

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**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.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

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	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ 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 recompleat 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 recompleat 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 detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSE / 245 FSL / 1743 FEL / TWSP: 20S / RANGE: 33E / SECTION: 33 / LAT: 32.52302 / LONG: -103.665319 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 2310 FEL / TWSP: 20S / RANGE: 33E / SECTION: 33 / LAT: 32.522622 / LONG: -103.667159 (TVD: 11240 feet, MD: 11354 feet)

PPP: SWSE / 0 FSL / 2310 FEL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.53686 / LONG: -103.667165 (TVD: 11398 feet, MD: 16574 feet)

PPP: NWSE / 1320 FSL / 2311 FEL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.540488 / LONG: -103.667166 (TVD: 11399 feet, MD: 17895 feet)

PPP: SWNE / 2640 FNL / 2311 FEL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.544117 / LONG: -103.667168 (TVD: 11400 feet, MD: 19215 feet)

PPP: NWNE / 1320 FNL / 2310 FEL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.547744 / LONG: -103.66717 (TVD: 11400 feet, MD: 20535 feet)

BHL: NWNE / 50 FNL / 2310 FEL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.551234 / LONG: -103.66717 (TVD: 11401 feet, MD: 21804 feet)

CONFIDENTIAL

District I

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

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

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

District IV

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

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name GAVILON FED COM	⁶ Well Number 604H
⁷ OGRID No. 325830	⁸ Operator Name ASCENT ENERGY, LLC.	⁹ Elevation 3,673'

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
O	33	20 S	33 E		245	SOUTH	1,743	EAST	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
B	28	20 S	33 E		50	NORTH	2,310	EAST	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.

	SHL (NAD83 NME) Y = 554,650.9 X = 747,231.7 LAT. = 32.523020 °N LONG. = 103.665319 °W FTP (NAD83 NME) Y = 554,502.4 X = 746,665.7 LAT. = 32.522622 °N LONG. = 103.667159 °W CORNER COORDINATES (NAD83 NME) A - Y = 564,960.1 N , X = 746,261.4 E B - Y = 562,320.6 N , X = 746,278.9 E C - Y = 559,680.3 N , X = 746,296.5 E D - Y = 557,040.9 N , X = 746,313.9 E E - Y = 554,400.4 N , X = 746,331.3 E F - Y = 554,408.4 N , X = 747,653.8 E G - Y = 557,048.2 N , X = 747,636.5 E H - Y = 559,687.5 N , X = 747,618.9 E I - Y = 562,327.4 N , X = 747,601.6 E J - Y = 564,967.0 N , X = 747,584.1 E SHL (NAD27 NME) Y = 554,589.8 X = 706,051.0 LAT. = 32.522900 °N LONG. = 103.664826 °W FTP (NAD27 NME) Y = 554,441.4 X = 705,484.9 LAT. = 32.522502 °N LONG. = 103.666666 °W CORNER COORDINATES (NAD27 NME) A - Y = 564,898.8 N , X = 705,081.1 E B - Y = 562,259.4 N , X = 705,098.5 E C - Y = 559,619.1 N , X = 705,115.9 E D - Y = 556,979.8 N , X = 705,133.2 E E - Y = 554,339.3 N , X = 705,150.5 E F - Y = 554,347.3 N , X = 706,473.0 E G - Y = 556,987.1 N , X = 706,455.8 E H - Y = 559,626.3 N , X = 706,438.4 E I - Y = 562,266.2 N , X = 706,421.1 E J - Y = 564,905.7 N , X = 706,403.7 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 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. <i>W Ben Metz</i> 11-16-2021 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. 11-16-2021 Date of Survey Signature and Seal of Professional Surveyor: <i>MARK DILLON HARP</i> MARK DILLON HARP 23786 Certificate Number RR 2018010138

ASCENT ENERGY

**LEA COUNTY, NEW MEXICO (NAD 83) (GRID)
SEC. 33 T20S R33E N.M.P.M. (GRID)
GAVILON FED COM 604H**

ORIGINAL WELLBORE

16 November, 2021

Plan: PROPOSAL #1





Project: LEA COUNTY, NEW MEXICO (NAD 83) (GRID)
Site: SEC. 33 T20S R33E N.M.P.M. (GRID)
Well: GAVILON FED COM 604H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 245ft FSL & 1743ft FEL of Sec 28
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2800.00	12.00	239.74	2795.62	-31.55	-54.07	-31.19	62.60	EOB TO 12° INC
5340.50	11.86	239.74	5280.61	-297.73	-510.29	-294.34	590.72	END OF TANGENT
5940.50	0.00	0.00	5876.38	-328.54	-563.11	-324.80	651.95	EOD TO VERTICAL
10887.31	0.00	359.62	10823.19	-328.54	-563.11	-324.80	651.95	KOP (10°/100ft BUR)
11354.30	46.71	359.62	11240.12	-148.43	-564.30	-144.68	832.18	FTP: 100ft FSL & 2310ft FEL of Sec 33
11787.01	89.97	359.62	11396.00	244.25	-566.91	248.01	1224.76	HZ LP: 492.65ft FSL & 2310ft FEL of Sec 33
21754.32	89.97	359.63	11400.98	10211.35	-632.46	10215.32	11192.07	LTP: 100ft FNL & 2310ft FEL of Sec 28
21804.16	89.97	359.63	11401.00	10261.19	-632.79	10265.16	11241.91	BHL: 50ft FNL & 2310ft FEL of Sec 28

PROPOSED LOCAL COORDINATES:

SHL: 245ft FSL & 1743ft FEL of Sec 33

FTP: 100ft FSL & 2310ft FEL of Sec 33

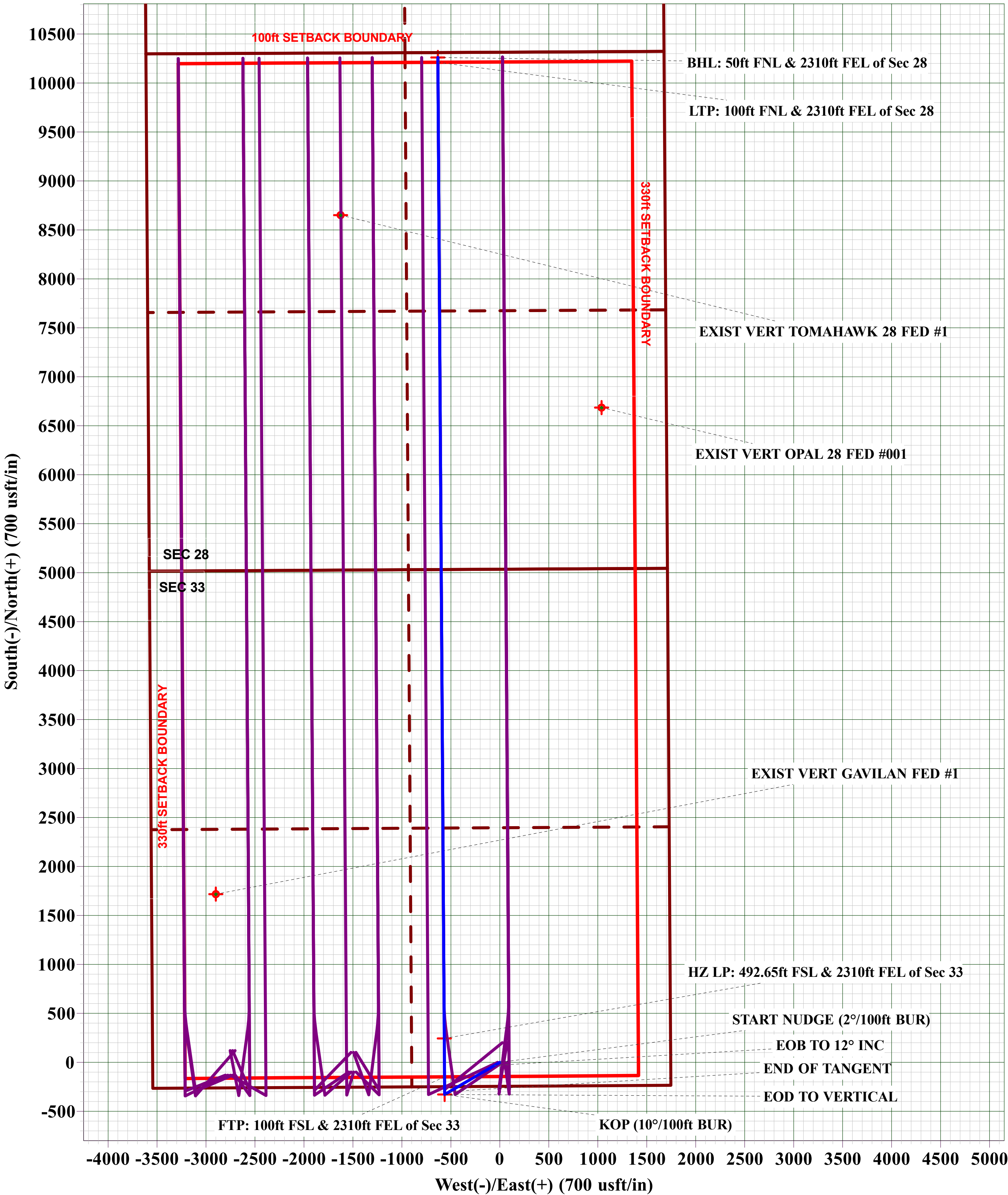
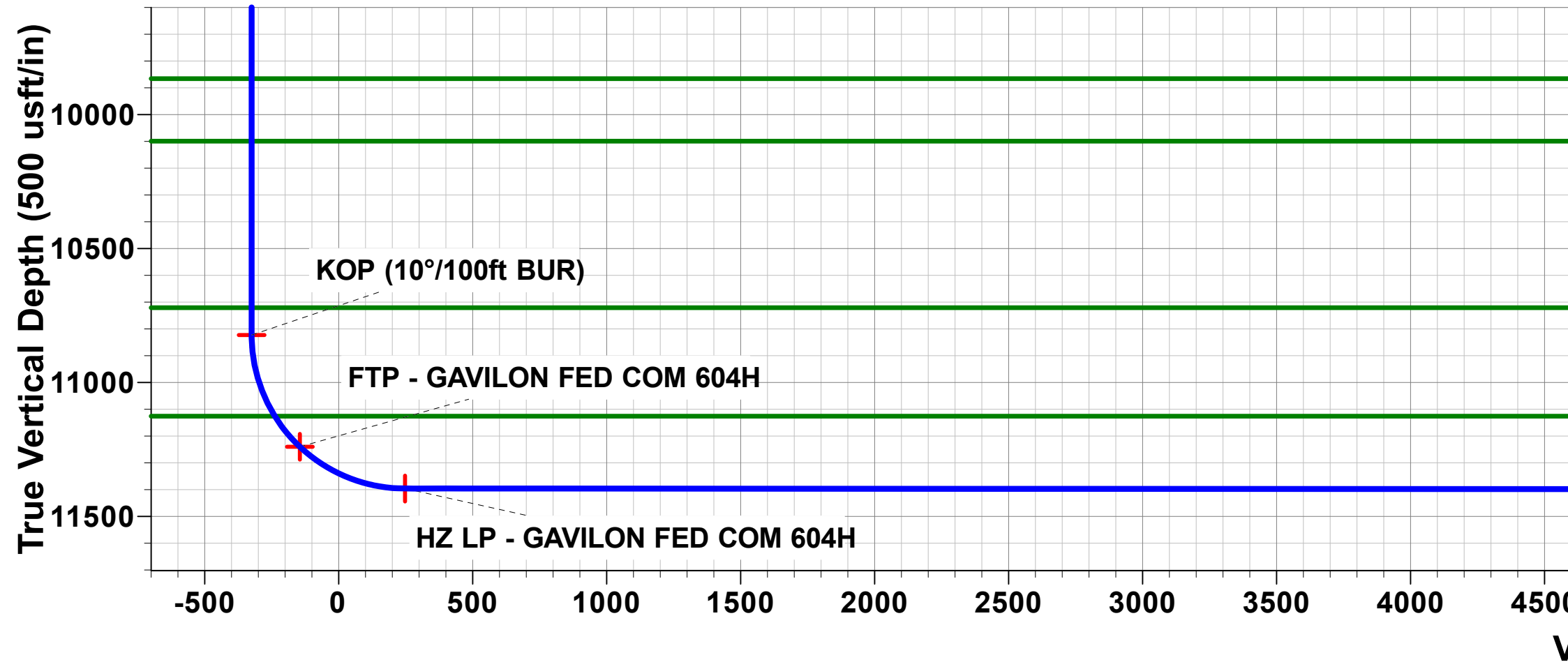
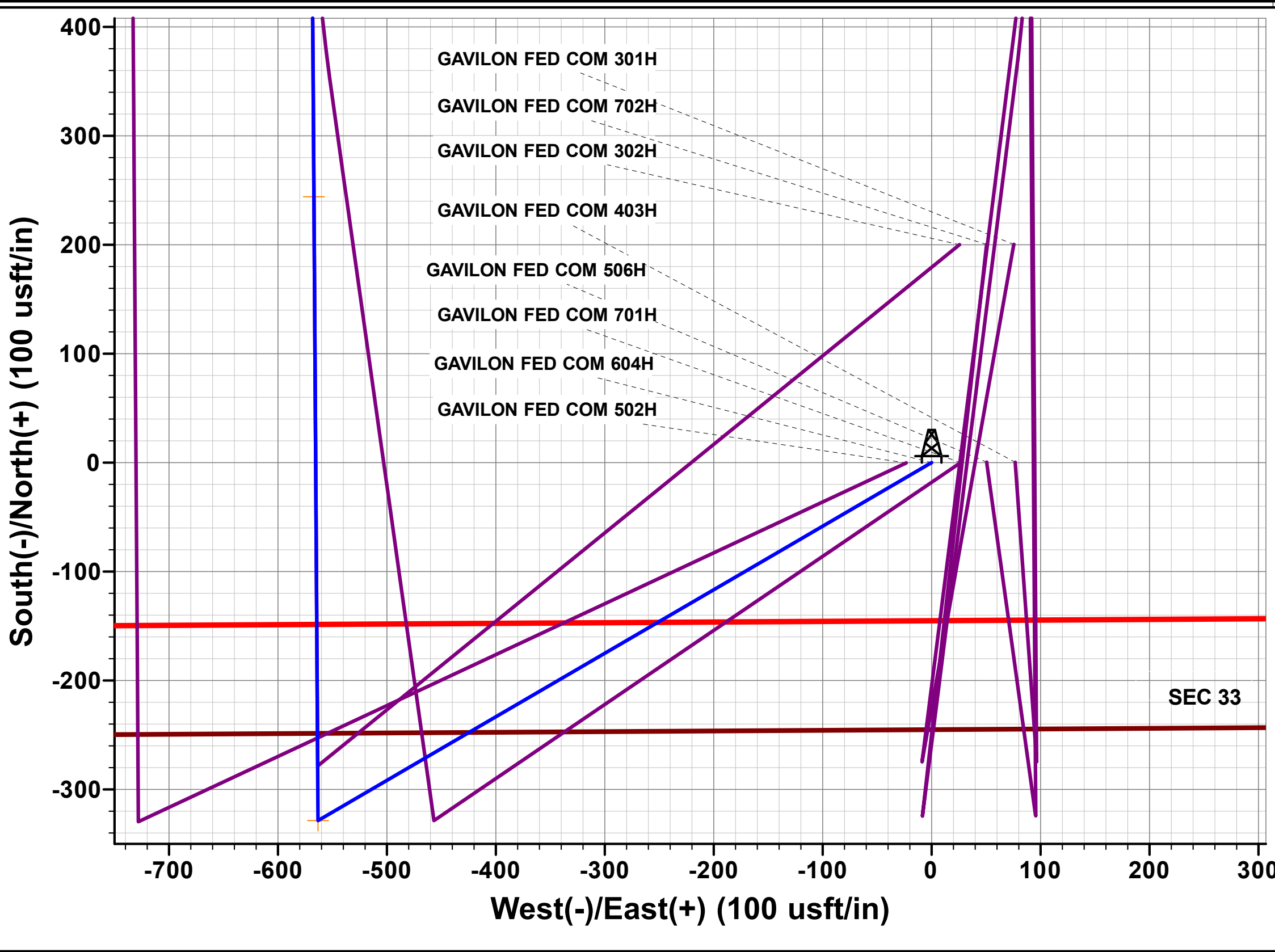
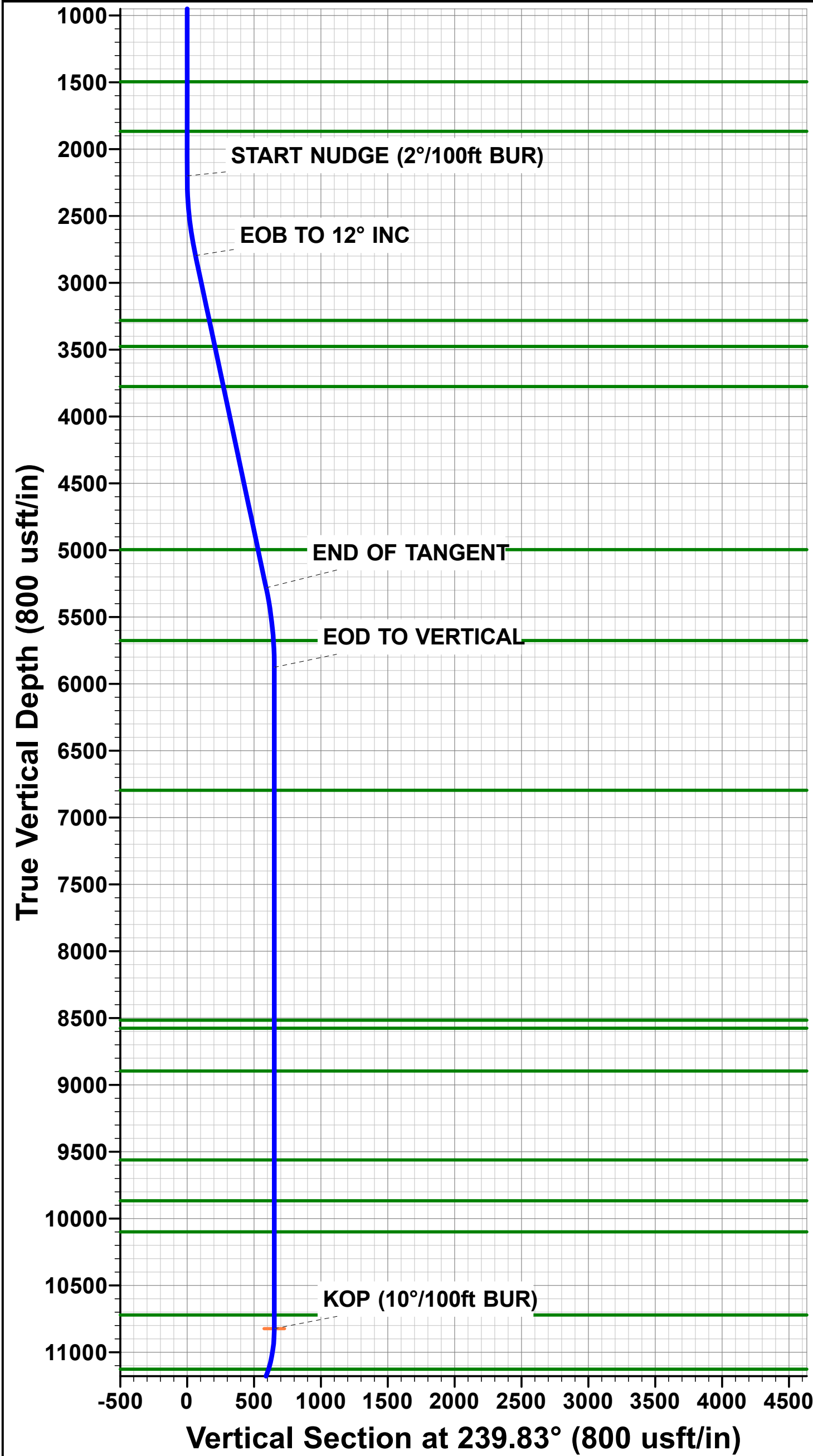
HZ LP: 492.65ft FSL & 2310ft FEL of Sec 33

LTP: 100ft FNL & 2310ft FEL of Sec 28

BHL: 50ft FNL & 2310ft FEL of Sec 28

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - GAVILON FED COM 604H	10823.04	-328.54	-563.11	32.522127	-103.667159
FTP - GAVILON FED COM 604H	11240.01	-148.55	-564.30	32.522622	-103.667159
HZ LP - GAVILON FED COM 604H	11396.00	244.11	-566.91	32.523701	-103.667160
LTP - GAVILON FED COM 604H	11400.98	10211.20	-632.46	32.551097	-103.667170
BHL - GAVILON FED COM 604H	11401.00	10261.19	-632.79	32.551234	-103.667170



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 604H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3696.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3696.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Project	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	SEC. 33 T20S R33E N.M.P.M. (GRID)		
Site Position:		Northing:	554,744.90 usft
From:	Map	Easting:	744,451.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	1.10 ft
		Latitude:	32.523326
		Longitude:	-103.674337
		Grid Convergence:	0.35 °

Well	GAVILON FED COM 604H		
Well Position	+N/-S	-94.00 usft	Northing: 554,650.90 usft
	+E/-W	2,778.42 usft	Easting: 747,229.90 usft
Position Uncertainty		0.00 usft	Wellhead Elevation: usft
			Latitude: 32.523021
			Longitude: -103.665325
			Ground Level: 3,671.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2020-03-19	6.76	60.20	47,788.82155955

Design	PROPOSAL #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.62	

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	-3,696.00	0.00	0.00	0.0000	0.0000	0.0000	0.00	
2,200.00	0.00	0.00	2,200.00	-1,496.00	0.00	0.00	0.0000	0.0000	0.0000	0.00	
2,800.00	12.00	239.74	2,795.62	-900.38	-31.55	-54.07	2.0000	2.0000	0.0000	239.74	
5,333.49	12.00	239.74	5,273.75	1,577.75	-297.00	-509.04	0.0000	0.0000	0.0000	0.00	
5,933.49	0.00	0.00	5,869.37	2,173.37	-328.54	-563.11	2.0000	-2.0000	0.0000	180.00	
10,887.16	0.00	0.00	10,823.04	7,127.04	-328.54	-563.11	0.0000	0.0000	0.0000	0.00	KOP - GAVILON FE
11,786.86	89.97	359.62	11,396.00	7,700.00	244.10	-566.91	10.0000	10.0000	0.0000	359.62	
21,804.16	89.97	359.63	11,401.00	7,705.00	10,261.19	-632.79	0.0001	0.0000	0.0001	66.50	BHL - GAVILON FE

Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 604H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3696.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3696.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHL: 245ft FSL & 1743ft FEL of Sec 28										
0.00	0.00	0.00	0.00	3,696.00	0.00	0.00	0.00	0.0000	0.00	0.00
100.00	0.00	0.00	100.00	3,596.00	0.00	0.00	0.00	0.0000	0.00	0.00
200.00	0.00	0.00	200.00	3,496.00	0.00	0.00	0.00	0.0000	0.00	0.00
300.00	0.00	0.00	300.00	3,396.00	0.00	0.00	0.00	0.0000	0.00	0.00
400.00	0.00	0.00	400.00	3,296.00	0.00	0.00	0.00	0.0000	0.00	0.00
500.00	0.00	0.00	500.00	3,196.00	0.00	0.00	0.00	0.0000	0.00	0.00
600.00	0.00	0.00	600.00	3,096.00	0.00	0.00	0.00	0.0000	0.00	0.00
700.00	0.00	0.00	700.00	2,996.00	0.00	0.00	0.00	0.0000	0.00	0.00
800.00	0.00	0.00	800.00	2,896.00	0.00	0.00	0.00	0.0000	0.00	0.00
900.00	0.00	0.00	900.00	2,796.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,000.00	0.00	0.00	1,000.00	2,696.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,100.00	0.00	0.00	1,100.00	2,596.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,200.00	0.00	0.00	1,200.00	2,496.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,300.00	0.00	0.00	1,300.00	2,396.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,400.00	0.00	0.00	1,400.00	2,296.00	0.00	0.00	0.00	0.0000	0.00	0.00
RSTLR										
1,496.00	0.00	0.00	1,496.00	2,200.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,500.00	0.00	0.00	1,500.00	2,196.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,600.00	0.00	0.00	1,600.00	2,096.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,700.00	0.00	0.00	1,700.00	1,996.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,800.00	0.00	0.00	1,800.00	1,896.00	0.00	0.00	0.00	0.0000	0.00	0.00
SALDO										
1,866.00	0.00	0.00	1,866.00	1,830.00	0.00	0.00	0.00	0.0000	0.00	0.00
1,900.00	0.00	0.00	1,900.00	1,796.00	0.00	0.00	0.00	0.0000	0.00	0.00
2,000.00	0.00	0.00	2,000.00	1,696.00	0.00	0.00	0.00	0.0000	0.00	0.00
2,100.00	0.00	0.00	2,100.00	1,596.00	0.00	0.00	0.00	0.0000	0.00	0.00
START NUDGE (2°/100ft BUR)										
2,200.00	0.00	0.00	2,200.00	1,496.00	0.00	0.00	0.00	0.0000	0.00	0.00
2,300.00	2.00	239.74	2,299.98	1,396.02	-0.88	-1.51	-0.87	2.0000	2.00	0.00
2,400.00	4.00	239.74	2,399.84	1,296.16	-3.52	-6.03	-3.48	2.0000	2.00	0.00
2,500.00	6.00	239.74	2,499.45	1,196.55	-7.91	-13.56	-7.82	2.0000	2.00	0.00
2,600.00	8.00	239.74	2,598.70	1,097.30	-14.05	-24.08	-13.89	2.0000	2.00	0.00
2,700.00	10.00	239.74	2,697.47	998.53	-21.93	-37.59	-21.68	2.0000	2.00	0.00
EOB TO 12° INC										
2,800.00	12.00	239.74	2,795.62	900.38	-31.55	-54.07	-31.19	2.0000	2.00	0.00
2,900.00	12.00	239.74	2,893.44	802.56	-42.03	-72.03	-41.55	0.0000	0.00	0.00
3,000.00	12.00	239.74	2,991.25	704.75	-52.50	-89.99	-51.91	0.0000	0.00	0.00
3,100.00	12.00	239.74	3,089.07	606.93	-62.98	-107.95	-62.26	0.0000	0.00	0.00
3,200.00	12.00	239.74	3,186.88	509.12	-73.46	-125.90	-72.62	0.0000	0.00	0.00
TANSIL										
3,296.22	12.00	239.74	3,281.00	415.00	-83.54	-143.18	-82.59	0.0000	0.00	0.00
3,300.00	12.00	239.74	3,284.70	411.30	-83.94	-143.86	-82.98	0.0000	0.00	0.00
3,400.00	12.00	239.74	3,382.51	313.49	-94.41	-161.82	-93.34	0.0000	0.00	0.00
YATES										
3,495.58	12.00	239.74	3,476.00	220.00	-104.43	-178.98	-103.24	0.0000	0.00	0.00
3,500.00	12.00	239.74	3,480.33	215.67	-104.89	-179.78	-103.70	0.0000	0.00	0.00
3,600.00	12.00	239.74	3,578.14	117.86	-115.37	-197.74	-114.05	0.0000	0.00	0.00
3,700.00	12.00	239.74	3,675.96	20.04	-125.85	-215.69	-124.41	0.0000	0.00	0.00
3,800.00	12.00	239.74	3,773.77	-77.77	-136.32	-233.65	-134.77	0.0000	0.00	0.00
CAPITAN_REEF_TOP										
3,802.28	12.00	239.74	3,776.00	-80.00	-136.56	-234.06	-135.01	0.0000	0.00	0.00

Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 604H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3696.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3696.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.00	12.00	239.74	3,871.59	-175.59	-146.80	-251.61	-145.13	0.0000	0.00	0.00
4,000.00	12.00	239.74	3,969.40	-273.40	-157.28	-269.57	-155.49	0.0000	0.00	0.00
4,100.00	12.00	239.74	4,067.22	-371.22	-167.76	-287.53	-165.85	0.0000	0.00	0.00
4,200.00	12.00	239.74	4,165.03	-469.03	-178.23	-305.49	-176.20	0.0000	0.00	0.00
4,300.00	12.00	239.74	4,262.84	-566.84	-188.71	-323.44	-186.56	0.0000	0.00	0.00
4,400.00	12.00	239.74	4,360.66	-664.66	-199.19	-341.40	-196.92	0.0000	0.00	0.00
4,500.00	12.00	239.74	4,458.47	-762.47	-209.67	-359.36	-207.28	0.0000	0.00	0.00
4,600.00	12.00	239.74	4,556.29	-860.29	-220.14	-377.32	-217.64	0.0000	0.00	0.00
4,700.00	12.00	239.74	4,654.10	-958.10	-230.62	-395.28	-228.00	0.0000	0.00	0.00
4,800.00	12.00	239.74	4,751.92	-1,055.92	-241.10	-413.23	-238.35	0.0000	0.00	0.00
4,900.00	12.00	239.74	4,849.73	-1,153.73	-251.58	-431.19	-248.71	0.0000	0.00	0.00
5,000.00	12.00	239.74	4,947.55	-1,251.55	-262.05	-449.15	-259.07	0.0000	0.00	0.00
TOP DELAWARE SAND										
5,049.53	12.00	239.74	4,996.00	-1,300.00	-267.24	-458.05	-264.20	0.0000	0.00	0.00
5,100.00	12.00	239.74	5,045.36	-1,349.36	-272.53	-467.11	-269.43	0.0000	0.00	0.00
5,200.00	12.00	239.74	5,143.18	-1,447.18	-283.01	-485.07	-279.79	0.0000	0.00	0.00
5,300.00	12.00	239.74	5,240.99	-1,544.99	-293.49	-503.02	-290.14	0.0000	0.00	0.00
5,333.49	12.00	239.74	5,273.75	-1,577.75	-297.00	-509.04	-293.61	0.0000	0.00	0.00
END OF TANGENT										
5,340.50	11.86	239.74	5,280.61	-1,584.61	-297.73	-510.29	-294.34	2.0000	-2.00	0.00
5,400.00	10.67	239.74	5,338.96	-1,642.96	-303.58	-520.33	-300.13	2.0000	-2.00	0.00
5,500.00	8.67	239.74	5,437.54	-1,741.54	-312.05	-534.84	-308.49	2.0000	-2.00	0.00
5,600.00	6.67	239.74	5,536.64	-1,840.64	-318.77	-546.36	-315.14	2.0000	-2.00	0.00
5,700.00	4.67	239.74	5,636.14	-1,940.14	-323.75	-554.90	-320.06	2.0000	-2.00	0.00
CHERRY CANYON										
5,739.97	3.87	239.74	5,676.00	-1,980.00	-325.25	-557.47	-321.55	2.0000	-2.00	0.00
5,800.00	2.67	239.74	5,735.93	-2,039.93	-326.98	-560.42	-323.25	2.0000	-2.00	0.00
5,900.00	0.67	239.74	5,835.88	-2,139.88	-328.45	-562.94	-324.70	2.0000	-2.00	0.00
5,933.49	0.00	0.00	5,869.37	-2,173.37	-328.54	-563.11	-324.80	2.0000	-2.00	0.00
EOD TO VERTICAL										
5,940.50	0.00	0.00	5,876.38	-2,180.38	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,000.00	0.00	0.00	5,935.88	-2,239.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,100.00	0.00	0.00	6,035.88	-2,339.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,200.00	0.00	0.00	6,135.88	-2,439.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,300.00	0.00	0.00	6,235.88	-2,539.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,400.00	0.00	0.00	6,335.88	-2,639.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,500.00	0.00	0.00	6,435.88	-2,739.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,600.00	0.00	0.00	6,535.88	-2,839.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,700.00	0.00	0.00	6,635.88	-2,939.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,800.00	0.00	0.00	6,735.88	-3,039.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
BRUSHY CANYON										
6,860.12	0.00	0.00	6,796.00	-3,100.00	-328.54	-563.11	-324.80	0.0000	0.00	0.00
6,900.00	0.00	0.00	6,835.88	-3,139.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
7,000.00	0.00	0.00	6,935.88	-3,239.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
7,100.00	0.00	0.00	7,035.88	-3,339.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
7,200.00	0.00	0.00	7,135.88	-3,439.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
7,300.00	0.00	0.00	7,235.88	-3,539.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
7,400.00	0.00	0.00	7,335.88	-3,639.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
7,500.00	0.00	0.00	7,435.88	-3,739.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
7,600.00	0.00	0.00	7,535.88	-3,839.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
7,700.00	0.00	0.00	7,635.88	-3,939.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
7,800.00	0.00	0.00	7,735.88	-4,039.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00

Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 604H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3696.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3696.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,900.00	0.00	0.00	7,835.88	-4,139.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,000.00	0.00	0.00	7,935.88	-4,239.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,100.00	0.00	0.00	8,035.88	-4,339.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,200.00	0.00	0.00	8,135.88	-4,439.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,300.00	0.00	0.00	8,235.88	-4,539.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,400.00	0.00	0.00	8,335.88	-4,639.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,500.00	0.00	0.00	8,435.88	-4,739.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
BSPG_LIME										
8,580.12	0.00	0.00	8,516.00	-4,820.00	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,600.00	0.00	0.00	8,535.88	-4,839.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
AVLN										
8,640.12	0.00	0.00	8,576.00	-4,880.00	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,700.00	0.00	0.00	8,635.88	-4,939.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,800.00	0.00	0.00	8,735.88	-5,039.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
8,900.00	0.00	0.00	8,835.88	-5,139.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
LEONARD_B										
8,960.12	0.00	0.00	8,896.00	-5,200.00	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,000.00	0.00	0.00	8,935.88	-5,239.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,100.00	0.00	0.00	9,035.88	-5,339.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,200.00	0.00	0.00	9,135.88	-5,439.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,300.00	0.00	0.00	9,235.88	-5,539.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,400.00	0.00	0.00	9,335.88	-5,639.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,500.00	0.00	0.00	9,435.88	-5,739.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,600.00	0.00	0.00	9,535.88	-5,839.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
1ST_BSPG_SND										
9,625.12	0.00	0.00	9,561.00	-5,865.00	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,700.00	0.00	0.00	9,635.88	-5,939.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,800.00	0.00	0.00	9,735.88	-6,039.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
9,900.00	0.00	0.00	9,835.88	-6,139.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
2ND_BSPG										
9,930.12	0.00	0.00	9,866.00	-6,170.00	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,000.00	0.00	0.00	9,935.88	-6,239.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,100.00	0.00	0.00	10,035.88	-6,339.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
2ND_BSPG_SND										
10,163.12	0.00	0.00	10,099.00	-6,403.00	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,200.00	0.00	0.00	10,135.88	-6,439.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,300.00	0.00	0.00	10,235.88	-6,539.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,400.00	0.00	0.00	10,335.88	-6,639.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,500.00	0.00	0.00	10,435.88	-6,739.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,600.00	0.00	0.00	10,535.88	-6,839.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,700.00	0.00	0.00	10,635.88	-6,939.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
3RD_BSPG										
10,785.12	0.00	0.00	10,721.00	-7,025.00	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,800.00	0.00	0.00	10,735.88	-7,039.88	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,887.16	0.00	0.00	10,823.04	-7,127.04	-328.54	-563.11	-324.80	0.0000	0.00	0.00
KOP (10°/100ft BUR)										
10,887.31	0.00	359.62	10,823.19	-7,127.19	-328.54	-563.11	-324.80	0.0000	0.00	0.00
10,900.00	1.28	359.62	10,835.88	-7,139.88	-328.40	-563.11	-324.66	10.1207	10.12	0.00
11,000.00	11.28	359.62	10,935.16	-7,239.16	-317.47	-563.18	-313.73	10.0000	10.00	0.00
11,100.00	21.28	359.62	11,031.02	-7,335.02	-289.46	-563.37	-285.72	10.0000	10.00	0.00
11,200.00	31.28	359.62	11,120.57	-7,424.57	-245.24	-563.66	-241.49	10.0000	10.00	0.00
3RD BSPG S										

Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 604H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3696.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3696.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,206.38	31.92	359.62	11,126.00	-7,430.00	-241.90	-563.68	-238.15	10.0000	10.00	0.00
11,300.00	41.28	359.62	11,201.08	-7,505.08	-186.14	-564.05	-182.39	10.0000	10.00	0.00
FTP: 100ft FSL & 2310ft FEL of Sec 33										
11,354.30	46.71	359.62	11,240.12	-7,544.12	-148.43	-564.30	-144.68	10.0000	10.00	0.00
11,400.00	51.28	359.62	11,270.10	-7,574.10	-113.95	-564.53	-110.20	10.0000	10.00	0.00
11,500.00	61.28	359.62	11,325.53	-7,629.53	-30.88	-565.08	-27.13	10.0000	10.00	0.00
11,600.00	71.28	359.62	11,365.70	-7,669.70	60.56	-565.69	64.31	10.0000	10.00	0.00
11,700.00	81.28	359.62	11,389.38	-7,693.38	157.58	-566.33	161.33	10.0000	10.00	0.00
11,786.86	89.97	359.62	11,396.00	-7,700.00	244.10	-566.91	247.86	10.0000	10.00	0.00
HZ LP: 492.65ft FSL & 2310ft FEL of Sec 33										
11,787.01	89.97	359.62	11,396.00	-7,700.00	244.25	-566.91	248.01	0.0000	0.00	0.00
11,800.00	89.97	359.62	11,396.00	-7,700.00	257.24	-567.00	261.00	0.0000	0.00	0.00
11,900.00	89.97	359.62	11,396.06	-7,700.06	357.24	-567.66	361.00	0.0001	0.00	0.00
12,000.00	89.97	359.62	11,396.11	-7,700.11	457.24	-568.32	461.00	0.0001	0.00	0.00
12,100.00	89.97	359.62	11,396.16	-7,700.16	557.24	-568.98	561.00	0.0001	0.00	0.00
12,200.00	89.97	359.62	11,396.21	-7,700.21	657.24	-569.65	661.00	0.0001	0.00	0.00
12,300.00	89.97	359.62	11,396.27	-7,700.27	757.23	-570.31	761.00	0.0001	0.00	0.00
12,400.00	89.97	359.62	11,396.32	-7,700.32	857.23	-570.97	861.00	0.0001	0.00	0.00
12,500.00	89.97	359.62	11,396.37	-7,700.37	957.23	-571.63	961.00	0.0001	0.00	0.00
12,600.00	89.97	359.62	11,396.42	-7,700.42	1,057.23	-572.30	1,061.00	0.0001	0.00	0.00
12,700.00	89.97	359.62	11,396.47	-7,700.47	1,157.22	-572.96	1,161.00	0.0001	0.00	0.00
12,800.00	89.97	359.62	11,396.53	-7,700.53	1,257.22	-573.62	1,261.00	0.0001	0.00	0.00
12,900.00	89.97	359.62	11,396.58	-7,700.58	1,357.22	-574.28	1,361.00	0.0001	0.00	0.00
13,000.00	89.97	359.62	11,396.63	-7,700.63	1,457.22	-574.95	1,461.00	0.0001	0.00	0.00
13,100.00	89.97	359.62	11,396.68	-7,700.68	1,557.22	-575.61	1,561.00	0.0001	0.00	0.00
13,200.00	89.97	359.62	11,396.73	-7,700.73	1,657.21	-576.27	1,661.00	0.0001	0.00	0.00
13,300.00	89.97	359.62	11,396.78	-7,700.78	1,757.21	-576.93	1,761.00	0.0001	0.00	0.00
13,400.00	89.97	359.62	11,396.84	-7,700.84	1,857.21	-577.59	1,861.00	0.0001	0.00	0.00
13,500.00	89.97	359.62	11,396.89	-7,700.89	1,957.21	-578.25	1,961.00	0.0001	0.00	0.00
13,600.00	89.97	359.62	11,396.94	-7,700.94	2,057.20	-578.92	2,061.00	0.0001	0.00	0.00
13,700.00	89.97	359.62	11,396.99	-7,700.99	2,157.20	-579.58	2,161.00	0.0001	0.00	0.00
13,800.00	89.97	359.62	11,397.04	-7,701.04	2,257.20	-580.24	2,261.00	0.0001	0.00	0.00
13,900.00	89.97	359.62	11,397.09	-7,701.09	2,357.20	-580.90	2,361.00	0.0001	0.00	0.00
14,000.00	89.97	359.62	11,397.14	-7,701.14	2,457.20	-581.56	2,461.00	0.0001	0.00	0.00
14,100.00	89.97	359.62	11,397.20	-7,701.20	2,557.19	-582.22	2,561.00	0.0001	0.00	0.00
14,200.00	89.97	359.62	11,397.25	-7,701.25	2,657.19	-582.88	2,661.00	0.0001	0.00	0.00
14,300.00	89.97	359.62	11,397.30	-7,701.30	2,757.19	-583.54	2,761.00	0.0001	0.00	0.00
14,400.00	89.97	359.62	11,397.35	-7,701.35	2,857.19	-584.20	2,861.00	0.0001	0.00	0.00
14,500.00	89.97	359.62	11,397.40	-7,701.40	2,957.18	-584.86	2,961.00	0.0001	0.00	0.00
14,600.00	89.97	359.62	11,397.45	-7,701.45	3,057.18	-585.52	3,061.00	0.0001	0.00	0.00
14,700.00	89.97	359.62	11,397.50	-7,701.50	3,157.18	-586.18	3,161.00	0.0001	0.00	0.00
14,800.00	89.97	359.62	11,397.55	-7,701.55	3,257.18	-586.84	3,261.00	0.0001	0.00	0.00
14,900.00	89.97	359.62	11,397.60	-7,701.60	3,357.18	-587.50	3,361.00	0.0001	0.00	0.00
15,000.00	89.97	359.62	11,397.66	-7,701.66	3,457.17	-588.16	3,461.00	0.0001	0.00	0.00
15,100.00	89.97	359.62	11,397.71	-7,701.71	3,557.17	-588.82	3,561.00	0.0001	0.00	0.00
15,200.00	89.97	359.62	11,397.76	-7,701.76	3,657.17	-589.48	3,661.00	0.0001	0.00	0.00
15,300.00	89.97	359.62	11,397.81	-7,701.81	3,757.17	-590.14	3,761.00	0.0001	0.00	0.00
15,400.00	89.97	359.62	11,397.86	-7,701.86	3,857.17	-590.80	3,861.00	0.0001	0.00	0.00
15,500.00	89.97	359.62	11,397.91	-7,701.91	3,957.16	-591.46	3,961.00	0.0001	0.00	0.00
15,600.00	89.97	359.62	11,397.96	-7,701.96	4,057.16	-592.12	4,061.00	0.0001	0.00	0.00
15,700.00	89.97	359.62	11,398.01	-7,702.01	4,157.16	-592.78	4,161.00	0.0001	0.00	0.00
15,800.00	89.97	359.62	11,398.06	-7,702.06	4,257.16	-593.43	4,261.00	0.0001	0.00	0.00
15,900.00	89.97	359.62	11,398.11	-7,702.11	4,357.15	-594.09	4,361.00	0.0001	0.00	0.00

Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 604H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3696.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3696.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,000.00	89.97	359.62	11,398.16	-7,702.16	4,457.15	-594.75	4,461.00	0.0001	0.00	0.00
16,100.00	89.97	359.62	11,398.21	-7,702.21	4,557.15	-595.41	4,561.00	0.0001	0.00	0.00
16,200.00	89.97	359.62	11,398.26	-7,702.26	4,657.15	-596.07	4,661.00	0.0001	0.00	0.00
16,300.00	89.97	359.62	11,398.31	-7,702.31	4,757.15	-596.73	4,761.00	0.0001	0.00	0.00
16,400.00	89.97	359.62	11,398.36	-7,702.36	4,857.14	-597.39	4,861.00	0.0001	0.00	0.00
16,500.00	89.97	359.62	11,398.41	-7,702.41	4,957.14	-598.04	4,961.00	0.0001	0.00	0.00
16,600.00	89.97	359.62	11,398.46	-7,702.46	5,057.14	-598.70	5,061.00	0.0001	0.00	0.00
16,700.00	89.97	359.62	11,398.51	-7,702.51	5,157.14	-599.36	5,161.00	0.0001	0.00	0.00
16,800.00	89.97	359.62	11,398.56	-7,702.56	5,257.13	-600.02	5,261.00	0.0001	0.00	0.00
16,900.00	89.97	359.62	11,398.61	-7,702.61	5,357.13	-600.67	5,361.00	0.0001	0.00	0.00
17,000.00	89.97	359.62	11,398.66	-7,702.66	5,457.13	-601.33	5,461.00	0.0001	0.00	0.00
17,100.00	89.97	359.62	11,398.71	-7,702.71	5,557.13	-601.99	5,561.00	0.0001	0.00	0.00
17,200.00	89.97	359.62	11,398.76	-7,702.76	5,657.13	-602.65	5,661.00	0.0001	0.00	0.00
17,300.00	89.97	359.62	11,398.81	-7,702.81	5,757.12	-603.30	5,761.00	0.0001	0.00	0.00
17,400.00	89.97	359.62	11,398.86	-7,702.86	5,857.12	-603.96	5,861.00	0.0001	0.00	0.00
17,500.00	89.97	359.62	11,398.91	-7,702.91	5,957.12	-604.62	5,961.00	0.0001	0.00	0.00
17,600.00	89.97	359.62	11,398.96	-7,702.96	6,057.12	-605.27	6,061.00	0.0001	0.00	0.00
17,700.00	89.97	359.62	11,399.01	-7,703.01	6,157.12	-605.93	6,161.00	0.0001	0.00	0.00
17,800.00	89.97	359.62	11,399.06	-7,703.06	6,257.11	-606.59	6,261.00	0.0001	0.00	0.00
17,900.00	89.97	359.62	11,399.11	-7,703.11	6,357.11	-607.24	6,361.00	0.0001	0.00	0.00
18,000.00	89.97	359.62	11,399.16	-7,703.16	6,457.11	-607.90	6,461.00	0.0001	0.00	0.00
18,100.00	89.97	359.62	11,399.21	-7,703.21	6,557.11	-608.56	6,561.00	0.0001	0.00	0.00
18,200.00	89.97	359.62	11,399.26	-7,703.26	6,657.10	-609.21	6,661.00	0.0001	0.00	0.00
18,300.00	89.97	359.62	11,399.31	-7,703.31	6,757.10	-609.87	6,761.00	0.0001	0.00	0.00
18,400.00	89.97	359.62	11,399.35	-7,703.35	6,857.10	-610.52	6,861.00	0.0001	0.00	0.00
18,500.00	89.97	359.62	11,399.40	-7,703.40	6,957.10	-611.18	6,961.00	0.0001	0.00	0.00
18,600.00	89.97	359.62	11,399.45	-7,703.45	7,057.10	-611.84	7,061.00	0.0001	0.00	0.00
18,700.00	89.97	359.62	11,399.50	-7,703.50	7,157.09	-612.49	7,161.00	0.0001	0.00	0.00
18,800.00	89.97	359.62	11,399.55	-7,703.55	7,257.09	-613.15	7,261.00	0.0001	0.00	0.00
18,900.00	89.97	359.62	11,399.60	-7,703.60	7,357.09	-613.80	7,361.00	0.0001	0.00	0.00
19,000.00	89.97	359.62	11,399.65	-7,703.65	7,457.09	-614.46	7,461.00	0.0001	0.00	0.00
19,100.00	89.97	359.62	11,399.70	-7,703.70	7,557.08	-615.11	7,561.00	0.0001	0.00	0.00
19,200.00	89.97	359.62	11,399.75	-7,703.75	7,657.08	-615.77	7,661.00	0.0001	0.00	0.00
19,300.00	89.97	359.62	11,399.80	-7,703.80	7,757.08	-616.42	7,761.00	0.0001	0.00	0.00
19,400.00	89.97	359.62	11,399.84	-7,703.84	7,857.08	-617.08	7,861.00	0.0001	0.00	0.00
19,500.00	89.97	359.62	11,399.89	-7,703.89	7,957.08	-617.73	7,961.00	0.0001	0.00	0.00
19,600.00	89.97	359.62	11,399.94	-7,703.94	8,057.07	-618.39	8,061.00	0.0001	0.00	0.00
19,700.00	89.97	359.63	11,399.99	-7,703.99	8,157.07	-619.04	8,161.00	0.0001	0.00	0.00
19,800.00	89.97	359.63	11,400.04	-7,704.04	8,257.07	-619.70	8,261.00	0.0001	0.00	0.00
19,900.00	89.97	359.63	11,400.09	-7,704.09	8,357.07	-620.35	8,361.00	0.0001	0.00	0.00
20,000.00	89.97	359.63	11,400.13	-7,704.13	8,457.07	-621.00	8,461.00	0.0001	0.00	0.00
20,100.00	89.97	359.63	11,400.18	-7,704.18	8,557.06	-621.66	8,561.00	0.0001	0.00	0.00
20,200.00	89.97	359.63	11,400.23	-7,704.23	8,657.06	-622.31	8,661.00	0.0001	0.00	0.00
20,300.00	89.97	359.63	11,400.28	-7,704.28	8,757.06	-622.97	8,761.00	0.0001	0.00	0.00
20,400.00	89.97	359.63	11,400.33	-7,704.33	8,857.06	-623.62	8,861.00	0.0001	0.00	0.00
20,500.00	89.97	359.63	11,400.38	-7,704.38	8,957.05	-624.27	8,961.00	0.0001	0.00	0.00
20,600.00	89.97	359.63	11,400.42	-7,704.42	9,057.05	-624.93	9,061.00	0.0001	0.00	0.00
20,700.00	89.97	359.63	11,400.47	-7,704.47	9,157.05	-625.58	9,161.00	0.0001	0.00	0.00
20,800.00	89.97	359.63	11,400.52	-7,704.52	9,257.05	-626.23	9,261.00	0.0001	0.00	0.00
20,900.00	89.97	359.63	11,400.57	-7,704.57	9,357.05	-626.89	9,361.00	0.0001	0.00	0.00
21,000.00	89.97	359.63	11,400.62	-7,704.62	9,457.04	-627.54	9,461.00	0.0001	0.00	0.00
21,100.00	89.97	359.63	11,400.66	-7,704.66	9,557.04	-628.19	9,561.00	0.0001	0.00	0.00
21,200.00	89.97	359.63	11,400.71	-7,704.71	9,657.04	-628.85	9,661.00	0.0001	0.00	0.00

Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 604H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3696.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3696.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
21,300.00	89.97	359.63	11,400.76	-7,704.76	9,757.04	-629.50	9,761.00	0.0001	0.00	0.00
21,400.00	89.97	359.63	11,400.81	-7,704.81	9,857.04	-630.15	9,861.00	0.0001	0.00	0.00
21,500.00	89.97	359.63	11,400.86	-7,704.86	9,957.03	-630.80	9,961.00	0.0001	0.00	0.00
21,600.00	89.97	359.63	11,400.90	-7,704.90	10,057.03	-631.46	10,061.00	0.0001	0.00	0.00
21,700.00	89.97	359.63	11,400.95	-7,704.95	10,157.03	-632.11	10,161.00	0.0001	0.00	0.00
LTP: 100ft FNL & 2310ft FEL of Sec 28										
21,754.32	89.97	359.63	11,400.98	-7,704.98	10,211.35	-632.46	10,215.32	0.0000	0.00	0.00
21,800.00	89.97	359.63	11,401.00	-7,705.00	10,257.03	-632.76	10,261.00	0.0000	0.00	0.00
BHL: 50ft FNL & 2310ft FEL of Sec 28										
21,804.16	89.97	359.63	11,401.00	-7,705.00	10,261.19	-632.79	10,265.16	0.0017	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,496.00	1,496.00	RSTLR		0.00	
1,866.00	1,866.00	SALDO		0.00	
3,296.22	3,281.00	TANSIL		0.00	
3,495.58	3,476.00	YATES		0.00	
3,802.28	3,776.00	CAPITAN_REEF_TOP		0.00	
5,049.53	4,996.00	TOP_DELAWARE_SAND		0.00	
5,739.97	5,676.00	CHERRY_CANYON		0.00	
6,860.12	6,796.00	BRUSHY_CANYON		0.00	
8,580.12	8,516.00	BSPG_LIME		0.00	
8,640.12	8,576.00	AVLN		0.00	
8,960.12	8,896.00	LEONARD_B		0.00	
9,625.12	9,561.00	1ST_BSPG_SND		0.00	
9,930.12	9,866.00	2ND_BSPG		0.00	
10,163.12	10,099.00	2ND_BSPG_SND		0.00	
10,785.12	10,721.00	3RD_BSPG		0.00	
11,206.38	11,126.00	3RD BSPG S		0.00	

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.00	0.00	0.00	0.00	SHL: 245ft FSL & 1743ft FEL of Sec 28
2,200.00	2,200.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2,800.00	2,795.62	-31.55	-54.07	EOB TO 12° INC
5,340.50	5,280.61	-297.73	-510.29	END OF TANGENT
5,940.50	5,876.38	-328.54	-563.11	EOD TO VERTICAL
10,887.31	10,823.19	-328.54	-563.11	KOP (10°/100ft BUR)
11,354.30	11,240.12	-148.43	-564.30	FTP: 100ft FSL & 2310ft FEL of Sec 33
11,787.01	11,396.00	244.25	-566.91	HZ LP: 492.65ft FSL & 2310ft FEL of Sec 33
21,754.32	11,400.98	10,211.35	-632.46	LTP: 100ft FNL & 2310ft FEL of Sec 28
21,804.16	11,401.00	10,261.19	-632.79	BHL: 50ft FNL & 2310ft FEL of Sec 28

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 73494

CONDITIONS

Operator: ASCENT ENERGY, LLC. 14982 Melco Ave. Parker, CO 80134	OGRID: 325830
	Action Number: 73494
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	1/21/2022