District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number: 325830
Ascent Energy, LLC P.O. Box 270983 Littleton, CO 80127	[3] Reason for Filing Code/ Effective Date **NW**

[4] API Number	[5] Pool Name	[6] Pool Code
30 – 025-46547	Salt Lake: Bone Spring ~~-WC-025 G-8 S213304D; Bone Spring~~	53560 ~~**97895**~~

[7] Property Code	[8] Property Name	[9] Well Number
326331	**Big Moose Fed Com**	**506H**

II. [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
M	1	21 S	32 E		338’	South	905’	West	Lea

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	21 S	32 E		1268’	North	321’	West	Lea

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
S	**F**				

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
372603	**3 Bear Delaware Operating – NM. LLC**	**O**
372603	**3 Bear Delaware Operating – NM. LLC**	**G**
372603	**3 Bear Delaware Operating – NM. LLC**	**W**

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
12/26/2019	**9/3/2020**	**17244’**	**17240’**	10775’-17153’	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17.5”	13-3/8”	1598’	1600 sx
12.25”	9-5/8”	3195’	980 sx
8.75”	7-5/8”	5590’	365 sx
6.75”	5-1/2”	17240’	815 sx

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
9/14/2020	**9/14/2020**	**9/21/2020**	**24 hr**		**820 psi**
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
42/64	**886**	**5279**	**714**		**Flowing**

[42] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: W Ben Metz electronic signature

Printed name: Ben Metz

Title: VP Exploration

E-mail Address: bmetz@ascentenergy.us

Date: 11/12/2020

Phone: 303.513.8590

OIL CONSERVATION DIVISION

Approved by: PATRICIA MARTINEZ

Title: LM II

Approval Date: 3/18/2021

FILE 3160-4 WITHIN 10 DAYS TO NMOCD AFTER BLM APPROVAL.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

SALT LAKE; BONE SPRING KZ

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-46547-00-X1	53560	~~WC-025 G-8 S213304D; Bone Spring~~

[4] Property Code	[5] Property Name	[6] Well Number
326331	BIG MOOSE FED COM	506H

[7] OGRID No.	[8] Operator Name	[9] Elevation
325830	ASCENT ENERGY	3762.9'

[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
M	1	21S	32E		338	SOUTH	905	WEST	LEA

SL

[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
D	13	21S	32E		1268	NORTH	321	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
200			

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.

[16]

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°30'05.76" (32.501601°)
LONGITUDE = 103°38'02.31" (103.633976°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°30'05.32" (32.501479°)
LONGITUDE = 103°38'00.55" (103.633486°)
STATE PLANE NAD 83 (N.M. EAST)
N: 546920.36' E: 756943.68'
STATE PLANE NAD 27 (N.M. EAST)
N: 546858.70' E: 715762.24'

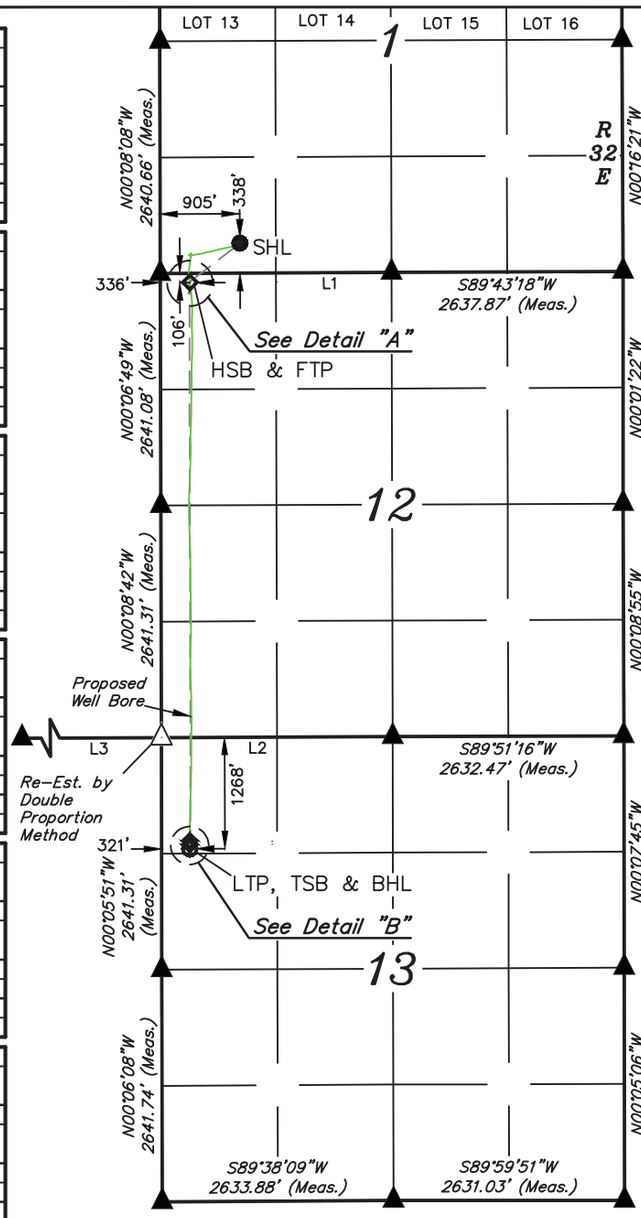
NAD 83 (HEEL SETBACK)
LATITUDE = 32°30'01.42" (32.500394°)
LONGITUDE = 103°38'08.97" (103.635824°)
NAD 27 (HEEL SETBACK)
LATITUDE = 32°30'00.98" (32.500271°)
LONGITUDE = 103°38'07.20" (103.635334°)
STATE PLANE NAD 83 (N.M. EAST)
N: 546477.47' E: 756376.91'
STATE PLANE NAD 27 (N.M. EAST)
N: 546415.82' E: 715195.46'

NAD 83 (AS-DRILLED FTP)
LATITUDE = 32°30'01.36" (32.500379°)
LONGITUDE = 103°38'08.96" (103.635821°)
NAD 27 (AS-DRILLED FTP)
LATITUDE = 32°30'00.92" (32.500256°)
LONGITUDE = 103°38'07.19" (103.635331°)
STATE PLANE NAD 83 (N.M. EAST)
N: 546472.00' E: 756377.70'
STATE PLANE NAD 27 (N.M. EAST)
N: 546410.35' E: 715196.24'

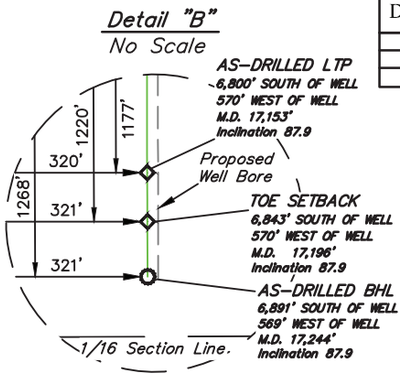
NAD 83 (AS-DRILLED LTP)
LATITUDE = 32°28'58.50" (32.482917°)
LONGITUDE = 103°38'09.15" (103.635875°)
NAD 27 (AS-DRILLED LTP)
LATITUDE = 32°28'58.06" (32.482795°)
LONGITUDE = 103°38'07.39" (103.635385°)
STATE PLANE NAD 83 (N.M. EAST)
N: 540119.15' E: 756402.67'
STATE PLANE NAD 27 (N.M. EAST)
N: 540057.68' E: 715221.05'

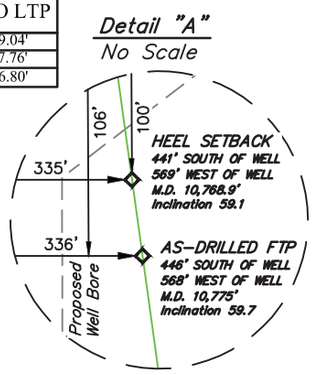
NAD 83 (TOE SETBACK)
LATITUDE = 32°28'58.08" (32.482800°)
LONGITUDE = 103°38'09.15" (103.635875°)
NAD 27 (TOE SETBACK)
LATITUDE = 32°28'57.64" (32.482677°)
LONGITUDE = 103°38'07.39" (103.635385°)
STATE PLANE NAD 83 (N.M. EAST)
N: 540076.38' E: 756403.08'
STATE PLANE NAD 27 (N.M. EAST)
N: 540014.91' E: 715221.46'

NAD 83 (AS-DRILLED BHL)
LATITUDE = 32°28'57.60" (32.482667°)
LONGITUDE = 103°38'09.15" (103.635874°)
NAD 27 (AS-DRILLED BHL)
LATITUDE = 32°28'57.16" (32.482545°)
LONGITUDE = 103°38'07.38" (103.635384°)
STATE PLANE NAD 83 (N.M. EAST)
N: 540028.22' E: 756403.57'
STATE PLANE NAD 27 (N.M. EAST)
N: 539966.75' E: 715221.96'



APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP	
SECTION 12	5,179.04'
SECTION 13	1,177.76'
TOTAL	6,356.80'





[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.

W Ben Metz 9/25/2020
Signature Date

W Ben Metz
Printed Name

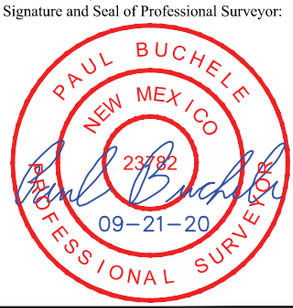
bmetz@ascentenergy.us
E-mail Address

[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.

November 27, 2019
Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD83)
- Well Bore data provided by Ascent Energy.
- As-Drilled well bore has not been field verified.

● = SURFACE HOLE LOCATION
◇ = AS-DRILLED TAKE/SETBACK POINT
○ = AS-DRILLED BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-EST. (Not Set on Ground.)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°45'33"W	2630.40'
L2	S89°43'31"W	2631.76'
L3	S89°44'43"W	2638.69'

2000' 1000' 0' 2000'
SCALE
DRAWN BY: C.IVIE 09-25-20

ASCENT ENERGY

Ascent Energy, LLC
Project: Lea County (NAD 83 NME GN)
Site: (Big Moose) Sec-1_T-21-S_R-34-E
Well: Big Moose Fed Com #506H
Wellbore: ST01
Design: AWB
Lat: 32° 30' 5.765 N
Long: 103° 38' 2.313 W
Pad GL: 3762.9
KB: KB @ 3787.9usft (Precision 553)

INTREPID

WELL DETAILS: Big Moose Fed Com #506H

3762.9

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	546920.36	756943.68	32° 30' 5.765 N	103° 38' 2.313 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
9725.0	1.85	212.10	9674.0	-139.2	-568.4	0.00	0.00	135.5	Tie on/Sidetrack - DLS 10.00 TFO 178.29
9823.5	8.00	30.00	9772.3	-134.6	-565.8	10.00	178.29	130.9	Start 50.0 hold at 9823.5 MD
9873.5	8.00	30.00	9821.8	-128.6	-562.3	0.00	0.00	124.9	Start Drop -4.00
10073.5	0.00	0.00	10021.1	-116.5	-555.4	4.00	180.00	112.9	Start 105.0 hold at 10073.5 MD
10178.5	0.00	0.00	10126.1	-116.5	-555.4	0.00	0.00	112.9	KOP - Build 10.00
11074.0	89.55	181.40	10699.0	-684.8	-569.3	10.00	181.40	681.1	EOC/TRN - DLS 2.00 TFO -90.07
11162.3	89.55	179.63	10699.7	-773.1	-570.0	2.00	-90.07	769.4	Start 6120.9 hold at 11162.3 MD
17283.2	89.55	179.63	10748.0	-6893.7	-530.9	0.00	0.00	6890.1	TD at 17283.2

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Big Moose Fed Com #506H) v2	10699.0	-442.8	-572.0	546477.60	756371.65
LTP (Big Moose Fed Com #506H) v2	10748.0	-6843.7	-531.2	540076.66	756412.46
PBHL (Big Moose Fed Com #506H) v2	10748.0	-6893.7	-530.9	540026.66	756412.76

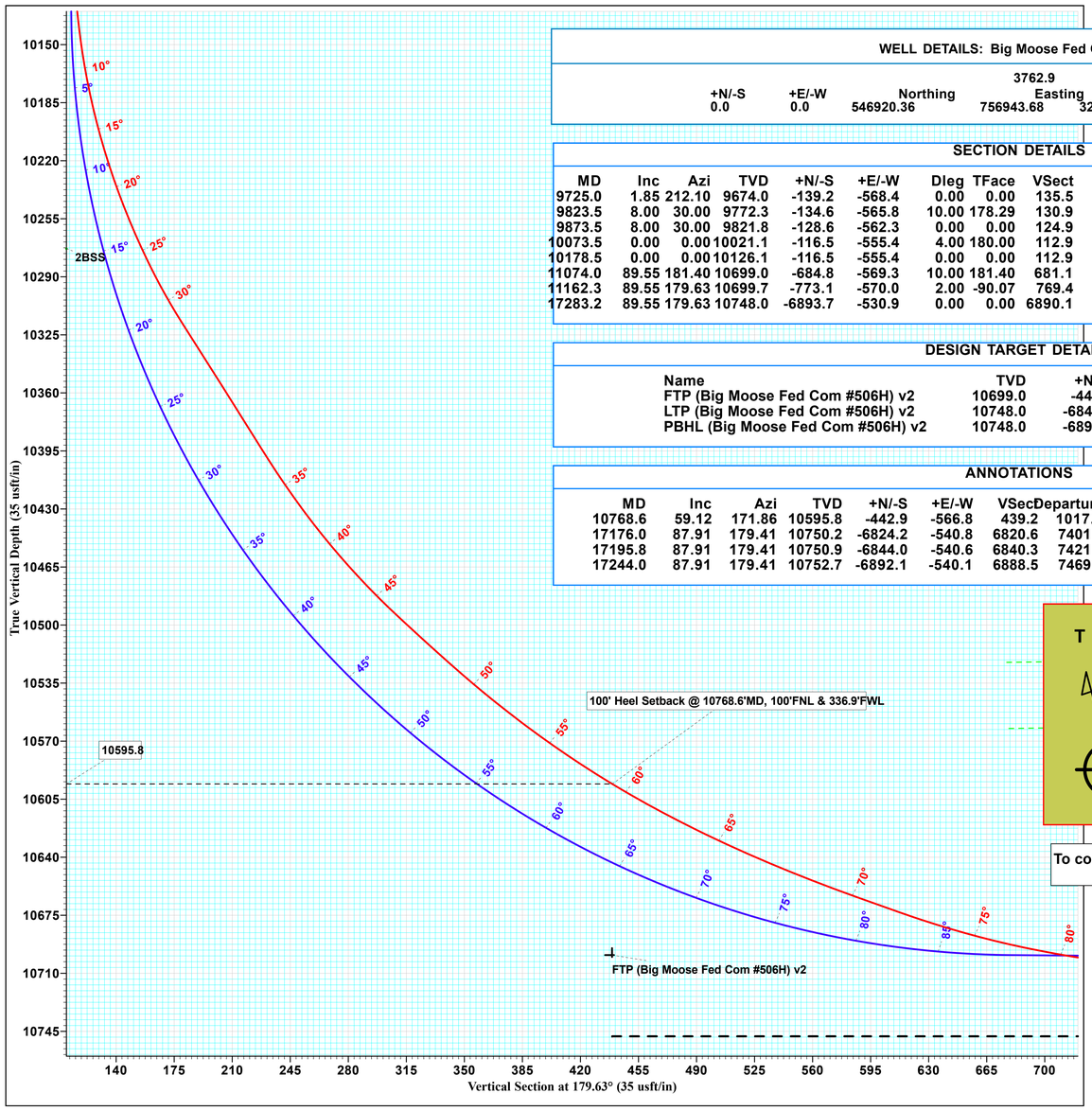
ANNOTATIONS

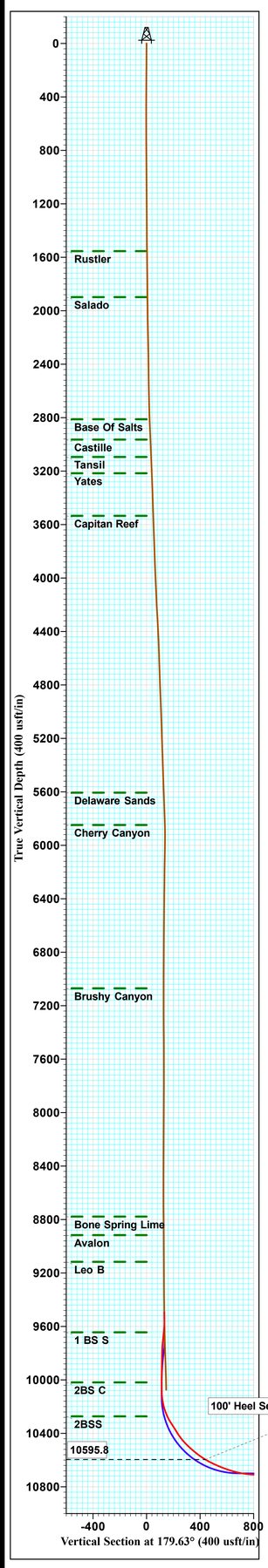
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
10768.6	59.12	171.86	10595.8	-442.9	-566.8	439.2	1017.1	100' Heel Setback @ 10768.6'MD, 100'FNL & 336.9'FWL
17176.0	87.91	179.41	10750.2	-6824.2	-540.8	6820.6	7401.5	LAST SVY
17195.8	87.91	179.41	10750.9	-6844.0	-540.6	6840.3	7421.3	100' Toe Setback @ 17195.8'MD, 100'FSL & 321.5'FWL
17244.0	87.91	179.41	10752.7	-6892.1	-540.1	6888.5	7469.5	Projection to TD @ 50.9'FSL & 321.7'FWL

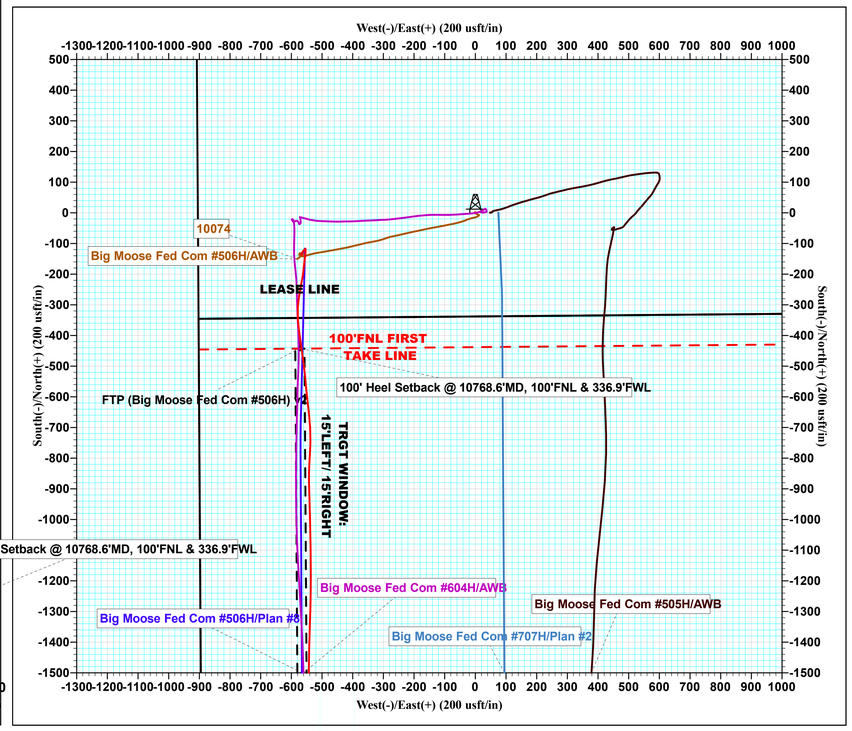
Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.33°

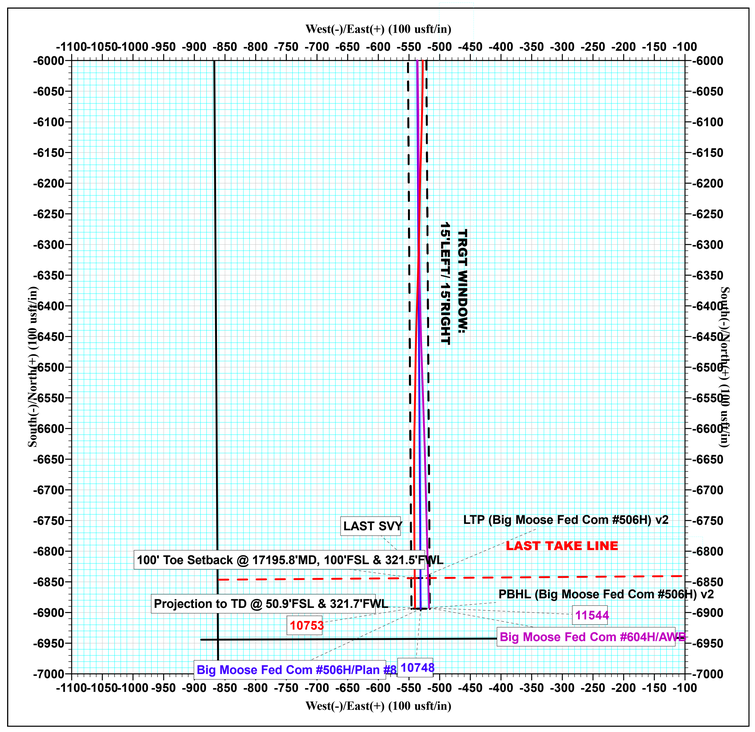
Magnetic Field
Strength: 47811.9nT
Dip Angle: 60.27°
Date: 03/10/2020
Model: IGRF2015

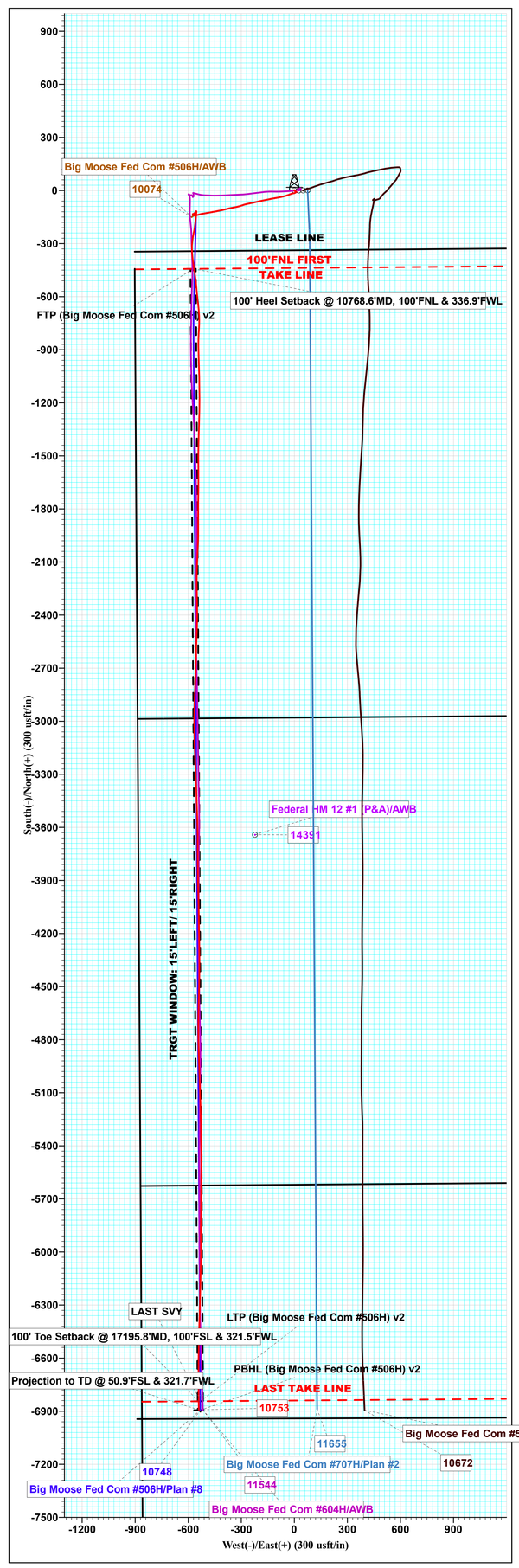
To convert a Magnetic Direction to a Grid Direction, Add 6.33°

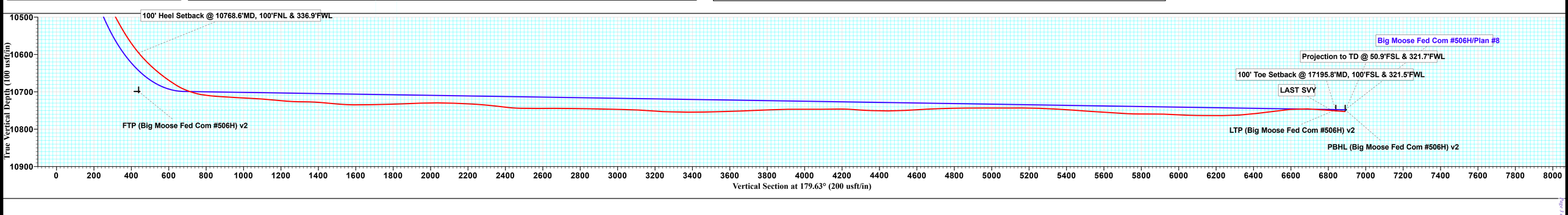












Ascent Energy, LLC

Lea County (NAD 83 NME GN)
(Big Moose) Sec-1_T-21-S_R-34-E
Big Moose Fed Com #506H

ST01

Design: AWB

Standard Survey Report

30 March, 2020

Intrepid
Survey Report

Company:	Ascent Energy, LLC	**Local Co-ordinate Reference:**	Well Big Moose Fed Com #506H
Project:	Lea County (NAD 83 NME GN)	**TVD Reference:**	KB @ 3787.9usft (Precision 553)
Site:	(Big Moose) Sec-1_T-21-S_R-34-E	**MD Reference:**	KB @ 3787.9usft (Precision 553)
Well:	Big Moose Fed Com #506H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	AWB	**Database:**	EDM 5000.15 Single User Db

Project Lea County (NAD 83 NME GN)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site (Big Moose) Sec-1_T-21-S_R-34-E

Site Position:		**Northing:**	546,920.78 usft	**Latitude:**	32° 30' 5.765 N
From:	Map	**Easting:**	756,993.67 usft	**Longitude:**	103° 38' 1.730 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.38 °

Well Big Moose Fed Com #506H

Well Position	**+N/-S**	0.0 usft	**Northing:**	546,920.36 usft	**Latitude:**	32° 30' 5.765 N
	+E/-W	0.0 usft	**Easting:**	756,943.68 usft	**Longitude:**	103° 38' 2.313 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,762.9 usft

Wellbore ST01

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/10/20	6.71	60.27	47,811.93723291

Design AWB

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	9,546.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.63

Survey Program **Date** 03/30/20

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
169.0	9,546.0	Intrepid MWD (OWB)	MWD	OWSG MWD - Standard
9,621.0	17,244.0	Intrepid MWD ST01 (ST01)	MWD	OWSG MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
169.0	0.31	338.96	169.0	0.4	-0.2	-0.4	0.18	0.18	0.00
228.0	0.79	340.89	228.0	1.0	-0.4	-1.0	0.81	0.81	3.27
287.0	0.44	311.62	287.0	1.5	-0.7	-1.5	0.78	-0.59	-49.61
347.0	0.44	313.82	347.0	1.8	-1.0	-1.8	0.03	0.00	3.67
406.0	0.57	20.00	406.0	2.2	-1.1	-2.2	0.95	0.22	112.17
464.0	0.44	42.33	464.0	2.7	-0.8	-2.7	0.40	-0.22	38.50
523.0	0.13	190.69	523.0	2.8	-0.7	-2.8	0.94	-0.53	251.46
621.0	0.40	131.18	621.0	2.4	-0.4	-2.4	0.36	0.28	-60.72
677.0	0.35	244.21	677.0	2.2	-0.4	-2.2	1.12	-0.09	201.84

Intrepid
Survey Report

Company:	Ascent Energy, LLC	**Local Co-ordinate Reference:**	Well Big Moose Fed Com #506H
Project:	Lea County (NAD 83 NME GN)	**TVD Reference:**	KB @ 3787.9usft (Precision 553)
Site:	(Big Moose) Sec-1_T-21-S_R-34-E	**MD Reference:**	KB @ 3787.9usft (Precision 553)
Well:	Big Moose Fed Com #506H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	AWB	**Database:**	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
769.0	0.53	167.48	769.0	1.7	-0.6	-1.7	0.61	0.20	-83.40
862.0	0.53	185.06	862.0	0.9	-0.5	-0.9	0.17	0.00	18.90
954.0	0.53	98.49	954.0	0.4	-0.2	-0.4	0.79	0.00	-94.10
1,046.0	0.79	113.08	1,046.0	0.1	0.8	-0.1	0.33	0.28	15.86
1,137.0	0.79	158.25	1,137.0	-0.8	1.7	0.8	0.67	0.00	49.64
1,228.0	0.66	93.04	1,228.0	-1.4	2.4	1.4	0.87	-0.14	-71.66
1,320.0	0.48	213.54	1,320.0	-1.7	2.7	1.8	1.08	-0.20	130.98
1,411.0	0.31	100.51	1,411.0	-2.1	2.8	2.1	0.73	-0.19	-124.21
1,504.0	0.75	149.55	1,503.9	-2.7	3.3	2.7	0.64	0.47	52.73
1,552.0	0.97	127.67	1,551.9	-3.2	3.8	3.2	0.82	0.46	-45.58
1,554.1	0.98	127.44	1,554.0	-3.2	3.8	3.2	0.41	0.36	-11.37
Rustler									
1,678.0	1.45	117.97	1,677.9	-4.6	6.0	4.6	0.41	0.38	-7.64
1,772.0	1.63	117.53	1,771.9	-5.8	8.3	5.8	0.19	0.19	-0.47
1,865.0	1.71	104.70	1,864.8	-6.7	10.8	6.8	0.41	0.09	-13.80
1,898.2	1.26	112.83	1,898.0	-7.0	11.6	7.1	1.49	-1.35	24.53
Salado									
1,957.0	0.66	153.39	1,956.8	-7.5	12.4	7.6	1.49	-1.03	68.93
2,049.0	1.32	236.27	2,048.8	-8.6	11.7	8.7	1.52	0.72	90.09
2,144.0	2.37	240.14	2,143.8	-10.2	9.1	10.3	1.11	1.11	4.07
2,236.0	2.11	237.50	2,235.7	-12.1	6.0	12.1	0.30	-0.28	-2.87
2,329.0	2.02	242.78	2,328.6	-13.7	3.1	13.7	0.23	-0.10	5.68
2,422.0	2.55	258.07	2,421.6	-14.9	-0.4	14.9	0.86	0.57	16.44
2,515.0	3.43	259.56	2,514.4	-15.8	-5.1	15.8	0.95	0.95	1.60
2,609.0	4.62	254.82	2,608.2	-17.3	-11.5	17.3	1.31	1.27	-5.04
2,701.0	4.88	252.71	2,699.9	-19.5	-18.9	19.3	0.34	0.28	-2.29
2,793.0	5.14	248.80	2,791.5	-22.1	-26.4	21.9	0.47	0.28	-4.25
2,813.6	5.55	248.74	2,812.0	-22.8	-28.2	22.6	2.01	2.01	-0.30
Base Of Salts									
2,885.0	6.99	248.58	2,883.0	-25.7	-35.5	25.4	2.01	2.01	-0.22
2,966.8	9.19	252.97	2,964.0	-29.4	-46.4	29.1	2.79	2.68	5.36
Castille									
2,978.0	9.49	253.41	2,975.0	-29.9	-48.1	29.6	2.79	2.71	3.96
3,072.0	10.77	257.37	3,067.6	-34.0	-64.1	33.6	1.55	1.36	4.21
3,098.9	10.72	257.58	3,094.0	-35.1	-69.0	34.7	0.25	-0.20	0.79
Tansil									
3,137.0	10.64	257.89	3,131.4	-36.6	-75.9	36.1	0.25	-0.20	0.80
3,223.0	10.64	259.30	3,216.0	-39.8	-91.5	39.2	0.30	0.00	1.64
Yates									
3,255.0	10.64	259.83	3,247.4	-40.8	-97.3	40.2	0.30	0.00	1.64
3,348.0	10.90	259.39	3,338.8	-44.0	-114.4	43.2	0.29	0.28	-0.47
3,442.0	11.47	259.39	3,431.0	-47.3	-132.3	46.5	0.61	0.61	0.00
3,536.0	10.29	258.42	3,523.3	-50.7	-149.7	49.8	1.27	-1.26	-1.03
3,547.9	10.31	258.33	3,535.0	-51.2	-151.8	50.2	0.19	0.14	-0.76

Intrepid
Survey Report

Company:	Ascent Energy, LLC	**Local Co-ordinate Reference:**	Well Big Moose Fed Com #506H
Project:	Lea County (NAD 83 NME GN)	**TVD Reference:**	KB @ 3787.9usft (Precision 553)
Site:	(Big Moose) Sec-1_T-21-S_R-34-E	**MD Reference:**	KB @ 3787.9usft (Precision 553)
Well:	Big Moose Fed Com #506H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	AWB	**Database:**	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Capitan Reef									
3,629.0	10.42	257.72	3,614.8	-54.2	-166.0	53.1	0.19	0.14	-0.75
3,722.0	9.49	258.16	3,706.4	-57.6	-181.8	56.4	1.00	-1.00	0.47
3,815.0	9.63	258.51	3,798.1	-60.7	-196.9	59.4	0.16	0.15	0.38
3,908.0	10.11	257.97	3,889.7	-63.9	-212.5	62.6	0.53	0.52	-0.58
4,000.0	10.95	256.40	3,980.2	-67.7	-228.9	66.2	0.96	0.91	-1.71
4,093.0	11.60	257.10	4,071.4	-71.8	-246.6	70.2	0.71	0.70	0.75
4,187.0	12.30	259.00	4,163.3	-75.8	-265.6	74.1	0.85	0.74	2.02
4,280.0	10.80	252.50	4,254.5	-80.4	-283.7	78.5	2.13	-1.61	-6.99
4,373.0	11.30	250.90	4,345.7	-86.0	-300.6	84.0	0.63	0.54	-1.72
4,467.0	10.40	257.80	4,438.1	-90.8	-317.6	88.7	1.68	-0.96	7.34
4,561.0	9.60	259.40	4,530.6	-94.0	-333.6	91.8	0.90	-0.85	1.70
4,653.0	10.40	259.50	4,621.2	-96.9	-349.3	94.7	0.87	0.87	0.11
4,746.0	9.00	256.20	4,712.9	-100.2	-364.6	97.8	1.62	-1.51	-3.55
4,839.0	9.00	256.60	4,804.7	-103.6	-378.7	101.2	0.07	0.00	0.43
4,931.0	9.30	256.10	4,895.6	-107.1	-393.0	104.5	0.34	0.33	-0.54
5,025.0	9.50	256.50	4,988.3	-110.7	-407.9	108.1	0.22	0.21	0.43
5,118.0	9.80	259.50	5,080.0	-113.9	-423.1	111.2	0.63	0.32	3.23
5,211.0	10.30	258.70	5,171.6	-117.0	-439.1	114.2	0.56	0.54	-0.86
5,303.0	10.80	260.10	5,262.0	-120.1	-455.6	117.2	0.61	0.54	1.52
5,395.0	11.10	260.00	5,352.3	-123.1	-472.8	120.1	0.33	0.33	-0.11
5,489.0	11.25	259.21	5,444.6	-126.4	-490.7	123.2	0.23	0.16	-0.84
5,540.0	11.30	260.71	5,494.6	-128.1	-500.6	124.9	0.58	0.10	2.94
5,613.0	11.43	260.44	5,566.1	-130.5	-514.8	127.2	0.19	0.18	-0.37
5,653.6	10.52	258.78	5,606.0	-131.9	-522.4	128.5	2.37	-2.24	-4.08
Delaware Sands									
5,702.0	9.45	256.40	5,653.7	-133.7	-530.6	130.3	2.37	-2.21	-4.92
5,792.0	7.12	253.06	5,742.7	-137.0	-543.1	133.5	2.64	-2.59	-3.71
5,882.0	6.55	252.27	5,832.1	-140.2	-553.3	136.7	0.64	-0.63	-0.88
5,898.0	6.26	254.89	5,848.0	-140.7	-555.0	137.2	2.58	-1.83	16.38
Cherry Canyon									
5,971.0	5.14	270.29	5,920.6	-141.8	-562.1	138.1	2.58	-1.53	21.10
6,060.0	2.77	286.19	6,009.4	-141.1	-568.2	137.5	2.91	-2.66	17.87
6,150.0	2.29	302.01	6,099.3	-139.6	-571.8	135.9	0.94	-0.53	17.58
6,239.0	1.01	327.41	6,188.3	-138.0	-573.7	134.3	1.62	-1.44	28.54
6,329.0	0.48	3.89	6,278.3	-136.9	-574.1	133.2	0.76	-0.59	40.53
6,418.0	0.75	0.81	6,367.3	-136.0	-574.1	132.3	0.31	0.30	-3.46
6,508.0	0.57	16.55	6,457.3	-135.0	-574.0	131.3	0.28	-0.20	17.49
6,597.0	0.35	18.48	6,546.3	-134.3	-573.7	130.6	0.25	-0.25	2.17
6,686.0	0.40	37.46	6,635.3	-133.8	-573.5	130.1	0.15	0.06	21.33
6,776.0	0.48	28.94	6,725.3	-133.2	-573.1	129.5	0.11	0.09	-9.47
6,865.0	0.26	4.24	6,814.3	-132.7	-572.9	129.0	0.30	-0.25	-27.75
6,954.0	0.18	22.79	6,903.3	-132.3	-572.8	128.6	0.12	-0.09	20.84
7,043.0	0.31	53.28	6,992.3	-132.1	-572.6	128.4	0.20	0.15	34.26

Intrepid
Survey Report

Company:	Ascent Energy, LLC	**Local Co-ordinate Reference:**	Well Big Moose Fed Com #506H
Project:	Lea County (NAD 83 NME GN)	**TVD Reference:**	KB @ 3787.9usft (Precision 553)
Site:	(Big Moose) Sec-1_T-21-S_R-34-E	**MD Reference:**	KB @ 3787.9usft (Precision 553)
Well:	Big Moose Fed Com #506H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	AWB	**Database:**	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,120.7	0.26	74.81	7,070.0	-131.9	-572.2	128.2	0.15	-0.06	27.70
Brushy Canyon									
7,133.0	0.26	78.77	7,082.3	-131.9	-572.2	128.2	0.15	-0.03	32.28
7,222.0	0.09	153.22	7,171.3	-131.9	-572.0	128.2	0.28	-0.19	83.65
7,312.0	0.09	195.31	7,261.3	-132.0	-571.9	128.3	0.07	0.00	46.77
7,401.0	0.18	236.62	7,350.3	-132.2	-572.1	128.5	0.14	0.10	46.42
7,490.0	0.48	222.56	7,439.3	-132.5	-572.4	128.8	0.35	0.34	-15.80
7,580.0	0.48	223.35	7,529.3	-133.1	-573.0	129.4	0.01	0.00	0.88
7,670.0	0.75	224.41	7,619.2	-133.8	-573.6	130.1	0.30	0.30	1.18
7,759.0	0.84	71.48	7,708.2	-134.0	-573.4	130.3	1.74	0.10	-171.83
7,848.0	0.88	72.53	7,797.2	-133.6	-572.1	129.9	0.05	0.04	1.18
7,938.0	0.84	67.17	7,887.2	-133.1	-570.9	129.4	0.10	-0.04	-5.96
8,027.0	0.75	63.92	7,976.2	-132.6	-569.8	128.9	0.11	-0.10	-3.65
8,117.0	0.48	69.89	8,066.2	-132.2	-568.9	128.5	0.31	-0.30	6.63
8,206.0	0.79	73.76	8,155.2	-131.9	-567.9	128.2	0.35	0.35	4.35
8,296.0	0.75	73.23	8,245.2	-131.6	-566.8	127.9	0.05	-0.04	-0.59
8,386.0	0.53	61.72	8,335.2	-131.2	-565.8	127.5	0.28	-0.24	-12.79
8,475.0	0.31	68.23	8,424.2	-130.9	-565.3	127.3	0.25	-0.25	7.31
8,564.0	0.26	26.13	8,513.2	-130.6	-564.9	127.0	0.24	-0.06	-47.30
8,654.0	0.09	200.24	8,603.2	-130.5	-564.9	126.9	0.39	-0.19	193.46
8,743.0	0.26	211.57	8,692.2	-130.8	-565.0	127.1	0.19	0.19	12.73
8,828.8	0.65	194.07	8,778.0	-131.4	-565.2	127.8	0.47	0.45	-20.39
Bone Spring Lime									
8,832.0	0.66	193.82	8,781.2	-131.4	-565.2	127.8	0.47	0.46	-7.91
8,921.0	0.48	183.63	8,870.2	-132.3	-565.4	128.7	0.23	-0.20	-11.45
8,967.8	0.56	125.34	8,917.0	-132.6	-565.2	129.0	1.09	0.17	-124.49
Avalon									
9,011.0	0.92	101.18	8,960.2	-132.8	-564.7	129.2	1.09	0.84	-55.96
9,100.0	0.92	94.06	9,049.2	-133.0	-563.3	129.4	0.13	0.00	-8.00
9,167.8	0.82	100.78	9,117.0	-133.1	-562.3	129.5	0.21	-0.15	9.90
Leo B									
9,189.0	0.79	103.21	9,138.2	-133.2	-562.0	129.6	0.21	-0.14	11.51
9,278.0	0.40	178.88	9,227.1	-133.7	-561.4	130.0	0.89	-0.44	85.02
9,367.0	0.70	225.90	9,316.1	-134.3	-561.8	130.7	0.58	0.34	52.83
9,457.0	1.49	245.06	9,406.1	-135.2	-563.2	131.6	0.96	0.88	21.29
9,546.0	1.41	232.32	9,495.1	-136.4	-565.1	132.7	0.37	-0.09	-14.31
9,621.0	1.05	267.03	9,570.1	-137.0	-566.5	133.3	1.08	-0.48	46.28
9,651.0	2.73	348.16	9,600.1	-136.3	-567.0	132.6	9.23	5.60	270.43
9,681.0	5.67	18.92	9,630.0	-134.2	-566.6	130.5	12.02	9.80	102.53
9,695.1	6.33	24.34	9,644.0	-132.8	-566.1	129.2	6.18	4.69	38.48
1 BS S									
9,710.0	7.08	28.94	9,658.8	-131.3	-565.3	127.6	6.18	5.02	30.84
9,741.0	7.60	32.89	9,689.6	-127.9	-563.3	124.2	2.34	1.68	12.74
9,799.0	5.45	33.42	9,747.2	-122.4	-559.7	118.7	3.71	-3.71	0.91

Intrepid
Survey Report

Company:	Ascent Energy, LLC	**Local Co-ordinate Reference:**	Well Big Moose Fed Com #506H
Project:	Lea County (NAD 83 NME GN)	**TVD Reference:**	KB @ 3787.9usft (Precision 553)
Site:	(Big Moose) Sec-1_T-21-S_R-34-E	**MD Reference:**	KB @ 3787.9usft (Precision 553)
Well:	Big Moose Fed Com #506H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	AWB	**Database:**	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,844.0	2.64	60.84	9,792.1	-120.1	-557.6	116.5	7.41	-6.24	60.93
9,889.0	2.51	63.65	9,837.0	-119.1	-555.8	115.5	0.40	-0.29	6.24
9,978.0	0.88	355.01	9,926.0	-117.6	-554.1	114.0	2.63	-1.83	-77.12
10,068.0	0.44	19.89	10,016.0	-116.6	-554.0	113.0	0.57	-0.49	27.64
10,071.0	0.35	27.40	10,019.0	-116.5	-554.0	113.0	3.45	-3.00	248.23
2BS C									
10,157.0	2.68	169.83	10,104.9	-118.3	-553.6	114.7	3.45	2.71	165.67
10,202.0	8.09	182.92	10,149.7	-122.5	-553.5	118.9	12.25	12.02	29.09
10,248.0	14.15	183.01	10,194.8	-131.4	-554.0	127.8	13.17	13.17	0.20
10,293.0	20.31	188.64	10,237.8	-144.6	-555.5	141.0	14.17	13.69	12.51
10,331.1	24.87	186.29	10,273.0	-159.1	-557.3	155.5	12.20	11.97	-6.16
2BSS									
10,337.0	25.58	186.00	10,278.3	-161.6	-557.6	158.0	12.20	12.02	-4.96
10,382.0	32.44	186.26	10,317.6	-183.3	-559.9	179.7	15.25	15.24	0.58
10,427.0	32.88	188.90	10,355.5	-207.3	-563.1	203.7	3.31	0.98	5.87
10,472.0	32.31	191.36	10,393.4	-231.2	-567.4	227.5	3.21	-1.27	5.47
10,516.0	36.79	190.31	10,429.7	-255.7	-572.1	252.0	10.27	10.18	-2.39
10,603.0	47.03	183.98	10,494.4	-313.3	-579.0	309.5	12.72	11.77	-7.28
10,648.0	48.57	175.36	10,524.6	-346.5	-578.8	342.8	14.59	3.42	-19.16
10,692.0	52.26	172.90	10,552.7	-380.3	-575.3	376.5	9.43	8.39	-5.59
10,737.0	56.22	172.11	10,579.0	-416.5	-570.5	412.8	8.91	8.80	-1.76
10,768.6	59.12	171.86	10,595.8	-442.9	-566.8	439.2	9.20	9.18	-0.79
100' Heel Setback @ 10768.6'MD, 100'FNL & 336.9'FWL									
10,782.0	60.35	171.76	10,602.6	-454.3	-565.1	450.7	9.20	9.18	-0.75
10,826.0	63.96	172.11	10,623.2	-492.9	-559.7	489.2	8.23	8.20	0.80
10,871.0	66.90	174.75	10,641.9	-533.5	-555.0	529.9	8.43	6.53	5.87
10,916.0	69.67	174.84	10,658.5	-575.1	-551.2	571.6	6.16	6.16	0.20
10,960.0	70.77	173.34	10,673.4	-616.3	-546.9	612.8	4.07	2.50	-3.41
11,005.0	74.77	173.78	10,686.7	-659.0	-542.1	655.5	8.94	8.89	0.98
11,050.0	79.30	176.59	10,696.8	-702.7	-538.5	699.2	11.76	10.07	6.24
11,094.0	82.20	181.52	10,703.9	-746.1	-537.7	742.6	12.87	6.59	11.20
11,139.0	86.15	183.63	10,708.5	-790.8	-539.8	787.3	9.94	8.78	4.69
11,228.0	88.22	179.67	10,712.8	-879.7	-542.3	876.1	5.02	2.33	-4.45
11,318.0	88.31	177.56	10,715.6	-969.6	-540.1	966.1	2.35	0.10	-2.34
11,407.0	88.62	179.06	10,717.9	-1,058.5	-537.5	1,055.0	1.72	0.35	1.69
11,496.0	87.12	179.67	10,721.3	-1,147.4	-536.5	1,143.9	1.82	-1.69	0.69
11,585.0	87.91	180.73	10,725.1	-1,236.4	-536.8	1,232.9	1.48	0.89	1.19
11,674.0	90.02	181.96	10,726.7	-1,325.3	-538.9	1,321.8	2.74	2.37	1.38
11,763.0	87.60	181.43	10,728.6	-1,414.2	-541.6	1,410.7	2.78	-2.72	-0.60
11,853.0	87.34	180.29	10,732.5	-1,504.1	-542.9	1,500.6	1.30	-0.29	-1.27
11,942.0	89.71	179.06	10,734.8	-1,593.1	-542.4	1,589.6	3.00	2.66	-1.38
12,032.0	90.73	180.81	10,734.5	-1,683.1	-542.3	1,679.6	2.25	1.13	1.94
12,121.0	90.64	180.73	10,733.4	-1,772.1	-543.5	1,768.5	0.14	-0.10	-0.09
12,211.0	91.08	179.23	10,732.1	-1,862.1	-543.5	1,858.5	1.74	0.49	-1.67

Intrepid
Survey Report

Company:	Ascent Energy, LLC	**Local Co-ordinate Reference:**	Well Big Moose Fed Com #506H
Project:	Lea County (NAD 83 NME GN)	**TVD Reference:**	KB @ 3787.9usft (Precision 553)
Site:	(Big Moose) Sec-1_T-21-S_R-34-E	**MD Reference:**	KB @ 3787.9usft (Precision 553)
Well:	Big Moose Fed Com #506H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	AWB	**Database:**	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.0	91.08	180.99	10,730.4	-1,951.1	-543.6	1,947.5	1.98	0.00	1.98
12,389.0	89.85	182.57	10,729.7	-2,040.0	-546.4	2,036.4	2.25	-1.38	1.78
12,479.0	89.01	182.31	10,730.6	-2,129.9	-550.2	2,126.3	0.98	-0.93	-0.29
12,568.0	88.44	180.02	10,732.6	-2,218.9	-552.0	2,215.3	2.65	-0.64	-2.57
12,657.0	87.34	177.74	10,735.8	-2,307.8	-550.3	2,304.2	2.84	-1.24	-2.56
12,747.0	86.33	180.64	10,740.8	-2,397.6	-549.0	2,394.0	3.41	-1.12	3.22
12,836.0	89.41	181.96	10,744.1	-2,486.5	-551.1	2,482.9	3.76	3.46	1.48
12,925.0	90.20	181.87	10,744.4	-2,575.5	-554.0	2,571.8	0.89	0.89	-0.10
13,014.0	89.89	181.69	10,744.3	-2,664.4	-556.8	2,660.8	0.40	-0.35	-0.20
13,104.0	89.71	181.78	10,744.7	-2,754.4	-559.5	2,750.7	0.22	-0.20	0.10
13,193.0	89.49	181.78	10,745.3	-2,843.3	-562.3	2,839.7	0.25	-0.25	0.00
13,282.0	89.19	181.69	10,746.3	-2,932.3	-565.0	2,928.6	0.35	-0.34	-0.10
13,372.0	89.58	179.32	10,747.3	-3,022.3	-565.8	3,018.6	2.67	0.43	-2.63
13,461.0	88.66	178.53	10,748.6	-3,111.3	-564.1	3,107.5	1.36	-1.03	-0.89
13,551.0	87.69	177.74	10,751.5	-3,201.2	-561.2	3,197.5	1.39	-1.08	-0.88
13,640.0	89.63	178.09	10,753.6	-3,290.1	-557.9	3,286.4	2.21	2.18	0.39
13,730.0	89.32	177.47	10,754.4	-3,380.0	-554.5	3,376.4	0.77	-0.34	-0.69
13,819.0	90.99	178.53	10,754.2	-3,468.9	-551.3	3,465.3	2.22	1.88	1.19
13,908.0	90.51	177.65	10,753.0	-3,557.9	-548.4	3,554.3	1.13	-0.54	-0.99
13,998.0	91.21	179.93	10,751.6	-3,647.8	-546.5	3,644.2	2.65	0.78	2.53
14,087.0	91.12	180.11	10,749.8	-3,736.8	-546.5	3,733.2	0.23	-0.10	0.20
14,176.0	91.16	179.32	10,748.1	-3,825.8	-546.1	3,822.2	0.89	0.04	-0.89
14,265.0	90.37	178.79	10,746.9	-3,914.8	-544.6	3,911.2	1.07	-0.89	-0.60
14,354.0	89.80	178.18	10,746.7	-4,003.8	-542.2	4,000.2	0.94	-0.64	-0.69
14,444.0	90.15	179.06	10,746.8	-4,093.7	-540.1	4,090.2	1.05	0.39	0.98
14,533.0	90.51	179.32	10,746.3	-4,182.7	-538.8	4,179.2	0.50	0.40	0.29
14,622.0	87.60	178.44	10,747.7	-4,271.7	-537.1	4,268.1	3.42	-3.27	-0.99
14,711.0	89.14	180.11	10,750.3	-4,360.6	-536.0	4,357.1	2.55	1.73	1.88
14,800.0	89.80	181.16	10,751.1	-4,449.6	-536.9	4,446.1	1.39	0.74	1.18
14,890.0	91.74	181.87	10,749.9	-4,539.6	-539.3	4,536.0	2.30	2.16	0.79
14,979.0	91.47	181.16	10,747.4	-4,628.5	-541.7	4,624.9	0.85	-0.30	-0.80
15,068.0	91.30	180.11	10,745.2	-4,717.5	-542.7	4,713.9	1.19	-0.19	-1.18
15,158.0	90.51	178.97	10,743.8	-4,807.5	-541.9	4,803.9	1.54	-0.88	-1.27
15,247.0	90.02	178.26	10,743.4	-4,896.4	-539.8	4,892.8	0.97	-0.55	-0.80
15,337.0	89.98	178.26	10,743.4	-4,986.4	-537.1	4,982.8	0.04	-0.04	0.00
15,426.0	90.11	177.21	10,743.3	-5,075.3	-533.5	5,071.8	1.19	0.15	-1.18
15,516.0	89.89	178.53	10,743.3	-5,165.3	-530.2	5,161.7	1.49	-0.24	1.47
15,605.0	89.19	179.67	10,744.1	-5,254.2	-528.8	5,250.7	1.50	-0.79	1.28
15,694.0	88.22	179.23	10,746.1	-5,343.2	-527.9	5,339.7	1.20	-1.09	-0.49
15,784.0	88.18	178.70	10,748.9	-5,433.2	-526.3	5,429.6	0.59	-0.04	-0.59
15,873.0	87.78	180.55	10,752.0	-5,522.1	-525.7	5,518.6	2.13	-0.45	2.08
15,962.0	88.53	180.73	10,754.9	-5,611.0	-526.7	5,607.5	0.87	0.84	0.20
16,052.0	87.96	179.93	10,757.7	-5,701.0	-527.2	5,697.5	1.09	-0.63	-0.89

Intrepid
Survey Report

Company:	Ascent Energy, LLC	**Local Co-ordinate Reference:**	Well Big Moose Fed Com #506H
Project:	Lea County (NAD 83 NME GN)	**TVD Reference:**	KB @ 3787.9usft (Precision 553)
Site:	(Big Moose) Sec-1_T-21-S_R-34-E	**MD Reference:**	KB @ 3787.9usft (Precision 553)
Well:	Big Moose Fed Com #506H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	AWB	**Database:**	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,141.0	89.85	180.73	10,759.4	-5,790.0	-527.8	5,786.4	2.31	2.12	0.90
16,231.0	89.93	180.11	10,759.5	-5,880.0	-528.4	5,876.4	0.69	0.09	-0.69
16,320.0	88.35	179.23	10,760.9	-5,969.0	-527.9	5,965.4	2.03	-1.78	-0.99
16,410.0	89.10	181.08	10,762.9	-6,058.9	-528.2	6,055.4	2.22	0.83	2.06
16,499.0	90.20	181.87	10,763.4	-6,147.9	-530.4	6,144.3	1.52	1.24	0.89
16,588.0	89.45	180.90	10,763.7	-6,236.9	-532.6	6,233.3	1.38	-0.84	-1.09
16,678.0	92.40	181.78	10,762.2	-6,326.8	-534.7	6,323.2	3.42	3.28	0.98
16,767.0	92.88	181.78	10,758.1	-6,415.7	-537.5	6,412.1	0.54	0.54	0.00
16,856.0	93.98	180.81	10,752.8	-6,504.5	-539.5	6,500.9	1.65	1.24	-1.09
16,950.0	92.97	181.08	10,747.1	-6,598.3	-541.0	6,594.7	1.11	-1.07	0.29
17,044.0	88.57	179.76	10,745.8	-6,692.3	-541.7	6,688.6	4.89	-4.68	-1.40
17,137.0	87.82	179.57	10,748.8	-6,785.2	-541.2	6,781.6	0.83	-0.81	-0.20
17,176.0	87.91	179.41	10,750.2	-6,824.2	-540.8	6,820.6	0.47	0.23	-0.41
LAST SVY									
17,195.8	87.91	179.41	10,750.9	-6,844.0	-540.6	6,840.3	0.00	0.00	0.00
100' Toe Setback @ 17195.8'MD, 100'FSL & 321.5'FWL									
17,244.0	87.91	179.41	10,752.7	-6,892.1	-540.1	6,888.5	0.00	0.00	0.00
Projection to TD @ 50.9'FSL & 321.7'FWL									

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
FTP (Big Moose Fed (	0.00	0.00	10,699.0	-442.8	-572.0	546,477.60	756,371.65	32° 30' 1.421 N	103° 38' 9.027 W
- actual wellpath misses target center by 91.0usft at 10816.0usft MD (10618.7 TVD, -484.0 N, -560.9 E)									
- Point									
LTP (Big Moose Fed (	0.00	0.01	10,748.0	-6,843.7	-531.2	540,076.66	756,412.46	32° 28' 58.081 N	103° 38' 9.039 W
- actual wellpath misses target center by 9.8usft at 17195.5usft MD (10750.9 TVD, -6843.7 N, -540.6 E)									
- Point									
PBHL (Big Moose Fec	0.00	179.63	10,748.0	-6,893.7	-530.9	540,026.66	756,412.76	32° 28' 57.586 N	103° 38' 9.039 W
- actual wellpath misses target center by 10.4usft at 17244.0usft MD (10752.7 TVD, -6892.1 N, -540.1 E)									
- Rectangle (sides W30.0 H6,451.0 D0.0)									

Intrepid
Survey Report

Company:	Ascent Energy, LLC	**Local Co-ordinate Reference:**	Well Big Moose Fed Com #506H
Project:	Lea County (NAD 83 NME GN)	**TVD Reference:**	KB @ 3787.9usft (Precision 553)
Site:	(Big Moose) Sec-1_T-21-S_R-34-E	**MD Reference:**	KB @ 3787.9usft (Precision 553)
Well:	Big Moose Fed Com #506H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	AWB	**Database:**	EDM 5000.15 Single User Db

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,554.1	1,554.0	Rustler			
1,898.2	1,898.0	Salado			
2,813.6	2,812.0	Base Of Salts			
2,966.8	2,964.0	Castille			
3,098.9	3,094.0	Tansil			
3,223.0	3,216.0	Yates			
3,547.9	3,535.0	Capitan Reef			
5,653.6	5,606.0	Delaware Sands			
5,898.0	5,848.0	Cherry Canyon			
7,120.7	7,070.0	Brushy Canyon			
8,828.8	8,778.0	Bone Spring Lime			
8,967.8	8,917.0	Avalon			
9,167.8	9,117.0	Leo B			
9,695.1	9,644.0	1 BS S			
10,071.0	10,019.0	2BS C			
10,331.1	10,273.0	2BSS			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,768.6	10,595.8	-442.9	-566.8	100' Heel Setback @ 10768.6'MD, 100'FNL & 336.9'FWL
17,176.0	10,750.2	-6,824.2	-540.8	LAST SVY
17,195.8	10,750.9	-6,844.0	-540.6	100' Toe Setback @ 17195.8'MD, 100'FSL & 321.5'FWL
17,244.0	10,752.7	-6,892.1	-540.1	Projection to TD @ 50.9'FSL & 321.7'FWL

Checked By: _____ Approved By: _____ Date: _____

Operator:	Ascent Energy, LLC
Well Name:	Big Moose Fed Com #506H
County:	Lea
State:	New Mexico
Rig Name:	Precision 553
API:	30-025-46547

Intrepid Directional Drilling Specialists certifies that the surveys performed on the above referenced well are true and correct MWD surveys, data provided as follows:

Surveyor:	Intrepid Directional Drilling Specialists
Survey Depths:	169’ MD – 17176’ MD
Projection to Bit:	17244’ MD
Dates Performed:	01/03/2020 – 01/11/2020 & 03/07/2020 – 03/27/2020
Type of Survey:	MWD

Sincerely,

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM92187

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
BIG MOOSE FED COM 506H

2. Name of Operator
ASCENT ENERGY LLC
Contact: BEN METZ
E-Mail: bmetz@ascentenergy.us

9. API Well No.
30-025-46547-00-X1

3a. Address
1125 17TH ST SUITE 410
DENVER, CO 80202

3b. Phone No. (include area code)
Ph: 720-710-8944

10. Field and Pool or Exploratory Area
SALT LAKE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 1 T21S R32E SWSW 308FSL 805FWL
32.501518 N Lat, 103.634300 W Lon

11. County or Parish, State
LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Hydraulic Fracture
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Big Moose Fed Com 506H Completion Data
Geologic Formation MD Contents

Rustler	1554 Anhy
Salado	1898 Salt
Castile	2966 Anhy
Tansil	3098 LMS/SS
Capitan Reef	3547 LMS: Water
Delaware	5722 SS, SH, LMS: Water & Hydrocarbons
Bone Spring Lime	8843 SS, LMS, SH: Hydrocarbons
1st Bone Spring Sand	9714 SS, SH, LMS: Hydrocarbons
2nd Bone Spring Carbonate	10056 SS, SH, LMS: Hydrocarbons

KZ

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #537990 verified by the BLM Well Information System
For ASCENT ENERGY LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 11/30/2020 (21PP0609SE)

Name *(Printed/Typed)* BEN METZ — Title VP OF EXPLORATION

Signature (Electronic Submission) — Date 11/18/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED — Title JONATHON SHEPARD PETROELUM ENGINEER — Date 12/30/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #537990 that would not fit on the form

32. Additional remarks, continued

2nd Bone Spring Sand 10339 SS, SH, LMS: Hydrocarbons

3/31/2020 RIG RELEASED
7/27/2020 MIRU PREP TO FRAC, PRESSURE TEST 5-1/2? CASING TO 9,200 PSI
8/5/2020 BEGIN FRAC OPS.
9/3/2020 FINISH 42 STAGE FRAC PERFORATED HORIZONTAL BONE SPRING FROM 10,775' TO 17,153' AND FRACTURE STIMULATE WELL WITH 14,522,095 LBS OF SAND AND 321,049 BBLS OF WATER AND 15,798 GALLONS 7.5% HCL ACID.
9/7/2020 DRILL OUT PLUGS AND CLEAN OUT WELLBORE
9/10/2020 OPENED WELL TO FLOWBACK

REQUEST FOR OCD EXTENSION OF TIME TO FILE BLM-APPROVED FORM 3160-4

Revisions to Operator-Submitted EC Data for Sundry Notice #537990

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	HF SR	HF SR
Lease:	NMNM092187	NMNM92187
Agreement:		
Operator:	ASCENT ENERGY, LLC PO BOX 270983 LITTLETON, CO 80127 Ph: 303-513-8590	ASCENT ENERGY LLC 1125 17TH ST SUITE 410 DENVER, CO 80202 Ph: 720.524.3449
Admin Contact:	BEN METZ VICE PRESIDENT EXPLORATION E-Mail: bmetz@ascentenergy.us Ph: 303-513-8590	BEN METZ VP OF EXPLORATION E-Mail: bmetz@ascentenergy.us Ph: 720-710-8944
Tech Contact:	BEN METZ VICE PRESIDENT EXPLORATION E-Mail: bmetz@ascentenergy.us Ph: 303-513-8590	BEN METZ VP OF EXPLORATION E-Mail: bmetz@ascentenergy.us Ph: 720-710-8944
Location: State: County:	 NM LEA	 NM LEA
Field/Pool:	BONE SPRING 53560	SALT LAKE
Well/Facility:	BIG MOOSE FED COM 506H Sec 1 T21S R32E Mer NMP SWSW 338FSL 905FWL 32.501601 N Lat, 103.633976 W Lon	BIG MOOSE FED COM 506H Sec 1 T21S R32E SWSW 308FSL 805FWL 32.501518 N Lat, 103.634300 W Lon

99Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
Revised April 3, 2017

1. WELL API NO.
30-025-46547

2. Type of Lease
☐ STATE ☐ FEE ☒ FED/INDIAN

3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

☒ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☐ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name
Big Moose Fed Com

6. Well Number:
506H

7. Type of Completion:
☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____

8. Name of Operator
Ascent Energy, LLC

9. OGRID
325830

10. Address of Operator
P.O. Box 270983
Littleton, CO 80127

11. Pool name or Wildcat
SALT LAKE; BONE SPRING KZ

12.Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	M	1	21 S	32 E		338’	South	905’	West	Lea
BH:	D	13	21 S	32 E		51’	South	321’	West	Lea

13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released	16. Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc.)
12/26/2019	3/18/2020	3/31/2020	9/3/2020	3763’ GR

18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run
17244’	17240’	Yes	

22. Producing Interval(s), of this completion - Top, Bottom, Name
10775’-17153’ Bone Spring

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8”	54.5#	1598’	17.5”	1600 sx	
9-5/8”	40#	3195’	12.25”	980 sx	
7-5/8”	29.7#	5590’	8.75”	365 sx	
5-1/2”	20#	17240’	6.75”	815 sx	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)
10775’-17153’

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
10775’-17153’	321,049 bbls water 15,798 gallons 7.5% HCL acid 14,522,095 lbs proppant
	*See Frac Focus

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*
9/14/2020	Flowing	Producing

Date of Test	Hours Tested	Choke Size	Prod’n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
9/21/2020	24 hr	42/64		886	714	5279	806

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*
	820psi					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
Sold

30. Test Witnessed By
M. Villanueva

31. List Attachments
As-Drilled C102, Certified Final Directional Survey, C104

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

33. Rig Release Date:
3/31/2020

34. If an on-site burial was used at the well, report the exact location of the on-site burial:
Latitude Longitude NAD83

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature W Ben Metz electronic signature
Printed Name: Ben Metz Title: VP Exploration Date: 11/12/2020
E-mail Address: bmetz@ascentenergy.us

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy_____	T. Canyon_____	T. Ojo Alamo_____	T. Penn A"_____
T. Salt_____1898'	T. Strawn_____	T. Kirtland _____	T. Penn. "B"_____
B. Salt_____2813'	T. Atoka_____	T. Fruitland_____	T. Penn. "C"_____
T. Yates_____3222'	T. Miss_____	T. Pictured Cliffs_____	T. Penn. "D"_____
T. 7 Rivers_____	T. Devonian_____	T. Cliff House_____	T. Leadville_____
T. Queen_____	T. Silurian_____	T. Menefee_____	T. Madison_____
T. Grayburg_____	T. Montoya_____	T. Point Lookout_____	T. Elbert_____
T. San Andres_____	T. Simpson_____	T. Mancos_____	T. McCracken_____
T. Glorieta_____	T. McKee_____	T. Gallup_____	T. Ignacio Otzte_____
T. Paddock_____	T. Ellenburger_____	Base Greenhorn_____	T.Granite _____
T. Blinebry_____	T. Gr. Wash_____	T. Dakota_____	
T.Tubb_____	T. Delaware Sand_____5722'	T. Morrison_____	
T. Drinkard_____	T. Bone Spring_____8843'	T.Todilto_____	
T. Abo_____	T.Rustler_____ 1554'_	T. Entrada_____	
T. Wolfcamp_____'	T._1st Bone Spring __ 9714'	T. Wingate_____	
T. Penn_____	T._2nd Bone Spring___10056'	T. Chinle_____	
T. Cisco (Bough C)_____	T._ 3rd Bone Spring_____	T. Permian_____	

OIL OR GAS SANDS OR ZONES

No. 1, from……to……. No. 3, from……to……

No. 2, from……to……. No. 4, from……to…….

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from……to……feet……

No. 2, from……to……feet……

No. 3, from……to……feet……

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology		From	To	Thickness In Feet	Lithology

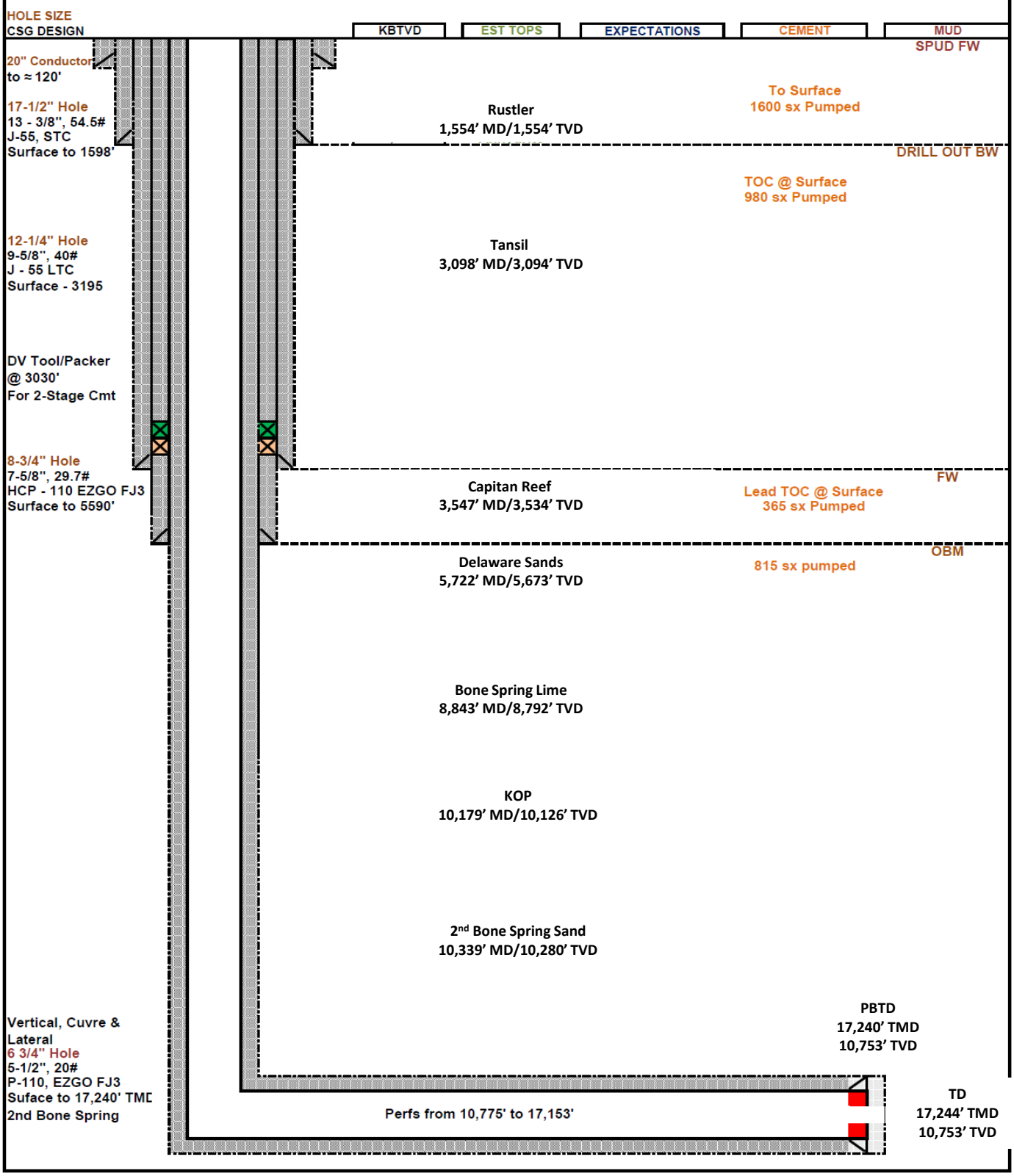
ASCENT ENERGY

WELL NAME:	Big Moose Fed Com
WELL NO.:	506H
FIELD:	Hat Mesa
SH LOCATION:	
BH LOCATION:	
LEGAL:	Sec 1 - T21S - R32E

RIG:	Precision 553
COUNTY:	Lea
SPUD DATE:	12/26/2019
DRAWN BY:	Gema Volek
DATE:	2/10/2021
PLAN #:	5

API #:	30-025-46547
PERMIT #	NA
STATE:	New Mexico
Gound Elevation:	3763'
Floor Height:	25
Total KB:	25

Big Moose Fed Com 506H As Drilled WBD



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos 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

CONDITIONS

Action 20584

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
ASCENT ENERGY, LLC. 1125 17th St Suite 410 Denver, CO80202	325830	20584	C-104C

OCD Reviewer	Condition
plmartinez	None