30	767,820.92	32.477864	-103.598888
11,075.0		341.63	11,052.1	-576.5	-272.6	538,359.01	767,820.14	32.477869	-103.598890
11,100.0		347.83	11,076.9	-573.5	-273.3	538,362.03	767,819.35	32.477877	-103.598893
11,125.0		350.91	11,101.5	-569.2	-274.1	538,366.34 538,371.94	767,818.56	32.477889	-103.598895
11,150.0 11,175.0		352.75 353.97	11,125.8 11,149.9	-563.6 -556.8	-274.9 -275.7	538,378.80	767,817.76 767,816.97	32.477904 32.477923	-103.598898 -103.598900
11,181.5		354.22	11,156.0	-554.8	-275.9	538,380.79	767,816.77	32.477929	-103.598901
	ARGET_3CA			001.0	2.0.0	000,000.10	101,010.11	02.117020	100.00001
11,200.0		354.85	11,173.5	-548.6	-276.5	538,386.91	767,816.18	32.477946	-103.598902
11,225.0		355.51	11,196.7	-539.3	-277.3	538,396.25	767,815.40	32.477971	-103.598905
11,250.0		356.03	11,219.3	-528.8	-278.1	538,406.79	767,814.62	32.478000	-103.598907
11,275.0		356.45	11,241.4	-517.1	-278.8	538,418.50	767,813.85	32.478033	-103.598909
11,300.0		356.80	11,262.8	-504.2	-279.6	538,431.35	767,813.10	32.478068	-103.598911
11,325.0		357.10	11,283.5	-490.2	-280.3	538,445.30	767,812.36	32.478106	-103.598913
11,350.0		357.36	11,303.5	-475.2	-281.1	538,460.32	767,811.63	32.478148	-103.598915
11,375.0		357.58	11,322.7	-459.2	-281.8	538,476.37	767,810.92	32.478192	-103.598917
11,400.0		357.78	11,341.0	-442.2	-282.5	538,493.40	767,810.23	32.478238	-103.598919
11,425.0	47.47	357.96	11,358.3	-424.2	-283.1	538,511.36	767,809.57	32.478288	-103.598921



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa

Site: Becknell State Com - C Pad

Well: BECKNELL 21-31-17 STATE COM 921H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 921H

KB=27 @ 3816.0usft KB=27 @ 3816.0usft

Grid

Measured Dopth Inclination Azimuth Dopth (usft) (usf	Planned Surv	ey								
Depth Inclination Azimuth Depth 4N/S 4E/AW (ustf)	Measured			Vertical			Man	Man		
11,450.0 50.47 538.12 11,374.7 -405.3 -283.8 538,530.20 767,808.92 32,478340 -103.589822 11,475.0 53.47 538.27 11,390.1 538.57 -284.4 538,549.88 767,808.30 32,478340 -103.589826 11,500.0 58.47 388.41 11,404.5 -365.2 -284.5 538,549.88 767,808.30 32,478340 -103.589826 11,500.0 58.47 388.41 11,404.5 -365.2 -285.0 538,570.34 767,807.17 5 32,478540 -103.589826 11,528.0 58.4 58.6 561 14,429.9 -322.2 -285.0 538,591.33 767,807.17 5 32,478540 -103.589827 11,528.0 58.4 58.6 561 14,429.9 -322.2 -286.1 538,691.33 767,807.17 5 32,478568 -103.589829 11,528.0 58.6 561 14,429.9 -322.2 -286.1 538,691.33 767,807.40 52.2 -2765.8 -103.589827 11,528.0 58.6 561 14,429.9 -322.2 -286.1 538,622.62 767,808.40 32,4785.0 -103.589829 11,427.6 56.4 56.5 56.5 56.5 56.5 56.5 56.5 56	Depth			Depth			Northing	Easting	Latitudo	Longitudo
11,475.0 53.47 358.47 358.47 31.390.1 385.7 2284.4 538,549.88 767,808.30 32.478594 -103.598924 11,525.0 59.46 358.41 11,407.5 344.0 228.5 538,570.34 767,807.71 32.478558 -103.598927 11,550.0 62.46 358.66 11,427.7 344.0 228.5 538,515.3 767,807.15 32.478558 -103.598927 11,550.4 63.71 358.71 11,434.6 312.9 -228.3 538,622.62 767,806.40 32.478568 -103.598929 322.2 228.1 358,622.62 767,806.40 32.478569 -103.598929 11,650.0 68.46 358.78 11,440.8 -299.7 -228.6 538,635.83 767,806.12 32.478650 -103.598929 11,650.0 68.46 368.89 11,460.6 -276.7 -2287.1 538,625.83 767,806.12 32.478650 -103.598930 11,625.0 71.46 368.99 11,465.6 -276.7 -2287.1 538,626.21 767,805.21 32.478658 -103.598930 11,650.0 71.46 368.99 11,466.6 -276.7 -2287.1 538,626.21 767,805.21 32.478658 -103.598931 11,675.0 77.45 369.19 11,472.6 -205.1 -228.2 538,730.45 767,804.45 32.478690 -103.598933 11,725.0 83.45 369.38 11,480.9 -155.8 -228.9 538,759.45 767,804.45 32.478690 -103.598933 11,750.0 83.45 369.38 11,480.9 -155.8 -228.9 538,759.77 367,803.38 32.47906 -103.598934 11,775.0 89.45 369.57 11,484.0 -105.9 -2289.3 538,824.61 767,803.38 32.479163 -103.598934 11,775.0 89.45 369.59 11,484.0 -105.9 -2289.3 538,824.61 767,803.38 32.479163 -103.598934 12,200.0 90.00 359.59 11,484.0 -105.9 -2289.3 538,824.61 767,803.30 32.479163 -103.598934 12,200.0 90.00 359.59 11,484.0 -101.9 -229.2 538,954.61 767,803.20 32.479213 -103.598934 12,200.0 90.00 359.59 11,484.0 -101.9 -229.2 538,954.61 767,803.30 32.479163 -103.598934 12,200.0 90.00 359.59 11,484.0 -101.9 -229.5 538,954.61 767,803.30 32.479163 -103.598935 12,200.0 90.00 359.59 11,484.0 -101.9 -229.5 538,954.61 767,803.60 32.480861 -103.598935 12,200.	` ′									
11,590.0 56.47 388.41 11,404.5 365.2 285.0 538,570.34 767,807.71 32,478450 1-03,598926 11,550.0 59.46 385.64 11,429.9 322.2 286.1 538,613.3 767,806.62 32,478568 1-03,598927 11,550.0 62.46 38.6 61 14,229.9 322.2 286.1 538,613.3 767,806.62 32,478568 1-03,598928 11,550.4 63,71 385.71 11,434.6 312.9 2.863.5 538,613.3 767,806.62 32,478568 1-03,598928 11,550.4 65.46 385.71 11,440.8 299.7 286.6 538,635.83 767,805.66 32,478594 1-03,598929 11,500.0 68.46 388.89 11,450.6 276.7 287.1 538,623.8 767,805.66 32,478630 -1.03,598930 11,650.0 71,46 389.9 11,469.2 2.53.2 2.875.5 38,635.8 3 767,805.66 32,478630 -1.03,598930 11,650.0 77,45 389.9 11,462.6 2-257.6 2.871.5 38,682.31 767,805.66 32,478630 -1.03,598930 11,650.0 77,45 389.9 11,467.6 2-257.5 2.875.5 387.06.2 767,804.48 13,2478583 -1.03,598931 11,700.0 80.45 359.29 11,477.4 -180.6 2.88.6 538,754.8 8 767,805.4 13,2478580 -1.03,598931 11,700.0 80.45 359.29 11,477.4 -180.6 2.88.6 538,754.8 8 767,804.45 12 32,478588 -1.03,598931 11,750.0 88.45 359.48 11,483.1 -130.9 2.88.1 1,388.8 37.79.73 767,803.45 24.79026 -1.03,598934 11,775.0 88.45 39.48 11,483.1 -130.9 2.88.1 538,804.8 3 77,803.35 32,479026 -1.03,598934 11,775.0 88.45 395.57 11,484.0 -105.3 -288.3 538,804.8 3 767,803.35 32,479175 -1.03,598934 11,775.0 0,00 359.59 11,484.0 -105.3 -289.3 538,834.21 767,803.35 32,479175 -1.03,598934 11,800.0 90.00 359.59 11,484.0 -105.9 2.89.3 538,834.21 767,803.35 32,479175 -1.03,598934 12,000.0 90.00 359.59 11,484.0 119, 2.290.5 338,934.61 767,803.20 32,479241 -1.03,598934 12,000.0 90.00 359.59 11,484.0 119, 2.290.5 338,934.61 767,803.20 32,479241 -1.03,598934 12,000.0 90.00 359.59 11,484.0 119, 2.290.5 338,934.61 767,803.35 32,479175 -1.03,598934 12,000.0 90.00 359.59 11,484.0 119, 2.290.5 338,934.61 767,803.35 32,479163 -1.03,598934 12,000.0 90.00 359.59 11,484.0 119, 2.290.5 338,934.61 767,803.35 32,47956 -1.03,598935 12,000.0 90.00 359.59 11,484.0 119, 2.290.5 338,934.61 767,803.35 32,489506 -1.03,598936 12,000.0 90.00 359.59 11,484.0 119, 2.290.5 338,934.61 767,803.35 32,489506 -1.03,	·									
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Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating

Project: Hat Mesa

Site: Becknell State Com - C Pad

Well: BECKNELL 21-31-17 STATE COM 921H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 921H

KB=27 @ 3816.0usft KB=27 @ 3816.0usft

Grid

Measured Vertical Map Map Depth Inclination Azimuth Depth +N/-S +E/-W Northing Easting (usft) (°) (°) (usft) (usft) (usft) (usft) Latitude	Longitude
15,300.0 90.00 359.59 11,484.0 3,419.0 -314.8 542,354.52 767,777.90 32.488852	
15,400.0 90.00 359.59 11,484.0 3,519.0 -315.5 542,454.52 767,777.18 32.489126	
15,500.0 90.00 359.59 11,484.0 3,619.0 -316.2 542,554.51 767,776.46 32.489401	
15,600.0 90.00 359.59 11,484.0 3,719.0 -317.0 542,654.51 767,775.74 32.489676	
15,700.0 90.00 359.59 11,484.0 3,819.0 -317.7 542,754.51 767,775.01 32.489951	
15,800.0 90.00 359.59 11,484.0 3,919.0 -318.4 542,854.51 767,774.29 32.490226	
15,900.0 90.00 359.59 11,484.0 4,019.0 -319.1 542,954.50 767,773.57 32.490501	
16,000.0 90.00 359.59 11,484.0 4,118.9 -319.9 543,054.50 767,772.85 32.490776 16,100.0 90.00 359.59 11,484.0 4,218.9 -320.6 543,154.50 767,772.12 32.491051	
16,100.0 90.00 359.59 11,484.0 4,318.9 -321.3 543,254.50 767,771.40 32.491325	
16,300.0 90.00 359.59 11,484.0 4,418.9 -322.0 543,354.49 767,770.68 32.491600	
16,400.0 90.00 359.59 11,484.0 4,518.9 -322.7 543,454.49 767,769.95 32.491875	
16,500.0 90.00 359.59 11,484.0 4,618.9 -323.5 543,554.49 767,769.23 32.492150	
16,600.0 90.00 359.59 11,484.0 4,718.9 -324.2 543,654.49 767,768.51 32.492425	
16,700.0 90.00 359.59 11,484.0 4,818.9 -324.9 543,754.48 767,767.79 32.492700	
16,800.0 90.00 359.59 11,484.0 4,918.9 -325.6 543,854.48 767,767.06 32.492975	-103.598940
16,900.0 90.00 359.59 11,484.0 5,018.9 -326.4 543,954.48 767,766.34 32.493249	-103.598940
17,000.0 90.00 359.59 11,484.0 5,118.9 -327.1 544,054.48 767,765.62 32.493524	
17,100.0 90.00 359.59 11,484.0 5,218.9 -327.8 544,154.47 767,764.90 32.493799	
17,200.0 90.00 359.59 11,484.0 5,318.9 -328.5 544,254.47 767,764.17 32.494074	
17,300.0 90.00 359.59 11,484.0 5,418.9 -329.2 544,354.47 767,763.45 32.494349	
17,400.0 90.00 359.59 11,484.0 5,518.9 -330.0 544,454.46 767,762.73 32.494624	
17,500.0 90.00 359.59 11,484.0 5,618.9 -330.7 544,554.46 767,762.00 32.494899	
17,600.0 90.00 359.59 11,484.0 5,718.9 -331.4 544,654.46 767,761.28 32.495173	
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17,800.0 90.00 359.59 11,464.0 5,916.9 -332.9 544,854.45 767,759.84 32.495723 17,900.0 90.00 359.59 11,484.0 6,018.9 -333.6 544,954.45 767,759.11 32.495998	
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18,100.0 90.00 359.59 11,484.0 6,218.9 -335.0 545,154.45 767,757.67 32.496548	
18,200.0 90.00 359.59 11,484.0 6,318.9 -335.8 545,254.44 767,756.95 32.496823	
18,300.0 90.00 359.59 11,484.0 6,418.9 -336.5 545,354.44 767,756.22 32.497098	
18,400.0 90.00 359.59 11,484.0 6,518.9 -337.2 545,454.44 767,755.50 32.497372	
18,500.0 90.00 359.59 11,484.0 6,618.9 -337.9 545,554.44 767,754.78 32.497647	
18,600.0 90.00 359.59 11,484.0 6,718.9 -338.6 545,654.43 767,754.05 32.497922	-103.598942
18,700.0 90.00 359.59 11,484.0 6,818.9 -339.4 545,754.43 767,753.33 32.498197	-103.598942
18,800.0 90.00 359.59 11,484.0 6,918.9 -340.1 545,854.43 767,752.61 32.498472	-103.598942
18,900.0 90.00 359.59 11,484.0 7,018.9 -340.8 545,954.43 767,751.89 32.498747	
19,000.0 90.00 359.59 11,484.0 7,118.9 -341.5 546,054.42 767,751.16 32.499022	
19,100.0 90.00 359.59 11,484.0 7,218.9 -342.3 546,154.42 767,750.44 32.499296	
19,200.0 90.00 359.59 11,484.0 7,318.9 -343.0 546,254.42 767,749.72 32.499571	
19,300.0 90.00 359.59 11,484.0 7,418.9 -343.7 546,354.42 767,749.00 32.499846	
19,400.0 90.00 359.59 11,484.0 7,518.9 -344.4 546,454.41 767,748.27 32.500121	
19,500.0 90.00 359.59 11,484.0 7,618.9 -345.1 546,554.41 767,747.55 32.500396 19,600.0 90.00 359.59 11,484.0 7,718.9 -345.9 546,654.41 767,746.83 32.500671	
19,700.0 90.00 359.59 11,484.0 7,818.9 -346.6 546,754.40 767,746.10 32.500946 19,800.0 90.00 359.59 11,484.0 7,918.8 -347.3 546,854.40 767,745.38 32.501220	
19,900.0 90.00 359.59 11,484.0 8,018.8 -348.0 546,954.40 767,744.66 32.501220	
20,000.0 90.00 359.59 11,484.0 8,118.8 -348.8 547,054.40 767,743.94 32.501770	
20,100.0 90.00 359.59 11,484.0 8,218.8 -349.5 547,154.39 767,743.21 32.502045	
20,200.0 90.00 359.59 11,484.0 8,318.8 -350.2 547,254.39 767,742.49 32.502320	
20,300.0 90.00 359.59 11,484.0 8,418.8 -350.9 547,354.39 767,741.77 32.502595	
20,400.0 90.00 359.59 11,484.0 8,518.8 -351.7 547,454.39 767,741.05 32.502870	
20,500.0 90.00 359.59 11,484.0 8,618.8 -352.4 547,554.38 767,740.32 32.503144	
20,600.0 90.00 359.59 11,484.0 8,718.8 -353.1 547,654.38 767,739.60 32.503419	
20,700.0 90.00 359.59 11,484.0 8,818.8 -353.8 547,754.38 767,738.88 32.503694	-103.598944



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating Project: Hat Mesa

Site: Becknell State Com - C Pad

Well: BECKNELL 21-31-17 STATE COM 921H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 921H

KB=27 @ 3816.0usft KB=27 @ 3816.0usft

Grid

Planned Surv	rey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,800.0 20,900.0 21,000.0 21,100.0 21,200.0 21,300.0 21,400.0 21,500.0 21,600.0 21,700.0 21,800.0 21,900.0	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59 359.59 359.59 359.59 359.59 359.59 359.59	11,484.0 11,484.0 11,484.0 11,484.0 11,484.0 11,484.0 11,484.0 11,484.0 11,484.0 11,484.0 11,484.0 11,484.0	8,918.8 9,018.8 9,118.8 9,218.8 9,318.8 9,418.8 9,518.8 9,618.8 9,718.8 9,818.8 9,918.8 10,018.8	-354.5 -355.3 -356.0 -356.7 -357.4 -358.2 -358.9 -359.6 -360.3 -361.0 -361.8 -362.5 -363.2	547,854.38 547,954.37 548,054.37 548,154.37 548,254.37 548,354.36 548,454.36 548,654.36 548,654.36 548,754.35 548,854.35 548,954.35 549,054.34	767,738.15 767,737.43 767,736.71 767,735.99 767,735.26 767,734.54 767,733.82 767,733.10 767,732.37 767,731.65 767,730.93 767,730.20 767,729.48	32.503969 32.504244 32.504519 32.504794 32.505069 32.505343 32.505618 32.505893 32.506168 32.506443 32.506718 32.506993 32.507267	-103.598944 -103.598944 -103.598944 -103.598944 -103.598945 -103.598945 -103.598945 -103.598945 -103.598945 -103.598945 -103.598945 -103.598945
22,100.0		359.59	11,484.0	10,218.8	-363.9	549,154.34	767,728.76	32.507542	-103.598945
LTP (B	S 921H)								
22,184.7	90.00	359.59	11,484.0	10,303.5	-364.5	549,239.03	767,728.15	32.507775	-103.598945
BHL (B	S 921H)								

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
LTP (BS 921H) - plan misses targ - Point	0.00 et center by	0.00 34.7usft at	11,484.0 22100.0us	10,253.5 ft MD (11484	-364.2 .0 TVD, 102	549,189.03 18.8 N, -363.9 E)	767,728.49	32.507638	-103.598945
BHL (BS 921H) - plan hits target c - Point	0.00 enter	0.00	11,484.0	10,303.5	-364.5	549,239.03	767,728.15	32.507775	-103.598945
FTP (BS 921H) - plan hits target of Point	0.00 enter	0.00	11,484.0	-101.3	-289.3	538,834.21	767,803.35	32.479175	-103.598934



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating Project: Hat Mesa

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

Well: BECKNELL 21-31-17 STATE COM 921H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BECKNELL 21-31-17 STATE COM 921H

KB=27 @ 3816.0usft KB=27 @ 3816.0usft

Grid

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,703.2	1,703.2	RSLR_GRID		0.00	
	2,108.3	2,108.3	SLDO_GRID		0.00	
	3,600.3	3,596.5	TNSL_GRID		0.00	
	4,054.3	4,049.3	CPTN_GRID			
	5,427.2	5,418.8	BLCN_GRID			
	7,267.8	7,254.6	BYCN_GRID			
	8,881.4	8,864.0	BSPG_GRID			
	9,937.2	9,917.1	FBSG_GRID			
	10,023.1	10,002.8	AEP_TARGET_1BS_GRID			
	10,333.9	10,312.8	AEP_TARGET_2CARB_GRID			
	10,532.7	10,511.1	SBSG_GRID			
	10,576.1	10,554.4	AEP_TARGET_2BS_EK_UPR_GRI			
	10,758.9	10,736.7	AEP_TARGET_2BS_EK_LWR_GRI			
	10,985.4	10,962.6	AEP_TARGET_2BS_EN_GRID			
	11,040.6	11,017.7	TBSGU_GRID			
	11,181.5	11,156.0	AEP_TARGET_3CARB_SND_GRID			
	11,560.4	11,434.6	AEP_TARGET_3CARB_SLT_GRID			



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

to

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

II. Type:	: ⊠ Original □ 1	Amendment di	ue to □ 19.15.27.9.	D(6)(a) NMAC	□ 19.15.27.9.D(6)(b) NMAC □	Other.
If Other,	please describe: _						
			mation for each ne			vells proposed to	be drilled or propos
	Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
	CKNELL 21-33-17 Com 072H	30-025-	F-17-21S-33E	2437' FNL & 1700' FWL	1000	1600	3300
	CKNELL 21-33-17 Com 092H	30-025-	F-17-21S-33E	2437' FNL & 1640' FWL	1000	1600	3300
	KNELL 21-33-17 Com 111H	30-025-	F-17-21S-33E	2437' FNL & 1620' FWL	1000	1600	3300
	KNELL 21-33-17 Com 822H	30-025-	F-17-21S-33E	2437' FNL & 1680' FWL	1000	1600	3300
	KNELL 21-33-17 Com 912H	30-025-	F-17-21S-33E	2437' FNL & 1660' FWL	1000	1600	3300
	KNELL 21-33-17 c Com 921H	30-025-	F-17-21S-33E	2437' FNL & 1600' FWL	1000	1600	3300

IV. Central Delivery Point Name:	[See	e 19.	15.27	.9(I))(1	.) NN	MΑ	C]
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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	30-025-	4/5/2023	4/25/2023	8/21/2022	10/11/2022	10/14/2022
State Com 072H						
DE STOLET 1 01 00 15	20.025	ć (1 0 /0 0 0 0	6/20/2022	0/24/2002	10/11/2000	10/11/0000
BECKNELL 21-33-17	30-025-	6/10/2023	6/30/2023	8/21/2022	10/11/2022	10/14/2022
State Com 092H						
BECKNELL 21-33-17	30-025-	7/2/2023	7/22/2023	8/21/2022	10/11/2022	10/14/2022
State Com 111H						
BECKNELL 21-33-17	30-025-	4/27/2023	5/17/2023	8/21/2022	10/11/2022	10/14/2022
State Com 822H						
BECKNELL 21-33-17	30-025-	5/19/2023	6/8/2023	8/21/2022	10/11/2022	10/14/2022
State Com 912H						
BECKNELL 21-33-17	30-025-	7/24/2023	8/13/2023	8/21/2022	10/11/2022	10/14/2022
State Com 921H						

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 [☐ will ☐ will not h	nave capacity to	gather 100% o	of the anticipated	natural gas
production volume from the well	prior to the date of first	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	rell(s).

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

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information providence.	ided 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 infor	mation
for which confidentiality is asserted and the basis for such assertion.	

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

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: Dayeed 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