

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION OF ASCENT ENERGY, LLC
FOR COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.**

Case No. 16483

**APPLICATION OF ASCENT ENERGY, LLC
FOR COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.**

Case No. 16485

VERIFIED STATEMENT OF BEN METZ

Ben Metz, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Ascent Energy, LLC ("Ascent"), and I am familiar with the geological matters involved in this case. I have been qualified by the Division as an expert petroleum geologist.
3. The geological plats in Attachment A discussed below pertain to the Wolfcamp wells (Case 16485):
 - (a) A structure map on top of the Wolfcamp A zone. It shows that structure dips gently to the south. The subject Wolfcamp wells will be drilled from downdip to updip. The plat also shows a line of cross-section.
 - (b) A cross section. The well logs on the cross-section give a representative sample of the Wolfcamp formation in this area. The target zones (the XY and A zones) are continuous across the well unit.
 - (c) A list of existing Wolfcamp XY and A wells in the area. The more recent wells are all north/south wells, and appear to be economic. That north/south orientation is preferred in this area.
 - (d) The C-102s for the Wolfcamp wells. The wells are in the 96438 -Wolfcamp Pool.
4. The geological plats in Attachments B and C pertain to the Second and Third Bone Spring wells (Case 16483). These zones are prospective in this area. They show:
 - (a) Structure maps on top of each Bone Spring zone. They show that structure dips gently to the east-southeast. It also shows a line of cross-section.

EXHIBIT

3

(b) Cross-sections of each Bone Spring zone. The well logs on the cross-sections give a representative sample of the Second and Third Bone Spring zones in this area. The target zones are continuous across the well unit.

(c) A list of producing Bone Spring wells in the area. The wells are virtually all north/south wells, and the more recent wells appear to be economic. That north/south orientation is preferred in this area.

(d) The C-102s for the Bone wells. The wells are in the 30213-Bone Spring Pool.

5. I conclude from the maps that:

(a) The Wolfcamp and Bone Spring horizontal spacing units are justified from a geologic standpoint, and horizontal drilling is the best method to produce Bone Spring reserves.

(b) Each quarter-quarter section in the Wolfcamp and Bone Spring units will contribute more or less equally to production.

(c) There is no faulting or other geologic impediment on the area which will affect the drilling of the subject well.

6. The granting of these applications is in the interests of conservation and the prevention of waste.

VERIFICATION

STATE OF COLORADO

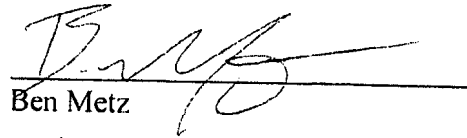
)

) ss.

COTY AND COUNTY OF DENVER

)

Ben Metz, being duly sworn upon his oath, deposes and states that: He is a geologist for Ascent Energy, LLC; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.


Ben Metz

SUBSCRIBED AND SWORN TO before me this 31 day of October, 2018 by Ben Metz.

My Commission Expires: 7/23/19


Notary Public

LAURIE C. OTERO
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20074025628
MY COMMISSION EXPIRES 07/23/2019

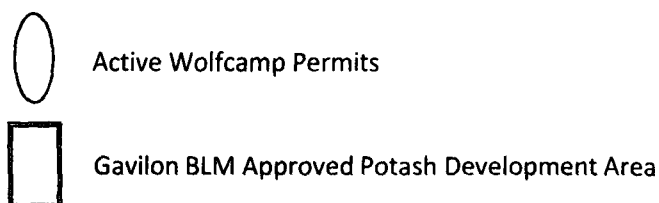
Wolfcamp

Case No. 16485

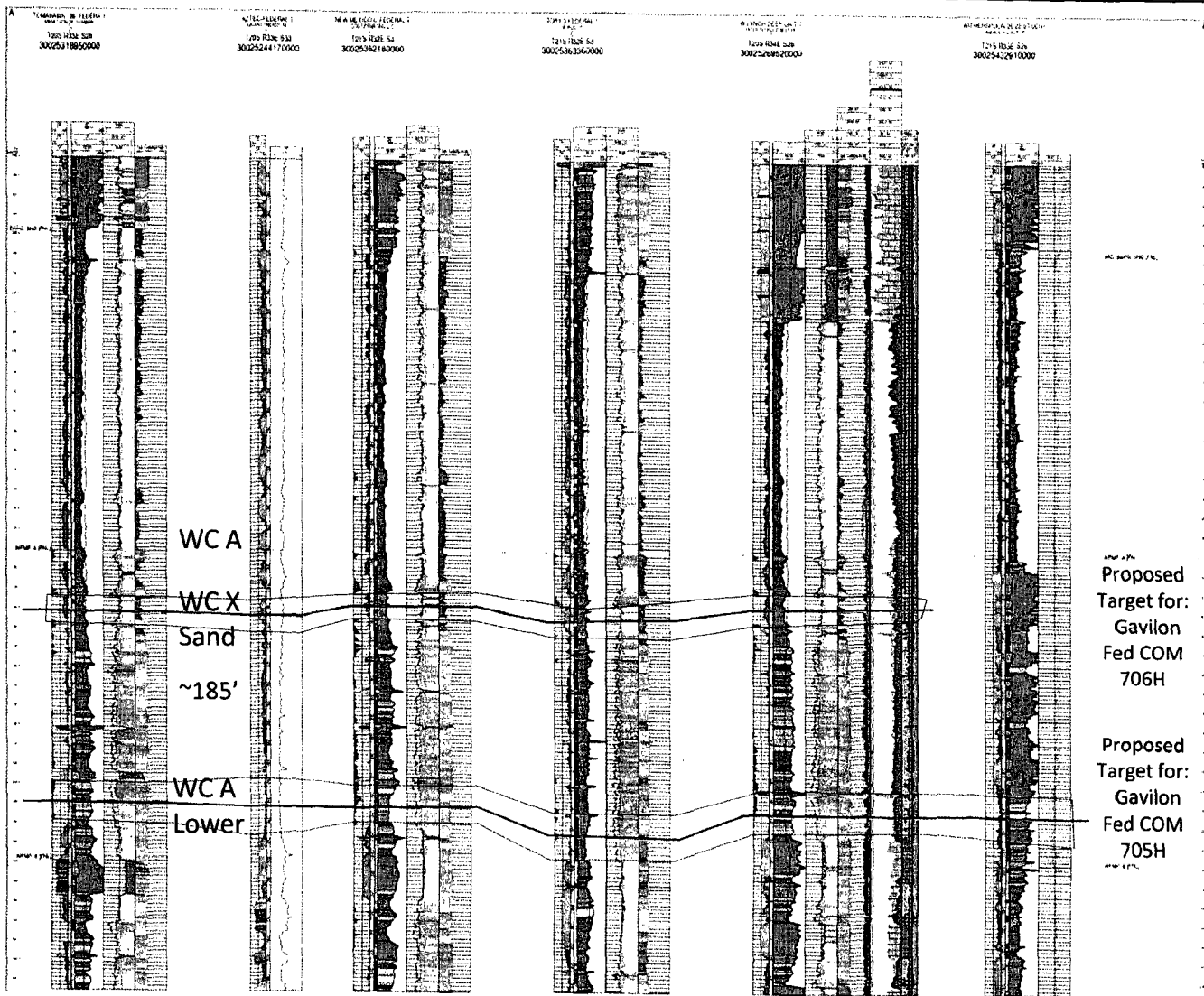
- E2 W2
- Gavilon Fed Com 705H
- Gavilon Fed Com 706H

ATTACHMENT

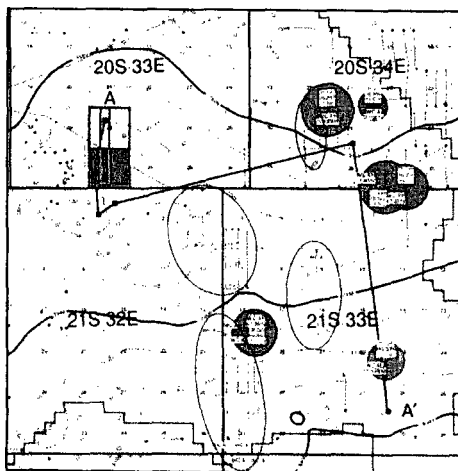
A



Ascent Energy, LLC		
Case No.	Exhibit	
Wolfcamp A Structure Producing Wolfcamp XY Sand and Wolfcamp A Wells & Wolfcamp Permits		
CI = 100'	Oct 29, 2018	



*NUTECH Petrophysical log from
NUTECH's Delaware Basin Regional Study



Ascent Energy, LLC	
Case No.	Exhibit
Cross Section across Wolfcamp A	
Oct 29, 2018	

Offset Wolfcamp A & XY Production Table																					
UWI (API Num)	Operator	Well Label	Township	Range	Section	SPUD DATE	COMP DATE	IP OIL	IP GAS	IP WTR	PEAK MONTH OIL (BO)	PEAK MONTH GAS (MCF)	PEAK MONTH WATER (BW)	1ST 6 MONTHS CUM OIL BO	1ST 6 MONTHS CUM GAS MCF	1ST 6 MONTHS CUM WATER BW	CUM OIL BO	CUM GAS MCF	CUM WTR BW	LATERAL AZIMUTH	HOR ZONE
30025416080000	CIMAREX ENERGY COMPANY	PERRY 22 FEDERAL COM 004H	20S	34E	22	12/15/2017	3/21/2018	572	644	1,476	16,332	16,808	44,958	5+ Months: 70,628	5+ Months: 75,582	5+ Months: 184,571	70,628	75,582	184,571	N/S	WC A
30025430530000	EOG RESOURCES INCORPORATED	DELLA 29 FEDERAL COM 701H	20S	34E	29	6/19/2016	12/6/2016	1,313	1,509	3,432	31,222	36,547	77,489	96,976	112,090	236,462	159,193	174,124	399,095	N/S	WC XY
30025432910100	CIMAREX ENERGY COMPANY	WITHERSPOON 26 23 ST 001H	21S	33E	26	7/26/2016	11/9/2016	104	448	2,950	20,525	42,226	122,301	89,116	193,869	485,199	190,619	438,622	943,561	N/S	WC A
30025434820000	COG OPERATING LIMITED LIABILITY CORP	MAS FEDERAL 4H	20S	34E	34	12/1/2016	1/30/2017	525	464	2,852	31,440	45,522	59,530	121,190	176,548	193,258	231,973	382,920	357,205	N/S	WC XY
30025435650000	ADVANCE ENERGY PRTR	DAGGER STATE COM 701H	23S	33E	30	2/23/2018	6/7/2018	NR	NR	NR	28,226 (23 days)	46,392 (23 days)	101,124 (23 days)	Approx 1 Month: 34,065	Approx 1 Month: 47,079	Approx 1 Month: 118,163	34,065	47,079	118,163	N/S	WC XY
30025442140100	COG OPERATING LIMITED LIABILITY CORP	MAS FEDERAL COM 002H	20S	34E	34	1/17/2018	4/5/2018	716	1,417	170	25,028	36,370	34,216	4 Months: 83,628	4 Months: 123,769	4 Months: 106,168	83,628	123,769	106,168	N/S	WC XY
									</												

Ascent Energy, LLC		
Case No.	Exhibit	
Wolfcamp XY Sand & Wolfcamp A Shale Production Data Table		
Oct 29, 2018		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-0161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name GAVILON FED COM			⁶ Well Number 705H
⁷ OGRID No. 325830		⁸ Operator Name ASCENT ENERGY			⁹ Elevation 3,668'
¹⁰ Surface Location					
UL or lot no. N	Section 33	Township 20 S	Range 33 E	Lot Idn	Feet from the 125
				North/South line SOUTH	Feet from the 1,913
				East/West line WEST	County LEA
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. C	Section 28	Township 20 S	Range 33 E	Lot Idn	Feet from the 100
				North/South line NORTH	Feet from the 1,650
				East/West line WEST	County LEA
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code	
				¹⁵ Order No.	

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

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 554,460.0 X= 704,418.3 LAT= 32.522571°N LONG= 103.670126°W FIRST TAKE POINT NAD 27 NME Y= 554,433.5 X= 704,155.5 LAT= 32.522503°N LONG= 103.670979°W LAST TAKE POINT/ BOTTOM HOLE LOCATION NAD 27 NME Y= 564,794.1 X= 704,086.6 LAT= 32.550982°N LONG= 103.670993°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 554,521.3 X= 745,599.0 LAT= 32.522692°N LONG= 103.670619°W FIRST TAKE POINT NAD 83 NME Y= 554,494.8 X= 745,336.2 LAT= 32.522624°N LONG= 103.671472°W LAST TAKE POINT/ BOTTOM HOLE LOCATION NAD 83 NME Y= 564,855.6 X= 745,267.0 LAT= 32.551103°N LONG= 103.671488°W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well on this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	CORNER COORDINATES TABLE NAD 27 NME A - Y= 564,898.6 N, X= 705,081.0 E B - Y= 564,889.6 N, X= 703,758.5 E C - Y= 562,259.2 N, X= 705,098.4 E D - Y= 562,252.4 N, X= 703,776.0 E E - Y= 559,618.9 N, X= 705,115.9 E F - Y= 559,611.7 N, X= 703,793.7 E G - Y= 556,979.6 N, X= 705,133.3 E H - Y= 556,972.4 N, X= 703,811.1 E I - Y= 554,339.1 N, X= 705,150.6 E J - Y= 554,331.7 N, X= 703,828.4 E		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 08-16-2018 Date of Survey _____ Signature and Seal of Professional Surveyor: _____ PRELIMINARY. THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT MARK DILLON HARP 23786 Certificate Number _____ AW 2018010124
	CORNER COORDINATES TABLE NAD 83 NME A - Y= 564,960.1 N, X= 746,261.4 E B - Y= 564,954.1 N, X= 744,938.9 E C - Y= 562,320.6 N, X= 746,278.9 E D - Y= 562,313.8 N, X= 744,956.5 E E - Y= 559,680.3 N, X= 746,296.5 E F - Y= 559,673.1 N, X= 744,974.2 E G - Y= 557,040.9 N, X= 746,313.9 E H - Y= 557,033.7 N, X= 744,991.7 E I - Y= 554,400.4 N, X= 746,331.3 E J - Y= 554,393.0 N, X= 745,009.1 E		
			Ascent Energy, LLC Case No. _____ Exhibit _____ GAVILON FED COM 705H C-102 Well Plat Oct 29, 2018

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

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

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name GAVILON FED COM	
⁷ OGRID No. 325830	⁸ Operator Name ASCENT ENERGY	⁶ Well Number 706H ⁹ Elevation 3,670'

¹⁰ Surface Location

U.I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	20 S	33 E		125	SOUTH	2,038	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

U.I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	20 S	33 E		100	NORTH	2,310	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 08-16-2018 Date of Survey _____ Signature and Seal of Professional Surveyor: _____ PRELIMINARY. THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VERIFIED OR RELIED UPON AS A FINAL SURVEY DOCUMENT MARK DILLON HARP 23786 Certificate Number _____ AW 2018010129

Ascent Energy, LLC



Case No. _____ Exhibit _____

GAVILON FED COM 706H
C-102 Well Plat

Oct 29, 2018

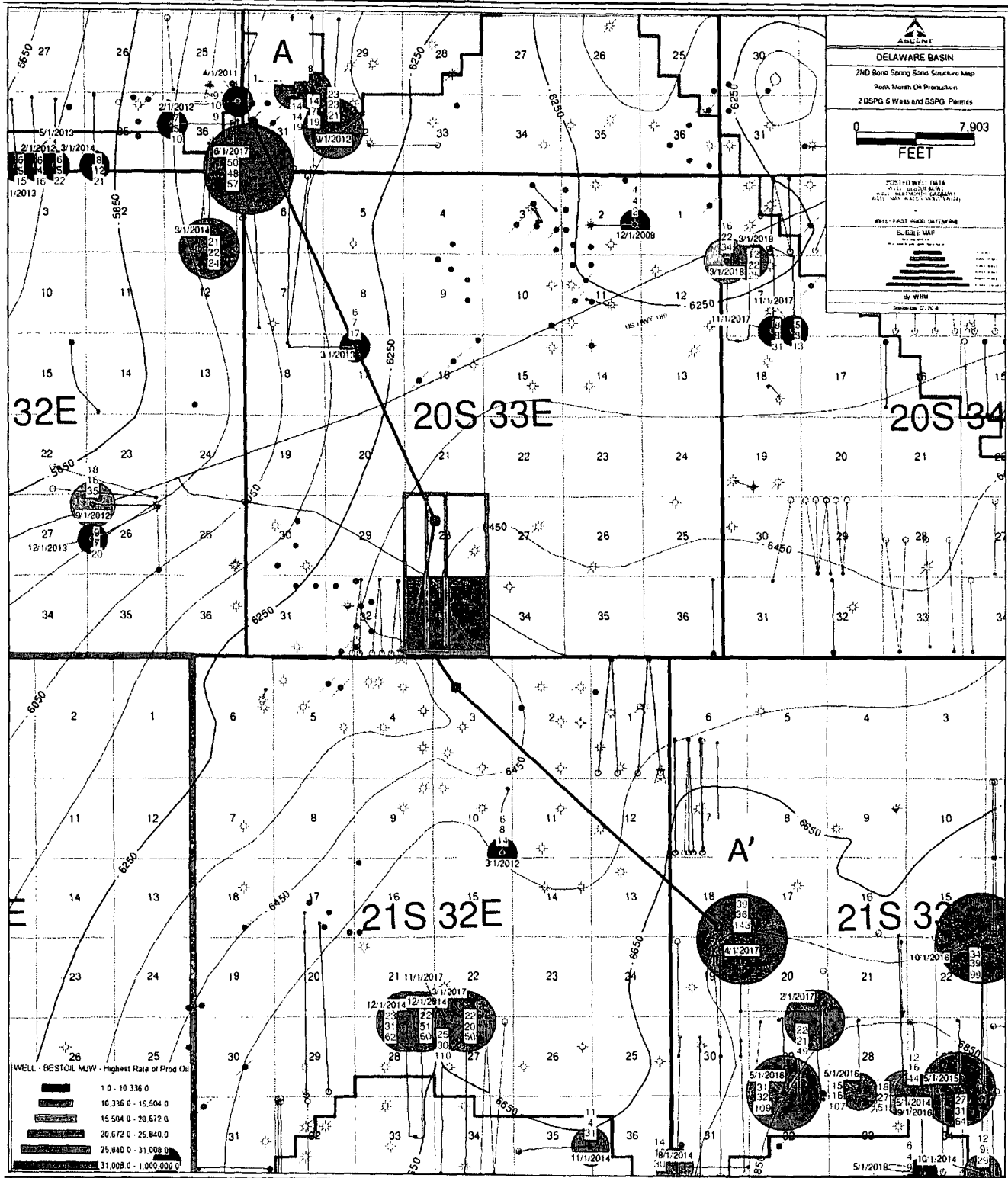
2nd Bone Spring Sand

Case No. 16483

- E2 W2
- Gavilon Fed Com 505H

ATTACHMENT

B



Proposed Pooling Unit

Gavilon BLM Approved Potash Development Area

Ascent Energy, LLC	
Case No.	Exhibit
2 nd Bone Spring Sand Structure & Producing 2 nd Bone Spring Sand Wells & Bone Spring Permits	
CI = 100'	Oct 29, 2018

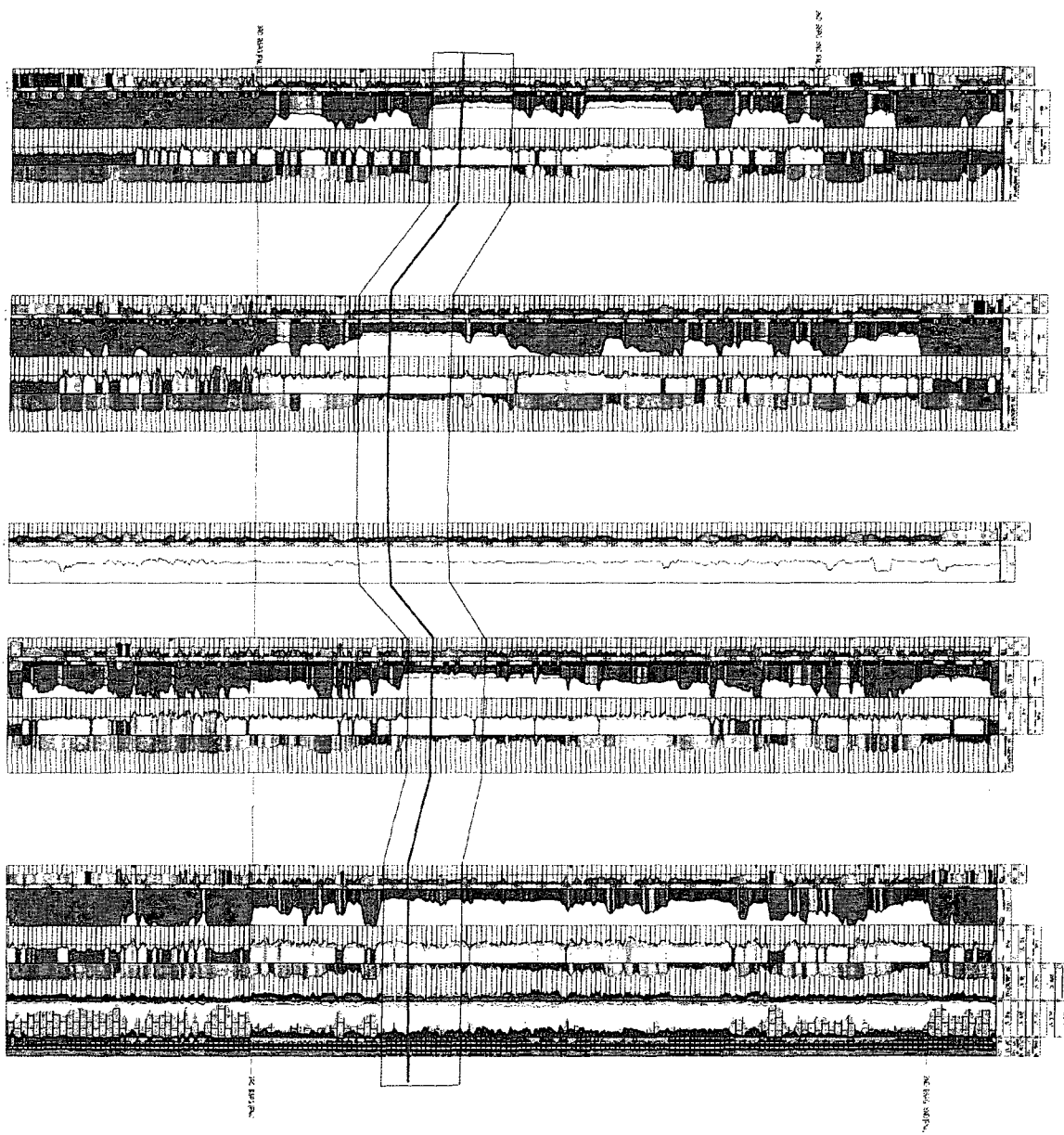
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3002544170000
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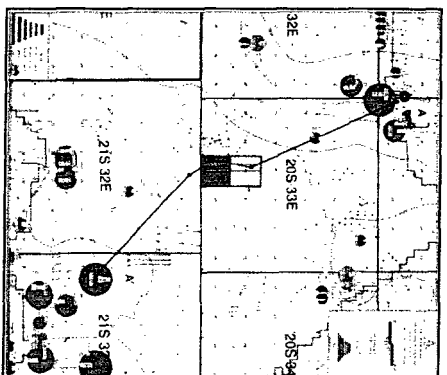
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1285 R2B S31
3002543330000

3002544680000
1285 R2B S31
3002544680000



Proposed Target for:
Gavilon Fed Com 505H

*NUTECH Petrophysical log from
NUTECH's Delaware Basin Regional Study



Ascent Energy, LLC	ASCENT
Case No.	Exhibit
Cross Section across 2 nd Bone Spring Sand	
Oct 29, 2018	

Offset 2nd Bone Spring Sand Production Table

UWI (APINum)	Operator	Well Label	Township	Range	Section	SPUD DATE	COMP DATE	1ST_6_MONTHS CUM OIL BO	1ST_6_MONTHS CUM GAS MCF	1ST_6_MONTHS CUM WATER BW	CUM OIL BO	CUM GAS MCF	CUM WTR BW	LATERAL AZIMUTH	HOR_ZONE
30025313180100	BTA OIL PRODUCERS LLC	GEM 8705 JV-P 6	20S	33E	2	8/26/2008	1/12/2009	17,440	14,881	6,389	73,470	134,144	62,974	E/W	2ND BSPG S
30025398870100	CIMAREX ENERGY CO OF COLORADO	STATE HH COM 3H	19S	32E	36	2/23/2011	5/10/2011	30,557	30,031	26,879	103,486	153,646	105,502	E/W	2ND BSPG S
30025401420000	MEWBOURNE OIL COMPANY	OCELOT 34 FEDERAL CO 1H	19S	32E	34	11/19/2011	2/22/2012	28,429	27,565	93,198	98,081	173,319	385,265	N/S	2ND BSPG S
30025274170100	CIMAREX ENERGY CO OF COLORADO	STATE 'HH' 1	19S	32E	36	11/6/2011	3/4/2012	23,796	20,809	23,671	82,931	99,136	73,646	E/W	2ND BSPG S
30025402550000	CIMAREX ENERGY CO OF COLORADO	LUSK SOUTHEAST '33' 2H	19S	32E	33	1/7/2012	3/7/2012	64,146	141,622	163,379	176,332	521,029	450,531	N/S	2ND BSPG S
30025403650000	CIMAREX ENERGY CO OF COLORADO	HAT MESA '10' FEDERA 2H	21S	32E	10	1/8/2012	4/22/2012	18,348	25,134	39,144	62,551	85,016	133,996	N/S	2ND BSPG S
30025404370000	CIMAREX ENERGY CO OF COLORADO	MADURO UNIT 9	19S	33E	29	7/2/2012	10/2/2012	93,649	95,561	91,482	260,095	471,421	313,063	N/S	2ND BSPG S
30025404470000	CIMAREX ENERGY CO OF COLORADO	SNODDY FEDERAL 20H	20S	32E	26	7/18/2012	10/19/2012	48,454	66,479	110,110	144,442	265,672	295,056	E/W	2ND BSPG S
30025406800000	FASKEN OIL AND RANCH LTD	LAGUNA 16 STATE 2H	20S	32E	16	7/28/2012	4/3/2013	32,956	38,080	140,632	119,736	227,030	522,369	N/S	2ND BSPG S
30025408280000	MARATHON OIL PERMIAN LLC	GREEN FROG CAFE FEDE 1H	20S	33E	18	12/1/2012	4/17/2013	20,780	26,298	73,199	65,287	100,513	193,738	E/W	2ND BSPG S
30025407970000	APACHE CORPORATION	LUSK '34' FEDERAL 001H	19S	32E	34	12/7/2012	4/22/2013	17,849	10,722	44,418	96,997	186,567	253,124	N/S	2ND BSPG S
30025406930100	APACHE CORPORATION	LUSK 34 FEDERAL 2H	19S	32E	34	9/25/2012	5/1/2013	20,271	10,922	48,900	117,568	156,159	291,619	N/S	2ND BSPG S
30025408370000	CIMAREX ENERGY CO OF COLORADO	SNODDY FEDERAL 23H	20S	32E	26	10/17/2013	1/11/2014	25,408	28,561	56,792	62,164	91,282	114,523	E/W	2ND BSPG S
30025410890000	OCCIDENTAL PERMIAN LIMITED	LUSK SOUTH '28' FEDE 1H	19S	32E	28	11/24/2013	1/28/2014	34,202	23,117	18,326	181,987	492,572	115,356	N/S	2ND BSPG S
30025411770000	ADVANCE ENERGY PARTNERS HAT MESA LLC	COOP 6 STATE 1H	22S	33E	6	9/3/2013	2/28/2014	59,872	64,820	119,877	159,871	266,481	330,332	E/W	2ND BSPG S
30025409900000	EOG Y RESOURCES INC	LUSK 'AHB' FEDERAL 10H	19S	32E	35	10/29/2013	3/10/2014	36,966	22,124	61,277	123,565	195,033	201,237	N/S	2ND BSPG S
30025408270000	MARATHON OIL PERMIAN LLC	GAY NINETIES FEDERAL 1H	19S	32E	36	12/21/2013	4/13/2014	74,503	99,860	104,736	172,252	267,498	270,514	N/S	2ND BSPG S
30025403520100	COG OPERATING LIMITED LIABILITY CORP	PYGMY '27' STATE COM 1H	21S	33E	27	3/9/2014	5/18/2014	54,896	62,627	210,180	179,611	235,687	715,115	N/S	2ND BSPG S
30025411780000	ADVANCE ENERGY PARTNERS HAT MESA LLC	DAGGER STATE UNIT 2H	21S	33E	31	1/7/2014	8/16/2014	47,357	57,382	126,229	106,970	175,210	285,828	E/W	2ND BSPG S
30025413640100	MARATHON OIL PERMIAN LLC	BATTLE 1H	21S	33E	34	8/1/2014	10/30/2014	48,466	32,345	95,900	144,906	107,624	243,662	N/S	2ND BSPG S
30025417800100	OXY USA WTP LP	ANDERSON '35' 3H	21S	32E	35	7/24/2014	11/23/2014	32,596	14,668	111,309	65,824	43,255	244,591	E/W	2ND BSPG S
30025418070000	DEVON ENERGY PRODUCTION COMPANY L P	BILBREY '33' FEDERAL 4H	21S	32E	33	6/23/2014	12/2/2014	99,512	94,084	248,424	289,269	557,319	915,083	N/S	2ND BSPG S
30025418060000	DEVON ENERGY PRODUCTION COMPANY L P	BILBREY '33' FEDERAL 3H	21S	32E	33	7/26/2014	12/16/2014	106,010	106,633	264,453	258,078	486,346	790,263	N/S	2ND BSPG S
30025420680000	COG OPERATING LIMITED LIABILITY CORP	PYGMY 27 STATE 3H	21S	33E	27	2/12/2015	5/24/2015	113,388	147,787	250,430	297,690	468,427	680,173	N/S	2ND BSPG S
30025429040000	COG OPERATING LIMITED LIABILITY CORP	WARBLER STATE COM 002Y	21S	33E	28	10/31/2015	5/16/2016	73,465	84,599	294,552	159,103	242,494	572,556	N/S	2ND BSPG S
30025415180000	EOG RESOURCES INCORPORATED	FRUIT LOOP 29 STATE 501H	21S	33E	29	9/30/2015	6/21/2016	145,332	144,393	290,178	300,660	324,240	482,788	N/S	2ND BSPG S
30025433100000	COG OPERATING LIMITED LIABILITY CORP	WARBLER STATE COM 4H	21S	33E	16	7/7/2016	9/28/2016	78,690	92,074	278,749	221,850	288,509	617,454	N/S	2ND BSPG S
30025431790100	COG OPERATING LIMITED LIABILITY CORP	RASPBERRY STATE COM 1H	21S	33E	27	6/26/2016	10/7/2016	161,865	166,446	397,244	426,981	502,175	822,867	N/S	2ND BSPG S
30025422300000	MARATHON OIL PERMIAN LLC	ABE STATE 003H	21S	33E	32	10/11/2016	2/3/2017	81,899	77,020	169,015	118,656	108,036	205,255	N/S	2ND BSPG S
30025432760000	MEWBOURNE OIL COMPANY	BILBREY 34-27 B2NC F 001H	21S	32E	34	9/9/2016	3/23/2017	110,054	125,713	457,784	180,782	205,278	665,448	N/S	2ND BSPG S
30025433020000	ADVANCE ENERGY PARTNERS HAT MESA LLC	DAGGER STATE COM 504H	21S	33E	30	7/25/2016	4/28/2017	183,104	182,006	402,652	292,496	288,672	554,238	N/S	2ND BSPG S
30025424670000	MATADOR PRODUCTION COMPANY	FEDERAL 30 123H	19S	33E	30	7/8/2017	11/28/2017	3 Months: 22,195	3 Months: 21,812	3 Months: 37,530	22,195	21,812	37,530	N/S	2ND BSPG S
30025438720000	MEWBOURNE OIL COMPANY	BILBREY 34-27 B2MD F 001H	21S	32E	34	8/8/2017	11/30/2017	86,672	76,524	229,849	86,672	76,524	229,849	N/S	2ND BSPG S

Ascent Energy, LLC



Case No.

Exhibit

2nd Bone Spring Sand Production Data
Table

Oct 29, 2018

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) 748-9920
District III
1000 Rio Hrazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name GAVILON FED COM	
⁷ OGRID No. 325830	⁸ Operator Name ASCENT ENERGY	⁶ Well Number 505H ⁹ Elevation 3,670'

¹⁰ Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	20 S	33 E		125	SOUTH	1,988	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	20 S	33 E		100	NORTH	2,178	WEST	LEA

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

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

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 554,460.4 X= 704,493.3 LAT= 32.522571°N LONG= 103.669882°W FIRST TAKE POINT NAD 27 NME Y= 554,436.5 X= 704,683.5 LAT= 32.522502°N LONG= 103.669266°W LAST TAKE POINT/ BOTTOM HOLE LOCATION NAD 27 NME Y= 564,796.5 X= 704,614.6 LAT= 32.550980°N LONG= 103.669280°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 554,521.7 X= 745,674.0 LAT= 32.522892°N LONG= 103.670376°W FIRST TAKE POINT NAD 83 NME Y= 554,497.8 X= 745,864.2 LAT= 32.522623°N LONG= 103.669759°W LAST TAKE POINT/ BOTTOM HOLE LOCATION NAD 83 NME Y= 564,858.0 X= 745,795.0 LAT= 32.551100°N LONG= 103.669774°W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	CORNER COORDINATES TABLE NAD 27 NME A - Y= 564,898.6 N, X= 705,081.0 E B - Y= 564,889.6 N, X= 703,758.5 E C - Y= 562,259.2 N, X= 705,098.4 E D - Y= 562,252.4 N, X= 703,776.0 E E - Y= 559,618.9 N, X= 705,115.9 E F - Y= 559,611.7 N, X= 703,793.7 E G - Y= 556,979.6 N, X= 705,133.3 E H - Y= 556,972.4 N, X= 703,811.1 E I - Y= 554,339.1 N, X= 705,150.6 E J - Y= 554,331.7 N, X= 703,828.4 E		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 08-16-2018 Date of Survey _____ Signature and Seal of Professional Surveyor: _____ PRELIMINARY. THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT. MARK DILLON HARP 23786 Certificate Number _____ AW 2018010127
	CORNER COORDINATES TABLE NAD 83 NME A - Y= 564,960.1 N, X= 746,261.4 E B - Y= 564,954.1 N, X= 744,938.9 E C - Y= 562,320.6 N, X= 746,278.9 E D - Y= 562,313.8 N, X= 744,956.5 E E - Y= 559,680.3 N, X= 746,296.5 E F - Y= 559,673.1 N, X= 744,974.2 E G - Y= 557,040.9 N, X= 746,313.9 E H - Y= 557,033.7 N, X= 744,991.7 E I - Y= 554,400.4 N, X= 746,331.3 E J - Y= 554,393.0 N, X= 745,009.1 E		

Ascent Energy, LLC



Case No. _____ Exhibit _____

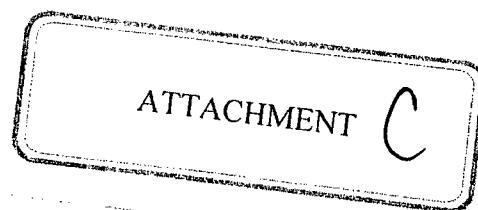
Gavilon FED COM 505H
C-102 Well Plat

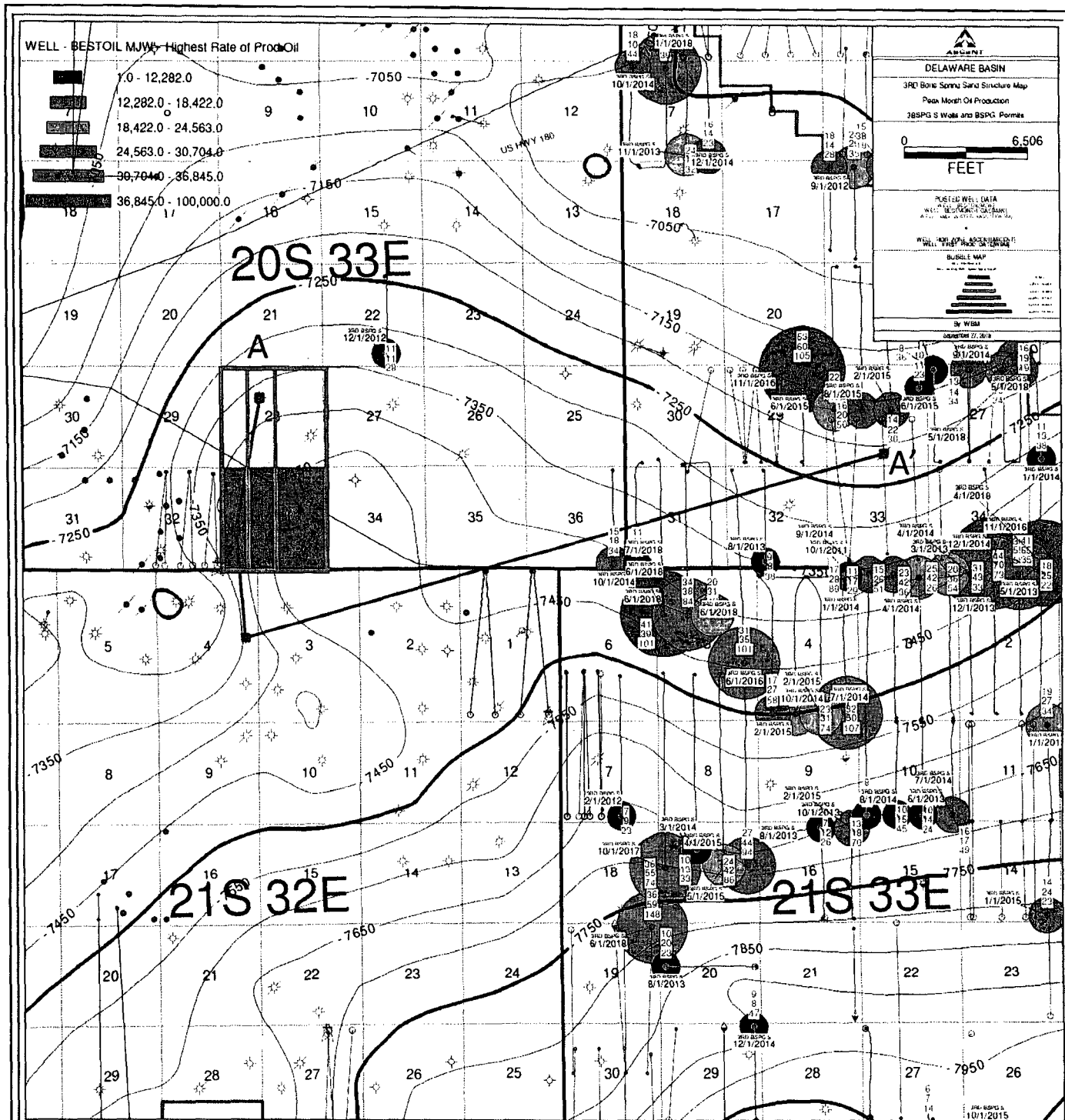
Oct 29, 2018

3rd Bone Spring Sand

Case No. 16483

- E2 W2
- Gavilon Fed Com 603H

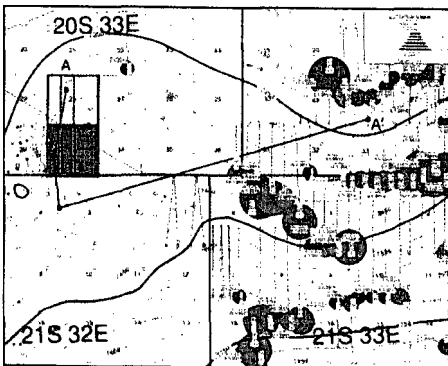
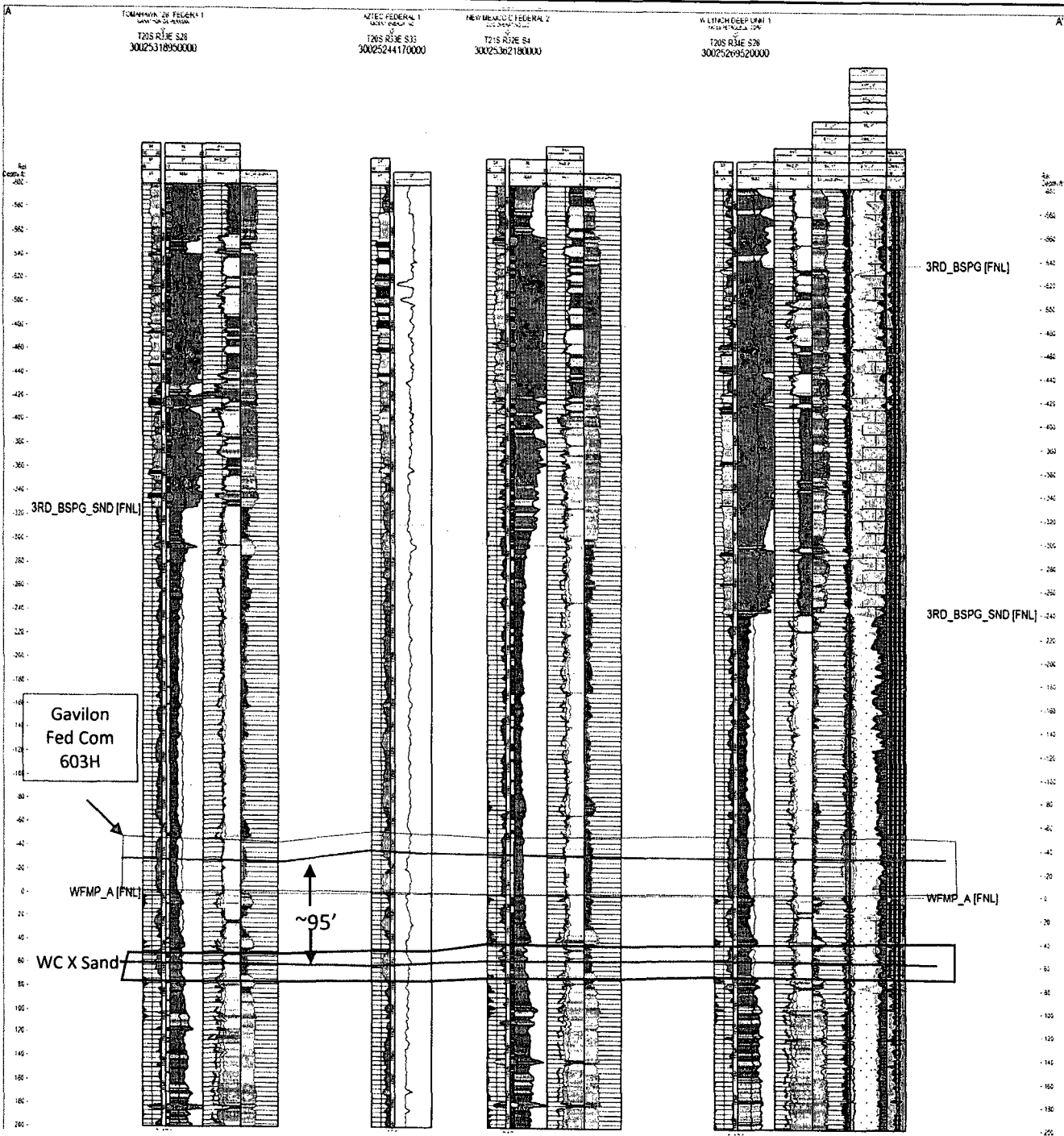




Proposed Pooling Unit

Gavilon BLM Approved Potash Development Area

Ascent Energy, LLC	
Case No.	Exhibit
3rd Bone Spring Sand Structure Producing 3rd Bone Spring Sand Wells & Bone Spring Permits	
CI = 50'	Oct 29, 2018



Proposed Target for:
Gavilon Fed Com 603H

*NUTECH Petrophysical log from
NUTECH's Delaware Basin Regional Study

Ascent Energy, LLC



Case No. Exhibit

Cross Section across 3rd Bone
Spring Sand

Oct 29, 2018

Case 3rd Bone Spring Sand Production Table																												
UNIT (SP/Well)	Operator	Well Label	Township	Range	Section	SPD DATE	COMP DATE	LEO (OIL)	IP GAS	IP WATER	PSA MONTHLY	PSA MONTHLY	PSA MONTHLY	PSA MONTHLY	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	1ST 5 MONTHS COM. MONTH	
30025401300000	COG OPERATING LIMITED LIABILITY CORP	CORAZON STATE UNIT 4H	21S	33E	4	8/11/2011	10/12/2011	539	980	1894	11,344	16,560	28,911	46,917	112,075	178,210	255,208	439,988	140,169	198,837	450,630	82,056	107,077	237,217	884,780	310,129	119,463	
30025403000000	CHAMBER ENERGY CO OF COLORADO	ADAMS STATE COM 3H	21S	33E	6	10/19/2011	3/4/2012	372	673	546	7,423	8,845	23,287	31,076	38,062	107,077	237,217	884,780	310,129	119,463	198,837	450,630	82,056	107,077	237,217	884,780	310,129	
30025403100000	PASSEN OIL AND RANCH LTD	QUAIL 16 STATE COM 3H	20S	34E	16	4/19/2012	9/26/2012	712	623	368	17,400	13,544	23,528	71,484	61,540	107,077	237,217	884,780	310,129	119,463	198,837	450,630	82,056	107,077	237,217	884,780	310,129	
30025404300000	COG OPERATING LIMITED LIABILITY CORP	TIGER 11 FEDERAL 3H	20S	34E	11	9/12/2012	1/27/2013	893	688	910	24,797	20,301	23,417	109,655	75,487	110,517	292,472	252,985	314,945	119,463	198,837	450,630	82,056	107,077	237,217	884,780	310,129	
30025407250100	COG OPERATING LIMITED LIABILITY CORP	OUTLAW 22 FEDERAL 1H	20S	34E	22	9/27/2012	1/24/2013	304	302	729	10,803	10,771	28,100	47,474	36,563	119,463	198,837	450,630	82,056	107,077	237,217	884,780	310,129	119,463	198,837	450,630	82,056	
30025405310000	PASSEN OIL AND RANCH LTD	QUAIL 16 STATE 4H	20S	34E	16	12/25/2012	2/25/2013	907	1,051	1,397	24,032	29,499	35,254	110,132	131,910	140,468	417,916	700,215	591,331	140,468	417,916	700,215	591,331	140,468	417,916	700,215	591,331	
30025407140100	COG OPERATING LIMITED LIABILITY CORP	QUAIL 16 STATE UNIT 1H	20S	34E	3	12/27/2012	3/23/2013	833	725	1,596	20,105	35,843	53,773	83,698	131,713	188,462	228,698	368,779	451,832	188,462	228,698	368,779	451,832	188,462	228,698	368,779	451,832	
30025407900000	COG OPERATING LIMITED LIABILITY CORP	LILLY BEN 2 STATE CO 2H	21S	33E	2	2/8/2013	5/12/2013	975	750	1,195	35,990	55,186	58,582	150,317	242,902	144,234	282,214	426,683	306,746	144,234	282,214	426,683	306,746	144,234	282,214	426,683	306,746	
30025410400100	COG OPERATING LIMITED LIABILITY CORP	CORAZON STATE UNIT 8H	21S	33E	10	4/6/2013	6/23/2013	481	789	1,132	9,310	13,843	23,653	38,734	38,734	75,598	123,603	135,547	212,871	75,598	123,603	135,547	212,871	75,598	123,603	135,547	212,871	
30025410400100	COG OPERATING LIMITED LIABILITY CORP	BOONE 16 STATE COM 2H	21S	33E	16	6/10/2013	8/24/2013	330	674	1,467	6,684	11,536	26,451	21,378	35,245	70,393	114,670	163,856	204,154	70,393	114,670	163,856	204,154	70,393	114,670	163,856	204,154	
30025411060000	COG OPERATING LIMITED LIABILITY CORP	GOOSE STATE 1H	20S	34E	32	6/5/2013	8/31/2013	407	343	1,410	9,322	8,450	23,986	35,838	63,410	75,027	109,534	136,908	257,801	35,838	63,410	75,027	109,534	136,908	257,801	35,838	63,410	
30025411060000	COG OPERATING LIMITED LIABILITY CORP	CROCKETT STATE 2H	21S	33E	20	5/19/2013	9/11/2013	580	1,095	1,265	10,150	20,413	23,064	34,258	24,904	68,733	224,233	217,210	263,827	68,733	224,233	217,210	263,827	68,733	224,233	217,210	263,827	
30025409480000	COG OPERATING LIMITED LIABILITY CORP	CORAZON STATE UNIT 6H	21S	33E	10	8/21/2013	10/27/2013	272	357	914	8,122	10,996	25,503	23,961	82,297	74,711	288,640	408,481	435,405	23,961	82,297	74,711	288,640	408,481	435,405	23,961	82,297	
300254113050100	LEGACY RESERVES OPERATING LP	HAMON A FEDERAL COM 3H	20S	34E	6	9/22/2013	11/13/2013	1,234	934	737	24,058	17,620	31,981	105,195	89,317	129,971	331,158	570,257	377,593	129,971	331,158	570,257	377,593	129,971	331,158	570,257	377,593	
300254113050100	LEGACY RESERVES OPERATING LP	LILLY BEN 2 STATE CO 3H	20S	34E	2	9/20/2013	12/31/2013	1,231	1,979	1,178	31,225	43,254	33,488	118,638	92,579	149,138	159,810	274,221	359,382	92,579	149,138	159,810	274,221	359,382	92,579	149,138	159,810	
30025412030000	COG OPERATING LIMITED LIABILITY CORP	CORAZON STATE UNIT 7H	21S	33E	3	11/5/2013	2/16/2014	648	1,176	2,586	15,454	25,626	51,045	59,849	82,297	74,711	288,640	408,481	435,405	82,297	74,711	288,640	408,481	435,405	82,297	74,711	288,640	
30025409460000	COG OPERATING LIMITED LIABILITY CORP	QUAIL 16 STATE 3H	20S	34E	16	7/31/2013	3/2/2014	671	784	859	14,727	38,461	12,755	65,501	86,043	80,584	224,994	447,849	343,391	86,043	80,584	224,994	447,849	343,391	86,043	80,584	224,994	
30025409420000	PASSEN OIL AND RANCH LTD	QUAIL 16 STATE BH	20S	34E	16	9/3/2013	2/6/2014	646	859	827	14,727	38,461	12,755	65,501	86,043	80,584	224,994	447,849	343,391	86,043	80,584	224,994	447,849	343,391	86,043	80,584	224,994	
30025411360000	PASSEN OIL AND RANCH LTD	QUAIL 16 STATE BH	20S	34E	16	12/17/2013	3/20/2014	552	741	344	11,171	12,977	37,866	46,018	50,917	110,020	312,867	251,850	251,850	50,917	110,020	312,867	251,850	251,850	50,917	110,020	312,867	251,850
30025403220000	CHAMBER ENERGY COMPANY	MARATHON ROAD 15 PA 3H	20S	34E	15	1/11/2014	2/10/2014	1,189	593	1,301	32,974	26,695	22,611	132,876	128,516	34,404	278,855	377,630	99,330	132,876	128,516	34,404	278,855	377,630	99,330	132,876	128,516	
30025411750000	MEVOURNE OIL COMPANY	LADINO 23 FEDERAL CO 2H	20S	34E	23	1/30/2014	4/7/2014	890	676	756	28,108	30,700	8,186	40,539	58,410	133,837	173,591	177,399	436,675	40,539	58,410	133,837	173,591	177,399	436,675	40,539	58,410	
30025406970000	CHAMBER ENERGY OPERATING LLC	BECKWELL STATE COM 3H	21S	33E	5	1/23/2014	4/16/2014	354	677	1,592	9,565	13,201	33,084	40,539	58,410	133,837	173,591	177,399	436,675	40,539	58,410	133,837	173,591	177,399	436,675	40,539	58,410	
30025411990000	COG OPERATING LIMITED LIABILITY CORP	CORAZON STATE UNIT 13H	21S	33E	3	1/25/2014	4/27/2014	842	1,774	1,768	23,335	42,341	35,693	86,253	135,713	123,971	255,343	414,279	383,891	135,713	123,971	255,343	414,279	383,891	135,713	123,971	255,343	
30025409450000	COG OPERATING LIMITED LIABILITY CORP	LILLY BEN 2 STATE CO 4H	21S	33E	2	10/24/2014	5/5/2014	1,057	1,590	1,852	25,262	16,636	48,632	60,720	85,000	179,044	167,620	313,542	447,401	85,000	179,044	167,620	313,542	447,401	85,000	179,044	167,620	
30025411040000	COG OPERATING LIMITED LIABILITY CORP	CORAZON STATE UNIT 9H	21S	33E	4	3/6/2014	7/12/2014	836	1,330	4,310	31,605	49,514	107,416	94,659	134,519	138,246	146,054	175,868	466,556	94,659	138,246	146,054	175,868	466,556	94,659	138,246	146,054	
30025409550000	COG OPERATING LIMITED LIABILITY CORP	CORAZON STATE UNIT 13H	21S	33E	3	10/24/2014	9/12/2014	469	782	3,069	10,242	14,953	44,722	42,291	72,931	138,246	146,054	175,868	466,556	42,291	72,931	138,246	146,054	175,868	466,556	42,291	72,931	
30025409490000	COG OPERATING LIMITED LIABILITY CORP	PERRY 22 FEDERAL COM 1H	20S	34E	22	7/17/2014	9/26/2014	559	632	557	16,717	13,986	13,580	70,200	64,398	52,049	211,402	274,194	195,634	64,398	52,049	211,402	274,194	195,634	64,398	52,049	211,402	
30025411050000	COG OPERATING LIMITED LIABILITY CORP	CORAZON STATE UNIT 5H	21S	33E	3	4/8/2014	10/11/2014	449	772	3,744	17,226	28,348	86,542	65,721	273,259	343,892	838,985	1,164,866	273,259	343,892	838,985	1,164,866	273,259	343,892	838,985	1,164,866	273,259	
30025409470000	COG OPERATING LIMITED LIABILITY CORP	CORAZON STATE UNIT 4H	20S	33E	36	5/10/2014	10/27/2014	706	302	916	15,423	17,789	34,041	50,766	58,601	118,162	237,020	360,300	578,134	58,601	118,162	237,020	360,300	578,134	58,601	118,162	237,020	
30025415620000	LEGACY RESERVES INC	CORAZON STATE UNIT 11H	21S	33E	4	6/27/2014	11/4/2014	549	737	3,748	24,513	43,292	84,720	55,426	95,006	232,180	295,960	525,451	1,050,402	95,006	232,180	295,960	525,451	1,050,402	95,006	232,180	295,960	
30025409530000	COG OPERATING LIMITED LIABILITY CORP	MARATHON ROAD 14 MD 3H	20S	34E	14	8/17/2014	11/13/2014	988	968	2,744	28,165	20,748	16,655	100,427	82,177	121,448	166,745	204,939	389,309	82,177	121,448	166,745	204,939	389,309	82,177	121,448	166,745	
30025411500000	MEVOURNE OIL COMPANY	MARATHON ROAD 14 MD 3H	20S	34E	14	9/6/2014	11/16/2014	1,040	968	2,744	28,165	20,748	16,655	100,427	82,177	121,448	166,745	204,939	389,309	82,177	121,448	166,745	204,939	389,309	82,177	121,448	166,745	
30025411500000	LEGACY RESERVES OPERATING LP	TIGER 11 FEDERAL 2H	20S	34E	11	8/24/2014	11/20/2014	615	771	678	25,769	19,328	25,598	88,645	69,677	81,370	238,231	155,374	199,610	69,677	81,370	238,231	155,374	199,610	69,677	81,370	238,231	
30025411500000	LEGACY RESERVES OPERATING LP	MARATHON ROAD 15 BBO 1H	20S	34E	15	10/5/2014	12/27/2014	938	803	1,455	15,753	13,824	33,424	89,603	89,603	202,678	373,923	348,629	89,603	202,678	373,923	348,629	89,603	202,678	373,923	348,629	89,603	
30025411510000	LEGACY RESERVES OPERATING LP	BEN LILLY 2 STATE CO 5H	21S	33E	2	10/4/2014	1/6/2015	765	840	1,284	17,884	24,824	21,910	72,486	96,955	89,041	188,676	406,637	187,436	96,955	89,041	188,676	406,637	187,436	96,955	89,041	188,676	
30025411510000	COG OPERATING LIMITED LIABILITY CORP	DATE RITE STATE COM 4H	21S	33E	14	8/26/2014	1/29/2015	466	933	969	14,086	24,238	22,562	52,554	88,435	78,041	188,676	406,637	187,436	88,435	78,041	188,676	406,637	187,436	88,435	78,041	188,676	
30025413770000	COG OPERATING LIMITED LIABILITY CORP	BOONE 16 STATE COM 1H	21S	33E	16	10/11																						

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 Huerfano Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name GAVILON FED COM	⁶ Well Number 603H
⁷ OGRID No. 325830	⁸ Operator Name ASCENT ENERGY	⁹ Elevation 3,670'

¹⁰ Surface Location

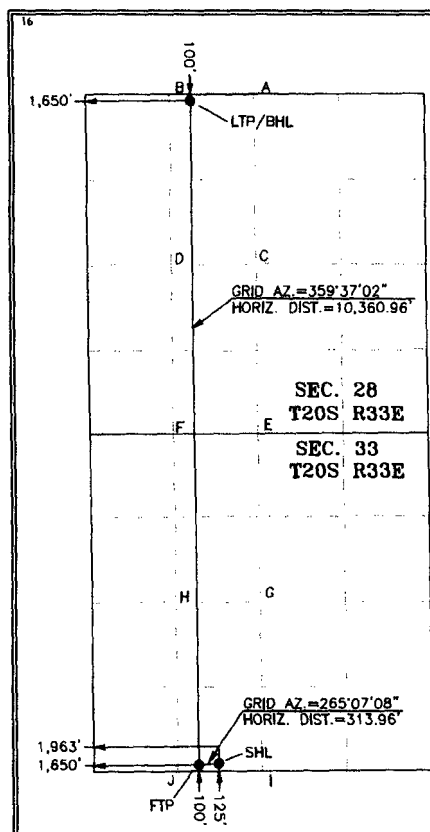
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	20 S	33 E		125	SOUTH	1,963	WEST	LEA

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
C	28	20 S	33 E		100	NORTH	1,650	WEST	LEA

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

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



GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 554,460.2
X= 704,468.3
LAT= 32.522571°N
LONG= 103.669963°W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 554,521.5
X= 745,649.0
LAT= 32.522692°N
LONG= 103.670457°W

FIRST TAKE POINT
NAD 27 NME
Y= 554,433.5
X= 704,155.5
LAT= 32.522503°N
LONG= 103.670979°W

FIRST TAKE POINT
NAD 83 NME
Y= 554,494.8
X= 745,336.2
LAT= 32.522624°N
LONG= 103.671472°W

**LAST TAKE POINT/
BOTTOM HOLE LOCATION**
NAD 27 NME
Y= 564,794.1
X= 704,086.6
LAT= 32.550982°N
LONG= 103.670993°W

**LAST TAKE POINT/
BOTTOM HOLE LOCATION**
NAD 83 NME
Y= 564,855.6
X= 745,267.0
LAT= 32.551103°N
LONG= 103.671488°W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y= 564,898.6 N, X= 705,081.0 E
B - Y= 564,889.6 N, X= 703,758.5 E
C - Y= 562,259.2 N, X= 705,098.4 E
D - Y= 562,252.4 N, X= 703,776.0 E
E - Y= 559,618.9 N, X= 705,115.9 E
F - Y= 559,611.7 N, X= 703,793.7 E
G - Y= 556,979.6 N, X= 705,133.3 E
H - Y= 556,972.4 N, X= 703,811.1 E
I - Y= 554,339.1 N, X= 705,150.6 E
J - Y= 554,331.7 N, X= 703,828.4 E

CORNER COORDINATES TABLE
NAD 83 NME

A - Y= 564,960.1 N, X= 746,261.4 E
B - Y= 564,954.1 N, X= 744,938.9 E
C - Y= 562,320.6 N, X= 746,278.9 E
D - Y= 562,313.8 N, X= 744,956.5 E
E - Y= 559,680.3 N, X= 746,296.5 E
F - Y= 559,673.1 N, X= 744,974.2 E
G - Y= 557,040.9 N, X= 746,313.9 E
H - Y= 557,033.7 N, X= 744,991.7 E
I - Y= 554,400.4 N, X= 746,331.3 E
J - Y= 554,393.0 N, X= 745,009.1 E

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____
Printed Name _____
E-mail Address _____

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

08-16-2018
Date of Survey

Signature and Seal of
Professional Surveyor:

PRELIMINARY. THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VERIFIED OR FILED UPON AS A FINAL SURVEY DOCUMENT

MARK DILLON HARP 23786
Certificate Number

AW

2018010126

Ascent Energy, LLC



Case No. _____ Exhibit _____

Gavilon FED COM 603H
C-102 Well Plat

Oct 29, 2018