



- a. I hold a bachelor's degree in Petroleum Engineering obtained from The University of Texas at Austin, I completed my education in 2008.
- b. I have been employed as a drilling engineer with Ascent Energy since 2021 and have been involved in Ascent's drilling program in New Mexico along with other members of our engineering team. I have 13 years of experience and previously have worked in Alaska, Colorado, Algeria, and Texas.

5. Ascent has been working on the technical requirements of its plans for how to best develop its Anvil Development Area in the Designated Potash Area for more than two years, since Ascent first began acquiring leasehold interest in the W/2 of Sections 28 and 33, Township 20 South, Range 30 East and conceiving from scratch the overall plan. Operations in the Potash Area require special considerations, for which Ascent has provided and implemented, but which my review of the proposals of Apache Corporation ("Apache") and Mewbourne Oil Company ("Mewbourne") show an absence of implementation. I have reviewed data in the well proposals which lead me to believe that Apache does not account for certain prerequisite specifications necessary in the casing for successful and prudent operations in these lands .

6. Mewbourne's proposal has a casing design that requires the setting of a production liner. By comparison, Ascent proposes to have necessary fortifications, of its casing in place, including a full production string from MTD to surface as well as cement to surface on all strings. This provides for a more environmentally friendly and robust casing design. By having multiple layers of not only of steel but also of cement to the surface, Ascent minimizes risks of leakage into the Potash and Capitan Reef. **Exhibit D-1** is a comparison of the Drilling and Wellbore Design by and between Ascent, Mewbourne Oil Company, and Apache Corporation.

- a. Bone Spring Formation: the BLM requires a 4-string design

b. Wolfcamp Formation: the BLM requires a 5-string design

7. Ascent invests in these fortifications of its casing to meet the highest standards of prudence as an operator, and we are able to do so without sacrificing overall production. Ascent's wellbore construction for the Anvil Fed Com 401H, 501H, 601H, 701H and 702H comply with the BLM regulations requiring the additional string of casing and fortifications for operations in the Potash Area while also having demonstrated to the BLM, in order to have received their approval of the our DA, that Ascent's Development Plan will result in maximum ultimate recovery of oil and gas.

8. **Exhibit D-2** are the wellbore diagrams for Ascent's Anvil Fed Com 502H, Anvil Fed Com 503H, Anvil Fed Com 602H, and Anvil Fed Com 703H.

9. The Exhibits to this Affidavit were previously prepared by the Ascent's former drilling engineer, while employed at Ascent, or compiled from Ascent's company business records, both of which I have confirmed, and I have reviewed the Exhibits and attest to and confirm their accuracy and authenticity.

10. The granting of this Application is in the interests of conservation, the prevention of waste, and the protection of correlative rights, and will avoid the drilling of unnecessary wells.

11. The foregoing is correct and complete to the best of my knowledge and belief.

12. Ascent Energy is a capable and prudent operator in the Lea and Eddy Counties, New Mexico. Examples of Ascent's most recent activity are located on the east side of the Designated Potash Area in Lea County, Township 21 South, Ranges 32 and 33 East, rank among the leading wells results in the area. As you can see on Exhibit D-3, Ascent's 2020 results in its 2nd Bone Spring, 3rd Bone Spring and Wolfcamp formation compare to, if not best, some of the most respectable operators.

*[Signature page follows]*

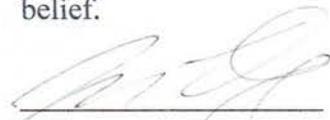


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Joshua Mallery

**Verification**

I declare under penalty of perjury under the laws of the United States of America and the State of New Mexico that the foregoing is true and correct to the best of my knowledge, information, and belief.



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Joshua Mallery  
May 7, 2021

# JOSH MALLERY

## EXPERIENCE

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ASCENT ENERGY, LLC, Denver, Colorado  
**Drilling Manager, Delaware Basin, 2021-Present**

Oversee Drilling Engineering and Drilling Operations in Lea County, New Mexico.

KODA RESOURCES, Denver, Colorado  
**Drilling Engineer Consultant, Uintah Basin & Bakken, 2020-2021**

Managed project to oversee the permitting and planning of new pads in Red Wash field in the Uintah Basin. Participated in 2020 rig program well planning and operations engineering. Calculated Costs and AFEs on upcoming wells and projects in the Uintah Basin and the Bakken.

- Planned and permitted 270+ wells for future development.
- Led Project to determine if existing wells could be sidetracked economically to evaluate different zones across the field.

CENTENNIAL RESOURCE DEVELOPMENT, INC., Denver, Colorado  
**Drilling Engineer, Delaware Basin, 2018-2020**

Drilled unconventional shale horizontal wells in Delaware Basin in Reeves County, TX and Lea County, NM. Managed project to eliminate an intermediate casing string and upsize completion in development wells: validated casing design, evaluated torque and drag, selected rigs, optimized hydraulics, created cement program within narrow ECD window, and selected BHAs. Performed and validated casing designs during exploration program. Coordinated across multidisciplinary groups with Geology, Reservoir, Completions and Land to deliver overall well objectives. Instrumental in drilling success through performance and cost savings.

- Reduced 3.8 days and 20% from cycle time, cutting costs by 15% (\$400,000 per well).
- Generated cost savings of \$500,000 per well accomplished by eliminating intermediate casing string.
- Negotiated contracts and pricing for well services with projected savings of \$8,100,000 per year across entire rig fleet.

GROUPEMENT BERKINE, SONATRACH/ANADARKO, Hassi Messaoud, Algeria  
**International Drilling Engineer, 2016-2018**

Handled drilling engineering and operations in international environment while navigating different cultures and backgrounds. Worked at Groupement Berkine, an Algerian joint venture between Sonatrach and Anadarko. Managed contracts and tendering process for vendor selection. Created annual capital budget. Managed rig selection process including technical and commercial portions. Performed pre-planning engineering and active well engineering for new drills, workovers, and P&As.

- Integrated performance management system, reducing cycle times 24% and costs 11% through rigorous data tracking via self-designed service quality management program.

ANADARKO PETROLEUM, Denver, Colorado  
**Drilling Engineer, DJ Basin, 2013-2016**

Served as operations and planning engineer for Niobrara, Codell, and Greenhorn unconventional horizontals, including “monobore” casing designs and three-section lateral well designs. Supervised three rigs for 24/7 drilling operations, generated well plans, conducted pre-spuds, coordinated vendors, as well as evaluated and introduced new technology. Performed casing design and hydraulic, torque, and drag modeling. Consulted with geologists, geophysicists, landmen, and completions engineers to deliver consistent wells. Approved invoices and investigated product and tool failures to hold vendors accountable when at fault. Orchestrated training seminars for entire drilling group to increase downhole knowledge of tools and equipment. Planned and executed three separate 350’ continuous coring runs and two intercept wells in DJ Basin. Designed mud and cement program.

- Created directional plans in COMPASS software while also mitigating collision risks.
- Mentored and developed less experienced engineers in technical capabilities.

BP ALASKA, Anchorage, Alaska  
**Drilling and Completions Engineer, Prudhoe Bay, 2008-2013**

Served as operations engineer for extended reach horizontal wells drilled and completed in Prudhoe Bay on drilling pads with average well depth of 18,000’ MD and 9,000’ TVD.

## Drilling and Wellbore Design Comparison

Competing Drilling Plan Factors	Ascent	Mewbourne	Comment
AFE	NA	NA	Not Comparable
2 <sup>nd</sup> Bone Spring Wellbore Design	✓	✗	Ascent proposes robust 4 string design to surface with cement to surface on all strings
3 <sup>rd</sup> Bone Spring Wellbore Design	✓	✗	Ascent proposes robust 4 string design to surface with cement to surface on all strings
Wolfcamp Wellbore Design	✓	✗	Ascent proposes robust 5 string design to surface with cement to surface on all strings
Formation Evaluation	✓	✗	Ascent proposes open-hole logging planned for future development

**EXHIBIT  
D-1**

Ascent Energy, LLC	
Exhibit:	
Wellbore Design Factors	
	<b>E2W2</b>

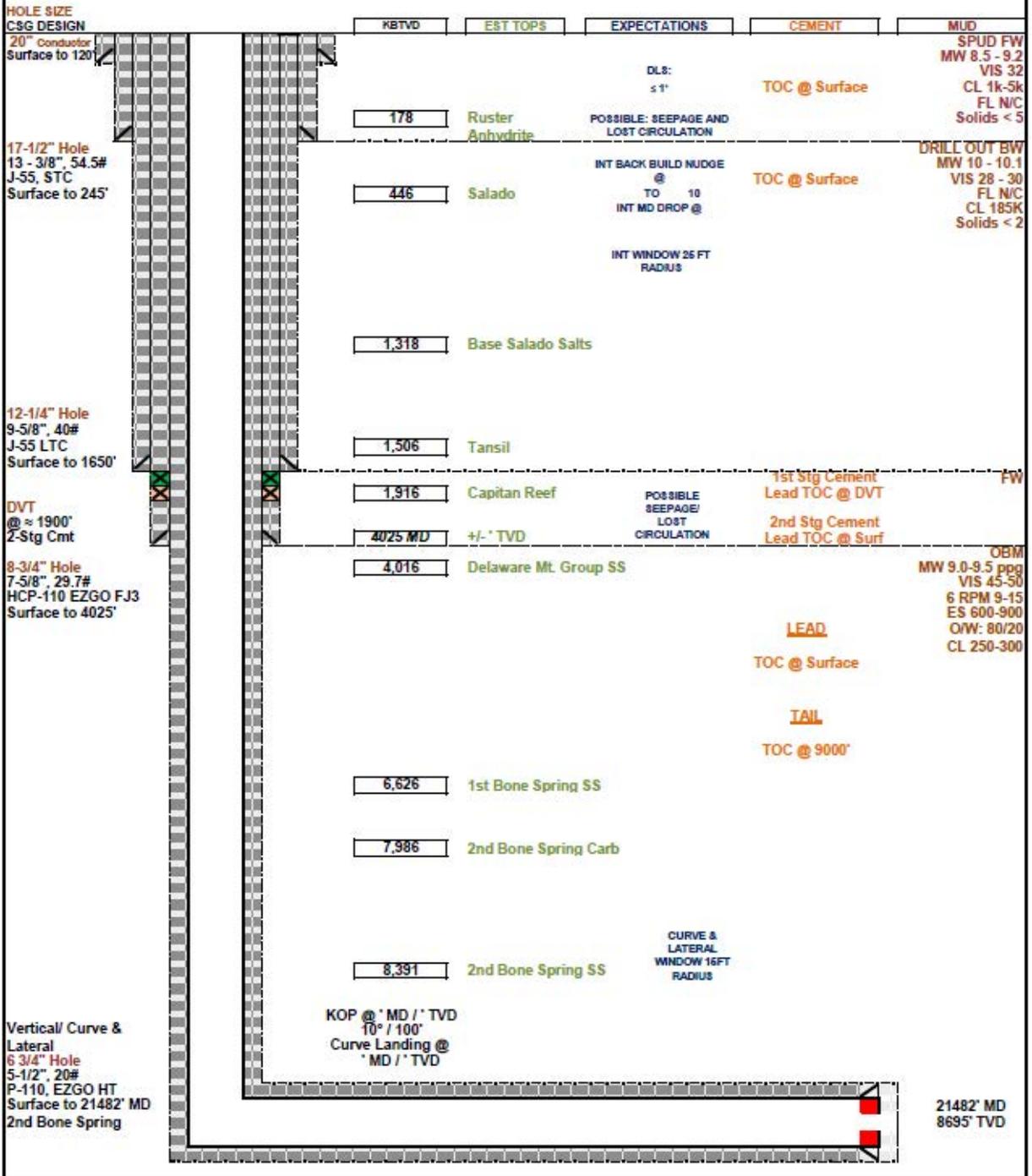


WELL NAME:	Anvil Fed Com
WELL NO.:	502H
FIELD:	
SH LOCATION:	
BH LOCATION:	
LEGAL:	Sec 3 - T21S - R32E

RIG:	Pending
COUNTY:	Eddy
SPUD DATE:	Pending
DRAWN BY:	Gema Volek
DATE:	2/7/2021
PLAN #:	

API #:	30-015-
PERMIT #:	NA
STATE:	New Mexico
Ground Elevation:	3396
Floor Height:	Pending
Total KB:	

**Anvil Fed Com 502H**



**EXHIBIT  
D-2**

Ascent Energy, LLC		
Exhibit:		
Anvil Fed Com 502H		
		<b>E2W2</b>

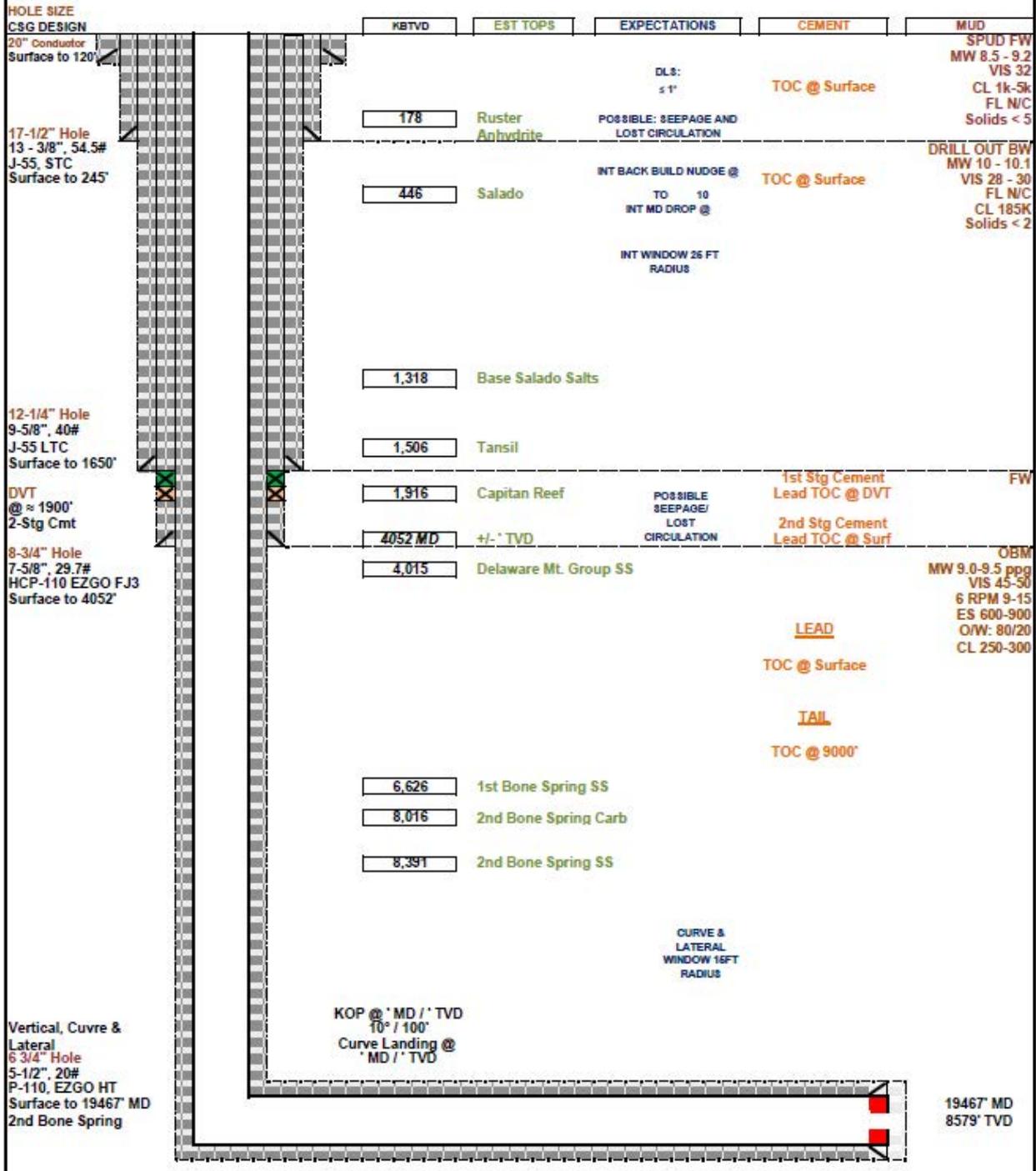


WELL NAME:	Anvil Fed Com
WELL NO.:	503H
FIELD:	
SH LOCATION:	
BH LOCATION:	
LEGAL:	Sec 3 - T21S - R32E

RIG:	Pending
COUNTY:	Eddy
SPUD DATE:	Pending
DRAWN BY:	Gema Volek
DATE:	2/7/2021
PLAN #:	

API #:	30-015-
PERMIT #:	NA
STATE:	New Mexico
Ground Elevation:	3396
Floor Height:	Pending
Total KB:	

### Anvil Fed Com 503H



Vertical, Curve & Lateral  
6-3/4" Hole  
5-1/2", 20#  
P-110, EZGO HT  
Surface to 19467' MD  
2nd Bone Spring

Ascent Energy, LLC	
Exhibit:	
Anvil Fed Com 503H	
	<b>E2W2</b>



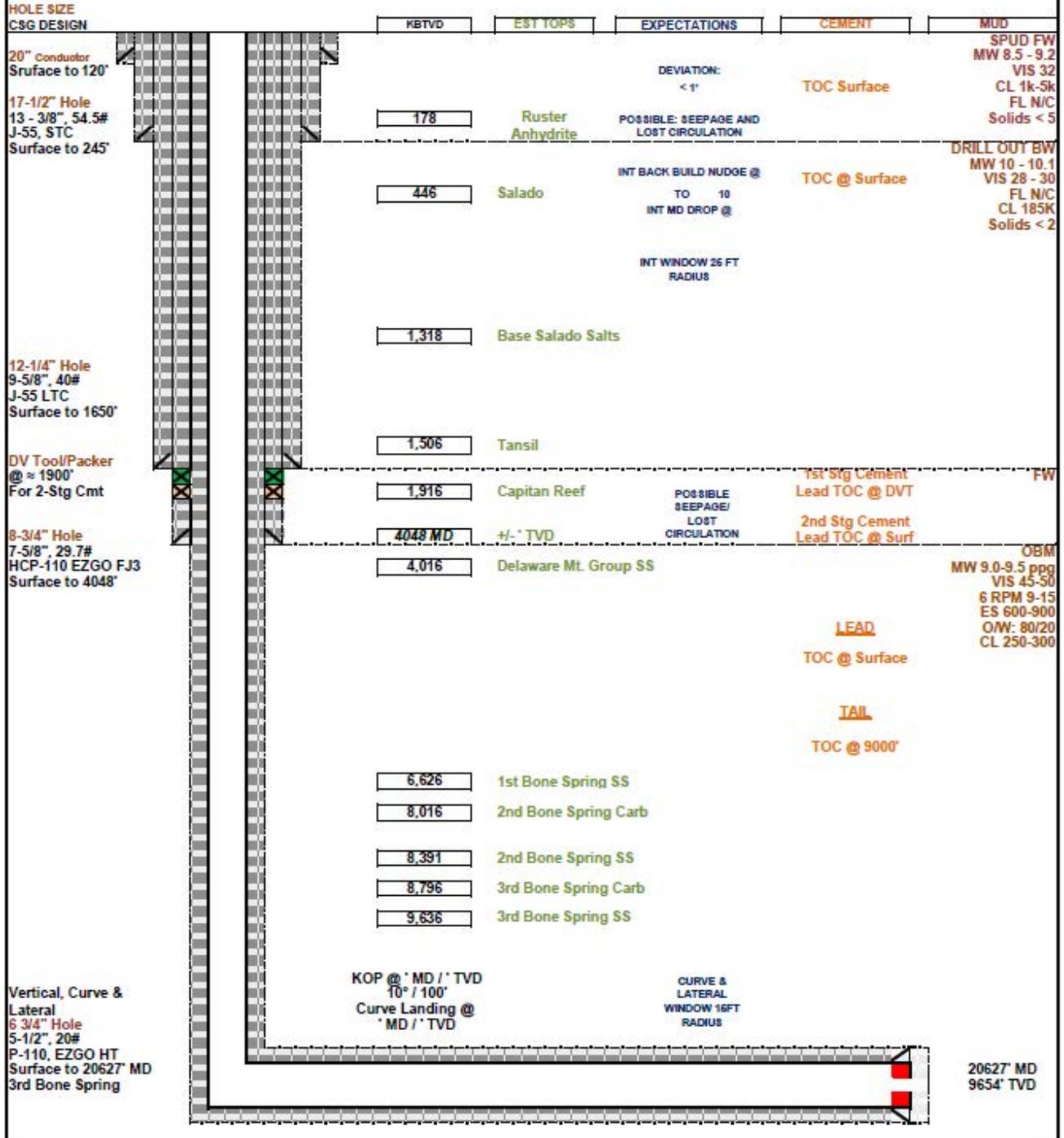


WELL NAME:	Anvil Fed Com
WELL NO.:	602H
FIELD:	
SH LOCATION:	
BH LOCATION:	
LEGAL:	Sec 3 - T21S - R32E

RIG:	Pending
COUNTY:	Eddy
SPUD DATE:	Pending
DRAWN BY:	Gema Volek
DATE:	2/7/2021
PLAN #:	

API #:	30-015-
PERMIT #:	NA
STATE:	New Mexico
Land Elevation:	3336
Floor Height:	Pending
Total KB:	

### Anvil Fed Com 602H



Ascent Energy, LLC	
Exhibit:	
Anvil Fed Com 602H	
	E2W2

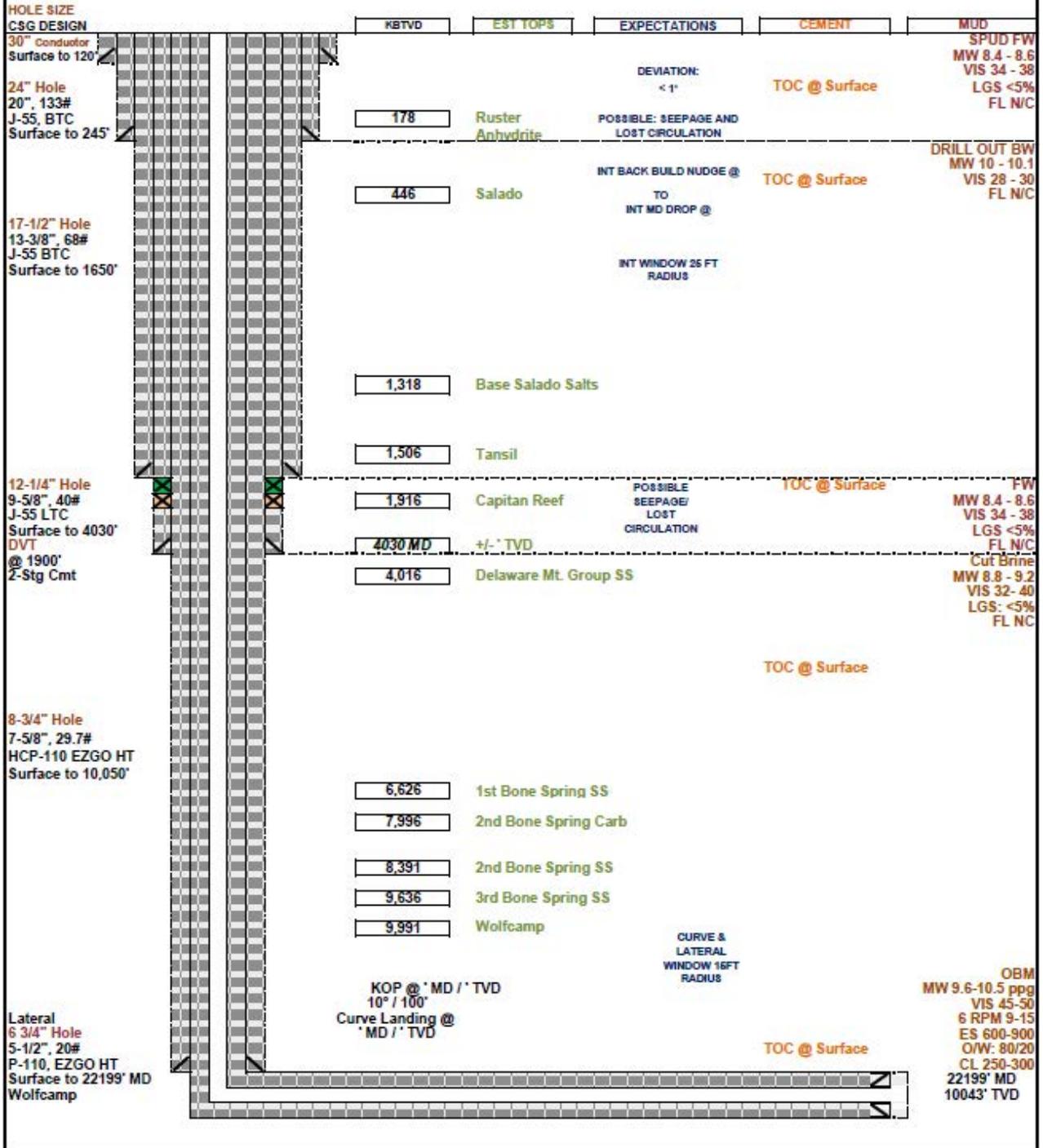


WELL NAME:	Anvil Fed Com
WELL NO.:	703H
FIELD:	
SH LOCATION:	
BH LOCATION:	
LEGAL:	Sec 3 - T21S - R32E

RIG:	Pending
COUNTY:	Eddy
SPUD DATE:	Pending
DRAWN BY:	Gema Volek
DATE:	2/7/2021
PLAN #:	

API #:	30-015-
PERMIT #:	NA
STATE:	New Mexico
Ground Elevation:	3396
Floor Height:	Pending
Total KB:	

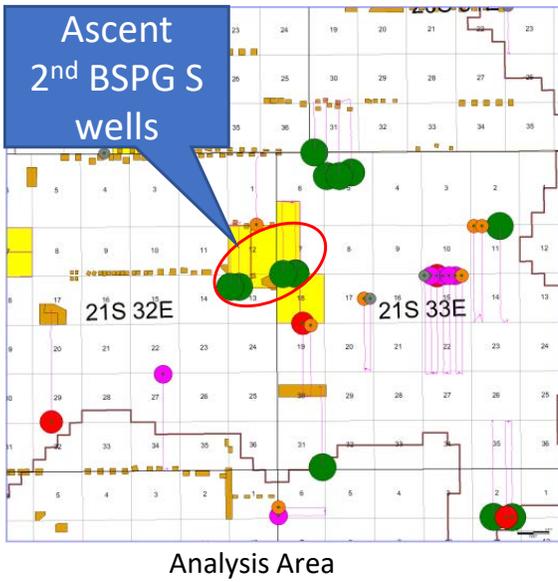
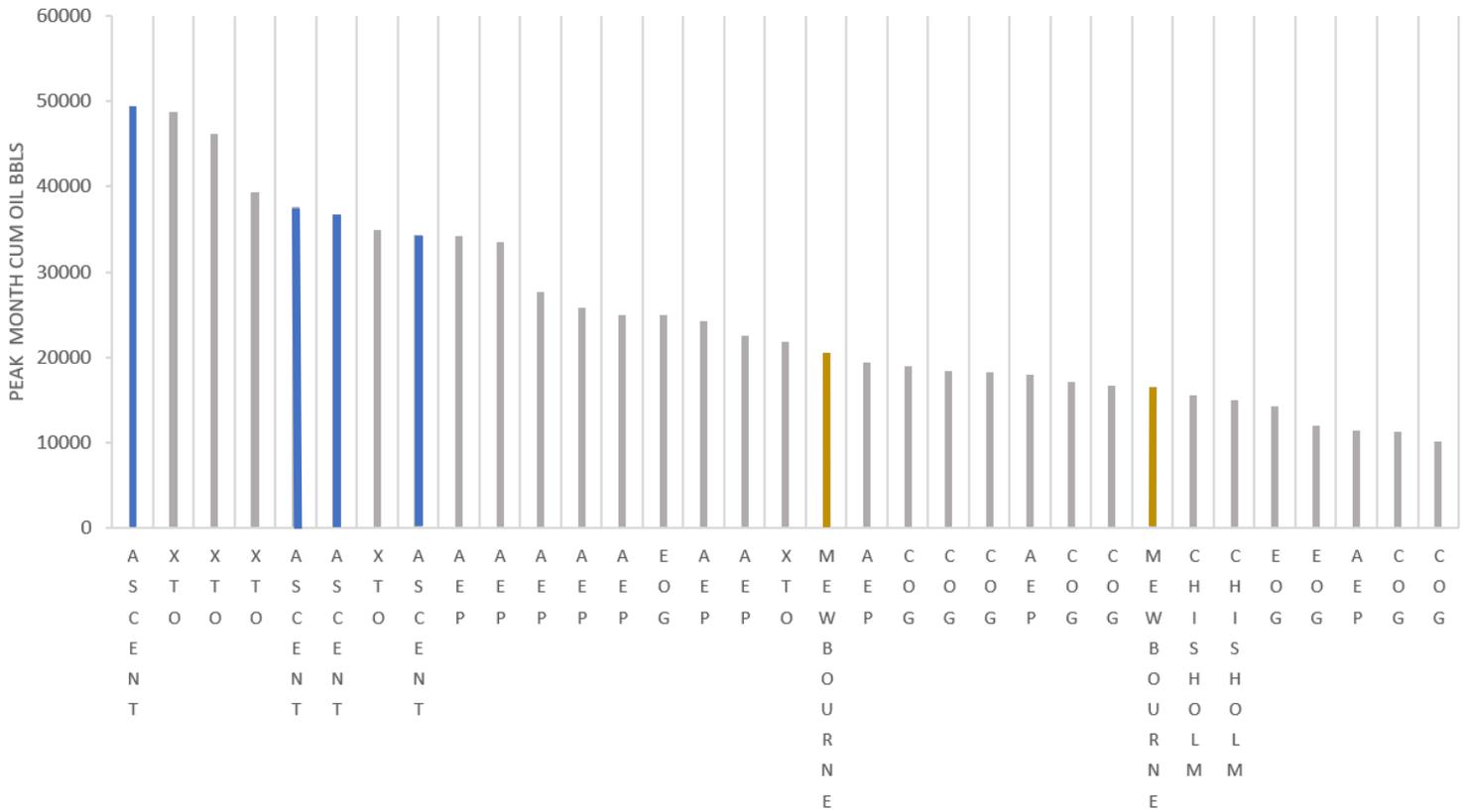
### Anvil Fed Com 703H



Ascent Energy, LLC	
Exhibit:	
Anvil Fed Com 703H	
	<b>E2W2</b>

# 2<sup>nd</sup> Bone Spring Well Comparison

## 2ND BONE SPRING SAND PEAK MONTH CUM BBLS NORM 7000' LATERAL



**Ascent's well performance consistently on par or better than neighboring operators.**

**EXHIBIT  
D-3**

Ascent Energy, LLC 	
Exhibit:	
2 <sup>nd</sup> Bone Spring Initial Production Normalized to 7000' Lateral Peak Month Oil	
	<b>Order No. R-21258</b>

# 2nd Bone Spring Well Comparison

UWI (API Num)	Operator	Well Label	HOR_ZONE	COMP_DATE	FIRST_PROD_DATE	LAST_PROD_DATE	BESTMONTH_OIL	BESTMONTH_GAS	1ST_6_MONTHS_CUM_OIL	1ST_6_MONTHS_GAS	1ST_12_MONTHS_CUM_OIL	1ST_12_MONTHS_GAS	CUMOIL	CUMGAS
30025439090000	DVANCE ENERGY PARTNERS HAT MESA LI	MERCHANT STATE UNIT 503H	2ND BSPG S	3/14/2018	2/1/2018	9/30/2020	33,900	30,718	145,570	122,516	219,649	160,586	415,075	356,761
30025436270000	DVANCE ENERGY PARTNERS HAT MESA LI	DAGGER STATE COM 505H	2ND BSPG S	8/17/2018	10/1/2018	9/30/2020	35,744	39,484	159,039	157,280	210,222	224,152	293,723	325,783
30025435640000	DVANCE ENERGY PARTNERS HAT MESA LI	DAGGER STATE COM 506H	2ND BSPG S	10/3/2018	10/1/2018	9/30/2020	19,088	17,706	80,602	50,333	121,268	69,950	179,582	148,596
30025432920000	DVANCE ENERGY PARTNERS HAT MESA LI	DAGGER STATE COM 508H	2ND BSPG S	10/4/2018	10/1/2018	9/30/2020	27,693	30,232	121,364	106,167	172,281	165,211	238,803	252,693
30025450090000	MEWBOURNE OIL CO	BILBREY 34-27 B20B F 002H	2ND BSPG S	12/19/2018	12/1/2018	10/31/2020	23,662	26,459	56,178	53,226	136,366	130,253	240,811	287,076
30025450120000	DVANCE ENERGY PARTNERS HAT MESA LI	AO 6 502H	2ND BSPG S	12/31/2018	1/1/2019	9/30/2020	21,872	23,543	79,506	76,715	142,734	136,167	214,763	265,766
30025450260000	DVANCE ENERGY PARTNERS HAT MESA LI	AO 6 STATE COM 501H	2ND BSPG S	12/31/2018	1/1/2019	9/30/2020	19,051	20,165	76,847	66,715	142,734	136,167	214,763	265,766
30025448570000	CHISHOLM ENERGY OPERATING LLC	MINIS 1 FED COM 2BS 011H	2ND BSPG S	1/8/2019	1/1/2019	10/31/2020	15,707	19,206	68,866	75,703	111,958	130,659	155,550	167,339
30025448550000	XTO ENERGY INC	CHISTERA 32 STATE 007H	2ND BSPG S	1/22/2019	2/1/2019	10/31/2020	13,939	17,349	55,831	50,362	93,836	96,580	127,197	139,198
30025450870000	MEWBOURNE OIL CO	CAPER 20-29 B2CN FED 001H	2ND BSPG S	2/7/2019	2/1/2019	10/31/2020	29,491	32,554	120,342	125,693	227,041	244,427	329,888	377,651
30025452670000	DVANCE ENERGY PARTNERS HAT MESA LI	MERCHANT STATE UNIT 504H	2ND BSPG S	2/8/2019	2/1/2019	9/30/2020	30,931	31,200	127,066	117,923	229,313	214,800	308,586	297,600
30025452680000	DVANCE ENERGY PARTNERS HAT MESA LI	MERCHANT STATE UNIT 505H	2ND BSPG S	2/8/2019	2/1/2019	9/30/2020	33,986	30,943	91,541	88,990	164,472	155,239	228,349	221,236
30025441480000	ASCENT ENERGY INC	TOQUE STATE COM 501H	2ND BSPG S	10/5/2019	3/1/2020	9/30/2020	55,177	52,459	138,415	224,282			138,415	131,365
30025452330000	COG OPERATING LLC	HUCKLEBERRY STATE CO 503H	2ND BSPG S	11/19/2019	12/1/2019	10/31/2020	24,032	23,976	104,150	107,956			129,380	136,220
30025452310000	COG OPERATING LLC	HUCKLEBERRY STATE CO 502H	2ND BSPG S	11/22/2019	12/1/2019	10/31/2020	16,154	15,348	69,747	72,659			104,655	103,635
30025452320000	COG OPERATING LLC	HUCKLEBERRY STATE CO 504H	2ND BSPG S	11/22/2019	12/1/2019	10/31/2020	24,683	25,108	99,246	101,458			190,050	199,280
30025452340000	COG OPERATING LLC	HUCKLEBERRY STATE CO 504H	2ND BSPG S	11/22/2019	12/1/2019	10/31/2020	25,731	29,280	104,782	106,109			179,646	209,853
30025452070000	COG OPERATING LLC	HUCKLEBERRY STATE CO 505H	2ND BSPG S	12/3/2019	12/1/2019	10/31/2020	26,227	26,993	113,920	117,234			175,181	211,842
30025452080000	COG OPERATING LLC	HUCKLEBERRY STATE CO 506H	2ND BSPG S	12/5/2019	12/1/2019	10/31/2020	24,353	32,138	90,876	111,364			143,776	176,407
30025452090000	COG OPERATING LLC	HUCKLEBERRY STATE CO 507H	2ND BSPG S	12/6/2019	12/1/2019	10/31/2020	14,566	16,698	73,290	77,481			91,276	96,761
30025463490000	CHISHOLM ENERGY OPERATING LLC	LAGUNA 23 2BS FEDERA 004H	2ND BSPG S	12/7/2019	12/1/2019	10/31/2020	10,679	7,268	43,770	27,128			69,752	58,019
30025463490000	CHISHOLM ENERGY OPERATING LLC	LAGUNA 23 2BS FEDERA 003H	2ND BSPG S	12/7/2019	12/1/2019	10/31/2020	10,057	8,014	49,029	35,907			76,047	52,625
30025447850100	ASCENT ENERGY INC	TOQUE STATE COM 502H	2ND BSPG S	2/9/2020	3/1/2020	1/31/2021	38,542	38,140	121,577	112,864			152,749	149,212
30025462230000	XTO ENERGY INC	SEVERUS 31-5 FEDERAL 011H	2ND BSPG S	2/11/2020	2/1/2020	10/31/2020	50,193	38,026	128,228	104,417			168,019	136,034
30025441480100	ASCENT ENERGY INC	TOQUE STATE COM 501H	2ND BSPG S	2/13/2020	3/1/2020	1/31/2021	55,177	52,459	166,948	224,282			214,694	275,268
30025461900000	XTO ENERGY INC	SEVERUS 31-5 FEDERAL 009H	2ND BSPG S	2/17/2020	2/1/2020	10/31/2020	40,709	31,586	165,102	141,706			218,426	200,702
30025463750000	XTO ENERGY INC	SEVERUS 31-5 FED COM 010H	2ND BSPG S	2/17/2020	2/1/2020	10/31/2020	37,631	34,475	107,745	94,027			134,988	121,277
30025462240000	XTO ENERGY INC	SEVERUS 31-5 FEDERAL 012H	2ND BSPG S	2/18/2020	2/1/2020	10/31/2020	32,739	28,614	95,200	85,623			130,018	115,486
30025464920000	DVANCE ENERGY PARTNERS HAT MESA LI	WOOL HEAD 20 STATE C 512H	2ND BSPG S	6/18/2020	6/1/2020	9/30/2020	11,838	14,777					35,794	45,569
30025464910000	DVANCE ENERGY PARTNERS HAT MESA LI	WOOL HEAD 20 STATE C 511H	2ND BSPG S	7/14/2020	6/1/2020	9/30/2020	19,930	23,705					59,047	74,405
30025464980000	ASCENT ENERGY LLC	BIG MOOSE FEDERAL CO 505H	2ND BSPG S	9/2/2020	9/1/2020	1/31/2021	34,279	26,350					99,642	86,170
30025465470000	ASCENT ENERGY LLC	BIG MOOSE FEDERAL CO 506H	2ND BSPG S	9/3/2020	9/1/2020	1/31/2021	33,239	26,185					94,646	86,155
30025440720100	EOG RESOURCES INC	DATE 14 STATE COM 602H	2ND BSPG S	10/9/2020	10/1/2020	10/31/2020	34,720	33,401					34,720	33,401
30025463690000	EOG RESOURCES INC	DATE 14 STATE COM 507H	2ND BSPG S	10/9/2020	10/1/2020	10/31/2020	17,077	16,843					17,077	16,843
30025463700000	EOG RESOURCES INC	DATE 14 STATE COM 508H	2ND BSPG S	10/9/2020	10/1/2020	10/31/2020	20,403	19,693					20,403	19,693



**Ascent Energy, LLC**

Exhibit:

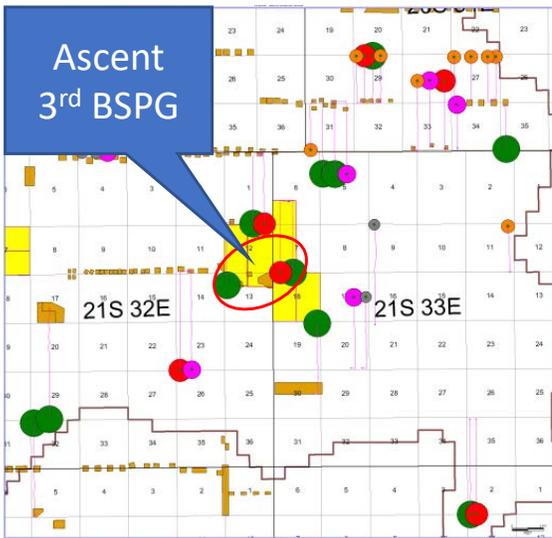
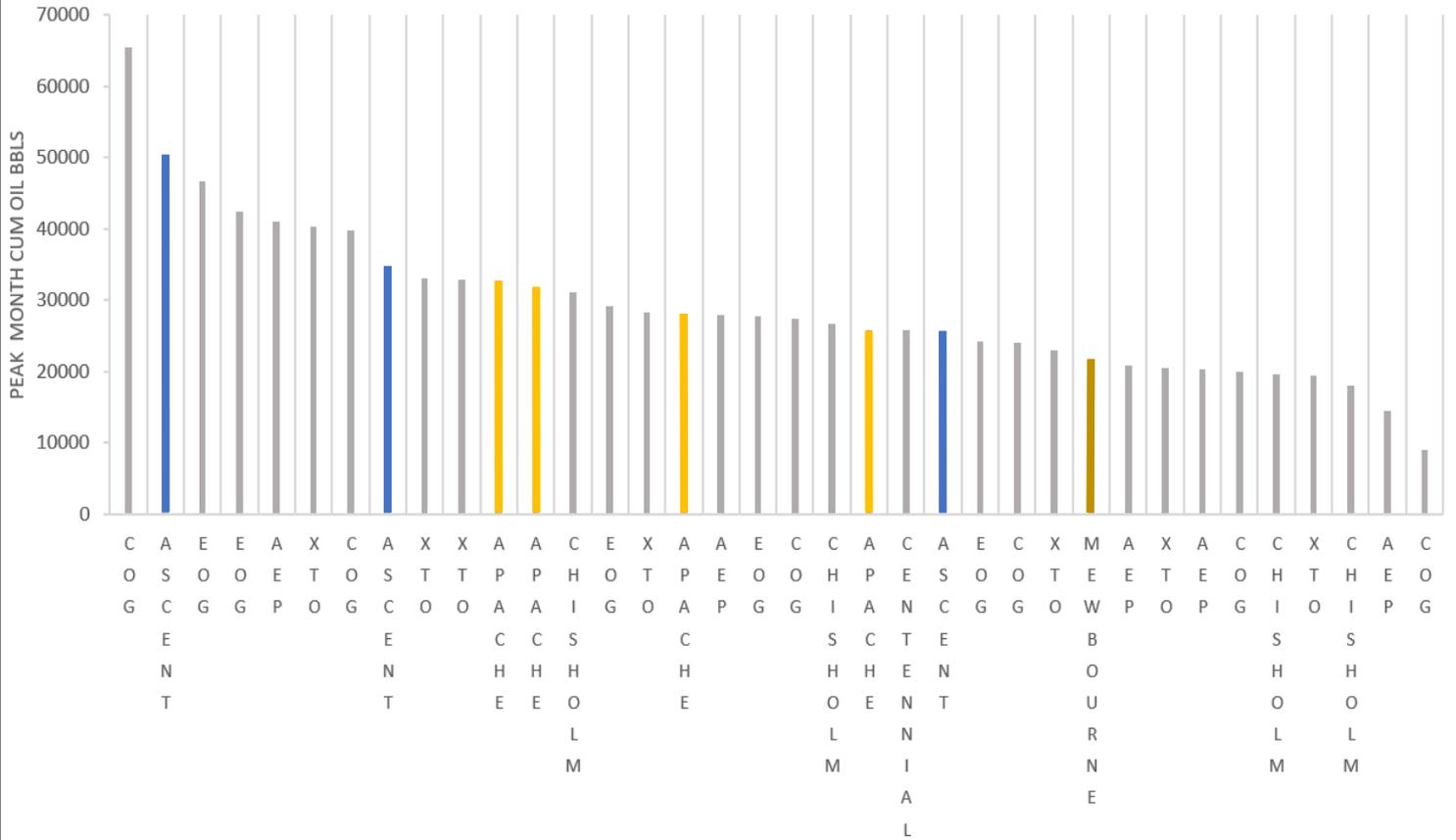
2<sup>nd</sup> Bone Spring Initial Production Well List

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**Order No. R-21258**

# 3<sup>rd</sup> Bone Spring Well Comparison

## 3RD BONE SPRING SAND PEAK MONTH CUM BBLs NORM 7000' LATERAL



Analysis Area

**Ascent's well performance consistently on par or better than neighboring operators.**

Ascent Energy, LLC 	
Exhibit:	
3 <sup>rd</sup> Bone Spring Sand Production Normalized to 7000' Lateral Peak Month Oil	
	<b>Order No. R-21258</b>

# 3rd Bone Spring Well Comparison

UWI (API/Num)	Operator	Well Label	HOR_ZONE	COMP_DATE	FIRST_PROD_DATE	LAST_PROD_DATE	BESTMONTH_OIL	BESTMONTH_GAS	1ST_6_MONTHS_CUMI_GAS	1ST_12_MONTHS_CUMI_GAS	1ST_12_MONTHS_CUMI_OIL	CUMINGAS	CUMOIL	
30025431780000	EOG RESOURCES INC	CRANBERRY BSU STATE 001H	3RD BSPG S	1/28/2018	1/1/2018	10/31/2020	18,889	74,683	103,979	118,115	170,887	207,437	336,989	
30025440920000	COG OPERATING LLC	MAS FEDERAL COM 001H	3RD BSPG S	4/4/2018	4/1/2018	10/31/2020	40,824	183,017	340,509	247,275	588,432	314,504	929,493	
30025440450000	APACHE CORP	BLACK AND TAN 27 FED 308H	3RD BSPG S	5/5/2018	5/1/2018	10/31/2020	20,231	97,165	113,454	166,991	199,822	229,528	296,213	
30025440440000	APACHE CORP	BLACK & TAN 27 FEDER 307H	3RD BSPG S	5/16/2018	5/1/2018	10/31/2020	19,744	81,925	101,272	145,815	180,470	203,492	245,242	
30025439210100	APACHE CORP	BLACK & TAN 27 FEDER 303H	3RD BSPG S	5/18/2018	5/1/2018	8/31/2020	16,118	61,082	69,941	102,107	112,622	133,028	138,959	
30025434170000	XTO ENERGY INC	SEVERUS 31 FEDERAL C 003H	3RD BSPG S	5/21/2018	6/1/2018	10/31/2020	41,215	159,903	173,923	251,524	247,345	503,363	609,931	
30025434160000	XTO ENERGY INC	SEVERUS 31 FEDERAL C 002H	3RD BSPG S	5/21/2018	6/1/2018	10/31/2020	34,202	157,619	162,060	242,493	232,831	480,523	603,597	
30025434150000	XTO ENERGY INC	SEVERUS 31 FEDERAL C 001H	3RD BSPG S	5/21/2018	6/1/2018	10/31/2020	23,727	97,241	100,132	158,983	144,464	377,059	468,900	
30025434180000	XTO ENERGY INC	SEVERUS 31 FEDERAL C 004H	3RD BSPG S	5/21/2018	7/1/2018	10/31/2020	18,487	65,860	70,484	126,156	135,099	215,424	284,503	
30025440170000	APACHE CORP	BLACK & TAN 27 FEDER 301H	3RD BSPG S	6/1/2018	6/1/2018	5/31/2020	18,163	75,759	98,250	115,834	147,374	121,679	172,526	
30025444070000	DVANCE ENERGY PARTNERS HAT MESA LI	DAGGER STATE COM 604H	3RD BSPG S	6/7/2018	6/1/2018	9/30/2020	40,991	148,546	208,115	262,746	441,138	349,327	673,551	
30025446920000	CENTENNIAL RESOURCES PROD LLC	CHEDDAR 38S FEDERAL 001H	3RD BSPG S	8/5/2018	8/1/2018	10/31/2020	35,601	159,767	316,747	261,918	519,098	428,834	854,931	
30025450840000	DVANCE ENERGY PARTNERS HAT MESA LI	MERCHANT STATE UNIT 601H	3RD BSPG S	11/9/2018	11/1/2018	9/30/2020	39,876	123,767	131,948	260,068	283,960	373,683	451,095	
30025448560000	CHISHOLM ENERGY OPERATING LLC	MINIS 1 FEDERAL COM 007H	3RD BSPG S	1/8/2019	1/1/2019	10/31/2020	34,488	140,683	132,889	191,605	182,609	291,013	331,050	
30025438960000	XTO ENERGY INC	CHISTERA 32 STATE 003H	3RD BSPG S	1/22/2019	2/1/2019	10/31/2020	21,434	79,098	82,424	123,432	134,864	162,741	179,042	
30025438950000	XTO ENERGY INC	CHISTERA 32 STATE 002H	3RD BSPG S	1/22/2019	2/1/2019	10/31/2020	12,749	28,043	87,940	103,858	140,821	145,400	198,815	
30025436940000	XTO ENERGY INC	CHISTERA 32 STATE 001H	3RD BSPG S	1/22/2019	2/1/2019	10/31/2020	15,231	49,914	58,276	85,183	113,599	114,564	167,076	
30025451560000	MEWBOURNE OIL CO	CAPER 20-29 B3CN FED 002H	3RD BSPG S	2/14/2019	2/1/2019	10/31/2020	31,796	127,656	215,071	208,332	358,657	293,953	504,354	
30025454480000	DVANCE ENERGY PARTNERS HAT MESA LI	MERCHANT STATE UNIT 602H	3RD BSPG S	3/16/2019	4/1/2019	9/30/2020	28,492	122,397	156,893	221,494	291,030	256,489	339,250	
30025451490000	COG OPERATING LLC	LITTLE BEAR FEDERAL 002H	3RD BSPG S	6/19/2019	6/1/2019	10/31/2020	27,721	108,330	166,011	139,442	223,504	166,762	267,524	
30025450990000	COG OPERATING LLC	LITTLE BEAR FEDERAL 003H	3RD BSPG S	6/21/2019	6/1/2019	10/31/2020	23,349	86,571	101,141	162,188	162,460	205,751	208,444	
30025450980100	COG OPERATING LLC	LITTLE BEAR FEDERAL 001H	3RD BSPG S	6/23/2019	6/1/2019	10/31/2020	25,165	82,500	108,832	120,477	158,627	143,517	192,163	
30025451000000	COG OPERATING LLC	LITTLE BEAR FEDERAL 004H	3RD BSPG S	6/23/2019	6/1/2019	10/31/2020	20,095	69,911	93,812	92,846	132,921	108,080	163,170	
30025444750000	EOG RESOURCES INC	DELLA 29 FEDERAL 604H	3RD BSPG S	7/26/2019	7/1/2019	10/31/2020	31,571	81,088	80,408	119,415	131,565	139,224	170,349	
30025444740000	EOG RESOURCES INC	DELLA 29 FEDERAL COM 603H	3RD BSPG S	7/26/2019	7/1/2019	10/31/2020	16,321	65,806	70,084	106,386	115,929	137,451	167,247	
30025444760000	EOG RESOURCES INC	DELLA 29 FEDERAL 605H	3RD BSPG S	8/6/2019	8/1/2019	10/31/2020	29,023	36,344	100,989	111,110	137,171	163,383	132,356	192,224
30025444770000	EOG RESOURCES INC	DELLA 29 FEDERAL 606H	3RD BSPG S	8/9/2019	8/1/2019	10/31/2020	19,105	24,752	75,408	78,227	118,038	123,790	135,332	143,650
30025448110000	CHISHOLM ENERGY OPERATING LLC	MINIS 1 FEDERAL COM 006H	3RD BSPG S	10/21/2019	10/1/2019	10/31/2020	28,730	105,702	97,963	186,742	173,409	197,668	182,956	
30025455990000	COG OPERATING LLC	BOONE 16 STATE COM 004H	3RD BSPG S	11/10/2019	11/1/2019	10/31/2020	13,237	34,959	52,812	71,911	111,870	71,911	111,870	
30025447880000	ASCENT ENERGY INC	TOQUE STATE COM 602H	3RD BSPG S	11/27/2019	3/1/2020	1/31/2021	28,510	41,241	118,088	93,820	118,088	66,501	148,438	
30025463510000	CHISHOLM ENERGY OPERATING LLC	AZTEC 14-23 3BS FEDE 003H	3RD BSPG S	1/1/2020	1/1/2020	10/31/2020	28,793	41,243	113,382	181,451	113,382	157,588	256,379	
30025463500000	CHISHOLM ENERGY OPERATING LLC	AZTEC 14-23 3BS FEDE 002H	3RD BSPG S	1/1/2020	1/1/2020	10/31/2020	25,260	43,561	109,040	184,073	109,040	117,104	254,745	
30025447870000	ASCENT ENERGY INC	TOQUE STATE COM 601H	3RD BSPG S	2/11/2020	2/1/2020	1/31/2021	38,212	47,461	142,160	165,991	142,160	196,479	243,269	
30025462670000	DVANCE ENERGY PARTNERS HAT MESA LI	WOOL HEAD 20 STATE C 606H	3RD BSPG S	7/1/2020	7/1/2020	9/30/2020	22,440	38,672	24,288	62,743	107,557	62,743	107,557	
30025463280000	DVANCE ENERGY PARTNERS HAT MESA LI	WOOL HEAD 20 STATE C 608H	3RD BSPG S	7/26/2020	7/1/2020	9/30/2020	14,897	24,288	46,055	58,321	42,634	64,616	64,616	
30025465480000	ASCENT ENERGY LLC	BIG WOOSE FED COM 604H	3RD BSPG S	10/29/2020	11/1/2020	1/31/2021	46,055	58,321				103,906	138,048	

Ascent Energy, LLC

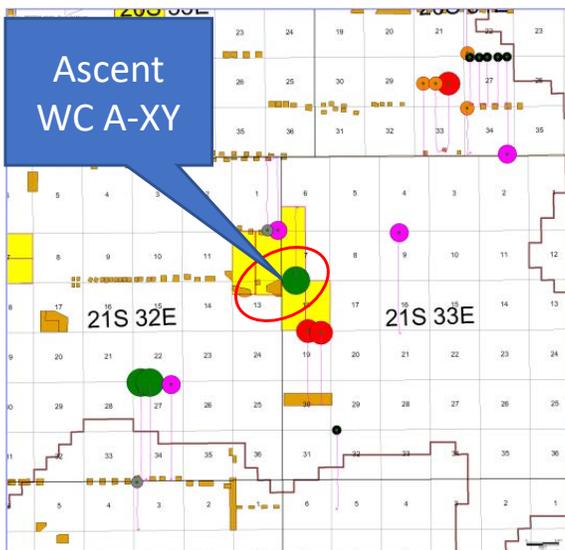
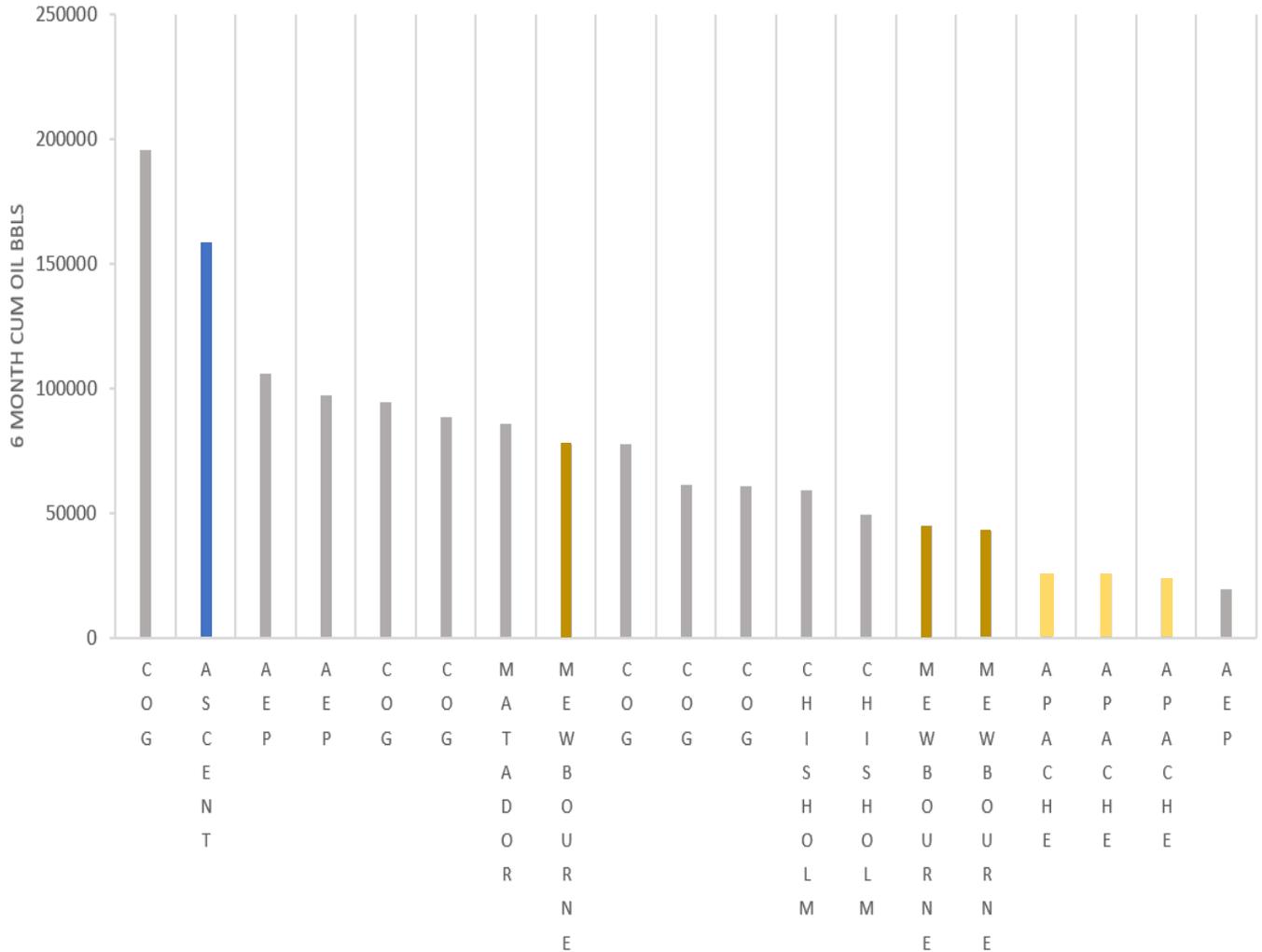
Exhibit:

3rd Bone Spring Initial Production Well List

Order No. R-21258

# Wolfcamp Well Comparison

## WOLFCAMP A/ XY 6 MONTH CUM BBLs NORM 7000' LATERAL



Analysis Area

**Ascent's well performance consistently on par or better than neighboring operators.**

Ascent Energy, LLC 	
Exhibit:	
Wolfcamp Production Normalized to 7000' Lateral 6 Month CUM Oil	
	<b>Order No. R-21258</b>

# Wolfcamp Well Comparison

UWI (API Num)	Operator	Well Label	HOR_ZONE_	COMP_DATE	FIRST_PROD_DATE	LAST_PROD_DATE	BESTOIL	BESTMONTH_GAS	1ST_6_MONTHS_CUMOIL	1ST_6_MONTHS_CUMGAS	1ST_12_MONTHS_CUMOIL	1ST_12_MONTHS_CUMGAS
30025416080000	CIMAREX ENERGY CO	PERRY 22 FEDERAL COM 004H	WCA	3/21/2018	2/1/2018	10/31/2020	16,332	18,344	70,628	75,582	112,969	147,569
30025442140100	COG OPERATING LLC	MAS FEDERAL COM 002H	WCXY	4/4/2018	4/1/2018	10/31/2020	25,028	40,115	117,904	197,244	166,760	338,064
30025435650000	ADVANCE ENERGY PARTNERS HAT MESA LLC	DAGGER STATE COM 701H	WCXY	6/7/2018	6/1/2018	9/30/2020	26,885	58,461	96,246	139,586	195,619	368,902
30025435530000	COG OPERATING LLC	BOONE 16 STATE COM 003H	WCA	8/8/2018	8/1/2018	10/31/2020	24,488	36,857	109,067	158,170	164,350	261,610
30025450080000	MEWBOURNE OIL CO	BILBREY 34-27 WZPA F 001H	WCA	12/19/2018	12/1/2018	10/31/2020	25,359	71,493	108,563	305,300	197,973	560,241
30025445540000	MATADOR PRODUCTION CO	CORTELL NINA FEDERAL 201H	WCA	12/22/2018	4/1/2019	10/31/2020	11,539	25,861	58,295	126,191	94,243	211,685
30025451050000	COG OPERATING LLC	LITTLE BEAR FEDERAL 009H	WCA	6/20/2019	6/1/2019	10/31/2020	19,470	24,077	61,663	75,697	102,089	110,331
30025451020000	COG OPERATING LLC	LITTLE BEAR FEDERAL 006H	WCA	6/21/2019	6/1/2019	10/31/2020	18,572	27,353	59,571	86,405	74,541	110,678
30025451030000	COG OPERATING LLC	LITTLE BEAR FEDERAL 007H	WCA	6/23/2019	6/1/2019	10/31/2020	28,904	34,339	85,998	108,606	108,024	141,725
30025451040000	COG OPERATING LLC	LITTLE BEAR FEDERAL 008H	WCA	6/23/2019	6/1/2019	10/31/2020	19,042	22,662	59,288	76,454	74,344	105,142
30025459350000	ADVANCE ENERGY PARTNERS HAT MESA LLC	DAGGER STATE COM 802H	WCA	7/4/2019	8/1/2019	9/30/2020	29,247	63,425	110,921	266,052	162,024	374,841
30025448510000	CHISHOLM ENERGY OPERATING LLC	MINIS 1 FEDERAL COM 010H	WCXY	10/21/2019	10/1/2019	10/31/2020	13,616	18,888	49,920	68,867	74,130	109,756
30025448530000	CHISHOLM ENERGY OPERATING LLC	MINIS 1 FEDERAL COM 016H	WCXY	10/21/2019	10/1/2019	10/31/2020	24,858	24,771	61,806	57,212	116,098	117,241
30025462610000	MEWBOURNE OIL CO	BILBREY 34-27 WZPA F 001H	WCA	12/18/2019	12/1/2019	10/31/2020	38,056	69,832	60,720	155,808		220,573
30025462620000	MEWBOURNE OIL CO	BILBREY 34-27 WZPA F 001H	WCA	12/18/2019	12/1/2019	10/31/2020	38,355	68,078	64,130	181,285		225,275
30025462890000	ADVANCE ENERGY PARTNERS HAT MESA LLC	DAGGER LAKE 5 STATE 801H	WCA	12/22/2019	12/1/2019	9/30/2020	9,566	24,606	21,111	57,655		45,614
30025460720000	APACHE CORP	BLACK & TAN 27 FEDER 401H	WCA	1/22/2020	2/1/2020	10/31/2020	4,429	5,927	15,813	25,249		27,730
30025447890000	ASCENT ENERGY INC	TOQUE STATE COM 701H	WCXY	2/5/2020	2/1/2020	1/31/2021	60,162	80,127	142,402	168,498		142,402
30025460730000	APACHE CORP	BLACK & TAN 27 FEDER 402H	WCA	2/26/2020	3/1/2020	10/31/2020	3,838	4,205	16,668	14,074		23,656
30025460750000	APACHE CORP	BLACK & TAN 27 FEDER 406H	WCXY	2/26/2020	2/1/2020	10/31/2020	4,624	5,565	17,075	22,582		29,335
30025461230000	APACHE CORP	BLACK & TAN 27 FEDER 403H	WCA	2/26/2020	6/1/2020	10/31/2020	2,183	3,311				10,229
30025461240000	APACHE CORP	BLACK & TAN 27 FEDER 405H	WCA	2/26/2020	6/1/2020	10/31/2020	3,276	4,190				14,830

**Ascent Energy, LLC**

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Exhibit:

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Wolfcamp Initial Production Well List

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**Order No. R-21258**