

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. [326516]
2. Name of Operator 326516		9. API Well No. 30-025-48527
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [96438]
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval 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.
 Conditions of approval, if any, are attached.

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.

GCP Rec 02/25/2021

SL

(Continued on page 2)



Approval Date: 09/09/2020

 KZ
 03/01/2021

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SESW / 155 FSL / 2076 FWL / TWSP: 20S / RANGE: 33E / SECTION: 33 / LAT: 32.522775 / LONG: -103.67009 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 1320 FSL / 2310 FWL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.54049 / LONG: -103.66934 (TVD: 11460 feet, MD: 17952 feet)

PPP: SESW / 0 FSL / 2310 FWL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.536861 / LONG: -103.669338 (TVD: 11466 feet, MD: 16632 feet)

PPP: SESW / 100 FSL / 2310 FWL / TWSP: 20S / RANGE: 33E / SECTION: 33 / LAT: 32.522623 / LONG: -103.669331 (TVD: 11331 feet, MD: 11412 feet)

BHL: NENW / 50 FNL / 2310 FWL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.551237 / LONG: -103.669346 (TVD: 11442 feet, MD: 21862 feet)

BLM Point of Contact

Name: Gavin Mickwee

Title: Land Law Examiner

Phone: (575) 234-5972

Email: gmickwee@blm.gov

CONFIDENTIAL

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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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 30-025-48527	² Pool Code 96438	³ Pool Name HAT MESA;WOLFCAMP
⁴ Property Code 326516	⁵ Property Name GAVILON FED COM	⁶ Well Number 706H
⁷ OGRID No. 325830	⁸ Operator Name ASCENT ENERGY, LLC.	⁹ Elevation 3,669'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	20 S	33 E		155	SOUTH	2,076	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	20 S	33 E		50	NORTH	2,310	WEST	LEA

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

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

	¹⁶	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>Ben Metz</i> 4/14/2020 Signature Date 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. 03-16-2020 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RR 2018010129	

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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 4-21-2020

☒ Original

Operator & OGRID No.: Ascent Energy, LLC (325830)

☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Gavilon Fed Com 305H	03-025	M-33-20S-33E	355' FSL & 2026' FWL	200	~30 days	Flare until well clean, then connect
Gavilon Fed Com 306H	03-025	M-33-20S-33E	355' FSL & 2076' FWL	200	~30 days	Flare until well clean, then connect
Gavilon Fed Com 402H	03-025	M-33-20S-33E	355' FSL & 2051' FWL	200	~30 days	Flare until well clean, then connect
Gavilon Fed Com 505H	03-025	M-33-20S-33E	155' FSL & 2051' FWL	200	~30 days	Flare until well clean, then connect
Gavilon Fed Com 603H	03-025	M-33-20S-33E	155' FSL & 2001' FWL	200	~30 days	Flare until well clean, then connect
Gavilon Fed Com 705H	03-025	M-33-20S-33E	155' FSL & 2026' FWL	200	~30 days	Flare until well clean, then connect
Gavilon Fed Com 706H	03-025 30-025-48527	M-33-20S-33E	155' FSL & 2076' FWL	200	~30 days	Flare until well clean, then connect

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility has not yet been dedicated. One possible outlet is DCP. DCP has 2 pipelines in SWSW Section 33. Ascent Energy, LLC's Gavilon Federal 1 is connected to DCP in L-33-20S-33E. Ascent Energy, LLC will provide (periodically) to DCP a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Ascent Energy, LLC and DCP will have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at DCP Processing Plant at a yet to be determined location. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on DCP system at that time. Based on current information, it is Ascent Energy, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Ascent Energy, LLC
 Well Name: Gavilon Fed Com 706H
 SHL 155' FSL, 2076' FWL
 SESW, Section 33, T20S, R33E
 Lea County, New Mexico

Onshore Order 1
8 Point Drilling Plan

1. Geologic Formations/Estimated Tops

Formation	Lithology	MD	TVD	Mineral Resources
Upper Permian	Sandstone	0	0	Useable Water
Rustler	Anhydrite	1462	1462	None
Salado	Salt	1832	1832	None
Base Salado Salt	Salt	3153	3137	None
Tansil	Limestone	3307	3287	None
Yates	Carbonates	3506	3482	Natural Gas, Oil, CO2
Capitan Reef	Limestone	3842	3812	Useable Water
Delaware – Mt. Group	Sandstone	5012	4982	Natural Gas, Oil, CO2
Cherry Canyon	Sandstone	5652	5622	Natural Gas, Oil, CO2
Brushy Canyon	Sandstone	6792	6762	Natural Gas, Oil, CO2
Bone Spring	Limestone	8522	8492	Natural Gas, Oil, CO2
Bone Spring - Avalon	Shale	8572	8542	Natural Gas, Oil, CO2
Bone Spring – Leonard B	Limestone, Shale	8917	8887	Natural Gas, Oil, CO2
1 st Bone Spring Sandstone	Sandstone	9562	9532	Natural Gas, Oil, CO2
2 nd Bone Spring Carbonate	Carbonates	9872	9842	Natural Gas, Oil, CO2
2 nd Bone Spring Sandstone	Sandstone	10131	10100	Natural Gas, Oil, CO2
3 rd Bone Spring Carbonate	Carbonates	10717	10687	Natural Gas, Oil, CO2
3 rd Bone Spring Sandstone	Sandstone	11141	11107	Natural Gas, Oil, CO2
Wolfcamp	Shale	11584	11429	Natural Gas, Oil, CO2
TD	Shale	21862	11442	Natural Gas, Oil, CO2

Notable Zones: Wolfcamp A is the target formation.

Closest water well (CP 01151) is 9645' NE. Depth to water was not reported in the 823' deep well.

2. Blowout Prevention Equipment

- a. Pressure Rating: 5,000'
- b. Rating Depth: 15,000'
- c. Equipment: A 15,000', 5,000 psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top



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drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

- d. Testing Procedures: After surface casing is set and the BOP is nipped up, the BOP pressure tests will be made with a third-party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 2,500 psi. The BOP will be tested in this manner after nipple-up if any break of the stack occurs as wells as every 30 days.
- e. Requesting Variance:
 - i. Variance is requested to use a co-flex line between the BOP and choke manifold instead of using a 4" O. D. steel line. Choke and kill line data book are attached. If this hose is unavailable, then a hose of equal or higher rating will be used.
 - ii. Variance is requested to use a speed head (aka, multi-bowl wellhead). Diagram is attached. After running the 13.375" surface casing, a 13.625" BOP/BOPE system with a >5000 psi WP will be installed on the wellhead system. It will be pressure tested to 250 psi low, followed by a test to 5000-psi high. Pressure test will be repeated at least every 30 days as required by Onshore Order 2.
 - iii. Ascent requests a variance to run a multi-bowl speed head for setting the Intermediate 1, Intermediate 2, and Production Strings. Speed head will be installed by the vendor's representative(s). Well head welding will be monitored by the vendor's representative.

3. Casing

Interval	Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn Type	Conn	New/Used	DF Collapse	DF Burst	DF Tension
Cond	30"	0	80	0	80	30	52.78	5L B	Weld	API	New			
Surface	24	0'	1,487'	0'	1,487'	20	133.0	J-55	BTC	API	New	2.02	3.49	4.63
1st Int	17.5	0'	3,307'	0'	3,287'	13.375	68.0	J-55	STC	API	New	1.14	1.78	2.08
2nd Int	12.25	0'	5,012'	0'	4,982'	9.625	40.0	J-55	LTC	API	New	1.90	1.34	2.01
3rd int	8.75	0'	11,584'	0'	11,429'	7.625	29.7	HCP-110	EZGO HT	Non-API	New	1.42	1.40	1.28
Production	6.75	0'	21,862'	0'	11,487'	5.5	20.0	HCP-110	EZGO HT	Non-API	New	2.21	1.40	1.51

*Casing Assumption Worksheet to be attached

Variance:

- A variance is requested to waive centralizer requirements for the 7.625" casing. An expansion additive will be used in the cement slurry for the entire length of the 8.75" hole to maximize cement bond and zone isolation.
- Variance is also requested to waive centralizers requirements for the 5.5 " casing. An expansion additive will be used in the cement slurry for the entire length of the 6.75" hole to maximize cement bond and zone isolation.



Ascent Energy, LLC
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4. Cement

Section	Depth	Type	Cmt Top	Excess	Ft ³	Sacks	BBLs	Wt. ppg	Yld Ft ³ /sk	Slurry Description
Surface	20	Lead	0	100%	1,837	1065	327	13.5	1.728	Class C
	1487'	Tail	987'	100%	960	780	171	14.8	1.332	Class C
1st Int	13.375	Lead	0	250%	3,388	1465	603	12.7	2.32	Class C
	3307'	Tail	2307'	50%	1,042	810	186	14.8	1.33	Class C
2nd Int (1st Stg)	9.625	Lead	3357	200%	334	155	59	12.7	2.2	Class C
	5012'	Tail	3712'	25%	509	400	91	14.8	1.33	Class C
2nd Int (2nd Stg)	7.625	Lead	0	10%	678	295	121	12.7	2.32	Class C
	5012'	Tail	2057'	10%	448	350	80	14.8	1.33	Class C
3rd Int	7.625	Lead	0'	100%	549	310	98	12	1.78	50/50 Poz H
	11584'	Tail	5032'	50%	988	880	176	14.8	1.14	25/75 Poz H
Production	5.5	Lead	0	10%	838	340	149	11	2.48	TXI Nine Lite Cement
	21,862'	Tail	9,000'	25%	1,343	920	239	13.2	1.472	35/65 Poz H

5. Circulating Medium (Mud Program)

- Mud System Type: Closed
- Air/Gas Drilling: No
- What will be on location to control well or mitigate other conditions: All necessary additives (e.g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase needs will be on site at all times. Mud program may change due to hole conditions.
- Describe the mud monitoring system: Electronic Pason mud monitor system complying with Onshore Order 1 will be used. All necessary mud products (e. g., barite, cedar bark) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.

Interval		Type	Weight	Viscosity	Water Loss
0'	1,487'	Fresh Water	8.4-9.6	34-38	N/C
1,487'	3,307'	Brine Water	10	28-34	N/C
3,307'	5,012'	Fresh Water	8.4-8.6	28-34	N/C
5,012'	11,584'	OBM	8.8-9.2	28-34	N/C
11,584'	21,862'	OBM	10-10.5	40-45	N/C

6. Test, Logging & Coring

- List of production tests including testing procedures, equipment and safety measures: GR will be collected while drilling through the MWD tools from 9.625" casing shoe to TD. A 2-person mud logging program will be used from 9.625" casing shoe to TD.
- Open/cased hole logs run in the well: No open hole logs



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- c. Coring operations description for the well: No core, drill stem test, or open hole log is planned.

7. Anticipated Pressure

- a. Anticipated bottom hole pressure: Maximum expected bottom hole pressure is 4000 psi.
- b. Anticipated bottom hole temperature: Expected bottom hole temperature is 173° F.
- c. Abnormal pressures, temperatures, or potential geologic hazards: No abnormal pressure or temperature is expected.
- d. Hydrogen sulfide drilling operations plan required: Yes
 - i. H₂S monitoring and detection equipment will be used from surface casing point to TD.
 - ii. Ascent does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Ascent has an H₂S safety package on all wells and an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. Other Information

- a. Anticipated spud date is upon approval. It is expected it will take 3 months to drill and complete the well.
- b. Ascent requests approval to possibly utilize a spudder rig to drill and set casing for the surface interval on this well. The spudder rig will be possibly utilized in order to reduce cost and save time. The wellhead will be installed and tested as soon as the surface casing is cut off per the existing COAs. A blind flange with the same pressure rating as the wellhead will be installed on the well. Once the spudder rig is removed, Ascent will secure the wellhead area by placing a guard rail around the cellar. Pressure will be monitored and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operations are expected to take 2-3 days per well. Three wells on the pad will have surface casing set by the spudder rig as a part of this operation. The BLM will be notified 24 hours prior to commencing spudder rig operations. Within 90 days of the departure of the spudder rig, drilling operations will recommence on these wells. This rig will have a BOP stack equal or greater to the pressure rating required in the COAs. The BLM will be notified 24 hours before the larger rig moves on the pre-set wells. Ascent will have supervision on the spudder rig to ensure compliance with all BLM and NMOCD regulations.



Ascent Energy, LLC
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- c. Ascent requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event the wells are batch drilled, after drilling surface, 1st intermediate, and 2nd intermediate hole sections and cementing 2nd intermediate casing, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

9. Lessee's or Operator's Representative

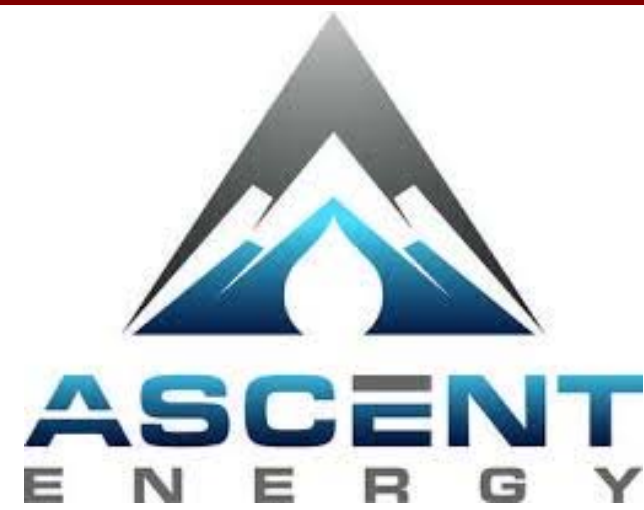
Permit Matters

UELS, LLC
85 S 200 E
Vernal, UT 84078
Amy Doebele- Permit Agent
435-789-1017
adoebele@uintahgroup.com

Drilling, Completions, Production & Operational Matters

Ascent Energy, LLC
1125 17th St., Suite 410
Denver, CO 80202
Gema Volek- Drilling Manager
785-312-2092
gvolek@ascentenergy.us





Project: LEA COUNTY, NEW MEXICO (NAD 83) (GRID)
Site: SEC. 33 T20S R33E N.M.P.M. (GRID)
Well: GAVILON FED COM 706H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

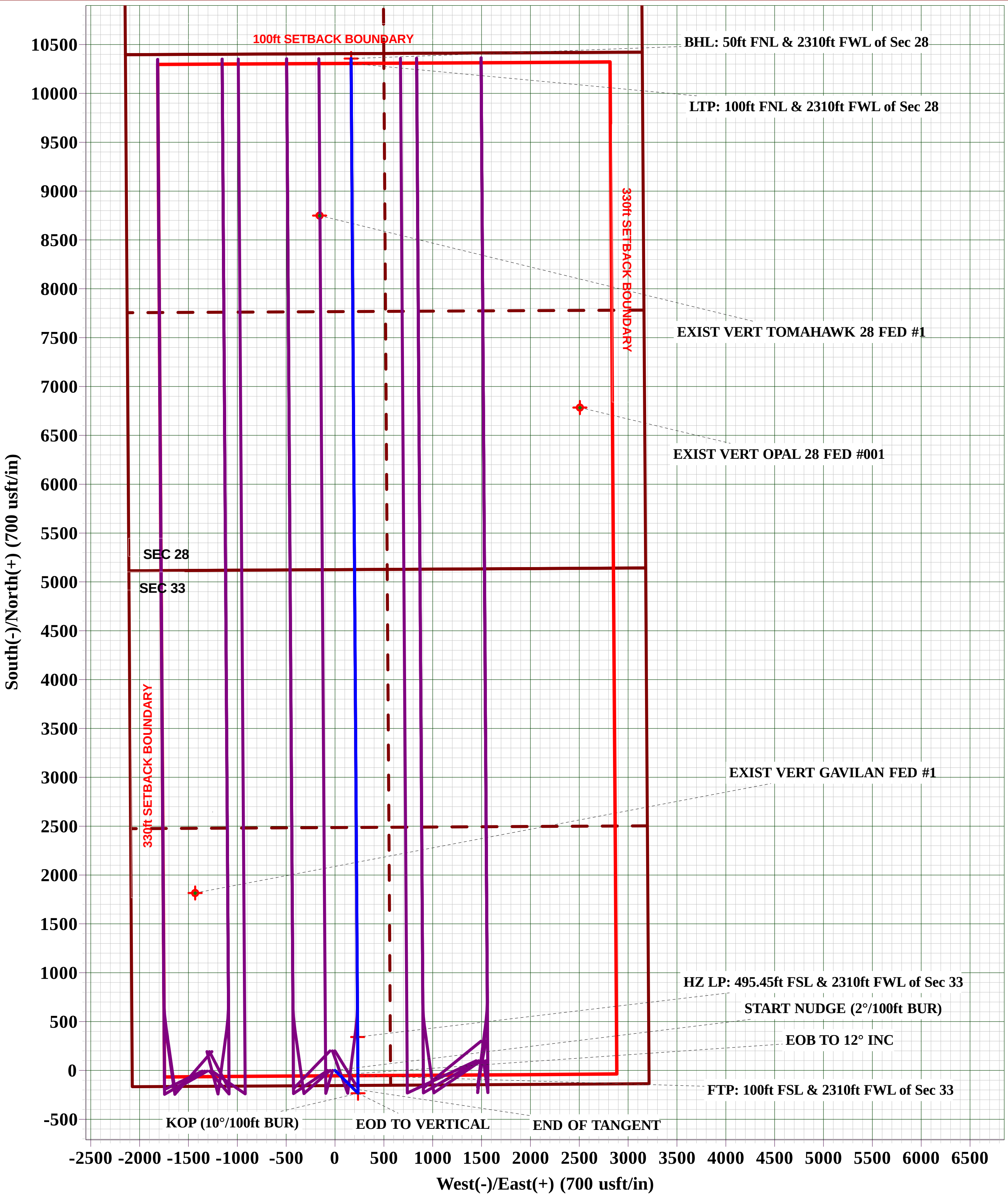
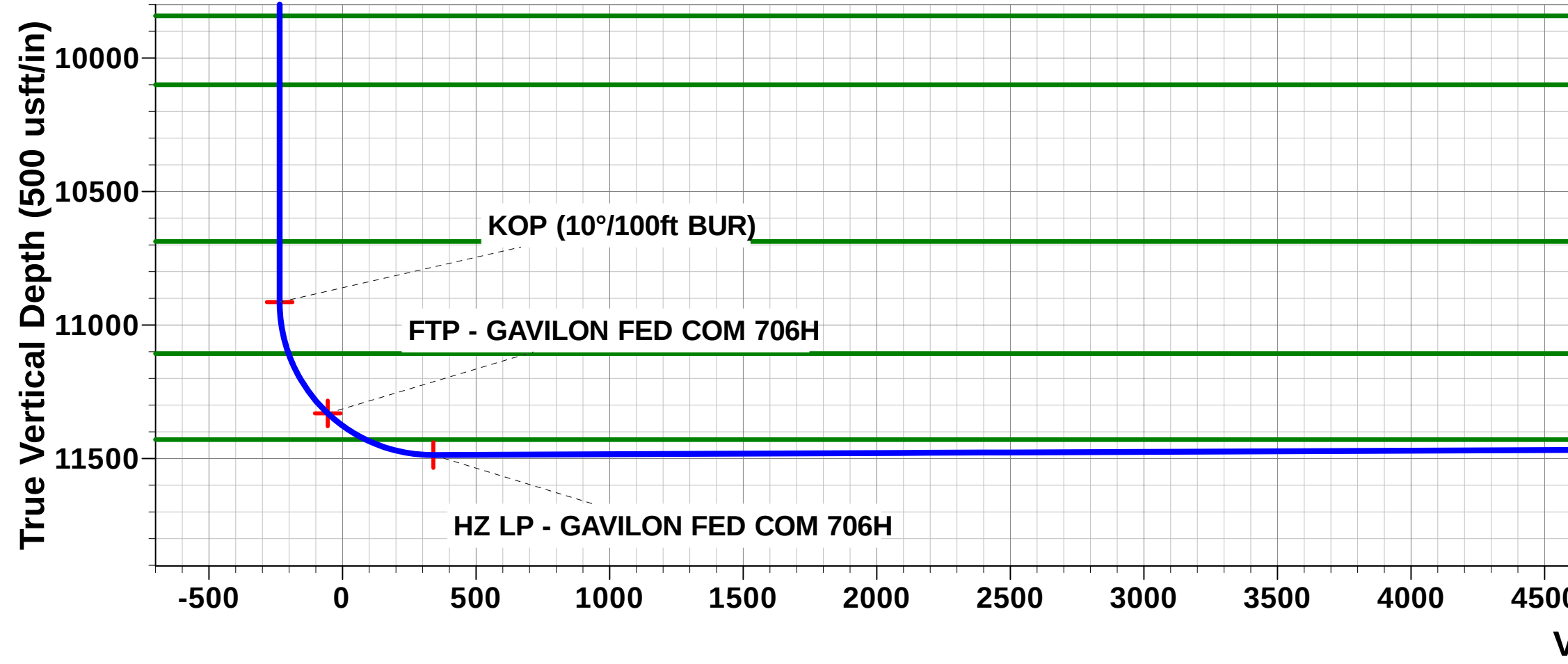
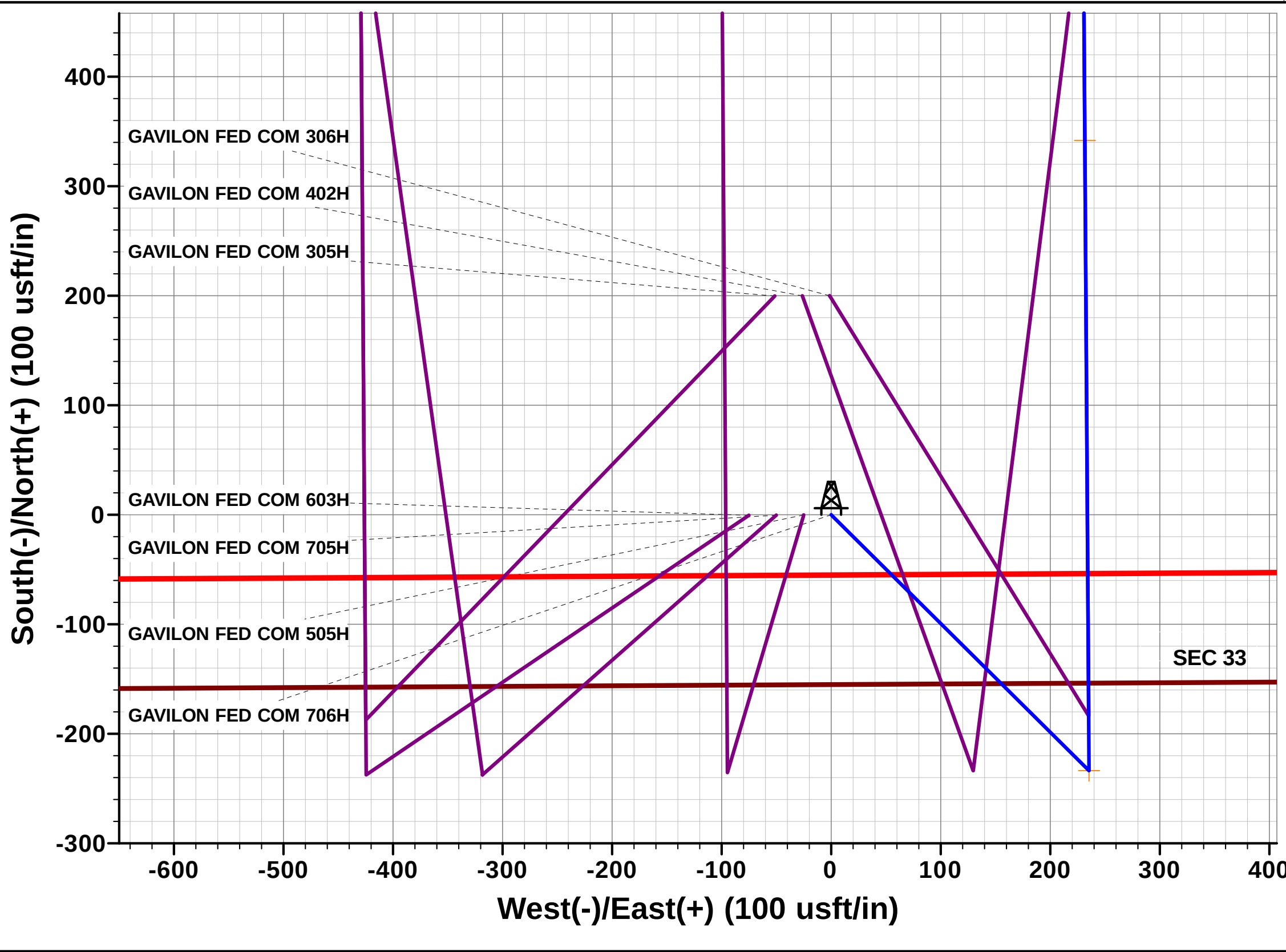
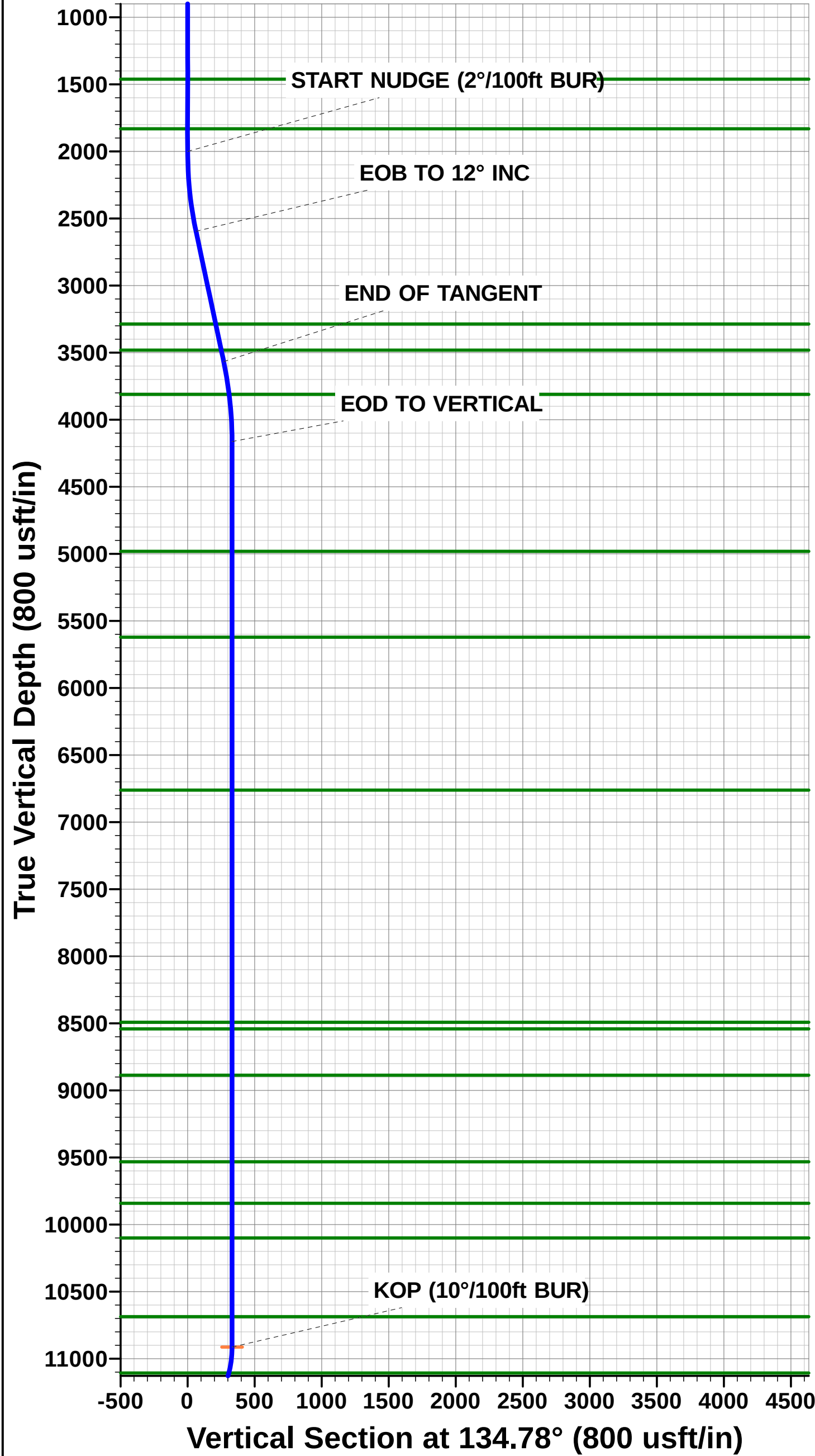
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 155ft FSL & 2076ft FWL of Sec 33
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2600.00	12.00	134.78	2595.62	-44.10	44.44	-44.39	62.60	EOB TO 12° INC
3593.25	12.00	134.78	3567.17	-189.55	191.02	-190.82	269.11	END OF TANGENT
4193.25	0.00	0.00	4162.79	-233.65	235.46	-235.21	331.71	EOD TO VERTICAL
10944.51	0.00	0.00	10914.05	-233.65	235.46	-235.21	331.71	KOP (10°/100ft BUR)
11411.50	46.70	359.62	11331.03	-53.65	234.27	-55.20	511.98	FTP: 100ft FSL & 2310ft FWL of Sec 33
11847.01	90.25	359.62	11487.00	341.80	231.64	340.25	907.17	HZ LP: 495.45ft FSL & 2310ft FWL of Sec 33
21812.35	90.26	359.61	11442.23	10306.81	165.09	10305.49	10872.41	LTP: 100ft FNL & 2310ft FWL of Sec 28
21862.35	90.26	359.61	11442.00	10356.81	164.75	10355.49	10922.41	BHL: 50ft FNL & 2310ft FWL of Sec 28

PROPOSED LOCAL COORDINATES:

SHL: 155ft FSL & 2076ft FWL of Sec 33
FTP: 100ft FSL & 2310ft FWL of Sec 33
HZ LP: 495.45ft FSL & 2310ft FWL of Sec 33
LTP: 100ft FNL & 2310ft FWL of Sec 28
BHL: 50ft FNL & 2310ft FWL of Sec 28

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - GAVILON FED COM 706H	10914.05	-233.65	235.46	32.522128	-103.669331
FTP - GAVILON FED COM 706H	11331.02	-53.65	234.27	32.522623	-103.669331
BHL - GAVILON FED COM 706H	11442.00	10356.81	164.75	32.551237	-103.669346
LTP - GAVILON FED COM 706H	11442.23	10306.81	165.09	32.551100	-103.669346
HZ LP - GAVILON FED COM 706H	11487.00	341.80	231.64	32.523710	-103.669332



Planning Report

Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3692.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 706H	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 706H					
Well Position	+N/-S	-192.71 usft	Northing:	554,552.20 usft	Latitude:	32.522774
	+E/-W	1,310.36 usft	Easting:	745,761.90 usft	Longitude:	-103.670090
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,667.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2020-03-19	6.76	60.20	47,788.20830516

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	-3,692.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	-1,692.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	12.00	134.78	2,595.62	-1,096.38	-44.10	44.44	2.00	2.00	0.00	134.78	
3,593.25	12.00	134.78	3,567.17	-124.83	-189.55	191.02	0.00	0.00	0.00	0.00	
4,193.25	0.00	0.00	4,162.79	470.79	-233.65	235.46	2.00	-2.00	0.00	180.00	
10,944.51	0.00	0.00	10,914.05	7,222.05	-233.65	235.46	0.00	0.00	0.00	0.00	KOP - GAVILON FE
11,847.01	90.25	359.62	11,487.00	7,795.00	341.80	231.64	10.00	10.00	0.00	359.62	
21,862.35	90.26	359.61	11,442.00	7,750.00	10,356.81	164.75	0.00	0.00	0.00	-19.65	BHL - GAVILON FE

Planning Report

Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3692.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 706H	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: 155ft FSL & 2076ft FWL of Sec 33										
0.00	0.00	0.00	0.00	3,692.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	3,592.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	3,492.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	3,392.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	3,292.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	3,192.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	3,092.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	2,992.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	2,892.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	2,792.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	2,692.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	2,592.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	2,492.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	2,392.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	2,292.00	0.00	0.00	0.00	0.00	0.00	0.00
RSTLR										
1,462.00	0.00	0.00	1,462.00	2,230.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	2,192.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	2,092.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	1,992.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	1,892.00	0.00	0.00	0.00	0.00	0.00	0.00
SALDO										
1,832.00	0.00	0.00	1,832.00	1,860.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	1,792.00	0.00	0.00	0.00	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
2,000.00	0.00	0.00	2,000.00	1,692.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	134.78	2,099.98	1,592.02	-1.23	1.24	-1.24	2.00	2.00	0.00
2,200.00	4.00	134.78	2,199.84	1,492.16	-4.92	4.95	-4.95	2.00	2.00	0.00
2,300.00	6.00	134.78	2,299.45	1,392.55	-11.05	11.14	-11.13	2.00	2.00	0.00
2,400.00	8.00	134.78	2,398.70	1,293.30	-19.64	19.79	-19.77	2.00	2.00	0.00
2,500.00	10.00	134.78	2,497.47	1,194.53	-30.66	30.89	-30.86	2.00	2.00	0.00
EOB TO 12° INC										
2,600.00	12.00	134.78	2,595.62	1,096.38	-44.10	44.44	-44.39	2.00	2.00	0.00
2,700.00	12.00	134.78	2,693.44	998.56	-58.74	59.20	-59.13	0.00	0.00	0.00
2,800.00	12.00	134.78	2,791.25	900.75	-73.39	73.95	-73.87	0.00	0.00	0.00
2,900.00	12.00	134.78	2,889.07	802.93	-88.03	88.71	-88.62	0.00	0.00	0.00
3,000.00	12.00	134.78	2,986.88	705.12	-102.67	103.47	-103.36	0.00	0.00	0.00
3,100.00	12.00	134.78	3,084.70	607.30	-117.32	118.23	-118.10	0.00	0.00	0.00
3,200.00	12.00	134.78	3,182.51	509.49	-131.96	132.99	-132.84	0.00	0.00	0.00
3,300.00	12.00	134.78	3,280.33	411.67	-146.61	147.74	-147.59	0.00	0.00	0.00
TANSIL										
3,306.82	12.00	134.78	3,287.00	405.00	-147.61	148.75	-148.59	0.00	0.00	0.00
3,400.00	12.00	134.78	3,378.14	313.86	-161.25	162.50	-162.33	0.00	0.00	0.00
3,500.00	12.00	134.78	3,475.96	216.04	-175.90	177.26	-177.07	0.00	0.00	0.00
YATES										
3,506.18	12.00	134.78	3,482.00	210.00	-176.80	178.17	-177.98	0.00	0.00	0.00
END OF TANGENT										
3,593.25	12.00	134.78	3,567.17	124.83	-189.55	191.02	-190.82	0.00	0.00	0.00
3,600.00	11.87	134.78	3,573.77	118.23	-190.54	192.01	-191.81	2.00	-2.00	0.00
3,700.00	9.87	134.78	3,671.97	20.03	-203.81	205.39	-205.17	2.00	-2.00	0.00
3,800.00	7.87	134.78	3,770.78	-78.78	-214.67	216.33	-216.10	2.00	-2.00	0.00

Planning Report

Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3692.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 706H	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)
CAPITAN REEF TOP										
3,841.58	7.03	134.78	3,812.00	-120.00	-218.46	220.16	-219.92	2.00	-2.00	0.00
3,900.00	5.87	134.78	3,870.05	-178.05	-223.09	224.82	-224.57	2.00	-2.00	0.00
4,000.00	3.87	134.78	3,969.69	-277.69	-229.06	230.84	-230.59	2.00	-2.00	0.00
4,100.00	1.87	134.78	4,069.56	-377.56	-232.58	234.38	-234.13	2.00	-2.00	0.00
EOD TO VERTICAL										
4,193.25	0.00	0.00	4,162.79	-470.79	-233.65	235.46	-235.21	2.00	-2.00	0.00
4,200.00	0.00	0.00	4,169.54	-477.54	-233.65	235.46	-235.21	0.00	0.00	0.00
4,300.00	0.00	0.00	4,269.54	-577.54	-233.65	235.46	-235.21	0.00	0.00	0.00
4,400.00	0.00	0.00	4,369.54	-677.54	-233.65	235.46	-235.21	0.00	0.00	0.00
4,500.00	0.00	0.00	4,469.54	-777.54	-233.65	235.46	-235.21	0.00	0.00	0.00
4,600.00	0.00	0.00	4,569.54	-877.54	-233.65	235.46	-235.21	0.00	0.00	0.00
4,700.00	0.00	0.00	4,669.54	-977.54	-233.65	235.46	-235.21	0.00	0.00	0.00
4,800.00	0.00	0.00	4,769.54	-1,077.54	-233.65	235.46	-235.21	0.00	0.00	0.00
4,900.00	0.00	0.00	4,869.54	-1,177.54	-233.65	235.46	-235.21	0.00	0.00	0.00
5,000.00	0.00	0.00	4,969.54	-1,277.54	-233.65	235.46	-235.21	0.00	0.00	0.00
TOP DELAWARE SAND										
5,012.46	0.00	0.00	4,982.00	-1,290.00	-233.65	235.46	-235.21	0.00	0.00	0.00
5,100.00	0.00	0.00	5,069.54	-1,377.54	-233.65	235.46	-235.21	0.00	0.00	0.00
5,200.00	0.00	0.00	5,169.54	-1,477.54	-233.65	235.46	-235.21	0.00	0.00	0.00
5,300.00	0.00	0.00	5,269.54	-1,577.54	-233.65	235.46	-235.21	0.00	0.00	0.00
5,400.00	0.00	0.00	5,369.54	-1,677.54	-233.65	235.46	-235.21	0.00	0.00	0.00
5,500.00	0.00	0.00	5,469.54	-1,777.54	-233.65	235.46	-235.21	0.00	0.00	0.00
5,600.00	0.00	0.00	5,569.54	-1,877.54	-233.65	235.46	-235.21	0.00	0.00	0.00
CHERRY CANYON										
5,652.46	0.00	0.00	5,622.00	-1,930.00	-233.65	235.46	-235.21	0.00	0.00	0.00
5,700.00	0.00	0.00	5,669.54	-1,977.54	-233.65	235.46	-235.21	0.00	0.00	0.00
5,800.00	0.00	0.00	5,769.54	-2,077.54	-233.65	235.46	-235.21	0.00	0.00	0.00
5,900.00	0.00	0.00	5,869.54	-2,177.54	-233.65	235.46	-235.21	0.00	0.00	0.00
6,000.00	0.00	0.00	5,969.54	-2,277.54	-233.65	235.46	-235.21	0.00	0.00	0.00
6,100.00	0.00	0.00	6,069.54	-2,377.54	-233.65	235.46	-235.21	0.00	0.00	0.00
6,200.00	0.00	0.00	6,169.54	-2,477.54	-233.65	235.46	-235.21	0.00	0.00	0.00
6,300.00	0.00	0.00	6,269.54	-2,577.54	-233.65	235.46	-235.21	0.00	0.00	0.00
6,400.00	0.00	0.00	6,369.54	-2,677.54	-233.65	235.46	-235.21	0.00	0.00	0.00
6,500.00	0.00	0.00	6,469.54	-2,777.54	-233.65	235.46	-235.21	0.00	0.00	0.00
6,600.00	0.00	0.00	6,569.54	-2,877.54	-233.65	235.46	-235.21	0.00	0.00	0.00
6,700.00	0.00	0.00	6,669.54	-2,977.54	-233.65	235.46	-235.21	0.00	0.00	0.00
BRUSHY CANYON										
6,792.46	0.00	0.00	6,762.00	-3,070.00	-233.65	235.46	-235.21	0.00	0.00	0.00
6,800.00	0.00	0.00	6,769.54	-3,077.54	-233.65	235.46	-235.21	0.00	0.00	0.00
6,900.00	0.00	0.00	6,869.54	-3,177.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,000.00	0.00	0.00	6,969.54	-3,277.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,100.00	0.00	0.00	7,069.54	-3,377.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,200.00	0.00	0.00	7,169.54	-3,477.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,300.00	0.00	0.00	7,269.54	-3,577.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,400.00	0.00	0.00	7,369.54	-3,677.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,500.00	0.00	0.00	7,469.54	-3,777.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,600.00	0.00	0.00	7,569.54	-3,877.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,700.00	0.00	0.00	7,669.54	-3,977.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,800.00	0.00	0.00	7,769.54	-4,077.54	-233.65	235.46	-235.21	0.00	0.00	0.00
7,900.00	0.00	0.00	7,869.54	-4,177.54	-233.65	235.46	-235.21	0.00	0.00	0.00
8,000.00	0.00	0.00	7,969.54	-4,277.54	-233.65	235.46	-235.21	0.00	0.00	0.00

Planning Report

Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3692.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 706H	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)
8,100.00	0.00	0.00	8,069.54	-4,377.54	-233.65	235.46	-235.21	0.00	0.00	0.00
8,200.00	0.00	0.00	8,169.54	-4,477.54	-233.65	235.46	-235.21	0.00	0.00	0.00
8,300.00	0.00	0.00	8,269.54	-4,577.54	-233.65	235.46	-235.21	0.00	0.00	0.00
8,400.00	0.00	0.00	8,369.54	-4,677.54	-233.65	235.46	-235.21	0.00	0.00	0.00
8,500.00	0.00	0.00	8,469.54	-4,777.54	-233.65	235.46	-235.21	0.00	0.00	0.00
BSPG LIME										
8,522.46	0.00	0.00	8,492.00	-4,800.00	-233.65	235.46	-235.21	0.00	0.00	0.00
AVLN										
8,572.46	0.00	0.00	8,542.00	-4,850.00	-233.65	235.46	-235.21	0.00	0.00	0.00
8,600.00	0.00	0.00	8,569.54	-4,877.54	-233.65	235.46	-235.21	0.00	0.00	0.00
8,700.00	0.00	0.00	8,669.54	-4,977.54	-233.65	235.46	-235.21	0.00	0.00	0.00
8,800.00	0.00	0.00	8,769.54	-5,077.54	-233.65	235.46	-235.21	0.00	0.00	0.00
8,900.00	0.00	0.00	8,869.54	-5,177.54	-233.65	235.46	-235.21	0.00	0.00	0.00
LEONARD B										
8,917.46	0.00	0.00	8,887.00	-5,195.00	-233.65	235.46	-235.21	0.00	0.00	0.00
9,000.00	0.00	0.00	8,969.54	-5,277.54	-233.65	235.46	-235.21	0.00	0.00	0.00
9,100.00	0.00	0.00	9,069.54	-5,377.54	-233.65	235.46	-235.21	0.00	0.00	0.00
9,200.00	0.00	0.00	9,169.54	-5,477.54	-233.65	235.46	-235.21	0.00	0.00	0.00
9,300.00	0.00	0.00	9,269.54	-5,577.54	-233.65	235.46	-235.21	0.00	0.00	0.00
9,400.00	0.00	0.00	9,369.54	-5,677.54	-233.65	235.46	-235.21	0.00	0.00	0.00
9,500.00	0.00	0.00	9,469.54	-5,777.54	-233.65	235.46	-235.21	0.00	0.00	0.00
1ST BSPG SND										
9,562.46	0.00	0.00	9,532.00	-5,840.00	-233.65	235.46	-235.21	0.00	0.00	0.00
9,600.00	0.00	0.00	9,569.54	-5,877.54	-233.65	235.46	-235.21	0.00	0.00	0.00
9,700.00	0.00	0.00	9,669.54	-5,977.54	-233.65	235.46	-235.21	0.00	0.00	0.00
9,800.00	0.00	0.00	9,769.54	-6,077.54	-233.65	235.46	-235.21	0.00	0.00	0.00
2ND BSPG										
9,872.46	0.00	0.00	9,842.00	-6,150.00	-233.65	235.46	-235.21	0.00	0.00	0.00
9,900.00	0.00	0.00	9,869.54	-6,177.54	-233.65	235.46	-235.21	0.00	0.00	0.00
10,000.00	0.00	0.00	9,969.54	-6,277.54	-233.65	235.46	-235.21	0.00	0.00	0.00
10,100.00	0.00	0.00	10,069.54	-6,377.54	-233.65	235.46	-235.21	0.00	0.00	0.00
2ND BSPG SND										
10,130.46	0.00	0.00	10,100.00	-6,408.00	-233.65	235.46	-235.21	0.00	0.00	0.00
10,200.00	0.00	0.00	10,169.54	-6,477.54	-233.65	235.46	-235.21	0.00	0.00	0.00
10,300.00	0.00	0.00	10,269.54	-6,577.54	-233.65	235.46	-235.21	0.00	0.00	0.00
10,400.00	0.00	0.00	10,369.54	-6,677.54	-233.65	235.46	-235.21	0.00	0.00	0.00
10,500.00	0.00	0.00	10,469.54	-6,777.54	-233.65	235.46	-235.21	0.00	0.00	0.00
10,600.00	0.00	0.00	10,569.54	-6,877.54	-233.65	235.46	-235.21	0.00	0.00	0.00
10,700.00	0.00	0.00	10,669.54	-6,977.54	-233.65	235.46	-235.21	0.00	0.00	0.00
3RD BSPG										
10,717.46	0.00	0.00	10,687.00	-6,995.00	-233.65	235.46	-235.21	0.00	0.00	0.00
10,800.00	0.00	0.00	10,769.54	-7,077.54	-233.65	235.46	-235.21	0.00	0.00	0.00
10,900.00	0.00	0.00	10,869.54	-7,177.54	-233.65	235.46	-235.21	0.00	0.00	0.00
KOP (10°/100ft BUR)										
10,944.51	0.00	0.00	10,914.05	-7,222.05	-233.65	235.46	-235.21	0.00	0.00	0.00
11,000.00	5.55	359.62	10,969.45	-7,277.45	-230.96	235.44	-232.52	10.00	10.00	0.00
11,100.00	15.55	359.62	11,067.64	-7,375.64	-212.68	235.32	-214.24	10.00	10.00	0.00
3RD BSPG S										
11,141.31	19.68	359.62	11,107.00	-7,415.00	-200.18	235.24	-201.74	10.00	10.00	0.00
11,200.00	25.55	359.62	11,161.16	-7,469.16	-177.62	235.09	-179.18	10.00	10.00	0.00
11,300.00	35.55	359.62	11,247.17	-7,555.17	-126.86	234.75	-128.42	10.00	10.00	0.00
11,400.00	45.55	359.62	11,323.06	-7,631.06	-61.94	234.32	-63.49	10.00	10.00	0.00

Planning Report

Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3692.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 706H	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)
FTP: 100ft FSL & 2310ft FWL of Sec 33										
11,411.50	46.70	359.62	11,331.03	-7,639.03	-53.65	234.27	-55.20	10.00	10.00	0.00
11,500.00	55.55	359.62	11,386.52	-7,694.52	15.18	233.81	13.63	10.00	10.00	0.00
WC A										
11,584.46	64.00	359.62	11,429.00	-7,737.00	88.09	233.33	86.54	10.00	10.00	0.00
11,600.00	65.55	359.62	11,435.62	-7,743.62	102.15	233.23	100.60	10.00	10.00	0.00
11,700.00	75.55	359.62	11,468.88	-7,776.88	196.32	232.61	194.77	10.00	10.00	0.00
11,800.00	85.55	359.62	11,485.28	-7,793.28	294.83	231.95	293.29	10.00	10.00	0.00
HZ LP: 495.45ft FSL & 2310ft FWL of Sec 33										
11,847.01	90.25	359.62	11,487.00	-7,795.00	341.80	231.64	340.25	10.00	10.00	0.00
11,900.00	90.25	359.62	11,486.77	-7,794.77	394.78	231.29	393.24	0.00	0.00	0.00
12,000.00	90.25	359.62	11,486.33	-7,794.33	494.78	230.63	493.24	0.00	0.00	0.00
12,100.00	90.25	359.62	11,485.90	-7,793.90	594.78	229.97	593.24	0.00	0.00	0.00
12,200.00	90.25	359.62	11,485.46	-7,793.46	694.78	229.30	693.24	0.00	0.00	0.00
12,300.00	90.25	359.62	11,485.02	-7,793.02	794.77	228.64	793.24	0.00	0.00	0.00
12,400.00	90.25	359.62	11,484.59	-7,792.59	894.77	227.97	893.24	0.00	0.00	0.00
12,500.00	90.25	359.62	11,484.15	-7,792.15	994.77	227.31	993.24	0.00	0.00	0.00
12,600.00	90.25	359.62	11,483.71	-7,791.71	1,094.76	226.65	1,093.24	0.00	0.00	0.00
12,700.00	90.25	359.62	11,483.27	-7,791.27	1,194.76	225.98	1,193.23	0.00	0.00	0.00
12,800.00	90.25	359.62	11,482.83	-7,790.83	1,294.76	225.32	1,293.23	0.00	0.00	0.00
12,900.00	90.25	359.62	11,482.39	-7,790.39	1,394.75	224.65	1,393.23	0.00	0.00	0.00
13,000.00	90.25	359.62	11,481.95	-7,789.95	1,494.75	223.99	1,493.23	0.00	0.00	0.00
13,100.00	90.25	359.62	11,481.51	-7,789.51	1,594.75	223.33	1,593.23	0.00	0.00	0.00
13,200.00	90.25	359.62	11,481.08	-7,789.08	1,694.74	222.66	1,693.23	0.00	0.00	0.00
13,300.00	90.25	359.62	11,480.64	-7,788.64	1,794.74	222.00	1,793.23	0.00	0.00	0.00
13,400.00	90.25	359.62	11,480.19	-7,788.19	1,894.74	221.33	1,893.23	0.00	0.00	0.00
13,500.00	90.25	359.62	11,479.75	-7,787.75	1,994.73	220.67	1,993.23	0.00	0.00	0.00
13,600.00	90.25	359.62	11,479.31	-7,787.31	2,094.73	220.00	2,093.23	0.00	0.00	0.00
13,700.00	90.25	359.62	11,478.87	-7,786.87	2,194.73	219.34	2,193.22	0.00	0.00	0.00
13,800.00	90.25	359.62	11,478.43	-7,786.43	2,294.72	218.67	2,293.22	0.00	0.00	0.00
13,900.00	90.25	359.62	11,477.99	-7,785.99	2,394.72	218.01	2,393.22	0.00	0.00	0.00
14,000.00	90.25	359.62	11,477.55	-7,785.55	2,494.72	217.34	2,493.22	0.00	0.00	0.00
14,100.00	90.25	359.62	11,477.11	-7,785.11	2,594.72	216.68	2,593.22	0.00	0.00	0.00
14,200.00	90.25	359.62	11,476.66	-7,784.66	2,694.71	216.01	2,693.22	0.00	0.00	0.00
14,300.00	90.25	359.62	11,476.22	-7,784.22	2,794.71	215.35	2,793.22	0.00	0.00	0.00
14,400.00	90.25	359.62	11,475.78	-7,783.78	2,894.71	214.68	2,893.22	0.00	0.00	0.00
14,500.00	90.25	359.62	11,475.34	-7,783.34	2,994.70	214.02	2,993.22	0.00	0.00	0.00
14,600.00	90.25	359.62	11,474.89	-7,782.89	3,094.70	213.35	3,093.22	0.00	0.00	0.00
14,700.00	90.25	359.62	11,474.45	-7,782.45	3,194.70	212.68	3,193.22	0.00	0.00	0.00
14,800.00	90.25	359.62	11,474.00	-7,782.00	3,294.69	212.02	3,293.21	0.00	0.00	0.00
14,900.00	90.25	359.62	11,473.56	-7,781.56	3,394.69	211.35	3,393.21	0.00	0.00	0.00
15,000.00	90.25	359.62	11,473.12	-7,781.12	3,494.69	210.69	3,493.21	0.00	0.00	0.00
15,100.00	90.25	359.62	11,472.67	-7,780.67	3,594.68	210.02	3,593.21	0.00	0.00	0.00
15,200.00	90.25	359.62	11,472.23	-7,780.23	3,694.68	209.35	3,693.21	0.00	0.00	0.00
15,300.00	90.26	359.62	11,471.78	-7,779.78	3,794.68	208.69	3,793.21	0.00	0.00	0.00
15,400.00	90.26	359.62	11,471.34	-7,779.34	3,894.67	208.02	3,893.21	0.00	0.00	0.00
15,500.00	90.26	359.62	11,470.89	-7,778.89	3,994.67	207.35	3,993.21	0.00	0.00	0.00
15,600.00	90.26	359.62	11,470.44	-7,778.44	4,094.67	206.69	4,093.21	0.00	0.00	0.00
15,700.00	90.26	359.62	11,470.00	-7,778.00	4,194.66	206.02	4,193.21	0.00	0.00	0.00
15,800.00	90.26	359.62	11,469.55	-7,777.55	4,294.66	205.35	4,293.20	0.00	0.00	0.00
15,900.00	90.26	359.62	11,469.10	-7,777.10	4,394.66	204.69	4,393.20	0.00	0.00	0.00
16,000.00	90.26	359.62	11,468.66	-7,776.66	4,494.65	204.02	4,493.20	0.00	0.00	0.00
16,100.00	90.26	359.62	11,468.21	-7,776.21	4,594.65	203.35	4,593.20	0.00	0.00	0.00

Planning Report

Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3692.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 706H	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)
16,200.00	90.26	359.62	11,467.76	-7,775.76	4,694.65	202.69	4,693.20	0.00	0.00	0.00
16,300.00	90.26	359.62	11,467.32	-7,775.32	4,794.64	202.02	4,793.20	0.00	0.00	0.00
16,400.00	90.26	359.62	11,466.87	-7,774.87	4,894.64	201.35	4,893.20	0.00	0.00	0.00
16,500.00	90.26	359.62	11,466.42	-7,774.42	4,994.64	200.68	4,993.20	0.00	0.00	0.00
16,600.00	90.26	359.62	11,465.97	-7,773.97	5,094.63	200.02	5,093.20	0.00	0.00	0.00
16,700.00	90.26	359.62	11,465.52	-7,773.52	5,194.63	199.35	5,193.20	0.00	0.00	0.00
16,800.00	90.26	359.62	11,465.07	-7,773.07	5,294.63	198.68	5,293.19	0.00	0.00	0.00
16,900.00	90.26	359.62	11,464.62	-7,772.62	5,394.62	198.01	5,393.19	0.00	0.00	0.00
17,000.00	90.26	359.62	11,464.17	-7,772.17	5,494.62	197.34	5,493.19	0.00	0.00	0.00
17,100.00	90.26	359.62	11,463.72	-7,771.72	5,594.62	196.68	5,593.19	0.00	0.00	0.00
17,200.00	90.26	359.62	11,463.27	-7,771.27	5,694.62	196.01	5,693.19	0.00	0.00	0.00
17,300.00	90.26	359.62	11,462.82	-7,770.82	5,794.61	195.34	5,793.19	0.00	0.00	0.00
17,400.00	90.26	359.62	11,462.37	-7,770.37	5,894.61	194.67	5,893.19	0.00	0.00	0.00
17,500.00	90.26	359.62	11,461.92	-7,769.92	5,994.61	194.00	5,993.19	0.00	0.00	0.00
17,600.00	90.26	359.62	11,461.47	-7,769.47	6,094.60	193.33	6,093.19	0.00	0.00	0.00
17,700.00	90.26	359.62	11,461.02	-7,769.02	6,194.60	192.67	6,193.18	0.00	0.00	0.00
17,800.00	90.26	359.62	11,460.57	-7,768.57	6,294.60	192.00	6,293.18	0.00	0.00	0.00
17,900.00	90.26	359.62	11,460.12	-7,768.12	6,394.59	191.33	6,393.18	0.00	0.00	0.00
18,000.00	90.26	359.62	11,459.66	-7,767.66	6,494.59	190.66	6,493.18	0.00	0.00	0.00
18,100.00	90.26	359.62	11,459.21	-7,767.21	6,594.59	189.99	6,593.18	0.00	0.00	0.00
18,200.00	90.26	359.62	11,458.76	-7,766.76	6,694.58	189.32	6,693.18	0.00	0.00	0.00
18,300.00	90.26	359.62	11,458.31	-7,766.31	6,794.58	188.65	6,793.18	0.00	0.00	0.00
18,400.00	90.26	359.62	11,457.85	-7,765.85	6,894.58	187.98	6,893.18	0.00	0.00	0.00
18,500.00	90.26	359.62	11,457.40	-7,765.40	6,994.57	187.31	6,993.18	0.00	0.00	0.00
18,600.00	90.26	359.62	11,456.94	-7,764.94	7,094.57	186.64	7,093.18	0.00	0.00	0.00
18,700.00	90.26	359.62	11,456.49	-7,764.49	7,194.57	185.98	7,193.17	0.00	0.00	0.00
18,800.00	90.26	359.62	11,456.04	-7,764.04	7,294.56	185.31	7,293.17	0.00	0.00	0.00
18,900.00	90.26	359.62	11,455.58	-7,763.58	7,394.56	184.64	7,393.17	0.00	0.00	0.00
19,000.00	90.26	359.62	11,455.13	-7,763.13	7,494.56	183.97	7,493.17	0.00	0.00	0.00
19,100.00	90.26	359.62	11,454.67	-7,762.67	7,594.55	183.30	7,593.17	0.00	0.00	0.00
19,200.00	90.26	359.62	11,454.22	-7,762.22	7,694.55	182.63	7,693.17	0.00	0.00	0.00
19,300.00	90.26	359.62	11,453.76	-7,761.76	7,794.55	181.96	7,793.17	0.00	0.00	0.00
19,400.00	90.26	359.62	11,453.31	-7,761.31	7,894.54	181.29	7,893.17	0.00	0.00	0.00
19,500.00	90.26	359.62	11,452.85	-7,760.85	7,994.54	180.62	7,993.17	0.00	0.00	0.00
19,600.00	90.26	359.62	11,452.39	-7,760.39	8,094.54	179.95	8,093.17	0.00	0.00	0.00
19,700.00	90.26	359.62	11,451.94	-7,759.94	8,194.53	179.27	8,193.16	0.00	0.00	0.00
19,800.00	90.26	359.62	11,451.48	-7,759.48	8,294.53	178.60	8,293.16	0.00	0.00	0.00
19,900.00	90.26	359.62	11,451.02	-7,759.02	8,394.53	177.93	8,393.16	0.00	0.00	0.00
20,000.00	90.26	359.62	11,450.57	-7,758.57	8,494.52	177.26	8,493.16	0.00	0.00	0.00
20,100.00	90.26	359.62	11,450.11	-7,758.11	8,594.52	176.59	8,593.16	0.00	0.00	0.00
20,200.00	90.26	359.62	11,449.65	-7,757.65	8,694.52	175.92	8,693.16	0.00	0.00	0.00
20,300.00	90.26	359.62	11,449.19	-7,757.19	8,794.51	175.25	8,793.16	0.00	0.00	0.00
20,400.00	90.26	359.62	11,448.73	-7,756.73	8,894.51	174.58	8,893.16	0.00	0.00	0.00
20,500.00	90.26	359.62	11,448.27	-7,756.27	8,994.51	173.91	8,993.16	0.00	0.00	0.00
20,600.00	90.26	359.62	11,447.82	-7,755.82	9,094.50	173.24	9,093.15	0.00	0.00	0.00
20,700.00	90.26	359.62	11,447.36	-7,755.36	9,194.50	172.57	9,193.15	0.00	0.00	0.00
20,800.00	90.26	359.62	11,446.90	-7,754.90	9,294.50	171.89	9,293.15	0.00	0.00	0.00
20,900.00	90.26	359.62	11,446.44	-7,754.44	9,394.49	171.22	9,393.15	0.00	0.00	0.00
21,000.00	90.26	359.62	11,445.98	-7,753.98	9,494.49	170.55	9,493.15	0.00	0.00	0.00
21,100.00	90.26	359.62	11,445.52	-7,753.52	9,594.49	169.88	9,593.15	0.00	0.00	0.00
21,200.00	90.26	359.62	11,445.06	-7,753.06	9,694.48	169.21	9,693.15	0.00	0.00	0.00
21,300.00	90.26	359.61	11,444.60	-7,752.60	9,794.48	168.53	9,793.15	0.00	0.00	0.00
21,400.00	90.26	359.61	11,444.13	-7,752.13	9,894.48	167.86	9,893.15	0.00	0.00	0.00

Planning Report

Database:	Database 1	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Company:	ASCENT ENERGY	TVD Reference:	KB EST 25' @ 3692.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	North Reference:	Grid
Well:	GAVILON FED COM 706H	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)
21,500.00	90.26	359.61	11,443.67	-7,751.67	9,994.47	167.19	9,993.15	0.00	0.00	0.00
21,600.00	90.26	359.61	11,443.21	-7,751.21	10,094.47	166.52	10,093.14	0.00	0.00	0.00
21,700.00	90.26	359.61	11,442.75	-7,750.75	10,194.47	165.85	10,193.14	0.00	0.00	0.00
21,800.00	90.26	359.61	11,442.29	-7,750.29	10,294.46	165.17	10,293.14	0.00	0.00	0.00
LTP: 100ft FNL & 2310ft FWL of Sec 28										
21,812.35	90.26	359.61	11,442.23	-7,750.23	10,306.81	165.09	10,305.49	0.00	0.00	0.00
BHL: 50ft FNL & 2310ft FWL of Sec 28										
21,862.35	90.26	359.61	11,442.00	-7,750.00	10,356.81	164.75	10,355.49	0.00	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,462.00	1,462.00	RSTLR		0.00	
1,832.00	1,832.00	SALDO		0.00	
3,306.82	3,287.00	TANSIL		0.00	
3,506.18	3,482.00	YATES		0.00	
3,841.58	3,812.00	CAPITAN_REEF_TOP		0.00	
5,012.46	4,982.00	TOP_DELAWARE_SAND		0.00	
5,652.46	5,622.00	CHERRY_CANYON		0.00	
6,792.46	6,762.00	BRUSHY_CANYON		0.00	
8,522.46	8,492.00	BSPG_LIME		0.00	
8,572.46	8,542.00	AVLN		0.00	
8,917.46	8,887.00	LEONARD_B		0.00	
9,562.46	9,532.00	1ST_BSPG_SND		0.00	
9,872.46	9,842.00	2ND_BSPG		0.00	
10,130.46	10,100.00	2ND_BSPG_SND		0.00	
10,717.46	10,687.00	3RD_BSPG		0.00	
11,141.31	11,107.00	3RD BSPG S		0.00	
11,584.46	11,429.00	WC A		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: 155ft FSL & 2076ft FWL of Sec 33
2,000.00	2,000.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2,600.00	2,595.62	-44.10	44.44	EOB TO 12° INC
3,593.25	3,567.17	-189.55	191.02	END OF TANGENT
4,193.25	4,162.79	-233.65	235.46	EOD TO VERTICAL
10,944.51	10,914.05	-233.65	235.46	KOP (10°/100ft BUR)
11,411.50	11,331.03	-53.65	234.27	FTP: 100ft FSL & 2310ft FWL of Sec 33
11,847.01	11,487.00	341.80	231.64	HZ LP: 495.45ft FSL & 2310ft FWL of Sec 33
21,812.35	11,442.23	10,306.81	165.09	LTP: 100ft FNL & 2310ft FWL of Sec 28
21,862.35	11,442.00	10,356.81	164.75	BHL: 50ft FNL & 2310ft FWL of Sec 28

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	ASCENT ENERGY LLC
LEASE NO.:	NMNM057683
WELL NAME & NO.:	GAVILON FED COM 301H
SURFACE HOLE FOOTAGE:	445'/S & 1668'/E
BOTTOM HOLE FOOTAGE:	50'/N & 1650'/E
LOCATION:	SECTION 33, T20S, R33E, NMPM
COUNTY:	LEA COUNTY, NEW MEXICO
OPERATOR'S NAME:	ASCENT ENERGY LLC
LEASE NO.:	NMNM057683
WELL NAME & NO.:	GAVILON FED COM 302H
SURFACE HOLE FOOTAGE:	445'/S & 1718'/E
BOTTOM HOLE FOOTAGE:	50'/N & 2310'/E
LOCATION:	SECTION 33, T20S, R33E, NMPM
COUNTY:	LEA COUNTY, NEW MEXICO
OPERATOR'S NAME:	ASCENT ENERGY LLC
LEASE NO.:	NMNM057683
WELL NAME & NO.:	GAVILON FED COM 305H
SURFACE HOLE FOOTAGE:	355'/S & 2026'/W
BOTTOM HOLE FOOTAGE:	50'/N & 1650'/E
LOCATION:	SECTION 33, T20S, R33E, NMPM
COUNTY:	LEA COUNTY, NEW MEXICO
OPERATOR'S NAME:	ASCENT ENERGY LLC
LEASE NO.:	NMNM057683
WELL NAME & NO.:	GAVILON FED COM 306H
SURFACE HOLE FOOTAGE:	355'/S & 2076'/W
BOTTOM HOLE FOOTAGE:	50'/N & 2310'/E
LOCATION:	SECTION 33, T20S, R33E, NMPM
COUNTY:	LEA COUNTY, NEW MEXICO
OPERATOR'S NAME:	ASCENT ENERGY LLC
LEASE NO.:	NMNM057683
WELL NAME & NO.:	GAVILON FED COM 402H
SURFACE HOLE FOOTAGE:	355'/S & 2051'/W
BOTTOM HOLE FOOTAGE:	50'/N & 2310'/W
LOCATION:	SECTION 33, T20S, R33E, NMPM
COUNTY:	LEA COUNTY, NEW MEXICO
OPERATOR'S NAME:	ASCENT ENERGY LLC
LEASE NO.:	NMNM057683
WELL NAME & NO.:	GAVILON FED COM 403H
SURFACE HOLE FOOTAGE:	245'/S & 1668'/E
BOTTOM HOLE FOOTAGE:	50'/N & 1650'/E
LOCATION:	SECTION 33, T20S, R33E, NMPM
COUNTY:	LEA COUNTY, NEW MEXICO

OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE: LOCATION: COUNTY:	ASCENT ENERGY LLC NMNM057683 GAVILON FED COM 501H 245'/S & 1693'/E 50'/N & 1650'/E SECTION 33, T20S, R33E, NMPM LEA COUNTY, NEW MEXICO
OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE: LOCATION: COUNTY:	ASCENT ENERGY LLC NMNM057683 GAVILON FED COM 502H 245'/S & 1768'/E 50'/N & 2475'/E SECTION 33, T20S, R33E, NMPM LEA COUNTY, NEW MEXICO
OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE: LOCATION: COUNTY:	ASCENT ENERGY LLC NMNM057683 GAVILON FED COM 505H 155'/S & 2051'/W 50'/N & 1980'/W SECTION 33, T20S, R33E, NMPM LEA COUNTY, NEW MEXICO
OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE: LOCATION: COUNTY:	ASCENT ENERGY LLC NMNM057683 GAVILON FED COM 601H 245'/S & 1743'/E 50'/N & 2310'/E SECTION 33, T20S, R33E, NMPM LEA COUNTY, NEW MEXICO
OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE: LOCATION: COUNTY:	ASCENT ENERGY LLC NMNM057683 GAVILON FED COM 603H 155'/S & 2001'/W 50'/N & 1650'/W SECTION 33, T20S, R33E, NMPM LEA COUNTY, NEW MEXICO
OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE: LOCATION: COUNTY:	ASCENT ENERGY LLC NMNM057683 GAVILON FED COM 701H 245'/S & 1718'/E 50'/N & 2310'/E SECTION 33, T20S, R33E, NMPM LEA COUNTY, NEW MEXICO
OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE:	ASCENT ENERGY LLC NMNM057683 GAVILON FED COM 702H 445'/S & 1693'/E

BOTTOM HOLE FOOTAGE LOCATION: COUNTY:	50'N & 1650'E SECTION 33, T20S, R33E, NMPM LEA COUNTY, NEW MEXICO
OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE LOCATION: COUNTY:	ASCENT ENERGY LLC NMNM057683 GAVILON FED COM 705H 155'S & 2026'/W 50'N & 1650'/W SECTION 33, T20S, R33E, NMPM LEA COUNTY, NEW MEXICO
OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE LOCATION: COUNTY:	ASCENT ENERGY LLC NMNM057683 GAVILON FED COM 706H 155'S & 2076'/W 50'N & 2310'/W SECTION 33, T20S, R33E, NMPM LEA COUNTY, NEW MEXICO

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☐ **Special Requirements**
 - Lesser Prairie-Chicken Timing Stipulations
 - Ground-level Abandoned Well Marker
 - Potash
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 - Well Pads
 - Roads
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 - Pipelines
 - Electric Lines
- ☐ **Interim Reclamation**

☐ **Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Potash

Potash Resources

Lessees must comply with the 2012 Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Gavilon Drill Island

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

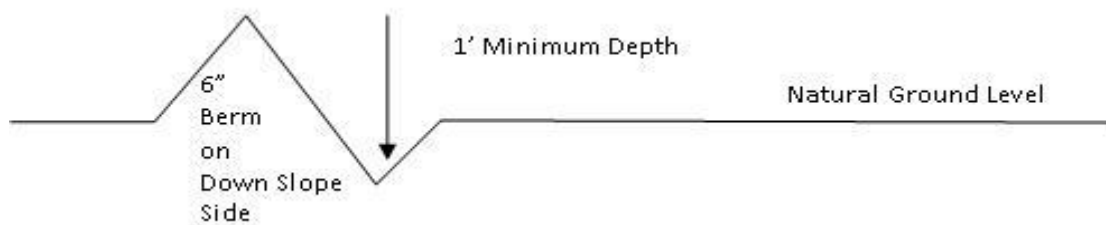
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

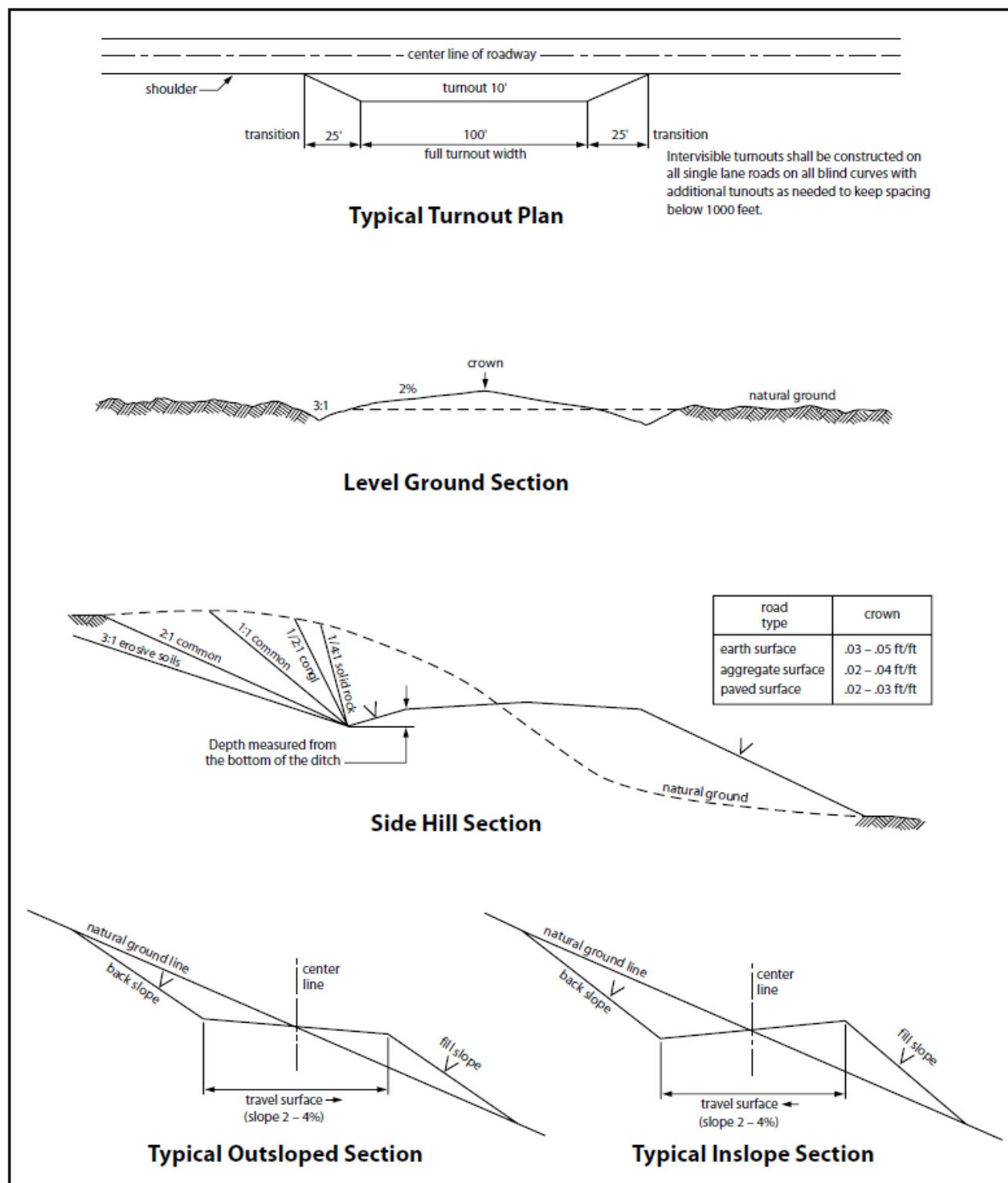


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|--|--|
| ☐ seed mixture 1 | ☐ seed mixture 3 |
| ☐ seed mixture 2 | ☐ seed mixture 4 |
| ☒ seed mixture 2/LPC | ☐ Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

19. Special Stipulations:

Wildlife:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from permanent engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Hydrology:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Tank battery locations will be lined and bermed. A 20-mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24-hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

BURIED/SURFACE LINE(S):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

ELECTRIC LINE(S):

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

Range:*Cattleguards*

Where a permanent cattlegaurd is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

C. OIL AND GAS RELATED SITES**STANDARD STIPULATIONS FOR OIL AND GAS RELATED SITES**

A copy of the application (Grant/Sundry Notice) and attachments, including stipulations and map, will be on location during construction. BLM personnel may request to view a copy of your permit during construction to ensure compliance with all stipulations.

The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant and for all response costs, penalties, damages, claims, and other costs arising from the provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Chap. 82, Section 6901 et. seq., from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Chap. 109, Section 9601 et. seq., and from other applicable environmental statues.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the site or related pipeline(s), any oil or other pollutant should be discharged from site facilities, the pipeline(s) or from containers or vehicles impacting Federal lands, the control and total removal, disposal, and cleanup of such oil or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.
5. Sites shall be maintained in an orderly, sanitary condition at all times. Waste materials, both liquid and solid, shall be disposed of promptly at an appropriate, authorized waste disposal facility in accordance with all applicable State and Federal laws. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, petroleum products, brines, chemicals, oil drums, ashes, and equipment.
6. The operator will notify the Bureau of Land Management (BLM) authorized officer and nearest Fish and Wildlife Service (FWS) Law Enforcement office within 24 hours, if the operator discovers a dead or injured federally protected species (i.e., migratory bird species, bald or golden eagle, or species listed by the FWS as threatened or endangered) in or adjacent to a pit, trench, tank, exhaust stack, or fence. (If the operator is unable to

contact the FWS Law Enforcement office, the operator must contact the nearest FWS Ecological Services office.)

7. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is **Shale Green**, Munsell Soil Color Chart Number 5Y 4/2.

8. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

9. A sales contract for removal of mineral material (caliche, sand, gravel, fill dirt) from an authorized pit, site, or on location must be obtained from the BLM prior to commencing construction. There are several options available for purchasing mineral material: contact the BLM office (575-234-5972).

10. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

11. Once the site is no longer in service or use, the site must undergo final abandonment. At final abandonment, the site and access roads must undergo "final" reclamation so that the character and productivity of the land are restored. Earthwork for final reclamation must be completed within six (6) months of the abandonment of the site. All pads and facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact. After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

12. The holder shall stockpile an adequate amount of topsoil where blading occurs. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles. The topsoil will be used for final reclamation.

13. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|--|--|
| ☐ seed mixture 1 | ☐ seed mixture 3 |
| ☐ seed mixture 2 | ☐ seed mixture 4 |
| ☒ seed mixture 2/LPC | ☐ Aplomado Falcon Mixture |

14. In those areas where erosion control structures are required to stabilize soil conditions, the holder shall install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound management practices. Any earth work will require prior approval by the Authorized Officer.

15. Open-topped Tanks - The operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps

16. The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an

impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock enclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

17. Open-Vent Exhaust Stack Enclosures – The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (Recommended enclosure structures on open-vent exhaust stacks are in the shape of a cone.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

18. Containment Structures - Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

19. Special Stipulations:

Wildlife:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from permanent engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Hydrology:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Tank battery locations will be lined and bermed. A 20-mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24-hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

BURIED/SURFACE LINE(S):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

ELECTRIC LINE(S):

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

Range:*Cattleguards*

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be

restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Potash Resources

Lessees must comply with the 2012 Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Gaviion Drill Island

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture for LPC Sand/Shinnery Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A

Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

(Insert Seed Mixture Here)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Ascent Energy LLC
LEASE NO.:	NMNM057683
WELL NAME & NO.:	Gavilon Federal Com 701H
SURFACE HOLE FOOTAGE:	245'S & 1718'E
BOTTOM HOLE FOOTAGE:	50'/N & 2310'E
LOCATION:	Section 33, T.20 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☐ None	☐ Secretary	☒ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☒ 4 String Area	☒ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Hat Mesa Pool** Formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **20 inch** surface casing shall be set at approximately **1,575 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **13-3/8 inch** intermediate 1 casing and shall be set at approximately **3,292 feet** is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In R111 Potash Areas if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
(Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)
 - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. The minimum required fill of cement behind the **9-5/8** inch intermediate 2 casing and shall be set at approximately **5,045 feet** is:

Option 1:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.
4. The minimum required fill of cement behind the **7-5/8 inch** intermediate 3 casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.
5. The minimum required fill of cement behind the **5-1/2 inch** production casing is:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

The Production Casing has an excess of 13%. Additional cement may be needed.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface, intermediate 1, and intermediate 2 casing shoes shall be **5000 (5M) psi. Variance is approved to use a 3000 (3M) Annular which shall be tested to 3000 (3M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate 3 casing shoe shall be **5000 (5M) psi.**

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

YJ (08/25/2020)

Ascent Energy, LLC
GAVILON WEST 2
SESW SEC 33, T20S, R33E N.M.P.M.
Lea County, New Mexico

H₂S Drilling Operations Plan

1. All personnel will be trained in H₂S working conditions as required by Onshore Order 6 before drilling out of the surface casing.
2. Two briefing areas will be established. Each briefing area will be $\geq 150'$ from the wellhead, perpendicular from one another, and easily entered and exited. See H₂S page 4 for more details.
3. H₂S Safety Equipment/Systems:
 - a. Well Control Equipment
 - i. Flare line will be $\geq 150'$ from the wellhead and ignited by a flare gun
 - ii. Beware of SO₂ created by flaring
 - iii. Choke manifold will have a remotely operated choke
 - iv. Mud gas separator
 - b. Protective Equipment for Personnel
 - i. Every person on site will wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the waist or chest.
 - ii. One self-contained breathing apparatus (SCBA) 30-minute rescue pack will be at each briefing area. Two 30-minute SCBA packs will be stored in the safety trailer.
 - iii. Four work/escape packs will be on the rig floor. Each pack will have a sufficiently long hose to allow unimpaired work activity.
 - iv. Four emergency escape packs will be in the doghouse for emergency evacuation.
 - v. Hand signals will be used when wearing protective breathing apparatus.
 - vi. Stokes litter or stretcher
 - vii. Two full OSHA compliant body harnesses
 - viii. A 100' long x 5/8" OSHA compliant rope
 - ix. One 20-pound ABC fire extinguisher
 - c. H₂S Detection & Monitoring Equipment
 - i. Every person on site will wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the waist or chest.
 - ii. A stationary detector with three sensors will be in the doghouse

Ascent Energy, LLC
GAVILON WEST 2
SESW SEC 33, T20S, R33E N.M.P.M.
Lea County, New Mexico

- iii. Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
 - iv. Visual alarm will be triggered at 10 ppm.
 - v. Audible alarm will be triggered at 10 ppm.
 - vi. Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.
- d. Visual Warning System
 - i. A color-coded H₂S condition sign will be set at each pad entrance.
 - ii. Color-coded condition flag will be installed to indicate current H₂S conditions.
 - iii. Two wind socks will be installed that will be visible from all sides.
- e. Mud Program
 - i. A water based mud with a pH of > 10 will be maintained to control corrosion, H₂S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
 - ii. Drilling mud containing H₂S gas will be degassed at an optimum location for the rig configuration.
 - iii. This gas will be piped into the flare system.
 - iv. Enough mud additives will be on location to scavenge and/or neutralize H₂S where formation pressures are unknown.
- f. Metallurgy
 - i. All equipment that has the potential to be exposed to H₂S will be suitable for H₂S service.
 - ii. Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).
- g. Communication from well site
 - i. Cell phones and/or two-way radios will be used to communicate from the well site.
- 4. A remote-controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H₂S.

Ascent Energy, LLC
 GAVILON WEST 2
 SESW SEC 33, T20S, R33E N.M.P.M.
 Lea County, New Mexico

Ascent Emergency Contact Numbers

Company Personnel to be Notified

Ascent Emergency Contact	(303) 281-9951
Gema Volek (Vice President of Drilling)	Cell: (785) 312-2092
Matt Ward (Chief Operations Officer)	Cell: (303) 506-6647
Dean Gimbel (Vice President Completions)	Cell: (303) 945-1323

Local and County Agencies

Monument Fire Department	911 or (575) 393-4339
Hobbs Fire Marshal	(575) 391-8185
Lea County Sheriff (Lovington)	911 or (575) 396-3611
Lea County Emergency Management (Lovington)	(575) 396-8602
Lea Regional Medical Center Hospital (Hobbs)	(575) 492-5000

State Agencies

NM State Police (Hobbs)	(575) 392-5588
NM Oil Conservation (Hobbs)	(575) 370-3186
NM oil Conservation (Santa Fe)	(505) 476-3440
NM Department of Transportation (Roswell)	(575) 637-7201

Federal Agencies

BLM Carlsbad Field Office	(575) 234-5972
BLM Hobbs Field Station	(575) 393-3612
National Response Center	(800) 424-8802
United States Environmental Protection Agency (USEPA Region 6 Dallas)	(800) 887-6063 (214) 665-6444

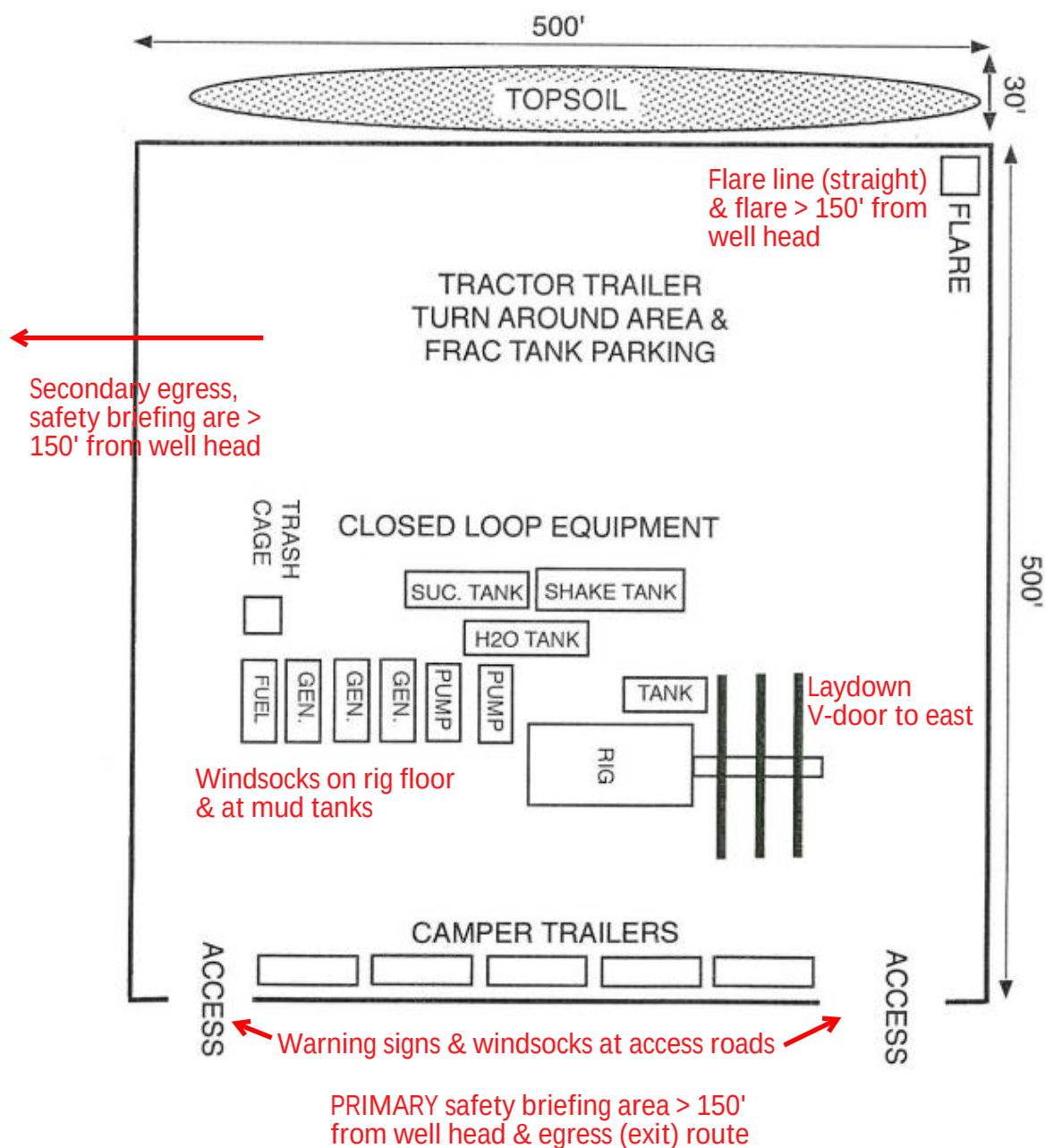
Air Evacuation

Med Flight Air Ambulance (Albuquerque)	(800) 842-4431
Lifeguard (Albuquerque)	(888) 866-7256

Veterinarians

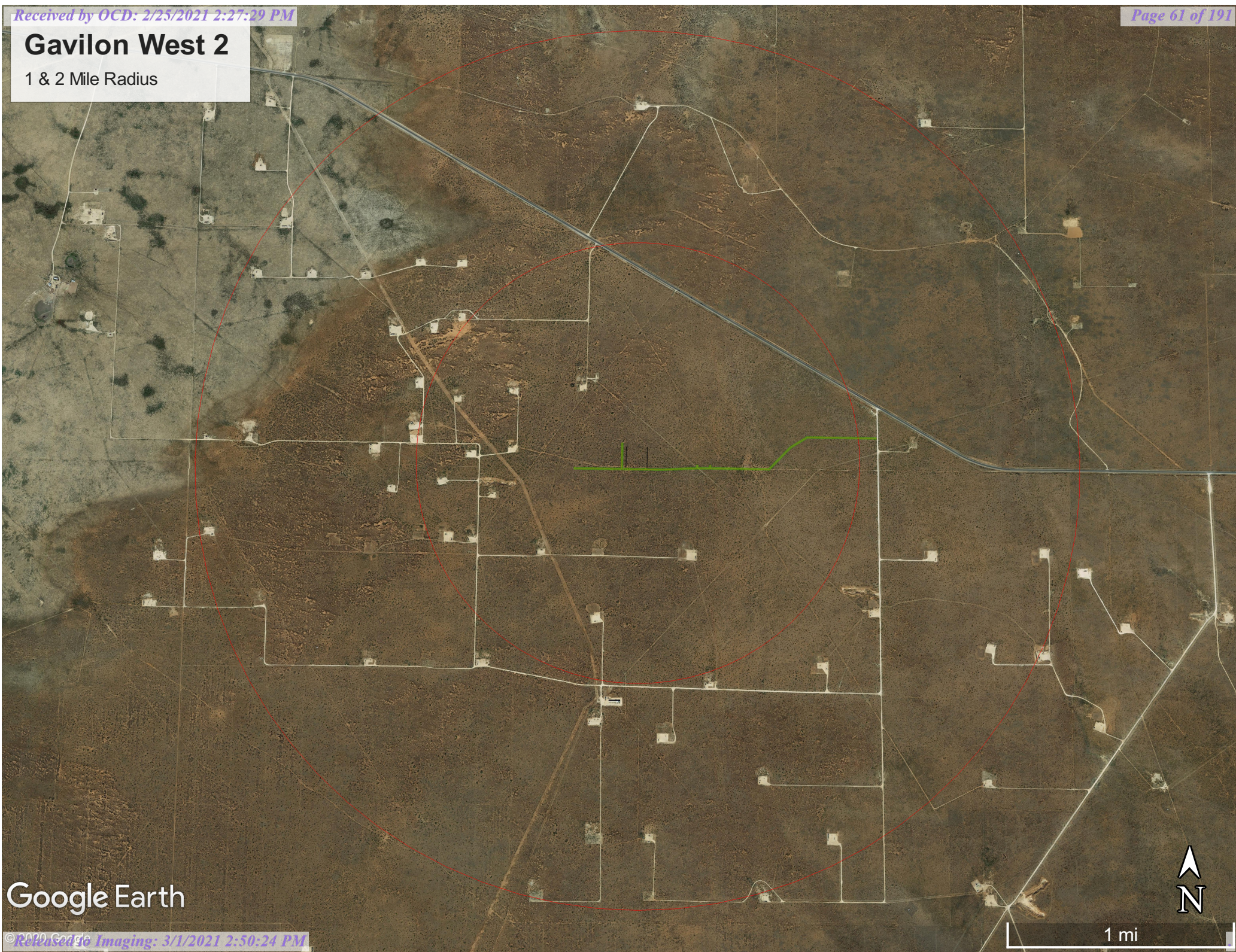
Dal Paso Animal Hospital (Hobbs)	(575) 397-2286
Hobbs Animal Clinic And Pet Care (Hobbs)	(575) 392-5563
Great Plains Veterinary Clinic and Hospital (Hobbs)	(505) 392-5513

**ASCENT ENERGY, LLC
GAVILON PAD 2
RIG LAYOUT**



Gavilon West 2

1 & 2 Mile Radius



Google Earth

1 mi

ASCENT ENERGY

LEA COUNTY, NEW MEXICO (NAD 83) (GRID)

SEC. 33 T20S R33E N.M.P.M. (GRID)

GAVILON FED COM 706H

ORIGINAL WELLBORE

PROPOSAL #1

Anticollision Report

02 April, 2020

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 10,000.00usft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2020-04-02		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	21,862.34	PROPOSAL #1 (ORIGINAL WELLBORE)	OWSG (Rev2) MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC. 33 T20S R33E N.M.P.M. (GRID)						
EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - De	13,332.25	11,444.49	1,653.46	1,372.93	5.894	CC, ES
EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - De	13,400.00	11,444.20	1,654.84	1,373.71	5.886	SF
EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 2	18,274.30	11,387.42	2,317.82	1,894.94	5.481	CC
EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 2	18,300.00	11,387.31	2,317.97	1,894.67	5.476	ES
EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 2	18,400.00	11,386.85	2,321.23	1,896.43	5.464	SF
EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #	20,257.41	11,369.89	333.40	-45.76	0.879	Level 3, CC, ES, SF
GAVILON FED COM 301H - ORIGINAL WELLBORE - P	8,302.06	8,321.87	1,225.30	1,166.37	20.794	CC
GAVILON FED COM 301H - ORIGINAL WELLBORE - P	8,400.00	8,411.59	1,225.40	1,165.82	20.569	ES
GAVILON FED COM 301H - ORIGINAL WELLBORE - P	21,862.35	19,261.87	2,858.56	2,641.78	13.187	SF
GAVILON FED COM 302H - ORIGINAL WELLBORE - P	8,302.18	8,351.09	671.33	612.16	11.346	CC
GAVILON FED COM 302H - ORIGINAL WELLBORE - P	8,400.00	8,446.47	671.39	611.56	11.223	ES
GAVILON FED COM 302H - ORIGINAL WELLBORE - P	8,600.00	8,621.65	675.63	614.82	11.110	SF
GAVILON FED COM 303H - ORIGINAL WELLBORE - P	2,000.00	1,990.00	1,359.08	1,345.22	98.094	CC, ES
GAVILON FED COM 303H - ORIGINAL WELLBORE - P	21,862.35	19,199.73	3,212.77	2,963.08	12.867	SF
GAVILON FED COM 304H - ORIGINAL WELLBORE - P	2,000.00	1,990.00	1,299.74	1,285.88	93.810	CC
GAVILON FED COM 304H - ORIGINAL WELLBORE - P	8,400.00	8,396.41	1,320.98	1,261.74	22.299	ES
GAVILON FED COM 304H - ORIGINAL WELLBORE - P	21,862.35	19,219.38	2,853.69	2,639.05	13.295	SF
GAVILON FED COM 305H - ORIGINAL WELLBORE - P	2,000.00	2,000.00	206.22	192.33	14.846	CC, ES
GAVILON FED COM 305H - ORIGINAL WELLBORE - P	8,600.00	8,592.07	666.81	606.19	10.999	SF
GAVILON FED COM 306H - ORIGINAL WELLBORE - P	8,308.31	8,320.82	50.00	-8.26	0.858	Level 3, CC, ES, SF
GAVILON FED COM 401H - ORIGINAL WELLBORE - P	2,000.00	1,990.00	1,324.45	1,310.60	95.594	CC, ES
GAVILON FED COM 401H - ORIGINAL WELLBORE - P	21,862.35	19,923.02	2,256.45	2,017.63	9.448	SF
GAVILON FED COM 402H - ORIGINAL WELLBORE - P	9,152.04	9,166.55	104.92	40.40	1.626	CC, ES, SF
GAVILON FED COM 403H - ORIGINAL WELLBORE - P	9,002.18	9,000.28	1,330.37	1,267.02	21.000	CC
GAVILON FED COM 403H - ORIGINAL WELLBORE - P	9,200.00	9,186.07	1,330.94	1,266.25	20.575	ES
GAVILON FED COM 403H - ORIGINAL WELLBORE - P	21,862.35	19,933.95	2,270.69	2,029.50	9.414	SF
GAVILON FED COM 501H - ORIGINAL WELLBORE - P	10,031.13	10,034.74	1,329.46	1,258.79	18.813	CC
GAVILON FED COM 501H - ORIGINAL WELLBORE - P	10,200.00	10,196.23	1,329.87	1,258.09	18.526	ES
GAVILON FED COM 501H - ORIGINAL WELLBORE - P	21,862.35	20,917.88	1,629.12	1,331.67	5.477	SF
GAVILON FED COM 502H - ORIGINAL WELLBORE - P	9,889.88	9,940.79	504.60	434.64	7.213	CC
GAVILON FED COM 502H - ORIGINAL WELLBORE - P	10,000.00	10,048.59	504.83	434.19	7.146	ES
GAVILON FED COM 502H - ORIGINAL WELLBORE - P	21,862.35	20,817.00	1,178.71	973.91	5.755	SF
GAVILON FED COM 503H - ORIGINAL WELLBORE - P	2,000.00	1,990.00	1,334.08	1,320.22	96.289	CC, ES
GAVILON FED COM 503H - ORIGINAL WELLBORE - P	21,862.35	20,865.31	2,218.32	1,897.51	6.915	SF
GAVILON FED COM 504H - ORIGINAL WELLBORE - P	9,805.64	9,804.07	1,154.99	1,086.02	16.745	CC
GAVILON FED COM 504H - ORIGINAL WELLBORE - P	10,000.00	9,994.11	1,155.23	1,084.96	16.441	ES

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC. 33 T20S R33E N.M.P.M. (GRID)						
GAVILON FED COM 504H - ORIGINAL WELLBORE - P	21,862.35	20,752.15	1,581.22	1,309.67	5.823	SF
GAVILON FED COM 505H - ORIGINAL WELLBORE - P	2,000.00	2,000.00	25.00	11.11	1.800	CC, ES, SF
GAVILON FED COM 601H - ORIGINAL WELLBORE - P	10,876.32	10,914.14	669.51	592.74	8.722	CC
GAVILON FED COM 601H - ORIGINAL WELLBORE - P	21,862.35	21,804.32	672.04	321.00	1.914	ES, SF
GAVILON FED COM 602H - ORIGINAL WELLBORE - P	2,000.00	1,990.00	1,309.08	1,295.22	94.485	CC, ES
GAVILON FED COM 602H - ORIGINAL WELLBORE - P	21,862.35	21,648.18	1,981.22	1,628.23	5.613	SF
GAVILON FED COM 603H - ORIGINAL WELLBORE - P	2,000.00	2,000.00	75.00	61.11	5.400	CC, ES
GAVILON FED COM 603H - ORIGINAL WELLBORE - P	21,862.35	21,741.26	662.34	310.63	1.883	SF
GAVILON FED COM 701H - ORIGINAL WELLBORE - P	19,099.80	19,349.44	701.10	448.11	2.771	CC
GAVILON FED COM 701H - ORIGINAL WELLBORE - P	21,862.35	22,109.64	701.17	366.29	2.094	ES, SF
GAVILON FED COM 702H - ORIGINAL WELLBORE - P	10,900.00	10,924.62	1,224.28	1,147.08	15.859	CC
GAVILON FED COM 702H - ORIGINAL WELLBORE - P	21,862.35	21,918.92	1,330.62	980.06	3.796	ES, SF
GAVILON FED COM 703H - ORIGINAL WELLBORE - P	2,000.00	1,990.00	1,275.03	1,261.18	92.027	CC, ES
GAVILON FED COM 703H - ORIGINAL WELLBORE - P	21,862.35	22,033.99	1,988.78	1,638.58	5.679	SF
GAVILON FED COM 704H - ORIGINAL WELLBORE - P	2,000.00	1,990.00	1,284.08	1,270.22	92.680	CC
GAVILON FED COM 704H - ORIGINAL WELLBORE - P	21,862.35	21,823.25	1,320.14	966.70	3.735	ES, SF
GAVILON FED COM 705H - ORIGINAL WELLBORE - P	2,000.00	2,000.00	50.00	36.11	3.600	CC, ES
GAVILON FED COM 705H - ORIGINAL WELLBORE - P	21,862.35	22,055.46	688.25	351.97	2.047	SF

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC				Rule Assigned:									Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance					Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-38.25	1,816.00	-1,431.64	2,312.73					
100.00	100.00	64.00	64.00	0.13	0.72	-38.25	1,816.00	-1,431.64	2,312.45	2,311.60	0.85	2,720.002		
200.00	200.00	164.00	164.00	0.49	2.60	-38.25	1,816.00	-1,431.64	2,312.45	2,309.36	3.09	748.814		
300.00	300.00	264.00	264.00	0.85	4.76	-38.25	1,816.00	-1,431.64	2,312.45	2,306.84	5.61	412.323		
400.00	400.00	364.00	364.00	1.21	6.81	-38.25	1,816.00	-1,431.64	2,312.45	2,304.43	8.02	288.239		
500.00	500.00	464.00	464.00	1.57	8.85	-38.25	1,816.00	-1,431.64	2,312.45	2,302.04	10.42	222.028		
600.00	600.00	564.00	564.00	1.93	10.87	-38.25	1,816.00	-1,431.64	2,312.45	2,299.65	12.80	180.679		
700.00	700.00	664.00	664.00	2.29	12.89	-38.25	1,816.00	-1,431.64	2,312.45	2,297.27	15.18	152.358		
800.00	800.00	764.00	764.00	2.64	14.91	-38.25	1,816.00	-1,431.64	2,312.45	2,294.90	17.55	131.733		
900.00	900.00	864.00	864.00	3.00	16.93	-38.25	1,816.00	-1,431.64	2,312.45	2,292.52	19.93	116.036		
1,000.00	1,000.00	964.00	964.00	3.36	18.94	-38.25	1,816.00	-1,431.64	2,312.45	2,290.15	22.30	103.686		
1,100.00	1,100.00	1,064.00	1,064.00	3.72	20.96	-38.25	1,816.00	-1,431.64	2,312.45	2,287.78	24.68	93.716		
1,200.00	1,200.00	1,164.00	1,164.00	4.08	22.97	-38.25	1,816.00	-1,431.64	2,312.45	2,285.40	27.05	85.497		
1,300.00	1,300.00	1,264.00	1,264.00	4.44	24.98	-38.25	1,816.00	-1,431.64	2,312.45	2,283.03	29.42	78.604		
1,400.00	1,400.00	1,364.00	1,364.00	4.79	27.00	-38.25	1,816.00	-1,431.64	2,312.45	2,280.66	31.79	72.741		
1,500.00	1,500.00	1,464.00	1,464.00	5.15	29.01	-38.25	1,816.00	-1,431.64	2,312.45	2,278.29	34.16	67.692		
1,600.00	1,600.00	1,564.00	1,564.00	5.51	31.02	-38.25	1,816.00	-1,431.64	2,312.45	2,275.92	36.53	63.299		
1,700.00	1,700.00	1,664.00	1,664.00	5.87	33.03	-38.25	1,816.00	-1,431.64	2,312.45	2,273.55	38.90	59.441		
1,800.00	1,800.00	1,764.00	1,764.00	6.23	35.05	-38.25	1,816.00	-1,431.64	2,312.45	2,271.18	41.27	56.027		
1,900.00	1,900.00	1,864.00	1,864.00	6.59	37.06	-38.25	1,816.00	-1,431.64	2,312.45	2,268.81	43.64	52.984		
2,000.00	2,000.00	1,964.00	1,964.00	6.95	39.07	-38.25	1,816.00	-1,431.64	2,312.45	2,266.44	46.01	50.255		
2,100.00	2,099.98	2,063.98	2,063.98	7.29	41.08	-173.03	1,816.00	-1,431.64	2,314.18	2,265.81	48.37	47.844		
2,200.00	2,199.84	2,163.84	2,163.84	7.62	43.09	-173.03	1,816.00	-1,431.64	2,319.38	2,268.67	50.71	45.740		
2,300.00	2,299.45	2,263.45	2,263.45	7.95	45.09	-173.04	1,816.00	-1,431.64	2,328.03	2,274.98	53.04	43.888		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft	
Survey Program:		0-INC		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
2,400.00	2,398.70	2,362.70	2,362.70	8.30	47.09	-173.05	1,816.00	-1,431.64	2,340.13	2,284.75	55.38	42.260			
2,500.00	2,497.47	2,461.47	2,461.47	8.65	49.08	-173.05	1,816.00	-1,431.64	2,355.66	2,297.96	57.70	40.828			
2,600.00	2,595.62	2,559.62	2,559.62	9.01	51.05	-173.06	1,816.00	-1,431.64	2,374.60	2,314.59	60.01	39.571			
2,700.00	2,693.44	2,657.44	2,657.44	9.39	53.02	-173.12	1,816.00	-1,431.64	2,395.25	2,332.94	62.31	38.439			
2,800.00	2,791.25	2,755.25	2,755.25	9.77	54.99	-173.18	1,816.00	-1,431.64	2,415.90	2,351.28	64.62	37.387			
2,900.00	2,889.07	2,853.07	2,853.07	10.17	56.95	-173.24	1,816.00	-1,431.64	2,436.55	2,369.62	66.93	36.406			
3,000.00	2,986.88	2,950.88	2,950.88	10.57	58.92	-173.30	1,816.00	-1,431.64	2,457.20	2,387.97	69.24	35.489			
3,100.00	3,084.70	3,048.70	3,048.70	10.99	60.89	-173.35	1,816.00	-1,431.64	2,477.86	2,406.31	71.55	34.630			
3,200.00	3,182.51	3,146.51	3,146.51	11.41	62.85	-173.41	1,816.00	-1,431.64	2,498.52	2,424.65	73.87	33.823			
3,300.00	3,280.33	3,244.33	3,244.33	11.83	64.82	-173.46	1,816.00	-1,431.64	2,519.18	2,442.99	76.19	33.065			
3,400.00	3,378.14	3,342.14	3,342.14	12.26	66.79	-173.52	1,816.00	-1,431.64	2,539.84	2,461.33	78.51	32.351			
3,500.00	3,475.96	3,439.96	3,439.96	12.69	68.76	-173.57	1,816.00	-1,431.64	2,560.51	2,479.68	80.83	31.678			
3,600.00	3,573.77	3,537.77	3,537.77	13.13	70.72	-173.62	1,816.00	-1,431.64	2,581.17	2,498.01	83.15	31.041			
3,700.00	3,671.97	3,635.97	3,635.97	13.57	72.70	-173.71	1,816.00	-1,431.64	2,599.90	2,514.42	85.48	30.414			
3,800.00	3,770.78	3,734.78	3,734.78	13.98	74.69	-173.78	1,816.00	-1,431.64	2,615.22	2,527.40	87.83	29.777			
3,900.00	3,870.05	3,834.05	3,834.05	14.38	76.68	-173.84	1,816.00	-1,431.64	2,627.11	2,536.93	90.18	29.133			
4,000.00	3,969.69	3,933.69	3,933.69	14.75	78.69	-173.87	1,816.00	-1,431.64	2,635.54	2,543.01	92.53	28.482			
4,100.00	4,069.56	4,033.56	4,033.56	15.11	80.70	-173.90	1,816.00	-1,431.64	2,640.51	2,545.62	94.89	27.826			
4,200.00	4,169.54	4,133.54	4,133.54	15.44	82.71	-39.12	1,816.00	-1,431.64	2,642.02	2,544.77	97.25	27.167			
4,300.00	4,269.54	4,233.54	4,233.54	15.77	84.72	-39.12	1,816.00	-1,431.64	2,642.02	2,542.41	99.61	26.525			
4,400.00	4,369.54	4,333.54	4,333.54	16.10	86.73	-39.12	1,816.00	-1,431.64	2,642.02	2,540.06	101.96	25.912			
4,500.00	4,469.54	4,433.54	4,433.54	16.43	88.74	-39.12	1,816.00	-1,431.64	2,642.02	2,537.70	104.32	25.326			
4,600.00	4,569.54	4,533.54	4,533.54	16.76	90.75	-39.12	1,816.00	-1,431.64	2,642.02	2,535.34	106.68	24.766			
4,700.00	4,669.54	4,633.54	4,633.54	17.09	92.76	-39.12	1,816.00	-1,431.64	2,642.02	2,532.98	109.04	24.231			
4,800.00	4,769.54	4,733.54	4,733.54	17.43	94.77	-39.12	1,816.00	-1,431.64	2,642.02	2,530.62	111.39	23.718			
4,900.00	4,869.54	4,833.54	4,833.54	17.76	96.78	-39.12	1,816.00	-1,431.64	2,642.02	2,528.27	113.75	23.226			
5,000.00	4,969.54	4,933.54	4,933.54	18.10	98.79	-39.12	1,816.00	-1,431.64	2,642.02	2,525.91	116.11	22.754			
5,100.00	5,069.54	5,033.54	5,033.54	18.43	100.81	-39.12	1,816.00	-1,431.64	2,642.02	2,523.55	118.47	22.300			
5,200.00	5,169.54	5,133.54	5,133.54	18.77	102.82	-39.12	1,816.00	-1,431.64	2,642.02	2,521.19	120.83	21.865			
5,300.00	5,269.54	5,233.54	5,233.54	19.11	104.83	-39.12	1,816.00	-1,431.64	2,642.02	2,518.82	123.19	21.446			
5,400.00	5,369.54	5,333.54	5,333.54	19.45	106.84	-39.12	1,816.00	-1,431.64	2,642.02	2,516.46	125.56	21.043			
5,500.00	5,469.54	5,433.54	5,433.54	19.79	108.85	-39.12	1,816.00	-1,431.64	2,642.02	2,514.10	127.92	20.654			
5,600.00	5,569.54	5,533.54	5,533.54	20.13	110.86	-39.12	1,816.00	-1,431.64	2,642.02	2,511.74	130.28	20.280			
5,700.00	5,669.54	5,633.54	5,633.54	20.47	112.87	-39.12	1,816.00	-1,431.64	2,642.02	2,509.38	132.64	19.919			
5,800.00	5,769.54	5,733.54	5,733.54	20.81	114.88	-39.12	1,816.00	-1,431.64	2,642.02	2,507.02	135.00	19.570			
5,900.00	5,869.54	5,833.54	5,833.54	21.15	116.89	-39.12	1,816.00	-1,431.64	2,642.02	2,504.65	137.37	19.233			
6,000.00	5,969.54	5,933.54	5,933.54	21.49	118.91	-39.12	1,816.00	-1,431.64	2,642.02	2,502.29	139.73	18.908			
6,100.00	6,069.54	6,033.54	6,033.54	21.83	120.92	-39.12	1,816.00	-1,431.64	2,642.02	2,499.93	142.09	18.594			
6,200.00	6,169.54	6,133.54	6,133.54	22.18	122.93	-39.12	1,816.00	-1,431.64	2,642.02	2,497.56	144.45	18.290			
6,300.00	6,269.54	6,233.54	6,233.54	22.52	124.94	-39.12	1,816.00	-1,431.64	2,642.02	2,495.20	146.82	17.995			
6,400.00	6,369.54	6,333.54	6,333.54	22.87	126.95	-39.12	1,816.00	-1,431.64	2,642.02	2,492.84	149.18	17.710			
6,500.00	6,469.54	6,433.54	6,433.54	23.21	128.96	-39.12	1,816.00	-1,431.64	2,642.02	2,490.47	151.55	17.434			
6,600.00	6,569.54	6,533.54	6,533.54	23.56	130.97	-39.12	1,816.00	-1,431.64	2,642.02	2,488.11	153.91	17.166			
6,700.00	6,669.54	6,633.54	6,633.54	23.90	132.98	-39.12	1,816.00	-1,431.64	2,642.02	2,485.75	156.27	16.906			
6,800.00	6,769.54	6,733.54	6,733.54	24.25	134.99	-39.12	1,816.00	-1,431.64	2,642.02	2,483.38	158.64	16.654			
6,900.00	6,869.54	6,833.54	6,833.54	24.59	137.00	-39.12	1,816.00	-1,431.64	2,642.02	2,481.02	161.00	16.410			
7,000.00	6,969.54	6,933.54	6,933.54	24.94	139.02	-39.12	1,816.00	-1,431.64	2,642.02	2,478.65	163.37	16.172			
7,100.00	7,069.54	7,033.54	7,033.54	25.29	141.03	-39.12	1,816.00	-1,431.64	2,642.02	2,476.29	165.73	15.942			
7,200.00	7,169.54	7,133.54	7,133.54	25.63	143.04	-39.12	1,816.00	-1,431.64	2,642.02	2,473.92	168.10	15.717			
7,300.00	7,269.54	7,233.54	7,233.54	25.98	145.05	-39.12	1,816.00	-1,431.64	2,642.02	2,471.56	170.46	15.499			
7,400.00	7,369.54	7,333.54	7,333.54	26.33	147.06	-39.12	1,816.00	-1,431.64	2,642.02	2,469.19	172.83	15.287			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft	
Survey Program:		0-INC		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured	Reference	Measured	Vertical	Reference	Offset	Highside				Between	Between	Minimum	Separation	Warning	
Depth	Vertical	Depth	Depth			Toolface				Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)				(usft)	(usft)	(usft)			
7,500.00	7,469.54	7,433.54	7,433.54	26.68	149.07	-39.12	1,816.00	-1,431.64	2,642.02	2,466.83	175.19	15.081			
7,600.00	7,569.54	7,533.54	7,533.54	27.03	151.08	-39.12	1,816.00	-1,431.64	2,642.02	2,464.46	177.56	14.880			
7,700.00	7,669.54	7,633.54	7,633.54	27.37	153.09	-39.12	1,816.00	-1,431.64	2,642.02	2,462.10	179.92	14.684			
7,800.00	7,769.54	7,733.54	7,733.54	27.72	155.10	-39.12	1,816.00	-1,431.64	2,642.02	2,459.73	182.29	14.494			
7,900.00	7,869.54	7,833.54	7,833.54	28.07	157.11	-39.12	1,816.00	-1,431.64	2,642.02	2,457.37	184.65	14.308			
8,000.00	7,969.54	7,933.54	7,933.54	28.42	159.13	-39.12	1,816.00	-1,431.64	2,642.02	2,455.00	187.02	14.127			
8,100.00	8,069.54	8,033.54	8,033.54	28.77	161.14	-39.12	1,816.00	-1,431.64	2,642.02	2,452.63	189.38	13.951			
8,200.00	8,169.54	8,133.54	8,133.54	29.12	163.15	-39.12	1,816.00	-1,431.64	2,642.02	2,450.27	191.75	13.778			
8,300.00	8,269.54	8,233.54	8,233.54	29.47	165.16	-39.12	1,816.00	-1,431.64	2,642.02	2,447.90	194.12	13.610			
8,400.00	8,369.54	8,333.54	8,333.54	29.82	167.17	-39.12	1,816.00	-1,431.64	2,642.02	2,445.54	196.48	13.447			
8,500.00	8,469.54	8,433.54	8,433.54	30.17	169.18	-39.12	1,816.00	-1,431.64	2,642.02	2,443.17	198.85	13.287			
8,600.00	8,569.54	8,533.54	8,533.54	30.52	171.19	-39.12	1,816.00	-1,431.64	2,642.02	2,440.80	201.21	13.130			
8,700.00	8,669.54	8,633.54	8,633.54	30.87	173.20	-39.12	1,816.00	-1,431.64	2,642.02	2,438.44	203.58	12.978			
8,800.00	8,769.54	8,733.54	8,733.54	31.22	175.21	-39.12	1,816.00	-1,431.64	2,642.02	2,436.07	205.95	12.829			
8,900.00	8,869.54	8,833.54	8,833.54	31.57	177.22	-39.12	1,816.00	-1,431.64	2,642.02	2,433.71	208.31	12.683			
9,000.00	8,969.54	8,933.54	8,933.54	31.93	179.24	-39.12	1,816.00	-1,431.64	2,642.02	2,431.34	210.68	12.540			
9,100.00	9,069.54	9,033.54	9,033.54	32.28	181.25	-39.12	1,816.00	-1,431.64	2,642.02	2,428.97	213.05	12.401			
9,200.00	9,169.54	9,133.54	9,133.54	32.63	183.26	-39.12	1,816.00	-1,431.64	2,642.02	2,426.61	215.41	12.265			
9,300.00	9,269.54	9,233.54	9,233.54	32.98	185.27	-39.12	1,816.00	-1,431.64	2,642.02	2,424.24	217.78	12.132			
9,400.00	9,369.54	9,333.54	9,333.54	33.33	187.28	-39.12	1,816.00	-1,431.64	2,642.02	2,421.87	220.15	12.001			
9,500.00	9,469.54	9,433.54	9,433.54	33.68	189.29	-39.12	1,816.00	-1,431.64	2,642.02	2,419.51	222.51	11.874			
9,600.00	9,569.54	9,533.54	9,533.54	34.04	191.30	-39.12	1,816.00	-1,431.64	2,642.02	2,417.14	224.88	11.749			
9,700.00	9,669.54	9,633.54	9,633.54	34.39	193.31	-39.12	1,816.00	-1,431.64	2,642.02	2,414.77	227.25	11.626			
9,800.00	9,769.54	9,733.54	9,733.54	34.74	195.32	-39.12	1,816.00	-1,431.64	2,642.02	2,412.40	229.61	11.506			
9,900.00	9,869.54	9,833.54	9,833.54	35.09	197.33	-39.12	1,816.00	-1,431.64	2,642.02	2,410.04	231.98	11.389			
10,000.00	9,969.54	9,933.54	9,933.54	35.45	199.34	-39.12	1,816.00	-1,431.64	2,642.02	2,407.67	234.35	11.274			
10,100.00	10,069.54	10,033.54	10,033.54	35.80	201.36	-39.12	1,816.00	-1,431.64	2,642.02	2,405.30	236.72	11.161			
10,200.00	10,169.54	10,133.54	10,133.54	36.15	203.37	-39.12	1,816.00	-1,431.64	2,642.02	2,402.94	239.08	11.051			
10,300.00	10,269.54	10,233.54	10,233.54	36.51	205.38	-39.12	1,816.00	-1,431.64	2,642.02	2,400.57	241.45	10.942			
10,400.00	10,369.54	10,333.54	10,333.54	36.86	207.39	-39.12	1,816.00	-1,431.64	2,642.02	2,398.20	243.82	10.836			
10,500.00	10,469.54	10,433.54	10,433.54	37.21	209.40	-39.12	1,816.00	-1,431.64	2,642.02	2,395.83	246.18	10.732			
10,600.00	10,569.54	10,533.54	10,533.54	37.57	211.41	-39.12	1,816.00	-1,431.64	2,642.02	2,393.47	248.55	10.630			
10,700.00	10,669.54	10,633.54	10,633.54	37.92	213.42	-39.12	1,816.00	-1,431.64	2,642.02	2,391.10	250.92	10.529			
10,800.00	10,769.54	10,733.54	10,733.54	38.27	215.43	-39.12	1,816.00	-1,431.64	2,642.02	2,388.73	253.29	10.431			
10,900.00	10,869.54	10,833.54	10,833.54	38.63	217.44	-39.12	1,816.00	-1,431.64	2,642.02	2,386.36	255.65	10.334			
11,000.00	10,969.45	10,933.45	10,933.45	38.98	219.45	-38.91	1,816.00	-1,431.64	2,639.93	2,381.91	258.02	10.232			
11,100.00	11,067.64	11,031.64	11,031.64	39.30	221.43	-40.08	1,816.00	-1,431.64	2,625.70	2,365.36	260.33	10.086			
11,200.00	11,161.16	11,125.16	11,125.16	39.59	223.31	-42.43	1,816.00	-1,431.64	2,598.56	2,336.03	262.53	9.898			
11,300.00	11,247.17	11,211.17	11,211.17	39.83	225.04	-46.13	1,816.00	-1,431.64	2,559.60	2,295.06	264.54	9.676			
11,400.00	11,323.06	11,287.06	11,287.06	40.03	226.56	-51.34	1,816.00	-1,431.64	2,510.39	2,244.08	266.31	9.427			
11,500.00	11,386.52	11,350.52	11,350.52	40.18	227.84	-58.21	1,816.00	-1,431.64	2,452.89	2,185.08	267.80	9.159			
11,600.00	11,435.62	11,399.62	11,399.62	40.33	228.83	-66.65	1,816.00	-1,431.64	2,389.37	2,120.38	268.99	8.883			
11,700.00	11,468.88	11,432.88	11,432.88	40.54	229.50	-76.17	1,816.00	-1,431.64	2,322.30	2,052.45	269.85	8.606			
11,800.00	11,485.28	11,449.28	11,449.28	40.77	229.83	-85.89	1,816.00	-1,431.64	2,254.21	1,983.84	270.38	8.337			
11,900.00	11,486.77	11,450.77	11,450.77	41.03	229.86	-90.22	1,816.00	-1,431.64	2,187.50	1,916.88	270.63	8.083			
12,000.00	11,486.33	11,450.33	11,450.33	41.36	229.85	-90.20	1,816.00	-1,431.64	2,123.38	1,852.49	270.89	7.838			
12,100.00	11,485.90	11,449.90	11,449.90	41.74	229.84	-90.19	1,816.00	-1,431.64	2,062.11	1,790.89	271.22	7.603			
12,200.00	11,485.46	11,449.46	11,449.46	42.19	229.83	-90.17	1,816.00	-1,431.64	2,003.96	1,732.34	271.62	7.378			
12,300.00	11,485.02	11,449.02	11,449.02	42.70	229.82	-90.16	1,816.00	-1,431.64	1,949.21	1,677.12	272.08	7.164			
12,400.00	11,484.59	11,448.59	11,448.59	43.26	229.81	-90.14	1,816.00	-1,431.64	1,898.15	1,625.52	272.63	6.962			
12,500.00	11,484.15	11,448.15	11,448.15	43.88	229.80	-90.13	1,816.00	-1,431.64	1,851.09	1,577.84	273.25	6.774			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Reference (usft)	Semi Major Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.00	11,483.71	11,447.71	11,447.71	44.55	229.79	-90.11	1,816.00	-1,431.64	1,808.34	1,534.39	273.95	6.601	
12,700.00	11,483.27	11,447.27	11,447.27	45.27	229.79	-90.10	1,816.00	-1,431.64	1,770.21	1,495.49	274.72	6.444	
12,800.00	11,482.83	11,446.83	11,446.83	46.04	229.78	-90.08	1,816.00	-1,431.64	1,737.01	1,461.45	275.56	6.304	
12,900.00	11,482.39	11,446.39	11,446.39	46.85	229.77	-90.07	1,816.00	-1,431.64	1,709.02	1,432.57	276.45	6.182	
13,000.00	11,481.95	11,445.95	11,445.95	47.71	229.76	-90.05	1,816.00	-1,431.64	1,686.51	1,409.13	277.38	6.080	
13,100.00	11,481.52	11,445.52	11,445.52	48.61	229.75	-90.04	1,816.00	-1,431.64	1,669.69	1,391.36	278.33	5.999	
13,200.00	11,481.08	11,445.08	11,445.08	49.55	229.74	-90.02	1,816.00	-1,431.64	1,658.74	1,379.45	279.29	5.939	
13,300.00	11,480.64	11,444.64	11,444.64	50.52	229.73	-90.00	1,816.00	-1,431.64	1,653.77	1,373.54	280.23	5.902	
13,332.25	11,480.49	11,444.49	11,444.49	50.85	229.73	-90.00	1,816.00	-1,431.64	1,653.46	1,372.93	280.53	5.894 CC, ES	
13,400.00	11,480.20	11,444.20	11,444.20	51.53	229.72	-89.99	1,816.00	-1,431.64	1,654.84	1,373.71	281.13	5.886 SF	
13,500.00	11,479.75	11,443.75	11,443.75	52.57	229.71	-89.97	1,816.00	-1,431.64	1,661.94	1,379.96	281.99	5.894	
13,600.00	11,479.31	11,443.31	11,443.31	53.65	229.71	-89.96	1,816.00	-1,431.64	1,675.00	1,392.23	282.77	5.924	
13,700.00	11,478.87	11,442.87	11,442.87	54.75	229.70	-89.94	1,816.00	-1,431.64	1,693.86	1,410.39	283.47	5.975	
13,800.00	11,478.43	11,442.43	11,442.43	55.88	229.69	-89.93	1,816.00	-1,431.64	1,718.34	1,434.25	284.09	6.049	
13,900.00	11,477.99	11,441.99	11,441.99	57.03	229.68	-89.91	1,816.00	-1,431.64	1,748.21	1,463.59	284.63	6.142	
14,000.00	11,477.55	11,441.55	11,441.55	58.21	229.67	-89.90	1,816.00	-1,431.64	1,783.20	1,498.13	285.07	6.255	
14,100.00	11,477.11	11,441.11	11,441.11	59.41	229.66	-89.88	1,816.00	-1,431.64	1,823.00	1,537.58	285.43	6.387	
14,200.00	11,476.66	11,440.66	11,440.66	60.64	229.65	-89.87	1,816.00	-1,431.64	1,867.32	1,581.61	285.71	6.536	
14,300.00	11,476.22	11,440.22	11,440.22	61.88	229.64	-89.85	1,816.00	-1,431.64	1,915.84	1,629.92	285.92	6.701	
14,400.00	11,475.78	11,439.78	11,439.78	63.14	229.63	-89.84	1,816.00	-1,431.64	1,968.24	1,682.18	286.06	6.880	
14,500.00	11,475.34	11,439.34	11,439.34	64.42	229.63	-89.82	1,816.00	-1,431.64	2,024.23	1,738.08	286.15	7.074	
14,600.00	11,474.89	11,438.89	11,438.89	65.72	229.62	-89.81	1,816.00	-1,431.64	2,083.52	1,797.33	286.20	7.280	
14,700.00	11,474.45	11,438.45	11,438.45	67.03	229.61	-89.79	1,816.00	-1,431.64	2,145.83	1,859.64	286.20	7.498	
14,800.00	11,474.00	11,438.00	11,438.00	68.36	229.60	-89.77	1,816.00	-1,431.64	2,210.92	1,924.75	286.17	7.726	
14,900.00	11,473.56	11,437.56	11,437.56	69.70	229.59	-89.76	1,816.00	-1,431.64	2,278.53	1,992.42	286.11	7.964	
15,000.00	11,473.12	11,437.12	11,437.12	71.06	229.58	-89.74	1,816.00	-1,431.64	2,348.45	2,062.42	286.03	8.211	
15,100.00	11,472.67	11,436.67	11,436.67	72.43	229.57	-89.73	1,816.00	-1,431.64	2,420.49	2,134.56	285.93	8.465	
15,200.00	11,472.23	11,436.23	11,436.23	73.81	229.56	-89.71	1,816.00	-1,431.64	2,494.45	2,208.63	285.82	8.727	
15,300.00	11,471.78	11,435.78	11,435.78	75.20	229.55	-89.70	1,816.00	-1,431.64	2,570.18	2,284.48	285.70	8.996	
15,400.00	11,471.34	11,435.34	11,435.34	76.60	229.55	-89.68	1,816.00	-1,431.64	2,647.52	2,361.95	285.57	9.271	
15,500.00	11,470.89	11,434.89	11,434.89	78.01	229.54	-89.67	1,816.00	-1,431.64	2,726.34	2,440.89	285.44	9.551	
15,600.00	11,470.44	11,434.44	11,434.44	79.43	229.53	-89.65	1,816.00	-1,431.64	2,806.50	2,521.19	285.31	9.837	
15,700.00	11,470.00	11,434.00	11,434.00	80.86	229.52	-89.63	1,816.00	-1,431.64	2,887.90	2,602.73	285.18	10.127	
15,800.00	11,469.55	11,433.55	11,433.55	82.30	229.51	-89.62	1,816.00	-1,431.64	2,970.44	2,685.40	285.04	10.421	
15,900.00	11,469.10	11,433.10	11,433.10	83.74	229.50	-89.60	1,816.00	-1,431.64	3,054.02	2,769.11	284.91	10.719	
16,000.00	11,468.66	11,432.66	11,432.66	85.20	229.49	-89.59	1,816.00	-1,431.64	3,138.56	2,853.79	284.78	11.021	
16,100.00	11,468.21	11,432.21	11,432.21	86.66	229.48	-89.57	1,816.00	-1,431.64	3,223.99	2,939.34	284.65	11.326	
16,200.00	11,467.76	11,431.76	11,431.76	88.13	229.47	-89.56	1,816.00	-1,431.64	3,310.23	3,025.71	284.53	11.634	
16,300.00	11,467.32	11,431.32	11,431.32	89.60	229.46	-89.54	1,816.00	-1,431.64	3,397.23	3,112.82	284.41	11.945	
16,400.00	11,466.87	11,430.87	11,430.87	91.08	229.46	-89.52	1,816.00	-1,431.64	3,484.93	3,200.64	284.29	12.258	
16,500.00	11,466.42	11,430.42	11,430.42	92.57	229.45	-89.51	1,816.00	-1,431.64	3,573.27	3,289.09	284.18	12.574	
16,600.00	11,465.97	11,429.97	11,429.97	94.06	229.44	-89.49	1,816.00	-1,431.64	3,662.21	3,378.14	284.07	12.892	
16,700.00	11,465.52	11,429.52	11,429.52	95.56	229.43	-89.48	1,816.00	-1,431.64	3,751.71	3,467.74	283.97	13.212	
16,800.00	11,465.07	11,429.07	11,429.07	97.06	229.42	-89.46	1,816.00	-1,431.64	3,841.72	3,557.85	283.87	13.533	
16,900.00	11,464.62	11,428.62	11,428.62	98.57	229.41	-89.44	1,816.00	-1,431.64	3,932.22	3,648.44	283.78	13.857	
17,000.00	11,464.17	11,428.17	11,428.17	100.08	229.40	-89.43	1,816.00	-1,431.64	4,023.17	3,739.48	283.69	14.182	
17,100.00	11,463.72	11,427.72	11,427.72	101.60	229.39	-89.41	1,816.00	-1,431.64	4,114.53	3,830.93	283.60	14.508	
17,200.00	11,463.27	11,427.27	11,427.27	103.12	229.38	-89.40	1,816.00	-1,431.64	4,206.30	3,922.77	283.52	14.836	
17,300.00	11,462.82	11,426.82	11,426.82	104.65	229.37	-89.38	1,816.00	-1,431.64	4,298.42	4,014.98	283.45	15.165	
17,400.00	11,462.37	11,426.37	11,426.37	106.18	229.37	-89.36	1,816.00	-1,431.64	4,390.90	4,107.52	283.38	15.495	
17,500.00	11,461.92	11,425.92	11,425.92	107.71	229.36	-89.35	1,816.00	-1,431.64	4,483.69	4,200.38	283.31	15.826	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft	
Survey Program: 0-INC			Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Distance	Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
17,600.00	11,461.47	11,425.47	11,425.47	109.25	229.35	-89.33	1,816.00	-1,431.64	4,576.79	4,293.55	283.24	16.158			
17,700.00	11,461.02	11,425.02	11,425.02	110.79	229.34	-89.32	1,816.00	-1,431.64	4,670.17	4,386.99	283.18	16.492			
17,800.00	11,460.57	11,424.57	11,424.57	112.33	229.33	-89.30	1,816.00	-1,431.64	4,763.83	4,480.70	283.13	16.826			
17,900.00	11,460.12	11,424.12	11,424.12	113.88	229.32	-89.28	1,816.00	-1,431.64	4,857.73	4,574.66	283.08	17.160			
18,000.00	11,459.66	11,423.66	11,423.66	115.43	229.31	-89.27	1,816.00	-1,431.64	4,951.88	4,668.85	283.03	17.496			
18,100.00	11,459.21	11,423.21	11,423.21	116.98	229.30	-89.25	1,816.00	-1,431.64	5,046.25	4,763.26	282.98	17.832			
18,200.00	11,458.76	11,422.76	11,422.76	118.54	229.29	-89.24	1,816.00	-1,431.64	5,140.83	4,857.89	282.94	18.169			
18,300.00	11,458.31	11,422.31	11,422.31	120.09	229.28	-89.22	1,816.00	-1,431.64	5,235.61	4,952.71	282.91	18.507			
18,400.00	11,457.85	11,421.85	11,421.85	121.66	229.27	-89.20	1,816.00	-1,431.64	5,330.59	5,047.71	282.87	18.845			
18,500.00	11,457.40	11,421.40	11,421.40	123.22	229.27	-89.19	1,816.00	-1,431.64	5,425.74	5,142.90	282.84	19.183			
18,600.00	11,456.95	11,420.95	11,420.95	124.78	229.26	-89.17	1,816.00	-1,431.64	5,521.07	5,238.25	282.81	19.522			
18,700.00	11,456.49	11,420.49	11,420.49	126.35	229.25	-89.16	1,816.00	-1,431.64	5,616.55	5,333.77	282.79	19.861			
18,800.00	11,456.04	11,420.04	11,420.04	127.92	229.24	-89.14	1,816.00	-1,431.64	5,712.20	5,429.43	282.77	20.201			
18,900.00	11,455.58	11,419.58	11,419.58	129.50	229.23	-89.12	1,816.00	-1,431.64	5,807.99	5,525.24	282.75	20.541			
19,000.00	11,455.13	11,419.13	11,419.13	131.07	229.22	-89.11	1,816.00	-1,431.64	5,903.92	5,621.19	282.73	20.882			
19,100.00	11,454.67	11,418.67	11,418.67	132.65	229.21	-89.09	1,816.00	-1,431.64	5,999.98	5,717.26	282.72	21.223			
19,200.00	11,454.22	11,418.22	11,418.22	134.22	229.20	-89.07	1,816.00	-1,431.64	6,096.17	5,813.46	282.71	21.564			
19,300.00	11,453.76	11,417.76	11,417.76	135.80	229.19	-89.06	1,816.00	-1,431.64	6,192.48	5,909.78	282.70	21.905			
19,400.00	11,453.31	11,417.31	11,417.31	137.39	229.18	-89.04	1,816.00	-1,431.64	6,288.90	6,006.21	282.69	22.246			
19,500.00	11,452.85	11,416.85	11,416.85	138.97	229.17	-89.03	1,816.00	-1,431.64	6,385.43	6,102.74	282.69	22.588			
19,600.00	11,452.39	11,416.39	11,416.39	140.56	229.16	-89.01	1,816.00	-1,431.64	6,482.07	6,199.38	282.69	22.930			
19,700.00	11,451.94	11,415.94	11,415.94	142.14	229.16	-88.99	1,816.00	-1,431.64	6,578.81	6,296.12	282.69	23.272			
19,800.00	11,451.48	11,415.48	11,415.48	143.73	229.15	-88.98	1,816.00	-1,431.64	6,675.65	6,392.95	282.69	23.614			
19,900.00	11,451.02	11,415.02	11,415.02	145.32	229.14	-88.96	1,816.00	-1,431.64	6,772.58	6,489.88	282.70	23.957			
20,000.00	11,450.57	11,414.57	11,414.57	146.91	229.13	-88.94	1,816.00	-1,431.64	6,869.59	6,586.88	282.71	24.299			
20,100.00	11,450.11	11,414.11	11,414.11	148.51	229.12	-88.93	1,816.00	-1,431.64	6,966.69	6,683.97	282.72	24.642			
20,200.00	11,449.65	11,413.65	11,413.65	150.10	229.11	-88.91	1,816.00	-1,431.64	7,063.87	6,781.14	282.73	24.984			
20,300.00	11,449.19	11,413.19	11,413.19	151.70	229.10	-88.89	1,816.00	-1,431.64	7,161.13	6,878.38	282.75	25.327			
20,400.00	11,448.73	11,412.73	11,412.73	153.29	229.09	-88.88	1,816.00	-1,431.64	7,258.46	6,975.70	282.76	25.670			
20,500.00	11,448.27	11,412.27	11,412.27	154.89	229.08	-88.86	1,816.00	-1,431.64	7,355.87	7,073.09	282.78	26.013			
20,600.00	11,447.82	11,411.82	11,411.82	156.49	229.07	-88.84	1,816.00	-1,431.64	7,453.34	7,170.54	282.80	26.355			
20,700.00	11,447.36	11,411.36	11,411.36	158.09	229.06	-88.83	1,816.00	-1,431.64	7,550.88	7,268.06	282.82	26.698			
20,800.00	11,446.90	11,410.90	11,410.90	159.70	229.05	-88.81	1,816.00	-1,431.64	7,648.48	7,365.64	282.85	27.041			
20,900.00	11,446.44	11,410.44	11,410.44	161.30	229.04	-88.79	1,816.00	-1,431.64	7,746.15	7,463.27	282.87	27.384			
21,000.00	11,445.98	11,409.98	11,409.98	162.90	229.04	-88.78	1,816.00	-1,431.64	7,843.87	7,560.97	282.90	27.727			
21,100.00	11,445.52	11,409.52	11,409.52	164.51	229.03	-88.76	1,816.00	-1,431.64	7,941.65	7,658.72	282.93	28.069			
21,200.00	11,445.06	11,409.06	11,409.06	166.11	229.02	-88.74	1,816.00	-1,431.64	8,039.48	7,756.52	282.96	28.412			
21,300.00	11,444.60	11,408.60	11,408.60	167.72	229.01	-88.73	1,816.00	-1,431.64	8,137.37	7,854.37	282.99	28.755			
21,400.00	11,444.14	11,408.14	11,408.14	169.33	229.00	-88.71	1,816.00	-1,431.64	8,235.31	7,952.28	283.03	29.097			
21,500.00	11,443.67	11,407.67	11,407.67	170.94	228.99	-88.69	1,816.00	-1,431.64	8,333.29	8,050.23	283.06	29.440			
21,600.00	11,443.21	11,407.21	11,407.21	172.55	228.98	-88.68	1,816.00	-1,431.64	8,431.33	8,148.22	283.10	29.782			
21,700.00	11,442.75	11,406.75	11,406.75	174.16	228.97	-88.66	1,816.00	-1,431.64	8,529.40	8,246.26	283.14	30.124			
21,800.00	11,442.29	11,406.29	11,406.29	175.77	228.96	-88.64	1,816.00	-1,431.64	8,627.53	8,344.35	283.18	30.467			
21,862.35	11,442.00	11,406.00	11,406.00	176.77	228.96	-88.63	1,816.00	-1,431.64	8,688.72	8,405.52	283.21	30.680			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 -												Offset Site Error:	0.00 usft
Survey Program: 14375-INC												Offset Well Error:	0.00 usft
Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)		Between Centres (usft)		Minimum Separation (usft)		Separation Factor		Warning			
0.00	0.00	0.00	0.00	0.00	0.00	20.28	6,784.39	2,506.60	7,232.98				
100.00	100.00	29.00	29.00	0.13	0.77	20.28	6,784.39	2,506.60	7,232.64	7,231.73	0.91	7,975.880	
200.00	200.00	129.00	129.00	0.49	3.44	20.28	6,784.39	2,506.60	7,232.64	7,228.71	3.93	1,841.304	
300.00	300.00	229.00	229.00	0.85	6.10	20.28	6,784.39	2,506.60	7,232.64	7,225.69	6.95	1,040.790	
400.00	400.00	329.00	329.00	1.21	8.76	20.28	6,784.39	2,506.60	7,232.64	7,222.67	9.97	725.414	
500.00	500.00	429.00	429.00	1.57	11.42	20.28	6,784.39	2,506.60	7,232.64	7,219.64	12.99	556.719	
600.00	600.00	529.00	529.00	1.93	14.09	20.28	6,784.39	2,506.60	7,232.64	7,216.62	16.01	451.680	
700.00	700.00	629.00	629.00	2.29	16.75	20.28	6,784.39	2,506.60	7,232.64	7,213.60	19.03	379.987	
800.00	800.00	729.00	729.00	2.64	19.41	20.28	6,784.39	2,506.60	7,232.64	7,210.58	22.06	327.935	
900.00	900.00	829.00	829.00	3.00	22.07	20.28	6,784.39	2,506.60	7,232.64	7,207.56	25.08	288.425	
1,000.00	1,000.00	929.00	929.00	3.36	24.74	20.28	6,784.39	2,506.60	7,232.64	7,204.54	28.10	257.412	
1,100.00	1,100.00	1,029.00	1,029.00	3.72	27.40	20.28	6,784.39	2,506.60	7,232.64	7,201.52	31.12	232.421	
1,200.00	1,200.00	1,129.00	1,129.00	4.08	30.06	20.28	6,784.39	2,506.60	7,232.64	7,198.50	34.14	211.853	
1,300.00	1,300.00	1,229.00	1,229.00	4.44	32.72	20.28	6,784.39	2,506.60	7,232.64	7,195.47	37.16	194.630	
1,400.00	1,400.00	1,329.00	1,329.00	4.79	35.39	20.28	6,784.39	2,506.60	7,232.64	7,192.45	40.18	179.996	
1,500.00	1,500.00	1,429.00	1,429.00	5.15	38.05	20.28	6,784.39	2,506.60	7,232.64	7,189.43	43.20	167.409	
1,600.00	1,600.00	1,529.00	1,529.00	5.51	40.71	20.28	6,784.39	2,506.60	7,232.64	7,186.41	46.22	156.467	
1,700.00	1,700.00	1,629.00	1,629.00	5.87	43.38	20.28	6,784.39	2,506.60	7,232.64	7,183.39	49.25	146.868	
1,800.00	1,800.00	1,729.00	1,729.00	6.23	46.04	20.28	6,784.39	2,506.60	7,232.64	7,180.37	52.27	138.379	
1,900.00	1,900.00	1,829.00	1,829.00	6.59	48.70	20.28	6,784.39	2,506.60	7,232.64	7,177.35	55.29	130.817	
2,000.00	2,000.00	1,929.00	1,929.00	6.95	51.36	20.28	6,784.39	2,506.60	7,232.64	7,174.33	58.31	124.039	
2,100.00	2,099.98	2,028.98	2,028.98	7.29	54.03	-114.50	6,784.39	2,506.60	7,233.36	7,172.04	61.31	117.971	
2,200.00	2,199.84	2,128.84	2,128.84	7.62	56.69	-114.50	6,784.39	2,506.60	7,235.53	7,171.23	64.30	112.520	
2,300.00	2,299.45	2,228.45	2,228.45	7.95	59.34	-114.50	6,784.39	2,506.60	7,239.16	7,171.87	67.29	107.578	
2,400.00	2,398.70	2,327.70	2,327.70	8.30	61.98	-114.49	6,784.39	2,506.60	7,244.24	7,173.97	70.28	103.083	
2,500.00	2,497.47	2,426.47	2,426.47	8.65	64.61	-114.48	6,784.39	2,506.60	7,250.79	7,177.54	73.25	98.981	
2,600.00	2,595.62	2,524.62	2,524.62	9.01	67.22	-114.47	6,784.39	2,506.60	7,258.82	7,182.59	76.23	95.225	
2,700.00	2,693.44	2,622.44	2,622.44	9.39	69.83	-114.62	6,784.39	2,506.60	7,267.62	7,188.41	79.20	91.760	
2,800.00	2,791.25	2,720.25	2,720.25	9.77	72.43	-114.76	6,784.39	2,506.60	7,276.46	7,194.27	82.19	88.536	
2,900.00	2,889.07	2,818.07	2,818.07	10.17	75.04	-114.91	6,784.39	2,506.60	7,285.35	7,200.18	85.18	85.532	
3,000.00	2,886.88	2,915.88	2,915.88	10.57	77.64	-115.05	6,784.39	2,506.60	7,294.29	7,206.12	88.18	82.725	
3,100.00	3,084.70	3,013.70	3,013.70	10.99	80.25	-115.20	6,784.39	2,506.60	7,303.28	7,212.10	91.18	80.098	
3,200.00	3,182.51	3,111.51	3,111.51	11.41	82.85	-115.34	6,784.39	2,506.60	7,312.32	7,218.13	94.19	77.634	
3,300.00	3,280.33	3,209.33	3,209.33	11.83	85.46	-115.49	6,784.39	2,506.60	7,321.41	7,224.20	97.20	75.320	
3,400.00	3,378.14	3,307.14	3,307.14	12.26	88.06	-115.63	6,784.39	2,506.60	7,330.54	7,230.32	100.22	73.143	
3,500.00	3,475.96	3,404.96	3,404.96	12.69	90.66	-115.78	6,784.39	2,506.60	7,339.72	7,236.47	103.24	71.090	
3,600.00	3,573.77	3,502.77	3,502.77	13.13	93.27	-115.93	6,784.39	2,506.60	7,348.94	7,242.67	106.27	69.153	
3,700.00	3,671.97	3,600.97	3,600.97	13.57	95.88	-116.21	6,784.39	2,506.60	7,357.35	7,248.05	109.30	67.313	
3,800.00	3,770.78	3,699.78	3,699.78	13.98	98.51	-116.44	6,784.39	2,506.60	7,364.25	7,251.92	112.33	65.557	
3,900.00	3,870.05	3,799.05	3,799.05	14.38	101.16	-116.62	6,784.39	2,506.60	7,369.62	7,254.26	115.36	63.882	
4,000.00	3,969.69	3,898.69	3,898.69	14.75	103.81	-116.75	6,784.39	2,506.60	7,373.44	7,255.05	118.39	62.283	
4,100.00	4,069.56	3,998.56	3,998.56	15.11	106.47	-116.82	6,784.39	2,506.60	7,375.70	7,254.30	121.40	60.756	
4,200.00	4,169.54	4,098.54	4,098.54	15.44	109.13	17.93	6,784.39	2,506.60	7,376.38	7,251.98	124.40	59.296	
4,300.00	4,269.54	4,198.54	4,198.54	15.77	111.80	17.93	6,784.39	2,506.60	7,376.38	7,248.99	127.39	57.902	
4,400.00	4,369.54	4,298.54	4,298.54	16.10	114.46	17.93	6,784.39	2,506.60	7,376.38	7,245.99	130.39	56.572	
4,500.00	4,469.54	4,398.54	4,398.54	16.43	117.12	17.93	6,784.39	2,506.60	7,376.38	7,242.99	133.39	55.301	
4,600.00	4,569.54	4,498.54	4,498.54	16.76	119.78	17.93	6,784.39	2,506.60	7,376.38	7,240.00	136.38	54.086	
4,700.00	4,669.54	4,598.54	4,598.54	17.09	122.45	17.93	6,784.39	2,506.60	7,376.38	7,237.00	139.38	52.922	
4,800.00	4,769.54	4,698.54	4,698.54	17.43	125.11	17.93	6,784.39	2,506.60	7,376.38	7,234.00	142.38	51.807	
4,900.00	4,869.54	4,798.54	4,798.54	17.76	127.77	17.93	6,784.39	2,506.60	7,376.38	7,231.00	145.38	50.738	
5,000.00	4,969.54	4,898.54	4,898.54	18.10	130.43	17.93	6,784.39	2,506.60	7,376.38	7,228.00	148.38	49.712	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 -													Offset Site Error:	0.00 usft
Survey Program: 14375-INC													Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Distance	Minimum	Separation		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,100.00	5,069.54	4,998.54	4,998.54	18.43	133.10	17.93	6,784.39	2,506.60	7,376.38	7,225.00	151.39	48.726		
5,200.00	5,169.54	5,098.54	5,098.54	18.77	135.76	17.93	6,784.39	2,506.60	7,376.38	7,221.99	154.39	47.778		
5,300.00	5,269.54	5,198.54	5,198.54	19.11	138.42	17.93	6,784.39	2,506.60	7,376.38	7,218.99	157.39	46.866		
5,400.00	5,369.54	5,298.54	5,298.54	19.45	141.09	17.93	6,784.39	2,506.60	7,376.38	7,215.99	160.40	45.989		
5,500.00	5,469.54	5,398.54	5,398.54	19.79	143.75	17.93	6,784.39	2,506.60	7,376.38	7,212.98	163.40	45.143		
5,600.00	5,569.54	5,498.54	5,498.54	20.13	146.41	17.93	6,784.39	2,506.60	7,376.38	7,209.98	166.41	44.328		
5,700.00	5,669.54	5,598.54	5,598.54	20.47	149.07	17.93	6,784.39	2,506.60	7,376.38	7,206.97	169.41	43.541		
5,800.00	5,769.54	5,698.54	5,698.54	20.81	151.74	17.93	6,784.39	2,506.60	7,376.38	7,203.96	172.42	42.782		
5,900.00	5,869.54	5,798.54	5,798.54	21.15	154.40	17.93	6,784.39	2,506.60	7,376.38	7,200.96	175.42	42.049		
6,000.00	5,969.54	5,898.54	5,898.54	21.49	157.06	17.93	6,784.39	2,506.60	7,376.38	7,197.95	178.43	41.340		
6,100.00	6,069.54	5,998.54	5,998.54	21.83	159.72	17.93	6,784.39	2,506.60	7,376.38	7,194.94	181.44	40.655		
6,200.00	6,169.54	6,098.54	6,098.54	22.18	162.39	17.93	6,784.39	2,506.60	7,376.38	7,191.93	184.45	39.992		
6,300.00	6,269.54	6,198.54	6,198.54	22.52	165.05	17.93	6,784.39	2,506.60	7,376.38	7,188.92	187.46	39.350		
6,400.00	6,369.54	6,298.54	6,298.54	22.87	167.71	17.93	6,784.39	2,506.60	7,376.38	7,185.92	190.47	38.728		
6,500.00	6,469.54	6,398.54	6,398.54	23.21	170.37	17.93	6,784.39	2,506.60	7,376.38	7,182.91	193.47	38.126		
6,600.00	6,569.54	6,498.54	6,498.54	23.56	173.04	17.93	6,784.39	2,506.60	7,376.38	7,179.90	196.48	37.542		
6,700.00	6,669.54	6,598.54	6,598.54	23.90	175.70	17.93	6,784.39	2,506.60	7,376.38	7,176.89	199.49	36.975		
6,800.00	6,769.54	6,698.54	6,698.54	24.25	178.36	17.93	6,784.39	2,506.60	7,376.38	7,173.88	202.50	36.426		
6,900.00	6,869.54	6,798.54	6,798.54	24.59	181.03	17.93	6,784.39	2,506.60	7,376.38	7,170.87	205.52	35.892		
7,000.00	6,969.54	6,898.54	6,898.54	24.94	183.69	17.93	6,784.39	2,506.60	7,376.38	7,167.85	208.53	35.374		
7,100.00	7,069.54	6,998.54	6,998.54	25.29	186.35	17.93	6,784.39	2,506.60	7,376.38	7,164.84	211.54	34.870		
7,200.00	7,169.54	7,098.54	7,098.54	25.63	189.01	17.93	6,784.39	2,506.60	7,376.38	7,161.83	214.55	34.381		
7,300.00	7,269.54	7,198.54	7,198.54	25.98	191.68	17.93	6,784.39	2,506.60	7,376.38	7,158.82	217.56	33.905		
7,400.00	7,369.54	7,298.54	7,298.54	26.33	194.34	17.93	6,784.39	2,506.60	7,376.38	7,155.81	220.57	33.442		
7,500.00	7,469.54	7,398.54	7,398.54	26.68	197.00	17.93	6,784.39	2,506.60	7,376.38	7,152.80	223.58	32.991		
7,600.00	7,569.54	7,498.54	7,498.54	27.03	199.66	17.93	6,784.39	2,506.60	7,376.38	7,149.78	226.60	32.553		
7,700.00	7,669.54	7,598.54	7,598.54	27.37	202.33	17.93	6,784.39	2,506.60	7,376.38	7,146.77	229.61	32.126		
7,800.00	7,769.54	7,698.54	7,698.54	27.72	204.99	17.93	6,784.39	2,506.60	7,376.38	7,143.76	232.62	31.710		
7,900.00	7,869.54	7,798.54	7,798.54	28.07	207.65	17.93	6,784.39	2,506.60	7,376.38	7,140.74	235.64	31.304		
8,000.00	7,969.54	7,898.54	7,898.54	28.42	210.32	17.93	6,784.39	2,506.60	7,376.38	7,137.73	238.65	30.909		
8,100.00	8,069.54	7,998.54	7,998.54	28.77	212.98	17.93	6,784.39	2,506.60	7,376.38	7,134.72	241.66	30.523		
8,200.00	8,169.54	8,098.54	8,098.54	29.12	215.64	17.93	6,784.39	2,506.60	7,376.38	7,131.70	244.68	30.147		
8,300.00	8,269.54	8,198.54	8,198.54	29.47	218.30	17.93	6,784.39	2,506.60	7,376.38	7,128.69	247.69	29.781		
8,400.00	8,369.54	8,298.54	8,298.54	29.82	220.97	17.93	6,784.39	2,506.60	7,376.38	7,125.68	250.70	29.423		
8,500.00	8,469.54	8,398.54	8,398.54	30.17	223.63	17.93	6,784.39	2,506.60	7,376.38	7,122.66	253.72	29.073		
8,600.00	8,569.54	8,498.54	8,498.54	30.52	226.29	17.93	6,784.39	2,506.60	7,376.38	7,119.65	256.73	28.732		
8,700.00	8,669.54	8,598.54	8,598.54	30.87	228.95	17.93	6,784.39	2,506.60	7,376.38	7,116.63	259.75	28.398		
8,800.00	8,769.54	8,698.54	8,698.54	31.22	231.62	17.93	6,784.39	2,506.60	7,376.38	7,113.62	262.76	28.072		
8,900.00	8,869.54	8,798.54	8,798.54	31.57	234.28	17.93	6,784.39	2,506.60	7,376.38	7,110.60	265.78	27.754		
9,000.00	8,969.54	8,898.54	8,898.54	31.93	236.94	17.93	6,784.39	2,506.60	7,376.38	7,107.59	268.79	27.443		
9,100.00	9,069.54	8,998.54	8,998.54	32.28	239.61	17.93	6,784.39	2,506.60	7,376.38	7,104.57	271.81	27.138		
9,200.00	9,169.54	9,098.54	9,098.54	32.63	242.27	17.93	6,784.39	2,506.60	7,376.38	7,101.56	274.82	26.840		
9,300.00	9,269.54	9,198.54	9,198.54	32.98	244.93	17.93	6,784.39	2,506.60	7,376.38	7,098.54	277.84	26.549		
9,400.00	9,369.54	9,298.54	9,298.54	33.33	247.59	17.93	6,784.39	2,506.60	7,376.38	7,095.53	280.85	26.264		
9,500.00	9,469.54	9,398.54	9,398.54	33.68	250.26	17.93	6,784.39	2,506.60	7,376.38	7,092.51	283.87	25.985		
9,600.00	9,569.54	9,498.54	9,498.54	34.04	252.92	17.93	6,784.39	2,506.60	7,376.38	7,089.50	286.89	25.712		
9,700.00	9,669.54	9,598.54	9,598.54	34.39	255.58	17.93	6,784.39	2,506.60	7,376.38	7,086.48	289.90	25.444		
9,800.00	9,769.54	9,698.54	9,698.54	34.74	258.24	17.93	6,784.39	2,506.60	7,376.38	7,083.46	292.92	25.182		
9,900.00	9,869.54	9,798.54	9,798.54	35.09	260.91	17.93	6,784.39	2,506.60	7,376.38	7,080.45	295.93	24.926		
10,000.00	9,969.54	9,898.54	9,898.54	35.45	263.57	17.93	6,784.39	2,506.60	7,376.38	7,077.43	298.95	24.674		
10,100.00	10,069.54	9,998.54	9,998.54	35.80	266.23	17.93	6,784.39	2,506.60	7,376.38	7,074.41	301.97	24.428		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 -													Offset Site Error:	0.00 usft	
Survey Program:		14375-INC		Rule Assigned:										Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)					
10,200.00	10,169.54	10,098.54	10,098.54	36.15	268.90	17.93	6,784.39	2,506.60	7,376.38	7,071.40	304.98	24.186			
10,300.00	10,269.54	10,198.54	10,198.54	36.51	271.56	17.93	6,784.39	2,506.60	7,376.38	7,068.38	308.00	23.949			
10,400.00	10,369.54	10,298.54	10,298.54	36.86	274.22	17.93	6,784.39	2,506.60	7,376.38	7,065.37	311.02	23.717			
10,500.00	10,469.54	10,398.54	10,398.54	37.21	276.88	17.93	6,784.39	2,506.60	7,376.38	7,062.35	314.03	23.489			
10,600.00	10,569.54	10,498.54	10,498.54	37.57	279.55	17.93	6,784.39	2,506.60	7,376.38	7,059.33	317.05	23.266			
10,700.00	10,669.54	10,598.54	10,598.54	37.92	282.21	17.93	6,784.39	2,506.60	7,376.38	7,056.31	320.07	23.046			
10,800.00	10,769.54	10,698.54	10,698.54	38.27	284.87	17.93	6,784.39	2,506.60	7,376.38	7,053.30	323.08	22.831			
10,900.00	10,869.54	10,798.54	10,798.54	38.63	287.53	17.93	6,784.39	2,506.60	7,376.38	7,050.28	326.10	22.620			
11,000.00	10,969.45	10,898.45	10,898.45	38.98	290.19	18.40	6,784.39	2,506.60	7,373.83	7,044.72	329.11	22.405			
11,100.00	11,067.64	10,996.64	10,996.64	39.30	292.81	19.01	6,784.39	2,506.60	7,356.48	7,024.42	332.06	22.154			
11,200.00	11,161.16	11,090.16	11,090.16	39.59	295.30	20.29	6,784.39	2,506.60	7,323.21	6,988.36	334.85	21.870			
11,300.00	11,247.17	11,176.17	11,176.17	39.83	297.59	22.44	6,784.39	2,506.60	7,275.08	6,937.69	337.39	21.563			
11,400.00	11,323.06	11,252.06	11,252.06	40.03	299.61	25.85	6,784.39	2,506.60	7,213.56	6,873.95	339.61	21.241			
11,500.00	11,386.52	11,315.52	11,315.52	40.18	301.30	31.24	6,784.39	2,506.60	7,140.57	6,799.13	341.44	20.913			
11,600.00	11,435.62	11,364.62	11,364.62	40.33	302.61	40.03	6,784.39	2,506.60	7,058.37	6,715.53	342.84	20.588			
11,700.00	11,468.88	11,397.88	11,397.88	40.54	303.49	54.71	6,784.39	2,506.60	6,969.49	6,625.72	343.77	20.274			
11,800.00	11,485.28	11,414.28	11,414.28	40.77	303.93	77.77	6,784.39	2,506.60	6,876.66	6,532.43	344.23	19.977			
11,900.00	11,486.77	11,415.77	11,415.77	41.03	303.97	90.69	6,784.39	2,506.60	6,782.63	6,438.36	344.27	19.702			
12,000.00	11,486.33	11,415.33	11,415.33	41.36	303.96	90.68	6,784.39	2,506.60	6,688.74	6,344.47	344.27	19.429			
12,100.00	11,485.90	11,414.90	11,414.90	41.74	303.95	90.67	6,784.39	2,506.60	6,595.03	6,250.74	344.28	19.156			
12,200.00	11,485.46	11,414.46	11,414.46	42.19	303.93	90.66	6,784.39	2,506.60	6,501.50	6,157.20	344.31	18.883			
12,300.00	11,485.02	11,414.02	11,414.02	42.70	303.92	90.65	6,784.39	2,506.60	6,408.17	6,063.83	344.34	18.610			
12,400.00	11,484.59	11,413.59	11,413.59	43.26	303.91	90.64	6,784.39	2,506.60	6,315.05	5,970.65	344.39	18.337			
12,500.00	11,484.15	11,413.15	11,413.15	43.88	303.90	90.63	6,784.39	2,506.60	6,222.13	5,877.68	344.45	18.064			
12,600.00	11,483.71	11,412.71	11,412.71	44.55	303.89	90.61	6,784.39	2,506.60	6,129.44	5,784.91	344.53	17.791			
12,700.00	11,483.27	11,412.27	11,412.27	45.27	303.88	90.60	6,784.39	2,506.60	6,036.99	5,692.36	344.63	17.517			
12,800.00	11,482.83	11,411.83	11,411.83	46.04	303.86	90.59	6,784.39	2,506.60	5,944.77	5,600.03	344.74	17.244			
12,900.00	11,482.39	11,411.39	11,411.39	46.85	303.85	90.58	6,784.39	2,506.60	5,852.82	5,507.94	344.87	16.971			
13,000.00	11,481.95	11,410.95	11,410.95	47.71	303.84	90.57	6,784.39	2,506.60	5,761.13	5,416.10	345.03	16.698			
13,100.00	11,481.52	11,410.52	11,410.52	48.61	303.83	90.56	6,784.39	2,506.60	5,669.72	5,324.52	345.20	16.424			
13,200.00	11,481.08	11,410.08	11,410.08	49.55	303.82	90.55	6,784.39	2,506.60	5,578.61	5,233.21	345.40	16.151			
13,300.00	11,480.64	11,409.64	11,409.64	50.52	303.81	90.54	6,784.39	2,506.60	5,487.81	5,142.18	345.62	15.878			
13,400.00	11,480.20	11,409.20	11,409.20	51.53	303.79	90.53	6,784.39	2,506.60	5,397.33	5,051.46	345.87	15.605			
13,500.00	11,479.75	11,408.75	11,408.75	52.57	303.78	90.52	6,784.39	2,506.60	5,307.19	4,961.04	346.15	15.332			
13,600.00	11,479.31	11,408.31	11,408.31	53.65	303.77	90.51	6,784.39	2,506.60	5,217.42	4,870.96	346.46	15.059			
13,700.00	11,478.87	11,407.87	11,407.87	54.75	303.76	90.50	6,784.39	2,506.60	5,128.02	4,781.22	346.79	14.787			
13,800.00	11,478.43	11,407.43	11,407.43	55.88	303.75	90.49	6,784.39	2,506.60	5,039.02	4,691.85	347.17	14.515			
13,900.00	11,477.99	11,406.99	11,406.99	57.03	303.74	90.48	6,784.39	2,506.60	4,950.44	4,602.86	347.58	14.243			
14,000.00	11,477.55	11,406.55	11,406.55	58.21	303.72	90.47	6,784.39	2,506.60	4,862.30	4,514.28	348.03	13.971			
14,100.00	11,477.11	11,406.11	11,406.11	59.41	303.71	90.46	6,784.39	2,506.60	4,774.63	4,426.12	348.51	13.700			
14,200.00	11,476.66	11,405.66	11,405.66	60.64	303.70	90.45	6,784.39	2,506.60	4,687.46	4,338.41	349.04	13.429			
14,300.00	11,476.22	11,405.22	11,405.22	61.88	303.69	90.43	6,784.39	2,506.60	4,600.81	4,251.18	349.62	13.159			
14,400.00	11,475.78	11,404.78	11,404.78	63.14	303.68	90.42	6,784.39	2,506.60	4,514.70	4,164.45	350.25	12.890			
14,500.00	11,475.34	11,404.34	11,404.34	64.42	303.66	90.41	6,784.39	2,506.60	4,429.19	4,078.26	350.92	12.621			
14,600.00	11,474.89	11,403.89	11,403.89	65.72	303.65	90.40	6,784.39	2,506.60	4,344.29	3,992.63	351.66	12.354			
14,700.00	11,474.45	11,403.45	11,403.45	67.03	303.64	90.39	6,784.39	2,506.60	4,260.04	3,907.60	352.44	12.087			
14,800.00	11,474.00	11,403.00	11,403.00	68.36	303.63	90.38	6,784.39	2,506.60	4,176.49	3,823.21	353.29	11.822			
14,900.00	11,473.56	11,402.56	11,402.56	69.70	303.62	90.37	6,784.39	2,506.60	4,093.68	3,739.49	354.20	11.558			
15,000.00	11,473.12	11,402.12	11,402.12	71.06	303.61	90.36	6,784.39	2,506.60	4,011.66	3,656.48	355.17	11.295			
15,100.00	11,472.67	11,401.67	11,401.67	72.43	303.59	90.35	6,784.39	2,506.60	3,930.46	3,574.24	356.22	11.034			
15,200.00	11,472.23	11,401.23	11,401.23	73.81	303.58	90.34	6,784.39	2,506.60	3,850.15	3,492.81	357.34	10.775			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 -												Offset Site Error:	0.00 usft
Survey Program: 14375-INC												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
15,300.00	11,471.78	11,400.78	11,400.78	75.20	303.57	90.33	6,784.39	2,506.60	3,770.78	3,412.25	358.53	10.517	
15,400.00	11,471.34	11,400.34	11,400.34	76.60	303.56	90.32	6,784.39	2,506.60	3,692.42	3,332.61	359.80	10.262	
15,500.00	11,470.89	11,399.89	11,399.89	78.01	303.55	90.31	6,784.39	2,506.60	3,615.12	3,253.97	361.15	10.010	
15,600.00	11,470.44	11,399.44	11,399.44	79.43	303.53	90.29	6,784.39	2,506.60	3,538.96	3,176.37	362.58	9.760	
15,700.00	11,470.00	11,399.00	11,399.00	80.86	303.52	90.28	6,784.39	2,506.60	3,464.01	3,099.90	364.10	9.514	
15,800.00	11,469.55	11,398.55	11,398.55	82.30	303.51	90.27	6,784.39	2,506.60	3,390.35	3,024.64	365.71	9.271	
15,900.00	11,469.10	11,398.10	11,398.10	83.74	303.50	90.26	6,784.39	2,506.60	3,318.08	2,950.67	367.41	9.031	
16,000.00	11,468.66	11,397.66	11,397.66	85.20	303.49	90.25	6,784.39	2,506.60	3,247.27	2,878.07	369.20	8.795	
16,100.00	11,468.21	11,397.21	11,397.21	86.66	303.48	90.24	6,784.39	2,506.60	3,178.04	2,806.95	371.08	8.564	
16,200.00	11,467.76	11,396.76	11,396.76	88.13	303.46	90.23	6,784.39	2,506.60	3,110.47	2,737.41	373.06	8.338	
16,300.00	11,467.32	11,396.32	11,396.32	89.60	303.45	90.22	6,784.39	2,506.60	3,044.70	2,669.57	375.13	8.116	
16,400.00	11,466.87	11,395.87	11,395.87	91.08	303.44	90.21	6,784.39	2,506.60	2,980.83	2,603.54	377.29	7.901	
16,500.00	11,466.42	11,395.42	11,395.42	92.57	303.43	90.20	6,784.39	2,506.60	2,918.98	2,539.44	379.54	7.691	
16,600.00	11,465.97	11,394.97	11,394.97	94.06	303.42	90.19	6,784.39	2,506.60	2,859.30	2,477.42	381.88	7.487	
16,700.00	11,465.52	11,394.52	11,394.52	95.56	303.40	90.17	6,784.39	2,506.60	2,801.92	2,417.62	384.30	7.291	
16,800.00	11,465.07	11,394.07	11,394.07	97.06	303.39	90.16	6,784.39	2,506.60	2,746.98	2,360.19	386.79	7.102	
16,900.00	11,464.62	11,393.62	11,393.62	98.57	303.38	90.15	6,784.39	2,506.60	2,694.63	2,305.28	389.35	6.921	
17,000.00	11,464.17	11,393.17	11,393.17	100.08	303.37	90.14	6,784.39	2,506.60	2,645.03	2,253.06	391.96	6.748	
17,100.00	11,463.72	11,392.72	11,392.72	101.60	303.36	90.13	6,784.39	2,506.60	2,598.33	2,203.70	394.62	6.584	
17,200.00	11,463.27	11,392.27	11,392.27	103.12	303.34	90.12	6,784.39	2,506.60	2,554.69	2,157.38	397.31	6.430	
17,300.00	11,462.82	11,391.82	11,391.82	104.65	303.33	90.11	6,784.39	2,506.60	2,514.27	2,114.26	400.02	6.285	
17,400.00	11,462.37	11,391.37	11,391.37	106.18	303.32	90.10	6,784.39	2,506.60	2,477.24	2,074.53	402.71	6.151	
17,500.00	11,461.92	11,390.92	11,390.92	107.71	303.31	90.09	6,784.39	2,506.60	2,443.74	2,038.35	405.39	6.028	
17,600.00	11,461.47	11,390.47	11,390.47	109.25	303.30	90.08	6,784.39	2,506.60	2,413.92	2,005.89	408.02	5.916	
17,700.00	11,461.02	11,390.02	11,390.02	110.79	303.28	90.06	6,784.39	2,506.60	2,387.91	1,977.33	410.59	5.816	
17,800.00	11,460.57	11,389.57	11,389.57	112.33	303.27	90.05	6,784.39	2,506.60	2,365.86	1,952.80	413.06	5.728	
17,900.00	11,460.12	11,389.12	11,389.12	113.88	303.26	90.04	6,784.39	2,506.60	2,347.85	1,932.44	415.42	5.652	
18,000.00	11,459.66	11,388.66	11,388.66	115.43	303.25	90.03	6,784.39	2,506.60	2,334.00	1,916.36	417.64	5.589	
18,100.00	11,459.21	11,388.21	11,388.21	116.98	303.24	90.02	6,784.39	2,506.60	2,324.37	1,904.66	419.71	5.538	
18,200.00	11,458.76	11,387.76	11,387.76	118.54	303.22	90.01	6,784.39	2,506.60	2,319.02	1,897.42	421.60	5.501	
18,274.30	11,458.42	11,387.42	11,387.42	119.69	303.21	90.00	6,784.39	2,506.60	2,317.82	1,894.94	422.88	5.481 CC	
18,300.00	11,458.31	11,387.31	11,387.31	120.09	303.21	90.00	6,784.39	2,506.60	2,317.97	1,894.67	423.30	5.476 ES	
18,400.00	11,457.85	11,386.85	11,386.85	121.66	303.20	89.99	6,784.39	2,506.60	2,321.23	1,896.43	424.80	5.464 SF	
18,500.00	11,457.40	11,386.40	11,386.40	123.22	303.19	89.97	6,784.39	2,506.60	2,328.79	1,902.70	426.09	5.466	
18,600.00	11,456.95	11,385.95	11,385.95	124.78	303.18	89.96	6,784.39	2,506.60	2,340.60	1,913.44	427.16	5.479	
18,700.00	11,456.49	11,385.49	11,385.49	126.35	303.16	89.95	6,784.39	2,506.60	2,356.59	1,928.58	428.01	5.506	
18,800.00	11,456.04	11,385.04	11,385.04	127.92	303.15	89.94	6,784.39	2,506.60	2,376.69	1,948.03	428.66	5.544	
18,900.00	11,455.58	11,384.58	11,384.58	129.50	303.14	89.93	6,784.39	2,506.60	2,400.79	1,971.70	429.09	5.595	
19,000.00	11,455.13	11,384.13	11,384.13	131.07	303.13	89.92	6,784.39	2,506.60	2,428.78	1,999.44	429.34	5.657	
19,100.00	11,454.67	11,383.67	11,383.67	132.65	303.11	89.91	6,784.39	2,506.60	2,460.51	2,031.11	429.39	5.730	
19,200.00	11,454.22	11,383.22	11,383.22	134.22	303.10	89.90	6,784.39	2,506.60	2,495.84	2,066.56	429.28	5.814	
19,300.00	11,453.76	11,382.76	11,382.76	135.80	303.09	89.88	6,784.39	2,506.60	2,534.63	2,105.62	429.01	5.908	
19,400.00	11,453.31	11,382.31	11,382.31	137.39	303.08	89.87	6,784.39	2,506.60	2,576.72	2,148.12	428.61	6.012	
19,500.00	11,452.85	11,381.85	11,381.85	138.97	303.07	89.86	6,784.39	2,506.60	2,621.96	2,193.88	428.07	6.125	
19,600.00	11,452.39	11,381.39	11,381.39	140.56	303.05	89.85	6,784.39	2,506.60	2,670.17	2,242.73	427.44	6.247	
19,700.00	11,451.94	11,380.94	11,380.94	142.14	303.04	89.84	6,784.39	2,506.60	2,721.20	2,294.49	426.71	6.377	
19,800.00	11,451.48	11,380.48	11,380.48	143.73	303.03	89.83	6,784.39	2,506.60	2,774.90	2,349.00	425.90	6.515	
19,900.00	11,451.02	11,380.02	11,380.02	145.32	303.02	89.82	6,784.39	2,506.60	2,831.11	2,406.09	425.03	6.661	
20,000.00	11,450.57	11,379.57	11,379.57	146.91	303.01	89.80	6,784.39	2,506.60	2,889.70	2,465.59	424.10	6.814	
20,100.00	11,450.11	11,379.11	11,379.11	148.51	302.99	89.79	6,784.39	2,506.60	2,950.51	2,527.36	423.14	6.973	
20,200.00	11,449.65	11,378.65	11,378.65	150.10	302.98	89.78	6,784.39	2,506.60	3,013.41	2,591.26	422.15	7.138	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 -											Offset Site Error:	0.00 usft
EXIST VERT OPAL 28 FED #001											Offset Well Error:	0.00 usft
Survey Program:		14375-INC		Rule Assigned:								
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
20,300.00	11,449.19	11,378.19	11,378.19	151.70	302.97	89.77	6,784.39	2,506.60	3,078.27	2,657.14	421.13	7.310
20,400.00	11,448.73	11,377.73	11,377.73	153.29	302.96	89.76	6,784.39	2,506.60	3,144.98	2,724.88	420.10	7.486
20,500.00	11,448.27	11,377.27	11,377.27	154.89	302.94	89.75	6,784.39	2,506.60	3,213.42	2,794.36	419.06	7.668
20,600.00	11,447.82	11,376.82	11,376.82	156.49	302.93	89.74	6,784.39	2,506.60	3,283.47	2,865.45	418.02	7.855
20,700.00	11,447.36	11,376.36	11,376.36	158.09	302.92	89.72	6,784.39	2,506.60	3,355.04	2,938.06	416.98	8.046
20,800.00	11,446.90	11,375.90	11,375.90	159.70	302.91	89.71	6,784.39	2,506.60	3,428.04	3,012.09	415.96	8.241
20,900.00	11,446.44	11,375.44	11,375.44	161.30	302.90	89.70	6,784.39	2,506.60	3,502.37	3,087.43	414.94	8.441
21,000.00	11,445.98	11,374.98	11,374.98	162.90	302.88	89.69	6,784.39	2,506.60	3,577.95	3,164.02	413.94	8.644
21,100.00	11,445.52	11,374.52	11,374.52	164.51	302.87	89.68	6,784.39	2,506.60	3,654.71	3,241.76	412.95	8.850
21,200.00	11,445.06	11,374.06	11,374.06	166.11	302.86	89.67	6,784.39	2,506.60	3,732.56	3,320.58	411.98	9.060
21,300.00	11,444.60	11,373.60	11,373.60	167.72	302.85	89.66	6,784.39	2,506.60	3,811.45	3,400.42	411.03	9.273
21,400.00	11,444.14	11,373.14	11,373.14	169.33	302.83	89.64	6,784.39	2,506.60	3,891.31	3,481.21	410.10	9.489
21,500.00	11,443.67	11,372.67	11,372.67	170.94	302.82	89.63	6,784.39	2,506.60	3,972.08	3,562.89	409.20	9.707
21,600.00	11,443.21	11,372.21	11,372.21	172.55	302.81	89.62	6,784.39	2,506.60	4,053.71	3,645.40	408.31	9.928
21,700.00	11,442.75	11,371.75	11,371.75	174.16	302.80	89.61	6,784.39	2,506.60	4,136.15	3,728.70	407.45	10.151
21,800.00	11,442.29	11,371.29	11,371.29	175.77	302.78	89.60	6,784.39	2,506.60	4,219.34	3,812.73	406.61	10.377
21,862.35	11,442.00	11,371.00	11,371.00	176.77	302.78	89.59	6,784.39	2,506.60	4,271.58	3,865.48	406.10	10.519

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-INC													Offset Well Error: 0.00 usft
Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-1.03	8,749.68	-157.86	8,751.47				
100.00	100.00	20.50	20.50	0.13	0.23	-1.03	8,749.68	-157.86	8,751.11	8,750.75	0.36	N/A	
200.00	200.00	120.50	120.50	0.49	1.57	-1.03	8,749.68	-157.86	8,751.11	8,749.04	2.07	4,237.229	
300.00	300.00	220.50	220.50	0.85	3.84	-1.03	8,749.68	-157.86	8,751.11	8,746.42	4.69	1,866.535	
400.00	400.00	320.50	320.50	1.21	5.91	-1.03	8,749.68	-157.86	8,751.11	8,743.99	7.12	1,229.233	
500.00	500.00	420.50	420.50	1.57	7.95	-1.03	8,749.68	-157.86	8,751.11	8,741.59	9.52	919.481	
600.00	600.00	520.50	520.50	1.93	9.98	-1.03	8,749.68	-157.86	8,751.11	8,739.20	11.90	735.154	
700.00	700.00	620.50	620.50	2.29	12.00	-1.03	8,749.68	-157.86	8,751.11	8,736.82	14.28	612.637	
800.00	800.00	720.50	720.50	2.64	14.02	-1.03	8,749.68	-157.86	8,751.11	8,734.44	16.66	525.225	
900.00	900.00	820.50	820.50	3.00	16.03	-1.03	8,749.68	-157.86	8,751.11	8,732.07	19.04	459.690	
1,000.00	1,000.00	920.50	920.50	3.36	18.05	-1.03	8,749.68	-157.86	8,751.11	8,729.70	21.41	408.721	
1,100.00	1,100.00	1,020.50	1,020.50	3.72	20.06	-1.03	8,749.68	-157.86	8,751.11	8,727.32	23.78	367.941	
1,200.00	1,200.00	1,120.50	1,120.50	4.08	22.08	-1.03	8,749.68	-157.86	8,751.11	8,724.95	26.16	334.568	
1,300.00	1,300.00	1,220.50	1,220.50	4.44	24.09	-1.03	8,749.68	-157.86	8,751.11	8,722.58	28.53	306.752	
1,400.00	1,400.00	1,320.50	1,320.50	4.79	26.11	-1.03	8,749.68	-157.86	8,751.11	8,720.21	30.90	283.209	
1,500.00	1,500.00	1,420.50	1,420.50	5.15	28.12	-1.03	8,749.68	-157.86	8,751.11	8,717.84	33.27	263.025	
1,600.00	1,600.00	1,520.50	1,520.50	5.51	30.13	-1.03	8,749.68	-157.86	8,751.11	8,715.46	35.64	245.528	
1,700.00	1,700.00	1,620.50	1,620.50	5.87	32.14	-1.03	8,749.68	-157.86	8,751.11	8,713.09	38.01	230.215	
1,800.00	1,800.00	1,720.50	1,720.50	6.23	34.15	-1.03	8,749.68	-157.86	8,751.11	8,710.72	40.38	216.701	
1,900.00	1,900.00	1,820.50	1,820.50	6.59	36.17	-1.03	8,749.68	-157.86	8,751.11	8,708.35	42.75	204.686	
2,000.00	2,000.00	1,920.50	1,920.50	6.95	38.18	-1.03	8,749.68	-157.86	8,751.11	8,705.98	45.12	193.934	
2,100.00	2,099.98	2,020.48	2,020.48	7.29	40.19	-135.80	8,749.68	-157.86	8,752.36	8,704.88	47.48	184.342	
2,200.00	2,199.84	2,120.34	2,120.34	7.62	42.20	-135.77	8,749.68	-157.86	8,756.11	8,706.29	49.82	175.760	
2,300.00	2,299.45	2,219.95	2,219.95	7.95	44.20	-135.73	8,749.68	-157.86	8,762.37	8,710.21	52.16	167.999	
2,400.00	2,398.70	2,319.20	2,319.20	8.30	46.20	-135.66	8,749.68	-157.86	8,771.12	8,716.63	54.49	160.960	
2,500.00	2,497.47	2,417.97	2,417.97	8.65	48.19	-135.57	8,749.68	-157.86	8,782.37	8,725.54	56.82	154.556	
2,600.00	2,595.62	2,516.12	2,516.12	9.01	50.16	-135.46	8,749.68	-157.86	8,796.10	8,736.96	59.15	148.713	
2,700.00	2,693.44	2,613.94	2,613.94	9.39	52.13	-135.56	8,749.68	-157.86	8,811.10	8,749.62	61.47	143.334	
2,800.00	2,791.25	2,711.75	2,711.75	9.77	54.10	-135.65	8,749.68	-157.86	8,826.11	8,762.31	63.80	138.336	
2,900.00	2,889.07	2,809.57	2,809.57	10.17	56.06	-135.74	8,749.68	-157.86	8,841.15	8,775.01	66.14	133.678	
3,000.00	2,886.88	2,907.38	2,907.38	10.57	58.03	-135.84	8,749.68	-157.86	8,856.21	8,787.74	68.48	129.329	
3,100.00	3,084.70	3,005.20	3,005.20	10.99	60.00	-135.93	8,749.68	-157.86	8,871.30	8,800.48	70.82	125.261	
3,200.00	3,182.51	3,103.01	3,103.01	11.41	61.96	-136.02	8,749.68	-157.86	8,886.41	8,813.24	73.17	121.446	
3,300.00	3,280.33	3,200.83	3,200.83	11.83	63.93	-136.11	8,749.68	-157.86	8,901.54	8,826.01	75.52	117.864	
3,400.00	3,378.14	3,298.64	3,298.64	12.26	65.90	-136.21	8,749.68	-157.86	8,916.69	8,838.81	77.88	114.493	
3,500.00	3,475.96	3,396.46	3,396.46	12.69	67.87	-136.30	8,749.68	-157.86	8,931.87	8,851.63	80.24	111.317	
3,600.00	3,573.77	3,494.27	3,494.27	13.13	69.83	-136.40	8,749.68	-157.86	8,947.06	8,864.46	82.60	108.320	
3,700.00	3,671.97	3,592.47	3,592.47	13.57	71.81	-136.68	8,749.68	-157.86	8,960.86	8,875.90	84.96	105.467	
3,800.00	3,770.78	3,691.28	3,691.28	13.98	73.80	-136.90	8,749.68	-157.86	8,972.16	8,884.82	87.33	102.736	
3,900.00	3,870.05	3,790.55	3,790.55	14.38	75.79	-137.07	8,749.68	-157.86	8,980.93	8,891.22	89.70	100.120	
4,000.00	3,969.69	3,890.19	3,890.19	14.75	77.80	-137.19	8,749.68	-157.86	8,987.15	8,895.08	92.07	97.615	
4,100.00	4,069.56	3,990.06	3,990.06	15.11	79.81	-137.26	8,749.68	-157.86	8,990.82	8,896.40	94.43	95.214	
4,200.00	4,169.54	4,090.04	4,090.04	15.44	81.82	-2.51	8,749.68	-157.86	8,991.94	8,895.16	96.78	92.912	
4,300.00	4,269.54	4,190.04	4,190.04	15.77	83.83	-2.51	8,749.68	-157.86	8,991.94	8,892.81	99.13	90.710	
4,400.00	4,369.54	4,290.04	4,290.04	16.10	85.84	-2.51	8,749.68	-157.86	8,991.94	8,890.46	101.48	88.610	
4,500.00	4,469.54	4,390.04	4,390.04	16.43	87.85	-2.51	8,749.68	-157.86	8,991.94	8,888.11	103.83	86.604	
4,600.00	4,569.54	4,490.04	4,490.04	16.76	89.86	-2.51	8,749.68	-157.86	8,991.94	8,885.76	106.18	84.686	
4,700.00	4,669.54	4,590.04	4,590.04	17.09	91.87	-2.51	8,749.68	-157.86	8,991.94	8,883.41	108.53	82.850	
4,800.00	4,769.54	4,690.04	4,690.04	17.43	93.88	-2.51	8,749.68	-157.86	8,991.94	8,881.05	110.89	81.092	
4,900.00	4,869.54	4,790.04	4,790.04	17.76	95.89	-2.51	8,749.68	-157.86	8,991.94	8,878.70	113.24	79.407	
5,000.00	4,969.54	4,890.04	4,890.04	18.10	97.90	-2.51	8,749.68	-157.86	8,991.94	8,876.35	115.59	77.790	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft	
Survey Program:		0-INC		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance					
Depth	Depth	Depth	Depth			Toolface				Between	Between	Minimum	Separation		Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)		+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
								(usft)	(usft)	(usft)	(usft)	(usft)			
5,100.00	5,069.54	4,990.04	4,990.04	18.43	99.92	-2.51		8,749.68	-157.86	8,991.94	8,873.99	117.95	76.237		
5,200.00	5,169.54	5,090.04	5,090.04	18.77	101.93	-2.51		8,749.68	-157.86	8,991.94	8,871.64	120.30	74.744		
5,300.00	5,269.54	5,190.04	5,190.04	19.11	103.94	-2.51		8,749.68	-157.86	8,991.94	8,869.28	122.66	73.309		
5,400.00	5,369.54	5,290.04	5,290.04	19.45	105.95	-2.51		8,749.68	-157.86	8,991.94	8,866.92	125.01	71.927		
5,500.00	5,469.54	5,390.04	5,390.04	19.79	107.96	-2.51		8,749.68	-157.86	8,991.94	8,864.57	127.37	70.596		
5,600.00	5,569.54	5,490.04	5,490.04	20.13	109.97	-2.51		8,749.68	-157.86	8,991.94	8,862.21	129.73	69.313		
5,700.00	5,669.54	5,590.04	5,590.04	20.47	111.98	-2.51		8,749.68	-157.86	8,991.94	8,859.85	132.09	68.076		
5,800.00	5,769.54	5,690.04	5,690.04	20.81	113.99	-2.51		8,749.68	-157.86	8,991.94	8,857.49	134.44	66.882		
5,900.00	5,869.54	5,790.04	5,790.04	21.15	116.00	-2.51		8,749.68	-157.86	8,991.94	8,855.14	136.80	65.729		
6,000.00	5,969.54	5,890.04	5,890.04	21.49	118.02	-2.51		8,749.68	-157.86	8,991.94	8,852.78	139.16	64.615		
6,100.00	6,069.54	5,990.04	5,990.04	21.83	120.03	-2.51		8,749.68	-157.86	8,991.94	8,850.42	141.52	63.538		
6,200.00	6,169.54	6,090.04	6,090.04	22.18	122.04	-2.51		8,749.68	-157.86	8,991.94	8,848.06	143.88	62.496		
6,300.00	6,269.54	6,190.04	6,190.04	22.52	124.05	-2.51		8,749.68	-157.86	8,991.94	8,845.70	146.24	61.487		
6,400.00	6,369.54	6,290.04	6,290.04	22.87	126.06	-2.51		8,749.68	-157.86	8,991.94	8,843.34	148.60	60.511		
6,500.00	6,469.54	6,390.04	6,390.04	23.21	128.07	-2.51		8,749.68	-157.86	8,991.94	8,840.98	150.96	59.565		
6,600.00	6,569.54	6,490.04	6,490.04	23.56	130.08	-2.51		8,749.68	-157.86	8,991.94	8,838.62	153.32	58.647		
6,700.00	6,669.54	6,590.04	6,590.04	23.90	132.09	-2.51		8,749.68	-157.86	8,991.94	8,836.26	155.68	57.758		
6,800.00	6,769.54	6,690.04	6,690.04	24.25	134.10	-2.51		8,749.68	-157.86	8,991.94	8,833.89	158.04	56.895		
6,900.00	6,869.54	6,790.04	6,790.04	24.59	136.11	-2.51		8,749.68	-157.86	8,991.94	8,831.53	160.41	56.058		
7,000.00	6,969.54	6,890.04	6,890.04	24.94	138.13	-2.51		8,749.68	-157.86	8,991.94	8,829.17	162.77	55.244		
7,100.00	7,069.54	6,990.04	6,990.04	25.29	140.14	-2.51		8,749.68	-157.86	8,991.94	8,826.81	165.13	54.454		
7,200.00	7,169.54	7,090.04	7,090.04	25.63	142.15	-2.51		8,749.68	-157.86	8,991.94	8,824.45	167.49	53.686		
7,300.00	7,269.54	7,190.04	7,190.04	25.98	144.16	-2.51		8,749.68	-157.86	8,991.94	8,822.09	169.85	52.939		
7,400.00	7,369.54	7,290.04	7,290.04	26.33	146.17	-2.51		8,749.68	-157.86	8,991.94	8,819.72	172.22	52.213		
7,500.00	7,469.54	7,390.04	7,390.04	26.68	148.18	-2.51		8,749.68	-157.86	8,991.94	8,817.36	174.58	51.507		
7,600.00	7,569.54	7,490.04	7,490.04	27.03	150.19	-2.51		8,749.68	-157.86	8,991.94	8,815.00	176.94	50.819		
7,700.00	7,669.54	7,590.04	7,590.04	27.37	152.20	-2.51		8,749.68	-157.86	8,991.94	8,812.63	179.30	50.149		
7,800.00	7,769.54	7,690.04	7,690.04	27.72	154.21	-2.51		8,749.68	-157.86	8,991.94	8,810.27	181.67	49.497		
7,900.00	7,869.54	7,790.04	7,790.04	28.07	156.22	-2.51		8,749.68	-157.86	8,991.94	8,807.91	184.03	48.861		
8,000.00	7,969.54	7,890.04	7,890.04	28.42	158.24	-2.51		8,749.68	-157.86	8,991.94	8,805.54	186.39	48.241		
8,100.00	8,069.54	7,990.04	7,990.04	28.77	160.25	-2.51		8,749.68	-157.86	8,991.94	8,803.18	188.76	47.637		
8,200.00	8,169.54	8,090.04	8,090.04	29.12	162.26	-2.51		8,749.68	-157.86	8,991.94	8,800.82	191.12	47.048		
8,300.00	8,269.54	8,190.04	8,190.04	29.47	164.27	-2.51		8,749.68	-157.86	8,991.94	8,798.45	193.49	46.473		
8,400.00	8,369.54	8,290.04	8,290.04	29.82	166.28	-2.51		8,749.68	-157.86	8,991.94	8,796.09	195.85	45.912		
8,500.00	8,469.54	8,390.04	8,390.04	30.17	168.29	-2.51		8,749.68	-157.86	8,991.94	8,793.72	198.21	45.365		
8,600.00	8,569.54	8,490.04	8,490.04	30.52	170.30	-2.51		8,749.68	-157.86	8,991.94	8,791.36	200.58	44.830		
8,700.00	8,669.54	8,590.04	8,590.04	30.87	172.31	-2.51		8,749.68	-157.86	8,991.94	8,789.00	202.94	44.308		
8,800.00	8,769.54	8,690.04	8,690.04	31.22	174.32	-2.51		8,749.68	-157.86	8,991.94	8,786.63	205.31	43.797		
8,900.00	8,869.54	8,790.04	8,790.04	31.57	176.33	-2.51		8,749.68	-157.86	8,991.94	8,784.27	207.67	43.299		
9,000.00	8,969.54	8,890.04	8,890.04	31.93	178.35	-2.51		8,749.68	-157.86	8,991.94	8,781.90	210.04	42.811		
9,100.00	9,069.54	8,990.04	8,990.04	32.28	180.36	-2.51		8,749.68	-157.86	8,991.94	8,779.54	212.40	42.335		
9,200.00	9,169.54	9,090.04	9,090.04	32.63	182.37	-2.51		8,749.68	-157.86	8,991.94	8,777.17	214.77	41.868		
9,300.00	9,269.54	9,190.04	9,190.04	32.98	184.38	-2.51		8,749.68	-157.86	8,991.94	8,774.81	217.13	41.412		
9,400.00	9,369.54	9,290.04	9,290.04	33.33	186.39	-2.51		8,749.68	-157.86	8,991.94	8,772.44	219.50	40.966		
9,500.00	9,469.54	9,390.04	9,390.04	33.68	188.40	-2.51		8,749.68	-157.86	8,991.94	8,770.08	221.86	40.529		
9,600.00	9,569.54	9,490.04	9,490.04	34.04	190.41	-2.51		8,749.68	-157.86	8,991.94	8,767.71	224.23	40.102		
9,700.00	9,669.54	9,590.04	9,590.04	34.39	192.42	-2.51		8,749.68	-157.86	8,991.94	8,765.35	226.59	39.683		
9,800.00	9,769.54	9,690.04	9,690.04	34.74	194.43	-2.51		8,749.68	-157.86	8,991.94	8,762.98	228.96	39.273		
9,900.00	9,869.54	9,790.04	9,790.04	35.09	196.44	-2.51		8,749.68	-157.86	8,991.94	8,760.61	231.32	38.872		
10,000.00	9,969.54	9,890.04	9,890.04	35.45	198.46	-2.51		8,749.68	-157.86	8,991.94	8,758.25	233.69	38.478		
10,100.00	10,069.54	9,990.04	9,990.04	35.80	200.47	-2.51		8,749.68	-157.86	8,991.94	8,755.88	236.06	38.092		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft		
Survey Program:		0-INC		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Distance	Offset Well Error:	0.00 usft
Measured	Reference	Vertical	Measured	Vertical	Reference	Offset	Highside									
Depth		Depth	Depth	Depth			Toolface		+N/-S	+E/-W	Between	Between	Minimum	Separation		Warning
(usft)		(usft)	(usft)	(usft)	(usft)	(usft)	(°)		(usft)	(usft)	Centres	Ellipses	Separation	Factor		
											(usft)	(usft)	(usft)			
10,200.00		10,169.54	10,090.04	10,090.04	36.15	202.48	-2.51		8,749.68	-157.86	8,991.94	8,753.52	238.42	37.714		
10,300.00		10,269.54	10,190.04	10,190.04	36.51	204.49	-2.51		8,749.68	-157.86	8,991.94	8,751.15	240.79	37.344		
10,400.00		10,369.54	10,290.04	10,290.04	36.86	206.50	-2.51		8,749.68	-157.86	8,991.94	8,748.79	243.15	36.981		
10,500.00		10,469.54	10,390.04	10,390.04	37.21	208.51	-2.51		8,749.68	-157.86	8,991.94	8,746.42	245.52	36.624		
10,600.00		10,569.54	10,490.04	10,490.04	37.57	210.52	-2.51		8,749.68	-157.86	8,991.94	8,744.05	247.89	36.275		
10,700.00		10,669.54	10,590.04	10,590.04	37.92	212.53	-2.51		8,749.68	-157.86	8,991.94	8,741.69	250.25	35.932		
10,800.00		10,769.54	10,690.04	10,690.04	38.27	214.54	-2.51		8,749.68	-157.86	8,991.94	8,739.32	252.62	35.595		
10,900.00		10,869.54	10,790.04	10,790.04	38.63	216.55	-2.51		8,749.68	-157.86	8,991.94	8,736.95	254.98	35.265		
11,000.00		10,969.45	10,889.95	10,889.95	38.98	218.56	-2.14		8,749.68	-157.86	8,989.26	8,731.91	257.35	34.930		
11,100.00		11,067.64	10,988.14	10,988.14	39.30	220.54	-2.21		8,749.68	-157.86	8,970.98	8,711.32	259.66	34.549		
11,200.00		11,161.16	11,081.66	11,081.66	39.59	222.42	-2.37		8,749.68	-157.86	8,935.95	8,674.10	261.85	34.126		
11,300.00		11,247.17	11,167.67	11,167.67	39.83	224.15	-2.65		8,749.68	-157.86	8,885.22	8,621.38	263.84	33.676		
11,400.00		11,323.06	11,243.56	11,243.56	40.03	225.67	-3.09		8,749.68	-157.86	8,820.34	8,554.76	265.58	33.211		
11,500.00		11,386.52	11,307.02	11,307.02	40.18	226.95	-3.86		8,749.68	-157.86	8,743.28	8,476.26	267.01	32.745		
11,600.00		11,435.62	11,356.12	11,356.12	40.33	227.94	-5.33		8,749.68	-157.86	8,656.38	8,388.27	268.10	32.287		
11,700.00		11,468.88	11,389.38	11,389.38	40.54	228.61	-8.88		8,749.68	-157.86	8,562.27	8,293.44	268.83	31.850		
11,800.00		11,485.28	11,405.78	11,405.78	40.77	228.94	-26.95		8,749.68	-157.86	8,463.83	8,194.64	269.19	31.442		
11,900.00		11,486.77	11,407.27	11,407.27	41.03	228.97	-96.24		8,749.68	-157.86	8,363.96	8,094.72	269.23	31.066		
12,000.00		11,486.33	11,406.83	11,406.83	41.36	228.96	-96.17		8,749.68	-157.86	8,264.04	7,994.80	269.24	30.694		
12,100.00		11,485.90	11,406.40	11,406.40	41.74	228.95	-96.10		8,749.68	-157.86	8,164.12	7,894.88	269.24	30.323		
12,200.00		11,485.46	11,405.96	11,405.96	42.19	228.94	-96.03		8,749.68	-157.86	8,064.21	7,794.96	269.25	29.951		
12,300.00		11,485.02	11,405.52	11,405.52	42.70	228.93	-95.96		8,749.68	-157.86	7,964.29	7,695.04	269.25	29.579		
12,400.00		11,484.59	11,405.09	11,405.09	43.26	228.92	-95.89		8,749.68	-157.86	7,864.38	7,595.12	269.26	29.207		
12,500.00		11,484.15	11,404.65	11,404.65	43.88	228.91	-95.81		8,749.68	-157.86	7,764.48	7,495.20	269.27	28.835		
12,600.00		11,483.71	11,404.21	11,404.21	44.55	228.90	-95.74		8,749.68	-157.86	7,664.57	7,395.28	269.29	28.463		
12,700.00		11,483.27	11,403.77	11,403.77	45.27	228.90	-95.67		8,749.68	-157.86	7,564.67	7,295.37	269.30	28.090		
12,800.00		11,482.83	11,403.33	11,403.33	46.04	228.89	-95.60		8,749.68	-157.86	7,464.77	7,195.45	269.31	27.718		
12,900.00		11,482.39	11,402.89	11,402.89	46.85	228.88	-95.53		8,749.68	-157.86	7,364.87	7,095.54	269.33	27.345		
13,000.00		11,481.95	11,402.45	11,402.45	47.71	228.87	-95.46		8,749.68	-157.86	7,264.97	6,995.63	269.35	26.973		
13,100.00		11,481.52	11,402.02	11,402.02	48.61	228.86	-95.39		8,749.68	-157.86	7,165.08	6,895.72	269.37	26.600		
13,200.00		11,481.08	11,401.58	11,401.58	49.55	228.85	-95.32		8,749.68	-157.86	7,065.19	6,795.81	269.39	26.227		
13,300.00		11,480.64	11,401.14	11,401.14	50.52	228.84	-95.24		8,749.68	-157.86	6,965.31	6,695.90	269.41	25.854		
13,400.00		11,480.20	11,400.70	11,400.70	51.53	228.83	-95.17		8,749.68	-157.86	6,865.42	6,595.99	269.43	25.481		
13,500.00		11,479.75	11,400.25	11,400.25	52.57	228.82	-95.10		8,749.68	-157.86	6,765.55	6,496.09	269.46	25.108		
13,600.00		11,479.31	11,399.81	11,399.81	53.65	228.82	-95.03		8,749.68	-157.86	6,665.67	6,396.19	269.48	24.735		
13,700.00		11,478.87	11,399.37	11,399.37	54.75	228.81	-94.96		8,749.68	-157.86	6,565.80	6,296.29	269.51	24.362		
13,800.00		11,478.43	11,398.93	11,398.93	55.88	228.80	-94.88		8,749.68	-157.86	6,465.93	6,196.39	269.54	23.989		
13,900.00		11,477.99	11,398.49	11,398.49	57.03	228.79	-94.81		8,749.68	-157.86	6,366.07	6,096.49	269.57	23.615		
14,000.00		11,477.55	11,398.05	11,398.05	58.21	228.78	-94.74		8,749.68	-157.86	6,266.21	5,996.60	269.61	23.242		
14,100.00		11,477.11	11,397.61	11,397.61	59.41	228.77	-94.67		8,749.68	-157.86	6,166.35	5,896.71	269.64	22.869		
14,200.00		11,476.66	11,397.16	11,397.16	60.64	228.76	-94.59		8,749.68	-157.86	6,066.50	5,796.82	269.68	22.495		
14,300.00		11,476.22	11,396.72	11,396.72	61.88	228.75	-94.52		8,749.68	-157.86	5,966.66	5,696.94	269.72	22.122		
14,400.00		11,475.78	11,396.28	11,396.28	63.14	228.75	-94.45		8,749.68	-157.86	5,866.82	5,597.06	269.76	21.748		
14,500.00		11,475.34	11,395.84	11,395.84	64.42	228.74	-94.37		8,749.68	-157.86	5,766.98	5,497.18	269.80	21.375		
14,600.00		11,474.89	11,395.39	11,395.39	65.72	228.73	-94.30		8,749.68	-157.86	5,667.15	5,397.31	269.85	21.001		
14,700.00		11,474.45	11,394.95	11,394.95	67.03	228.72	-94.23		8,749.68	-157.86	5,567.33	5,297.44	269.90	20.628		
14,800.00		11,474.00	11,394.50	11,394.50	68.36	228.71	-94.16		8,749.68	-157.86	5,467.52	5,197.57	269.95	20.254		
14,900.00		11,473.56	11,394.06	11,394.06	69.70	228.70	-94.08		8,749.68	-157.86	5,367.71	5,097.71	270.00	19.881		
15,000.00		11,473.12	11,393.62	11,393.62	71.06	228.69	-94.01		8,749.68	-157.86	5,267.90	4,997.85	270.05	19.507		
15,100.00		11,472.67	11,393.17	11,393.17	72.43	228.68	-93.93		8,749.68	-157.86	5,168.11	4,898.00	270.11	19.133		
15,200.00		11,472.23	11,392.73	11,392.73	73.81	228.67	-93.86		8,749.68	-157.86	5,068.32	4,798.15	270.17	18.760		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft	
Survey Program:		0-INC		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured	Reference	Measured	Vertical	Reference	Offset	Highside				Between	Between	Minimum	Separation	Warning	
Depth	Vertical	Depth	Depth			Toolface				Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)		+N/-S	+E/-W	(usft)	(usft)	(usft)			
15,300.00	11,471.78	11,392.28	11,392.28	75.20	228.66	-93.79		8,749.68	-157.86	4,968.54	4,698.31	270.23	18.386		
15,400.00	11,471.34	11,391.84	11,391.84	76.60	228.66	-93.71		8,749.68	-157.86	4,868.78	4,598.48	270.30	18.013		
15,500.00	11,470.89	11,391.39	11,391.39	78.01	228.65	-93.64		8,749.68	-157.86	4,769.02	4,498.65	270.36	17.639		
15,600.00	11,470.44	11,390.94	11,390.94	79.43	228.64	-93.56		8,749.68	-157.86	4,669.27	4,398.84	270.43	17.266		
15,700.00	11,470.00	11,390.50	11,390.50	80.86	228.63	-93.49		8,749.68	-157.86	4,569.53	4,299.02	270.50	16.893		
15,800.00	11,469.55	11,390.05	11,390.05	82.30	228.62	-93.42		8,749.68	-157.86	4,469.80	4,199.22	270.58	16.519		
15,900.00	11,469.10	11,389.60	11,389.60	83.74	228.61	-93.34		8,749.68	-157.86	4,370.09	4,099.43	270.66	16.146		
16,000.00	11,468.66	11,389.16	11,389.16	85.20	228.60	-93.27		8,749.68	-157.86	4,270.39	3,999.64	270.75	15.773		
16,100.00	11,468.21	11,388.71	11,388.71	86.66	228.59	-93.19		8,749.68	-157.86	4,170.70	3,899.86	270.84	15.399		
16,200.00	11,467.76	11,388.26	11,388.26	88.13	228.58	-93.12		8,749.68	-157.86	4,071.03	3,800.10	270.93	15.026		
16,300.00	11,467.32	11,387.82	11,387.82	89.60	228.57	-93.04		8,749.68	-157.86	3,971.38	3,700.34	271.03	14.653		
16,400.00	11,466.87	11,387.37	11,387.37	91.08	228.57	-92.97		8,749.68	-157.86	3,871.74	3,600.60	271.14	14.279		
16,500.00	11,466.42	11,386.92	11,386.92	92.57	228.56	-92.89		8,749.68	-157.86	3,772.12	3,500.87	271.25	13.906		
16,600.00	11,465.97	11,386.47	11,386.47	94.06	228.55	-92.82		8,749.68	-157.86	3,672.53	3,401.15	271.37	13.533		
16,700.00	11,465.52	11,386.02	11,386.02	95.56	228.54	-92.74		8,749.68	-157.86	3,572.95	3,301.45	271.50	13.160		
16,800.00	11,465.07	11,385.57	11,385.57	97.06	228.53	-92.67		8,749.68	-157.86	3,473.40	3,201.77	271.63	12.787		
16,900.00	11,464.62	11,385.12	11,385.12	98.57	228.52	-92.59		8,749.68	-157.86	3,373.88	3,102.10	271.78	12.414		
17,000.00	11,464.17	11,384.67	11,384.67	100.08	228.51	-92.52		8,749.68	-157.86	3,274.38	3,002.45	271.93	12.041		
17,100.00	11,463.72	11,384.22	11,384.22	101.60	228.50	-92.44		8,749.68	-157.86	3,174.92	2,902.83	272.09	11.669		
17,200.00	11,463.27	11,383.77	11,383.77	103.12	228.49	-92.36		8,749.68	-157.86	3,075.49	2,803.23	272.26	11.296		
17,300.00	11,462.82	11,383.32	11,383.32	104.65	228.48	-92.29		8,749.68	-157.86	2,976.10	2,703.65	272.45	10.923		
17,400.00	11,462.37	11,382.87	11,382.87	106.18	228.48	-92.21		8,749.68	-157.86	2,876.76	2,604.10	272.65	10.551		
17,500.00	11,461.92	11,382.42	11,382.42	107.71	228.47	-92.14		8,749.68	-157.86	2,777.45	2,504.59	272.87	10.179		
17,600.00	11,461.47	11,381.97	11,381.97	109.25	228.46	-92.06		8,749.68	-157.86	2,678.21	2,405.10	273.11	9.806		
17,700.00	11,461.02	11,381.52	11,381.52	110.79	228.45	-91.98		8,749.68	-157.86	2,579.02	2,305.65	273.37	9.434		
17,800.00	11,460.57	11,381.07	11,381.07	112.33	228.44	-91.91		8,749.68	-157.86	2,479.89	2,206.24	273.65	9.062		
17,900.00	11,460.12	11,380.62	11,380.62	113.88	228.43	-91.83		8,749.68	-157.86	2,380.84	2,106.88	273.96	8.690		
18,000.00	11,459.66	11,380.16	11,380.16	115.43	228.42	-91.75		8,749.68	-157.86	2,281.87	2,007.56	274.31	8.319		
18,100.00	11,459.21	11,379.71	11,379.71	116.98	228.41	-91.68		8,749.68	-157.86	2,182.99	1,908.30	274.69	7.947		
18,200.00	11,458.76	11,379.26	11,379.26	118.54	228.40	-91.60		8,749.68	-157.86	2,084.22	1,809.11	275.11	7.576		
18,300.00	11,458.31	11,378.81	11,378.81	120.09	228.39	-91.52		8,749.68	-157.86	1,985.57	1,709.99	275.59	7.205		
18,400.00	11,457.85	11,378.35	11,378.35	121.66	228.38	-91.45		8,749.68	-157.86	1,887.07	1,610.95	276.12	6.834		
18,500.00	11,457.40	11,377.90	11,377.90	123.22	228.38	-91.37		8,749.68	-157.86	1,788.73	1,512.00	276.73	6.464		
18,600.00	11,456.95	11,377.45	11,377.45	124.78	228.37	-91.29		8,749.68	-157.86	1,690.59	1,413.16	277.43	6.094		
18,700.00	11,456.49	11,376.99	11,376.99	126.35	228.36	-91.22		8,749.68	-157.86	1,592.67	1,314.45	278.23	5.724		
18,800.00	11,456.04	11,376.54	11,376.54	127.92	228.35	-91.14		8,749.68	-157.86	1,495.04	1,215.88	279.16	5.355		
18,900.00	11,455.58	11,376.08	11,376.08	129.50	228.34	-91.06		8,749.68	-157.86	1,397.73	1,117.48	280.25	4.987		
19,000.00	11,455.13	11,375.63	11,375.63	131.07	228.33	-90.98		8,749.68	-157.86	1,300.84	1,019.30	281.54	4.620		
19,100.00	11,454.67	11,375.17	11,375.17	132.65	228.32	-90.91		8,749.68	-157.86	1,204.45	921.36	283.09	4.255		
19,200.00	11,454.22	11,374.72	11,374.72	134.22	228.31	-90.83		8,749.68	-157.86	1,108.71	823.74	284.97	3.891		
19,300.00	11,453.76	11,374.26	11,374.26	135.80	228.30	-90.75		8,749.68	-157.86	1,013.78	726.51	287.27	3.529		
19,400.00	11,453.31	11,373.81	11,373.81	137.39	228.29	-90.67		8,749.68	-157.86	919.94	629.79	290.15	3.171		
19,500.00	11,452.85	11,373.35	11,373.35	138.97	228.28	-90.59		8,749.68	-157.86	827.53	533.73	293.80	2.817		
19,600.00	11,452.39	11,372.89	11,372.89	140.56	228.27	-90.52		8,749.68	-157.86	737.11	438.58	298.53	2.469		
19,700.00	11,451.94	11,372.44	11,372.44	142.14	228.27	-90.44		8,749.68	-157.86	649.50	344.74	304.76	2.131		
19,800.00	11,451.48	11,371.98	11,371.98	143.73	228.26	-90.36		8,749.68	-157.86	566.01	252.87	313.14	1.808		
19,900.00	11,451.02	11,371.52	11,371.52	145.32	228.25	-90.28		8,749.68	-157.86	488.77	164.22	324.55	1.506		
20,000.00	11,450.57	11,371.07	11,371.07	146.91	228.24	-90.20		8,749.68	-157.86	421.21	81.33	339.87	1.239 Level 3		
20,100.00	11,450.11	11,370.61	11,370.61	148.51	228.23	-90.12		8,749.68	-157.86	368.69	9.92	358.78	1.028 Level 3		
20,200.00	11,449.65	11,370.15	11,370.15	150.10	228.22	-90.05		8,749.68	-157.86	338.31	-37.31	375.62	0.901 Level 3		
20,257.41	11,449.39	11,369.89	11,369.89	151.02	228.21	-90.00		8,749.68	-157.86	333.40	-45.76	379.16	0.879 Level 3, CC, ES, SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1											Offset Site Error: 0.00 usft			
Survey Program: 0-INC			Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,300.00	11,449.19	11,369.69	11,369.69	151.70	228.21	-89.97	8,749.68	-157.86	336.11	-41.37	377.48	0.890	Level 3	
20,400.00	11,448.73	11,369.23	11,369.23	153.29	228.20	-89.89	8,749.68	-157.86	362.62	0.04	362.58	1.000	Level 3	
20,500.00	11,448.27	11,368.77	11,368.77	154.89	228.19	-89.81	8,749.68	-157.86	412.32	68.55	343.77	1.199	Level 3	
20,600.00	11,447.82	11,368.32	11,368.32	156.49	228.18	-89.73	8,749.68	-157.86	478.05	149.92	328.13	1.457	Level 3	
20,700.00	11,447.36	11,367.86	11,367.86	158.09	228.17	-89.65	8,749.68	-157.86	554.12	237.66	316.46	1.751		
20,800.00	11,446.90	11,367.40	11,367.40	159.70	228.16	-89.57	8,749.68	-157.86	636.84	328.91	307.93	2.068		
20,900.00	11,446.44	11,366.94	11,366.94	161.30	228.15	-89.49	8,749.68	-157.86	723.93	422.29	301.64	2.400		
21,000.00	11,445.98	11,366.48	11,366.48	162.90	228.15	-89.41	8,749.68	-157.86	814.00	517.08	296.92	2.741		
21,100.00	11,445.52	11,366.02	11,366.02	164.51	228.14	-89.33	8,749.68	-157.86	906.15	612.83	293.32	3.089		
21,200.00	11,445.06	11,365.56	11,365.56	166.11	228.13	-89.25	8,749.68	-157.86	999.81	709.30	290.51	3.442		
21,300.00	11,444.60	11,365.10	11,365.10	167.72	228.12	-89.17	8,749.68	-157.86	1,094.60	806.30	288.30	3.797		
21,400.00	11,444.14	11,364.64	11,364.64	169.33	228.11	-89.09	8,749.68	-157.86	1,190.23	903.71	286.52	4.154		
21,500.00	11,443.67	11,364.17	11,364.17	170.94	228.10	-89.01	8,749.68	-157.86	1,286.53	1,001.45	285.08	4.513		
21,600.00	11,443.21	11,363.71	11,363.71	172.55	228.09	-88.94	8,749.68	-157.86	1,383.36	1,099.46	283.90	4.873		
21,700.00	11,442.75	11,363.25	11,363.25	174.16	228.08	-88.86	8,749.68	-157.86	1,480.61	1,197.68	282.92	5.233		
21,800.00	11,442.29	11,362.79	11,362.79	175.77	228.07	-88.78	8,749.68	-157.86	1,578.20	1,296.09	282.11	5.594		
21,862.35	11,442.00	11,362.50	11,362.50	176.77	228.07	-88.73	8,749.68	-157.86	1,639.19	1,357.52	281.67	5.820		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N-/S (usft)	+E-/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	4.00	4.00	0.00	0.01	79.04	299.01	1,543.57	1,572.26						
100.00	100.00	104.00	104.00	0.13	0.15	79.04	299.01	1,543.57	1,572.26	1,571.98	0.28	5,551.910			
200.00	200.00	204.00	204.00	0.49	0.51	79.04	299.01	1,543.57	1,572.26	1,571.26	1.00	1,572.048			
300.00	300.00	304.00	304.00	0.85	0.87	79.04	299.01	1,543.57	1,572.26	1,570.54	1.72	915.661			
400.00	400.00	404.00	404.00	1.21	1.22	79.04	299.01	1,543.57	1,572.26	1,569.83	2.43	645.952			
500.00	500.00	504.00	504.00	1.57	1.58	79.04	299.01	1,543.57	1,572.26	1,569.11	3.15	498.978			
600.00	600.00	604.00	604.00	1.93	1.94	79.04	299.01	1,543.57	1,572.26	1,568.39	3.87	406.489			
700.00	700.00	704.00	704.00	2.29	2.30	79.04	299.01	1,543.57	1,572.26	1,567.68	4.58	342.925			
800.00	800.00	804.00	804.00	2.64	2.66	79.04	299.01	1,543.57	1,572.26	1,566.96	5.30	296.553			
900.00	900.00	904.00	904.00	3.00	3.02	79.04	299.01	1,543.57	1,572.26	1,566.24	6.02	261.228			
1,000.00	1,000.00	1,004.00	1,004.00	3.36	3.38	79.04	299.01	1,543.57	1,572.26	1,565.53	6.74	233.423			
1,100.00	1,100.00	1,104.00	1,104.00	3.72	3.73	79.04	299.01	1,543.57	1,572.26	1,564.81	7.45	210.968			
1,200.00	1,200.00	1,204.00	1,204.00	4.08	4.09	79.04	299.01	1,543.57	1,572.26	1,564.09	8.17	192.453			
1,300.00	1,300.00	1,304.00	1,304.00	4.44	4.45	79.04	299.01	1,543.57	1,572.26	1,563.37	8.89	176.927			
1,400.00	1,400.00	1,404.00	1,404.00	4.79	4.81	79.04	299.01	1,543.57	1,572.26	1,562.66	9.60	163.718			
1,500.00	1,500.00	1,504.00	1,504.00	5.15	5.17	79.04	299.01	1,543.57	1,572.26	1,561.94	10.32	152.345			
1,600.00	1,600.00	1,604.00	1,604.00	5.51	5.53	79.04	299.01	1,543.57	1,572.26	1,561.22	11.04	142.449			
1,700.00	1,700.00	1,704.00	1,704.00	5.87	5.88	79.04	299.01	1,543.57	1,572.26	1,560.51	11.75	133.761			
1,800.00	1,800.00	1,804.00	1,804.00	6.23	6.24	79.04	299.01	1,543.57	1,572.26	1,559.79	12.47	126.071			
1,900.00	1,900.00	1,904.00	1,904.00	6.59	6.60	79.04	299.01	1,543.57	1,572.26	1,559.07	13.19	119.218			
2,000.00	2,000.00	2,004.00	2,004.00	6.95	6.96	79.04	299.01	1,543.57	1,572.26	1,558.36	13.91	113.071			
2,100.00	2,099.98	2,103.98	2,103.98	7.29	7.32	-55.81	299.01	1,543.57	1,571.28	1,556.67	14.61	107.575			
2,200.00	2,199.84	2,203.84	2,203.84	7.62	7.68	-56.02	299.01	1,543.57	1,568.34	1,553.05	15.29	102.547			
2,300.00	2,299.45	2,303.45	2,303.45	7.95	8.03	-56.36	299.01	1,543.57	1,563.48	1,547.50	15.98	97.816			
2,400.00	2,398.70	2,402.70	2,402.70	8.30	8.39	-56.85	299.01	1,543.57	1,556.74	1,540.06	16.68	93.343			
2,500.00	2,497.47	2,501.47	2,501.47	8.65	8.74	-57.47	299.01	1,543.57	1,548.18	1,530.80	17.38	89.097			
2,600.00	2,595.62	2,599.62	2,599.62	9.01	9.09	-58.24	299.01	1,543.57	1,537.89	1,519.81	18.08	85.048			
2,700.00	2,693.44	2,697.44	2,697.44	9.39	9.45	-58.89	299.01	1,543.57	1,526.87	1,508.08	18.80	81.224			
2,800.00	2,791.25	2,795.25	2,795.25	9.77	9.80	-59.55	299.01	1,543.57	1,516.06	1,496.54	19.52	77.655			
2,900.00	2,889.07	2,919.51	2,919.47	10.17	10.22	-60.32	296.56	1,543.13	1,504.64	1,484.32	20.32	74.044			
3,000.00	2,986.88	3,045.96	3,045.66	10.57	10.63	-60.93	288.62	1,541.72	1,491.54	1,470.43	21.11	70.665			
3,100.00	3,084.70	3,172.80	3,171.74	10.99	11.04	-61.35	275.16	1,539.34	1,476.65	1,454.75	21.90	67.436			
3,200.00	3,182.51	3,299.53	3,297.00	11.41	11.46	-61.59	256.24	1,535.98	1,459.90	1,437.21	22.69	64.343			
3,300.00	3,280.33	3,420.02	3,415.20	11.83	11.88	-61.63	233.27	1,531.91	1,441.30	1,417.83	23.48	61.393			
3,400.00	3,378.14	3,518.16	3,511.20	12.26	12.23	-61.61	213.18	1,528.35	1,422.11	1,397.88	24.23	58.695			
3,500.00	3,475.96	3,616.30	3,607.19	12.69	12.59	-61.60	193.09	1,524.78	1,402.91	1,377.92	24.99	56.132			
3,600.00	3,573.77	3,714.44	3,703.19	13.13	12.96	-61.56	173.00	1,521.22	1,383.72	1,357.95	25.77	53.698			
3,700.00	3,671.97	3,812.73	3,799.33	13.57	13.33	-61.14	152.88	1,517.65	1,365.46	1,338.91	26.55	51.439			
3,800.00	3,770.78	3,911.19	3,895.64	13.98	13.72	-60.62	132.72	1,514.08	1,348.87	1,321.55	27.32	49.380			
3,900.00	3,870.05	4,009.72	3,992.02	14.38	14.11	-59.99	112.55	1,510.50	1,334.00	1,305.92	28.08	47.510			
4,000.00	3,969.69	4,108.18	4,088.33	14.75	14.50	-59.26	92.40	1,506.93	1,320.94	1,292.11	28.83	45.817			
4,100.00	4,069.56	4,206.46	4,184.46	15.11	14.90	-58.44	72.28	1,503.36	1,309.79	1,280.21	29.57	44.291			
4,200.00	4,169.54	4,304.44	4,280.29	15.44	15.30	77.26	52.22	1,499.80	1,300.65	1,270.35	30.30	42.925			
4,300.00	4,269.54	4,402.25	4,375.97	15.77	15.71	78.09	32.19	1,496.25	1,292.58	1,261.55	31.03	41.659			
4,400.00	4,369.54	4,500.06	4,471.65	16.10	16.12	78.94	12.17	1,492.70	1,284.80	1,253.04	31.76	40.453			
4,500.00	4,469.54	4,597.88	4,567.33	16.43	16.54	79.79	-7.86	1,489.15	1,277.31	1,244.81	32.50	39.302			
4,600.00	4,569.54	4,695.69	4,663.00	16.76	16.95	80.65	-27.88	1,485.60	1,270.12	1,236.87	33.24	38.205			
4,700.00	4,669.54	4,793.51	4,758.68	17.09	17.38	81.53	-47.90	1,482.05	1,263.22	1,229.23	34.00	37.159			
4,800.00	4,769.54	4,891.32	4,854.36	17.43	17.80	82.41	-67.93	1,478.50	1,256.64	1,221.89	34.75	36.161			
4,900.00	4,869.54	4,989.14	4,950.04	17.76	18.23	83.30	-87.95	1,474.95	1,250.36	1,214.85	35.51	35.210			
5,000.00	4,969.54	5,086.95	5,045.71	18.10	18.66	84.19	-107.98	1,471.40	1,244.40	1,208.13	36.28	34.304			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,069.54	5,177.80	5,134.70	18.43	19.05	85.01	-125.95	1,468.21	1,238.96	1,201.94	37.02	33.466	
5,200.00	5,169.54	5,266.46	5,222.04	18.77	19.43	85.69	-140.94	1,465.55	1,234.53	1,196.78	37.75	32.704	
5,300.00	5,269.54	5,356.00	5,310.68	19.11	19.80	86.26	-153.38	1,463.35	1,231.07	1,192.60	38.46	32.006	
5,400.00	5,369.54	5,446.25	5,400.39	19.45	20.15	86.71	-163.15	1,461.61	1,228.47	1,189.31	39.17	31.366	
5,500.00	5,469.54	5,537.05	5,490.90	19.79	20.49	87.03	-170.16	1,460.37	1,226.68	1,186.82	39.85	30.781	
5,600.00	5,569.54	5,628.20	5,581.95	20.13	20.81	87.23	-174.36	1,459.63	1,225.63	1,185.11	40.52	30.245	
5,700.00	5,669.54	5,719.81	5,673.54	20.47	21.12	87.29	-175.71	1,459.39	1,225.30	1,184.12	41.18	29.755	
5,800.00	5,769.54	5,819.81	5,773.54	20.81	21.44	87.29	-175.71	1,459.39	1,225.30	1,183.45	41.85	29.280	
5,900.00	5,869.54	5,919.81	5,873.54	21.15	21.76	87.29	-175.71	1,459.39	1,225.30	1,182.78	42.52	28.819	
6,000.00	5,969.54	6,019.81	5,973.54	21.49	22.09	87.29	-175.71	1,459.39	1,225.30	1,182.11	43.19	28.372	
6,100.00	6,069.54	6,119.81	6,073.54	21.83	22.41	87.29	-175.71	1,459.39	1,225.30	1,181.44	43.86	27.937	
6,200.00	6,169.54	6,219.81	6,173.54	22.18	22.74	87.29	-175.71	1,459.39	1,225.30	1,180.76	44.53	27.514	
6,300.00	6,269.54	6,319.81	6,273.54	22.52	23.06	87.29	-175.71	1,459.39	1,225.30	1,180.09	45.21	27.104	
6,400.00	6,369.54	6,419.81	6,373.54	22.87	23.39	87.29	-175.71	1,459.39	1,225.30	1,179.41	45.88	26.704	
6,500.00	6,469.54	6,519.81	6,473.54	23.21	23.72	87.29	-175.71	1,459.39	1,225.30	1,178.74	46.56	26.316	
6,600.00	6,569.54	6,619.81	6,573.54	23.56	24.05	87.29	-175.71	1,459.39	1,225.30	1,178.06	47.24	25.938	
6,700.00	6,669.54	6,719.81	6,673.54	23.90	24.38	87.29	-175.71	1,459.39	1,225.30	1,177.38	47.92	25.570	
6,800.00	6,769.54	6,819.81	6,773.54	24.25	24.71	87.29	-175.71	1,459.39	1,225.30	1,176.70	48.60	25.212	
6,900.00	6,869.54	6,919.81	6,873.54	24.59	25.05	87.29	-175.71	1,459.39	1,225.30	1,176.02	49.28	24.863	
7,000.00	6,969.54	7,019.81	6,973.54	24.94	25.38	87.29	-175.71	1,459.39	1,225.30	1,175.33	49.96	24.523	
7,100.00	7,069.54	7,119.81	7,073.54	25.29	25.71	87.29	-175.71	1,459.39	1,225.30	1,174.65	50.65	24.193	
7,200.00	7,169.54	7,219.81	7,173.54	25.63	26.05	87.29	-175.71	1,459.39	1,225.30	1,173.97	51.33	23.870	
7,300.00	7,269.54	7,319.81	7,273.54	25.98	26.38	87.29	-175.71	1,459.39	1,225.30	1,173.28	52.02	23.555	
7,400.00	7,369.54	7,419.81	7,373.54	26.33	26.72	87.29	-175.71	1,459.39	1,225.30	1,172.59	52.70	23.249	
7,500.00	7,469.54	7,519.81	7,473.54	26.68	27.05	87.29	-175.71	1,459.39	1,225.30	1,171.91	53.39	22.950	
7,600.00	7,569.54	7,619.81	7,573.54	27.03	27.39	87.29	-175.71	1,459.39	1,225.30	1,171.22	54.08	22.658	
7,700.00	7,669.54	7,719.81	7,673.54	27.37	27.73	87.29	-175.71	1,459.39	1,225.30	1,170.53	54.77	22.373	
7,800.00	7,769.54	7,819.81	7,773.54	27.72	28.06	87.29	-175.71	1,459.39	1,225.30	1,169.84	55.46	22.095	
7,900.00	7,869.54	7,919.81	7,873.54	28.07	28.40	87.29	-175.71	1,459.39	1,225.30	1,169.15	56.15	21.823	
8,000.00	7,969.54	8,019.81	7,973.54	28.42	28.74	87.29	-175.71	1,459.39	1,225.30	1,168.46	56.84	21.558	
8,100.00	8,069.54	8,119.81	8,073.54	28.77	29.08	87.29	-175.71	1,459.39	1,225.30	1,167.77	57.53	21.299	
8,200.00	8,169.54	8,219.81	8,173.54	29.12	29.42	87.29	-175.71	1,459.39	1,225.30	1,167.08	58.22	21.046	
8,300.00	8,269.54	8,319.81	8,273.54	29.47	29.76	87.29	-175.71	1,459.39	1,225.30	1,166.39	58.91	20.799	
8,302.06	8,271.60	8,321.87	8,275.60	29.48	29.77	87.29	-175.71	1,459.39	1,225.30	1,166.37	58.93	20.794 CC	
8,400.00	8,369.54	8,411.59	8,365.32	29.82	30.07	87.27	-175.28	1,459.44	1,225.40	1,165.82	59.58	20.569 ES	
8,500.00	8,469.54	8,483.83	8,437.14	30.17	30.29	86.93	-167.99	1,460.36	1,227.20	1,167.06	60.14	20.406	
8,600.00	8,569.54	8,550.00	8,501.63	30.52	30.47	86.26	-153.50	1,462.19	1,231.45	1,170.83	60.62	20.313	
8,700.00	8,669.54	8,617.93	8,565.65	30.87	30.62	85.23	-131.05	1,465.03	1,238.55	1,177.51	61.04	20.292	
8,800.00	8,769.54	8,677.07	8,618.86	31.22	30.74	84.07	-105.51	1,468.25	1,249.05	1,187.72	61.33	20.367	
8,900.00	8,869.54	8,730.21	8,664.18	31.57	30.83	82.83	-78.03	1,471.73	1,263.49	1,202.00	61.49	20.549	
9,000.00	8,969.54	8,777.43	8,702.15	31.93	30.90	81.58	-50.20	1,475.24	1,282.33	1,220.84	61.49	20.855	
9,100.00	9,069.54	8,819.13	8,733.67	32.28	30.96	80.39	-23.12	1,478.66	1,305.91	1,244.58	61.33	21.293	
9,200.00	9,169.54	8,850.00	8,755.67	32.63	31.01	79.45	-1.64	1,481.38	1,334.45	1,273.49	60.96	21.890	
9,300.00	9,269.54	8,900.00	8,788.75	32.98	31.07	77.85	35.54	1,486.07	1,368.03	1,307.37	60.66	22.552	
9,400.00	9,369.54	8,916.73	8,799.07	33.33	31.09	77.30	48.60	1,487.72	1,406.36	1,346.40	59.96	23.455	
9,500.00	9,469.54	8,950.00	8,818.43	33.68	31.13	76.17	75.43	1,491.11	1,449.61	1,390.26	59.35	24.424	
9,600.00	9,569.54	8,950.00	8,818.43	34.04	31.13	76.17	75.43	1,491.11	1,497.46	1,439.11	58.35	25.662	
9,700.00	9,669.54	8,984.27	8,836.70	34.39	31.18	74.98	104.20	1,494.75	1,549.27	1,491.58	57.70	26.852	
9,800.00	9,769.54	9,000.00	8,844.50	34.74	31.20	74.43	117.75	1,496.46	1,605.22	1,548.37	56.84	28.239	
9,900.00	9,869.54	9,018.12	8,853.01	35.09	31.22	73.79	133.61	1,498.46	1,664.80	1,608.76	56.04	29.710	
10,000.00	9,969.54	9,032.55	8,859.43	35.45	31.24	73.27	146.44	1,500.08	1,727.71	1,672.49	55.22	31.288	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.00	10,069.54	9,050.00	8,866.74	35.80	31.26	72.65	162.16	1,502.07	1,793.69	1,739.21	54.48	32.926		
10,200.00	10,169.54	9,050.00	8,866.74	36.15	31.26	72.65	162.16	1,502.07	1,862.44	1,808.82	53.61	34.738		
10,300.00	10,269.54	9,068.32	8,873.91	36.51	31.29	71.99	178.88	1,504.18	1,933.60	1,880.62	52.99	36.493		
10,400.00	10,369.54	9,078.23	8,877.55	36.86	31.30	71.63	188.02	1,505.34	2,007.08	1,954.74	52.34	38.349		
10,500.00	10,469.54	9,100.00	8,885.01	37.21	31.33	70.85	208.32	1,507.90	2,082.76	2,030.90	51.85	40.167		
10,600.00	10,569.54	9,100.00	8,885.01	37.57	31.33	70.85	208.32	1,507.90	2,160.00	2,108.76	51.24	42.157		
10,700.00	10,669.54	9,100.00	8,885.01	37.92	31.33	70.85	208.32	1,507.90	2,239.04	2,188.36	50.68	44.178		
10,800.00	10,769.54	9,100.00	8,885.01	38.27	31.33	70.85	208.32	1,507.90	2,319.70	2,269.51	50.19	46.219		
10,900.00	10,869.54	9,100.00	8,885.01	38.63	31.33	70.85	208.32	1,507.90	2,401.81	2,352.06	49.76	48.273		
11,000.00	10,969.45	9,123.90	8,892.29	38.98	31.37	62.96	230.90	1,510.75	2,484.15	2,434.60	49.55	50.139		
11,100.00	11,067.64	9,150.00	8,899.15	39.30	31.41	51.33	255.88	1,513.91	2,563.99	2,514.65	49.34	51.964		
11,200.00	11,161.16	9,150.00	8,899.15	39.59	31.41	43.29	255.88	1,513.91	2,637.83	2,588.86	48.97	53.870		
11,300.00	11,247.17	9,150.00	8,899.15	39.83	31.41	37.47	255.88	1,513.91	2,704.58	2,655.95	48.63	55.618		
11,400.00	11,323.06	9,173.11	8,904.25	40.03	31.45	33.22	278.24	1,516.73	2,762.29	2,713.82	48.47	56.989		
11,500.00	11,386.52	9,200.00	8,909.05	40.18	31.49	30.29	304.49	1,520.05	2,809.94	2,761.56	48.39	58.074		
11,600.00	11,435.62	9,200.00	8,909.05	40.33	31.49	28.38	304.49	1,520.05	2,846.16	2,797.90	48.26	58.981		
11,700.00	11,468.88	9,224.12	8,912.29	40.54	31.53	27.22	328.20	1,523.04	2,870.41	2,822.07	48.34	59.383		
11,800.00	11,485.28	9,250.00	8,914.65	40.77	31.58	26.73	353.77	1,526.27	2,882.27	2,833.73	48.53	59.388		
11,900.00	11,486.77	9,250.00	8,914.65	41.03	31.58	26.68	353.77	1,526.27	2,883.59	2,834.80	48.78	59.111		
12,000.00	11,486.33	9,289.31	8,916.00	41.36	31.65	26.79	392.73	1,531.20	2,886.02	2,836.81	49.21	58.645		
12,100.00	11,485.90	9,326.67	8,916.00	41.74	31.74	26.88	429.80	1,535.88	2,890.95	2,841.24	49.71	58.160		
12,200.00	11,485.46	9,509.23	8,916.00	42.19	32.29	27.24	611.31	1,555.02	2,896.07	2,845.57	50.50	57.350		
12,300.00	11,485.02	9,701.54	8,916.00	42.70	33.14	27.33	803.54	1,558.36	2,896.32	2,844.95	51.37	56.379		
12,400.00	11,484.59	9,801.54	8,916.00	43.26	33.70	27.33	903.54	1,557.70	2,895.94	2,843.82	52.12	55.562		
12,500.00	11,484.15	9,901.54	8,916.00	43.88	34.33	27.34	1,003.53	1,557.04	2,895.55	2,842.61	52.94	54.696		
12,600.00	11,483.71	10,001.53	8,916.00	44.55	35.02	27.34	1,103.53	1,556.38	2,895.16	2,841.34	53.82	53.789		
12,700.00	11,483.27	10,101.53	8,916.00	45.27	35.78	27.35	1,203.53	1,555.72	2,894.77	2,840.00	54.77	52.850		
12,800.00	11,482.83	10,201.53	8,916.00	46.04	36.60	27.35	1,303.53	1,555.06	2,894.39	2,838.60	55.78	51.886		
12,900.00	11,482.39	10,301.53	8,916.00	46.85	37.47	27.35	1,403.52	1,554.40	2,894.00	2,837.15	56.85	50.908		
13,000.00	11,481.95	10,401.53	8,916.00	47.71	38.40	27.36	1,503.52	1,553.74	2,893.61	2,835.65	57.96	49.921		
13,100.00	11,481.52	10,501.53	8,916.00	48.61	39.37	27.36	1,603.52	1,553.08	2,893.22	2,834.09	59.13	48.929		
13,200.00	11,481.08	10,601.53	8,916.00	49.55	40.39	27.37	1,703.51	1,552.42	2,892.84	2,832.49	60.35	47.938		
13,300.00	11,480.64	10,701.53	8,916.00	50.52	41.45	27.37	1,803.51	1,551.76	2,892.45	2,830.84	61.60	46.952		
13,400.00	11,480.20	10,801.53	8,916.00	51.53	42.55	27.38	1,903.51	1,551.10	2,892.06	2,829.15	62.91	45.975		
13,500.00	11,479.75	10,901.53	8,916.00	52.57	43.68	27.38	2,003.50	1,550.44	2,891.67	2,827.43	64.24	45.012		
13,600.00	11,479.31	11,001.52	8,916.00	53.65	44.84	27.38	2,103.50	1,549.78	2,891.28	2,825.66	65.62	44.064		
13,700.00	11,478.87	11,101.52	8,916.00	54.75	46.04	27.39	2,203.50	1,549.12	2,890.89	2,823.87	67.02	43.133		
13,800.00	11,478.43	11,201.52	8,916.00	55.88	47.26	27.39	2,303.49	1,548.47	2,890.50	2,822.04	68.46	42.220		
13,900.00	11,477.99	11,301.52	8,916.00	57.03	48.51	27.40	2,403.49	1,547.81	2,890.11	2,820.18	69.93	41.327		
14,000.00	11,477.55	11,401.52	8,916.00	58.21	49.78	27.40	2,503.49	1,547.15	2,889.72	2,818.29	71.43	40.455		
14,100.00	11,477.11	11,501.52	8,916.00	59.41	51.08	27.40	2,603.48	1,546.49	2,889.33	2,816.38	72.95	39.605		
14,200.00	11,476.66	11,601.52	8,916.00	60.64	52.39	27.41	2,703.48	1,545.83	2,888.94	2,814.44	74.50	38.778		
14,300.00	11,476.22	11,701.52	8,916.00	61.88	53.73	27.41	2,803.48	1,545.17	2,888.55	2,812.48	76.07	37.972		
14,400.00	11,475.78	11,801.52	8,916.00	63.14	55.08	27.42	2,903.47	1,544.51	2,888.16	2,810.50	77.66	37.189		
14,500.00	11,475.34	11,901.52	8,916.00	64.42	56.45	27.42	3,003.47	1,543.85	2,887.77	2,808.50	79.27	36.429		
14,600.00	11,474.89	12,001.51	8,916.00	65.72	57.83	27.42	3,103.47	1,543.19	2,887.38	2,806.48	80.90	35.691		
14,700.00	11,474.45	12,101.51	8,916.00	67.03	59.23	27.43	3,203.47	1,542.53	2,886.99	2,804.44	82.55	34.974		
14,800.00	11,474.00	12,201.51	8,916.00	68.36	60.64	27.43	3,303.46	1,541.87	2,886.60	2,802.39	84.21	34.278		
14,900.00	11,473.56	12,301.51	8,916.00	69.70	62.06	27.44	3,403.46	1,541.21	2,886.21	2,800.32	85.89	33.603		
15,000.00	11,473.12	12,401.51	8,916.00	71.06	63.49	27.44	3,503.46	1,540.55	2,885.82	2,798.23	87.59	32.948		
15,100.00	11,472.67	12,501.51	8,916.00	72.43	64.94	27.45	3,603.45	1,539.89	2,885.43	2,796.13	89.29	32.314		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:						Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,200.00	11,472.23	12,601.51	8,916.00	73.81	66.39	27.45	3,703.45	1,539.23	2,885.03	2,794.02	91.02	31.698		
15,300.00	11,471.78	12,701.51	8,916.00	75.20	67.86	27.45	3,803.45	1,538.57	2,884.64	2,791.90	92.75	31.102		
15,400.00	11,471.34	12,801.51	8,916.00	76.60	69.33	27.46	3,903.44	1,537.92	2,884.25	2,789.76	94.49	30.524		
15,500.00	11,470.89	12,901.51	8,916.00	78.01	70.81	27.46	4,003.44	1,537.26	2,883.86	2,787.61	96.24	29.964		
15,600.00	11,470.44	13,001.50	8,916.00	79.43	72.30	27.47	4,103.44	1,536.60	2,883.47	2,785.46	98.01	29.421		
15,700.00	11,470.00	13,101.50	8,916.00	80.86	73.79	27.47	4,203.43	1,535.94	2,883.07	2,783.29	99.78	28.893		
15,800.00	11,469.55	13,201.50	8,916.00	82.30	75.29	27.48	4,303.43	1,535.28	2,882.68	2,781.11	101.57	28.382		
15,900.00	11,469.10	13,301.50	8,916.00	83.74	76.80	27.48	4,403.43	1,534.62	2,882.29	2,778.93	103.36	27.885		
16,000.00	11,468.66	13,401.50	8,916.00	85.20	78.32	27.48	4,503.42	1,533.96	2,881.90	2,776.73	105.16	27.404		
16,100.00	11,468.21	13,501.50	8,916.00	86.66	79.83	27.49	4,603.42	1,533.30	2,881.50	2,774.53	106.97	26.938		
16,200.00	11,467.76	13,601.50	8,916.00	88.13	81.36	27.49	4,703.42	1,532.64	2,881.11	2,772.33	108.78	26.485		
16,300.00	11,467.32	13,701.50	8,916.00	89.60	82.89	27.50	4,803.41	1,531.98	2,880.72	2,770.11	110.60	26.045		
16,400.00	11,466.87	13,801.50	8,916.00	91.08	84.43	27.50	4,903.41	1,531.32	2,880.32	2,767.89	112.43	25.618		
16,500.00	11,466.42	13,901.50	8,916.00	92.57	85.96	27.50	5,003.41	1,530.66	2,879.93	2,765.66	114.27	25.204		
16,600.00	11,465.97	14,001.49	8,916.00	94.06	87.51	27.51	5,103.41	1,530.00	2,879.53	2,763.43	116.11	24.800		
16,700.00	11,465.52	14,101.49	8,916.00	95.56	89.06	27.51	5,203.40	1,529.34	2,879.14	2,761.18	117.96	24.409		
16,800.00	11,465.07	14,201.49	8,916.00	97.06	90.61	27.52	5,303.40	1,528.68	2,878.74	2,758.94	119.81	24.028		
16,900.00	11,464.62	14,301.49	8,916.00	98.57	92.16	27.52	5,403.40	1,528.02	2,878.35	2,756.69	121.66	23.658		
17,000.00	11,464.17	14,401.49	8,916.00	100.08	93.72	27.53	5,503.39	1,527.37	2,877.96	2,754.43	123.52	23.299		
17,100.00	11,463.72	14,501.49	8,916.00	101.60	95.28	27.53	5,603.39	1,526.71	2,877.56	2,752.18	125.38	22.950		
17,200.00	11,463.27	14,601.49	8,916.00	103.12	96.85	27.53	5,703.39	1,526.05	2,877.17	2,749.91	127.25	22.610		
17,300.00	11,462.82	14,701.49	8,916.00	104.65	98.42	27.54	5,803.38	1,525.39	2,876.77	2,747.64	129.13	22.279		
17,400.00	11,462.37	14,801.49	8,916.00	106.18	99.99	27.54	5,903.38	1,524.73	2,876.37	2,745.37	131.01	21.956		
17,500.00	11,461.92	14,901.49	8,916.00	107.71	101.56	27.55	6,003.38	1,524.07	2,875.98	2,743.09	132.89	21.642		
17,600.00	11,461.47	15,001.48	8,916.00	109.25	103.14	27.55	6,103.37	1,523.41	2,875.58	2,740.81	134.77	21.336		
17,700.00	11,461.02	15,101.48	8,916.00	110.79	104.72	27.56	6,203.37	1,522.75	2,875.19	2,738.53	136.66	21.039		
17,800.00	11,460.57	15,201.48	8,916.00	112.33	106.30	27.56	6,303.37	1,522.09	2,874.79	2,736.24	138.55	20.749		
17,900.00	11,460.12	15,301.48	8,916.00	113.88	107.88	27.57	6,403.36	1,521.43	2,874.40	2,733.95	140.44	20.467		
18,000.00	11,459.66	15,401.48	8,916.00	115.43	109.47	27.57	6,503.36	1,520.77	2,874.00	2,731.66	142.34	20.192		
18,100.00	11,459.21	15,501.48	8,916.00	116.98	111.05	27.57	6,603.36	1,520.11	2,873.60	2,729.37	144.24	19.923		
18,200.00	11,458.76	15,601.48	8,916.00	118.54	112.64	27.58	6,703.35	1,519.45	2,873.21	2,727.07	146.14	19.661		
18,300.00	11,458.31	15,701.48	8,916.00	120.09	114.24	27.58	6,803.35	1,518.79	2,872.81	2,724.76	148.05	19.405		
18,400.00	11,457.85	15,801.48	8,916.00	121.66	115.83	27.59	6,903.35	1,518.13	2,872.41	2,722.46	149.95	19.155		
18,500.00	11,457.40	15,901.48	8,916.00	123.22	117.42	27.59	7,003.34	1,517.48	2,872.01	2,720.15	151.86	18.912		
18,600.00	11,456.95	16,001.47	8,916.00	124.78	119.02	27.60	7,103.34	1,516.82	2,871.62	2,717.85	153.77	18.675		
18,700.00	11,456.49	16,101.47	8,916.00	126.35	120.62	27.60	7,203.34	1,516.16	2,871.22	2,715.54	155.68	18.443		
18,800.00	11,456.04	16,201.47	8,916.00	127.92	122.22	27.60	7,303.33	1,515.50	2,870.82	2,713.23	157.59	18.217		
18,900.00	11,455.58	16,301.47	8,916.00	129.50	123.82	27.61	7,403.33	1,514.84	2,870.42	2,710.91	159.51	17.995		
19,000.00	11,455.13	16,401.47	8,916.00	131.07	125.42	27.61	7,503.33	1,514.18	2,870.02	2,708.59	161.43	17.779		
19,100.00	11,454.67	16,501.47	8,916.00	132.65	127.03	27.62	7,603.33	1,513.52	2,869.63	2,706.27	163.35	17.567		
19,200.00	11,454.22	16,601.47	8,916.00	134.22	128.63	27.62	7,703.32	1,512.86	2,869.23	2,703.95	165.27	17.360		
19,300.00	11,453.76	16,701.47	8,916.00	135.80	130.24	27.63	7,803.32	1,512.20	2,868.83	2,701.63	167.20	17.159		
19,400.00	11,453.31	16,801.47	8,916.00	137.39	131.85	27.63	7,903.32	1,511.54	2,868.43	2,699.31	169.12	16.961		
19,500.00	11,452.85	16,901.47	8,916.00	138.97	133.46	27.64	8,003.31	1,510.88	2,868.03	2,696.99	171.04	16.768		
19,600.00	11,452.39	17,001.46	8,916.00	140.56	135.07	27.64	8,103.31	1,510.22	2,867.63	2,694.66	172.97	16.579		
19,700.00	11,451.94	17,101.46	8,916.00	142.14	136.68	27.64	8,203.31	1,509.56	2,867.23	2,692.34	174.90	16.394		
19,800.00	11,451.48	17,201.46	8,916.00	143.73	138.29	27.65	8,303.30	1,508.90	2,866.83	2,690.01	176.83	16.213		
19,900.00	11,451.02	17,301.46	8,916.00	145.32	139.90	27.65	8,403.30	1,508.24	2,866.43	2,687.67	178.76	16.035		
20,000.00	11,450.57	17,401.46	8,916.00	146.91	141.52	27.66	8,503.30	1,507.58	2,866.03	2,685.34	180.69	15.861		
20,100.00	11,450.11	17,501.46	8,916.00	148.51	143.13	27.66	8,603.29	1,506.93	2,865.63	2,683.01	182.62	15.692		
20,200.00	11,449.65	17,601.46	8,916.00	150.10	144.75	27.67	8,703.29	1,506.27	2,865.23	2,680.68	184.55	15.525		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,300.00	11,449.19	17,701.46	8,916.00	151.70	146.37	27.67	8,803.29	1,505.61	2,864.83	2,678.35	186.49	15.362	
20,400.00	11,448.73	17,801.46	8,916.00	153.29	147.99	27.68	8,903.28	1,504.95	2,864.43	2,676.01	188.42	15.202	
20,500.00	11,448.27	17,901.45	8,916.00	154.89	149.61	27.68	9,003.28	1,504.29	2,864.03	2,673.68	190.36	15.046	
20,600.00	11,447.82	18,001.45	8,916.00	156.49	151.23	27.68	9,103.28	1,503.63	2,863.63	2,671.34	192.29	14.892	
20,700.00	11,447.36	18,101.45	8,916.00	158.09	152.85	27.69	9,203.27	1,502.97	2,863.23	2,669.00	194.23	14.741	
20,800.00	11,446.90	18,201.45	8,916.00	159.70	154.47	27.69	9,303.27	1,502.31	2,862.83	2,666.66	196.17	14.593	
20,900.00	11,446.44	18,301.45	8,916.00	161.30	156.09	27.70	9,403.27	1,501.65	2,862.43	2,664.32	198.11	14.449	
21,000.00	11,445.98	18,401.45	8,916.00	162.90	157.71	27.70	9,503.26	1,500.99	2,862.03	2,661.98	200.05	14.307	
21,100.00	11,445.52	18,501.45	8,916.00	164.51	159.34	27.71	9,603.26	1,500.33	2,861.62	2,659.64	201.98	14.168	
21,200.00	11,445.06	18,601.45	8,916.00	166.11	160.96	27.71	9,703.26	1,499.67	2,861.22	2,657.30	203.92	14.031	
21,300.00	11,444.60	18,701.45	8,916.00	167.72	162.58	27.72	9,803.25	1,499.01	2,860.82	2,654.96	205.86	13.897	
21,400.00	11,444.14	18,801.45	8,916.00	169.33	164.21	27.72	9,903.25	1,498.35	2,860.42	2,652.61	207.81	13.765	
21,500.00	11,443.67	18,901.44	8,916.00	170.94	165.84	27.72	10,003.25	1,497.69	2,860.02	2,650.26	209.75	13.635	
21,600.00	11,443.21	19,001.44	8,916.00	172.55	167.46	27.73	10,103.24	1,497.03	2,859.61	2,647.92	211.69	13.508	
21,700.00	11,442.75	19,101.44	8,916.00	174.16	169.09	27.73	10,203.24	1,496.38	2,859.21	2,645.58	213.63	13.384	
21,800.00	11,442.29	19,201.44	8,916.00	175.77	170.72	27.74	10,303.24	1,495.72	2,858.81	2,643.23	215.57	13.261	
21,862.35	11,442.00	19,261.87	8,916.00	176.77	171.70	27.74	10,363.67	1,495.32	2,858.56	2,641.78	216.77	13.187 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD				Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.00 usft	
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Highside									Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	4.00	4.00	0.00	0.01	78.69	298.81	1,493.73	1,523.33						
100.00	100.00	104.00	104.00	0.13	0.15	78.69	298.81	1,493.73	1,523.33	1,523.04	0.28	5,379.110			
200.00	200.00	204.00	204.00	0.49	0.51	78.69	298.81	1,493.73	1,523.33	1,522.33	1.00	1,523.119			
300.00	300.00	304.00	304.00	0.85	0.87	78.69	298.81	1,493.73	1,523.33	1,521.61	1.72	887.161			
400.00	400.00	404.00	404.00	1.21	1.22	78.69	298.81	1,493.73	1,523.33	1,520.89	2.43	625.847			
500.00	500.00	504.00	504.00	1.57	1.58	78.69	298.81	1,493.73	1,523.33	1,520.17	3.15	483.447			
600.00	600.00	604.00	604.00	1.93	1.94	78.69	298.81	1,493.73	1,523.33	1,519.46	3.87	393.837			
700.00	700.00	704.00	704.00	2.29	2.30	78.69	298.81	1,493.73	1,523.33	1,518.74	4.58	332.252			
800.00	800.00	804.00	804.00	2.64	2.66	78.69	298.81	1,493.73	1,523.33	1,518.02	5.30	287.323			
900.00	900.00	904.00	904.00	3.00	3.02	78.69	298.81	1,493.73	1,523.33	1,517.31	6.02	253.097			
1,000.00	1,000.00	1,004.00	1,004.00	3.36	3.38	78.69	298.81	1,493.73	1,523.33	1,516.59	6.74	226.158			
1,100.00	1,100.00	1,104.00	1,104.00	3.72	3.73	78.69	298.81	1,493.73	1,523.33	1,515.87	7.45	204.401			
1,200.00	1,200.00	1,204.00	1,204.00	4.08	4.09	78.69	298.81	1,493.73	1,523.33	1,515.16	8.17	186.463			
1,300.00	1,300.00	1,304.00	1,304.00	4.44	4.45	78.69	298.81	1,493.73	1,523.33	1,514.44	8.89	171.420			
1,400.00	1,400.00	1,404.00	1,404.00	4.79	4.81	78.69	298.81	1,493.73	1,523.33	1,513.72	9.60	158.623			
1,500.00	1,500.00	1,504.00	1,504.00	5.15	5.17	78.69	298.81	1,493.73	1,523.33	1,513.01	10.32	147.603			
1,600.00	1,600.00	1,604.00	1,604.00	5.51	5.53	78.69	298.81	1,493.73	1,523.33	1,512.29	11.04	138.016			
1,700.00	1,700.00	1,704.00	1,704.00	5.87	5.88	78.69	298.81	1,493.73	1,523.33	1,511.57	11.75	129.598			
1,800.00	1,800.00	1,804.00	1,804.00	6.23	6.24	78.69	298.81	1,493.73	1,523.33	1,510.85	12.47	122.147			
1,900.00	1,900.00	1,904.00	1,904.00	6.59	6.60	78.69	298.81	1,493.73	1,523.33	1,510.14	13.19	115.507			
2,000.00	2,000.00	2,004.00	2,004.00	6.95	6.96	78.69	298.81	1,493.73	1,523.33	1,509.42	13.91	109.552			
2,100.00	2,099.98	2,103.98	2,103.98	7.29	7.32	-56.16	298.81	1,493.73	1,522.35	1,507.75	14.61	104.226			
2,200.00	2,199.84	2,203.84	2,203.84	7.62	7.68	-56.37	298.81	1,493.73	1,519.44	1,504.15	15.29	99.350			
2,300.00	2,299.45	2,303.45	2,303.45	7.95	8.03	-56.73	298.81	1,493.73	1,514.63	1,498.64	15.98	94.759			
2,400.00	2,398.70	2,405.09	2,405.09	8.30	8.40	-57.24	298.81	1,493.73	1,507.95	1,491.26	16.69	90.375			
2,500.00	2,497.47	2,590.74	2,590.60	8.65	9.02	-58.27	294.81	1,488.80	1,496.46	1,478.83	17.63	84.889			
2,600.00	2,595.62	2,773.19	2,772.13	9.01	9.64	-59.46	283.51	1,474.89	1,477.59	1,459.09	18.51	79.839			
2,700.00	2,693.44	2,951.49	2,948.09	9.39	10.26	-60.27	265.44	1,452.66	1,452.47	1,433.13	19.33	75.126			
2,800.00	2,791.25	3,068.89	3,063.01	9.77	10.69	-60.73	250.30	1,434.03	1,423.47	1,403.42	20.05	71.000			
2,900.00	2,889.07	3,164.11	3,156.14	10.17	11.05	-61.12	237.82	1,418.66	1,394.33	1,373.59	20.75	67.212			
3,000.00	2,986.88	3,259.32	3,249.28	10.57	11.42	-61.53	225.34	1,403.30	1,365.25	1,343.80	21.45	63.640			
3,100.00	3,084.70	3,354.54	3,342.41	10.99	11.79	-61.95	212.85	1,387.94	1,336.24	1,314.07	22.17	60.271			
3,200.00	3,182.51	3,449.75	3,435.55	11.41	12.17	-62.39	200.37	1,372.57	1,307.30	1,284.40	22.90	57.093			
3,300.00	3,280.33	3,544.97	3,528.68	11.83	12.56	-62.86	187.89	1,357.21	1,278.44	1,254.80	23.63	54.095			
3,400.00	3,378.14	3,640.18	3,621.82	12.26	12.95	-63.34	175.40	1,341.84	1,249.65	1,225.27	24.38	51.265			
3,500.00	3,475.96	3,735.40	3,714.95	12.69	13.35	-63.85	162.92	1,326.48	1,220.95	1,195.82	25.13	48.591			
3,600.00	3,573.77	3,830.62	3,808.09	13.13	13.75	-64.34	150.44	1,311.11	1,192.35	1,166.46	25.88	46.065			
3,700.00	3,671.97	3,926.26	3,901.64	13.57	14.16	-64.28	137.90	1,295.68	1,164.65	1,138.01	26.64	43.719			
3,800.00	3,770.78	4,022.56	3,995.83	13.98	14.57	-64.12	125.27	1,280.14	1,138.47	1,111.09	27.39	41.569			
3,900.00	3,870.05	4,119.40	4,090.56	14.38	15.00	-63.84	112.57	1,264.52	1,113.79	1,085.66	28.12	39.602			
4,000.00	3,969.69	4,216.67	4,185.70	14.75	15.42	-63.42	99.82	1,248.82	1,090.60	1,061.75	28.85	37.802			
4,100.00	4,069.56	4,314.25	4,281.15	15.11	15.85	-62.87	87.03	1,233.07	1,068.94	1,039.38	29.56	36.157			
4,200.00	4,169.54	4,412.01	4,376.78	15.44	16.29	72.59	74.21	1,217.30	1,048.85	1,018.59	30.26	34.659			
4,300.00	4,269.54	4,509.83	4,472.45	15.77	16.73	73.02	61.39	1,201.52	1,029.50	998.55	30.96	33.256			
4,400.00	4,369.54	4,607.64	4,568.13	16.10	17.17	73.46	48.56	1,185.73	1,010.21	978.55	31.66	31.912			
4,500.00	4,469.54	4,705.45	4,663.81	16.43	17.61	73.92	35.74	1,169.95	990.98	958.62	32.36	30.624			
4,600.00	4,569.54	4,803.27	4,759.49	16.76	18.05	74.40	22.91	1,154.16	971.81	938.75	33.07	29.390			
4,700.00	4,669.54	4,901.08	4,855.16	17.09	18.50	74.89	10.09	1,138.38	952.71	918.94	33.78	28.206			
4,800.00	4,769.54	4,998.90	4,950.84	17.43	18.95	75.41	-2.74	1,122.60	933.69	899.20	34.49	27.071			
4,900.00	4,869.54	5,096.71	5,046.52	17.76	19.40	75.95	-15.56	1,106.81	914.74	879.53	35.21	25.981			
5,000.00	4,969.54	5,194.53	5,142.20	18.10	19.85	76.51	-28.38	1,091.03	895.87	859.94	35.93	24.934			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
5,100.00	5,069.54	5,292.34	5,237.87	18.43	20.30	77.09	-41.21	1,075.25	877.09	840.43	36.66	23.928	
5,200.00	5,169.54	5,390.16	5,333.55	18.77	20.76	77.70	-54.03	1,059.46	858.40	821.01	37.38	22.961	
5,300.00	5,269.54	5,487.97	5,429.23	19.11	21.21	78.34	-66.86	1,043.68	839.81	801.69	38.12	22.031	
5,400.00	5,369.54	5,585.79	5,524.90	19.45	21.67	79.00	-79.68	1,027.90	821.32	782.47	38.86	21.138	
5,500.00	5,469.54	5,683.60	5,620.58	19.79	22.13	79.70	-92.51	1,012.11	802.95	763.35	39.60	20.278	
5,600.00	5,569.54	5,781.42	5,716.26	20.13	22.59	80.43	-105.33	996.33	784.70	744.36	40.34	19.450	
5,700.00	5,669.54	5,879.23	5,811.94	20.47	23.05	81.19	-118.16	980.54	766.58	725.48	41.10	18.653	
5,800.00	5,769.54	5,977.05	5,907.61	20.81	23.51	81.99	-130.98	964.76	748.60	706.74	41.85	17.886	
5,900.00	5,869.54	6,070.16	5,998.71	21.15	23.94	82.78	-143.14	949.80	730.85	688.22	42.63	17.144	
6,000.00	5,969.54	6,151.05	6,078.17	21.49	24.31	83.42	-152.66	938.08	714.97	671.54	43.43	16.462	
6,100.00	6,069.54	6,232.74	6,158.83	21.83	24.67	84.00	-160.84	928.01	701.57	657.37	44.21	15.871	
6,200.00	6,169.54	6,315.12	6,240.50	22.18	25.01	84.49	-167.61	919.68	690.65	645.70	44.95	15.364	
6,300.00	6,269.54	6,400.00	6,324.94	22.52	25.34	84.89	-173.04	913.00	682.18	636.51	45.67	14.936	
6,400.00	6,369.54	6,481.43	6,406.15	22.87	25.64	85.17	-176.76	908.41	676.14	629.79	46.35	14.586	
6,500.00	6,469.54	6,565.07	6,489.71	23.21	25.93	85.34	-179.07	905.58	672.53	625.53	47.00	14.308	
6,600.00	6,569.54	6,648.91	6,573.54	23.56	26.20	85.40	-179.84	904.63	671.33	623.72	47.62	14.099	
6,700.00	6,669.54	6,748.91	6,673.54	23.90	26.50	85.40	-179.84	904.63	671.33	623.05	48.29	13.903	
6,800.00	6,769.54	6,848.91	6,773.54	24.25	26.81	85.40	-179.84	904.63	671.33	622.37	48.96	13.713	
6,900.00	6,869.54	6,948.91	6,873.54	24.59	27.11	85.40	-179.84	904.63	671.33	621.70	49.63	13.527	
7,000.00	6,969.54	7,048.91	6,973.54	24.94	27.42	85.40	-179.84	904.63	671.33	621.03	50.30	13.346	
7,100.00	7,069.54	7,148.91	7,073.54	25.29	27.73	85.40	-179.84	904.63	671.33	620.35	50.98	13.169	
7,200.00	7,169.54	7,248.91	7,173.54	25.63	28.04	85.40	-179.84	904.63	671.33	619.68	51.65	12.997	
7,300.00	7,269.54	7,348.91	7,273.54	25.98	28.35	85.40	-179.84	904.63	671.33	619.00	52.33	12.829	
7,400.00	7,369.54	7,448.91	7,373.54	26.33	28.66	85.40	-179.84	904.63	671.33	618.32	53.01	12.664	
7,500.00	7,469.54	7,548.91	7,473.54	26.68	28.97	85.40	-179.84	904.63	671.33	617.64	53.69	12.504	
7,600.00	7,569.54	7,648.91	7,573.54	27.03	29.29	85.40	-179.84	904.63	671.33	616.96	54.37	12.348	
7,700.00	7,669.54	7,748.91	7,673.54	27.37	29.60	85.40	-179.84	904.63	671.33	616.28	55.05	12.195	
7,800.00	7,769.54	7,848.91	7,773.54	27.72	29.92	85.40	-179.84	904.63	671.33	615.60	55.73	12.046	
7,900.00	7,869.54	7,948.91	7,873.54	28.07	30.24	85.40	-179.84	904.63	671.33	614.92	56.41	11.900	
8,000.00	7,969.54	8,048.91	7,973.54	28.42	30.55	85.40	-179.84	904.63	671.33	614.23	57.10	11.758	
8,100.00	8,069.54	8,148.91	8,073.54	28.77	30.87	85.40	-179.84	904.63	671.33	613.55	57.78	11.618	
8,200.00	8,169.54	8,248.91	8,173.54	29.12	31.19	85.40	-179.84	904.63	671.33	612.86	58.47	11.482	
8,300.00	8,269.54	8,348.91	8,273.54	29.47	31.51	85.40	-179.84	904.63	671.33	612.18	59.15	11.349	
8,302.18	8,271.72	8,351.09	8,275.72	29.48	31.52	85.40	-179.84	904.63	671.33	612.16	59.17	11.346 CC	
8,400.00	8,369.54	8,446.47	8,371.09	29.82	31.82	85.34	-179.15	904.63	671.39	611.56	59.82	11.223 ES	
8,500.00	8,469.54	8,536.84	8,460.63	30.17	32.08	84.37	-167.64	904.55	672.46	612.08	60.38	11.137	
8,600.00	8,569.54	8,621.65	8,542.04	30.52	32.27	82.38	-144.17	904.39	675.63	614.82	60.81	11.110 SF	
8,700.00	8,669.54	8,700.00	8,613.43	30.87	32.41	79.69	-112.02	904.18	682.34	621.28	61.06	11.174	
8,800.00	8,769.54	8,765.15	8,669.00	31.22	32.50	76.90	-78.08	903.96	694.27	633.27	61.01	11.381	
8,900.00	8,869.54	8,822.87	8,714.73	31.57	32.55	74.07	-42.91	903.72	712.86	652.26	60.61	11.762	
9,000.00	8,969.54	8,872.15	8,750.82	31.93	32.58	71.44	-9.37	903.50	739.04	679.23	59.82	12.355	
9,100.00	9,069.54	8,914.13	8,779.18	32.28	32.59	69.09	21.55	903.30	773.16	714.49	58.67	13.178	
9,200.00	9,169.54	8,950.00	8,801.58	32.63	32.60	67.01	49.57	903.11	815.06	757.81	57.26	14.235	
9,300.00	9,269.54	8,980.66	8,819.30	32.98	32.59	65.21	74.59	902.94	864.22	808.54	55.69	15.519	
9,400.00	9,369.54	9,000.00	8,829.78	33.33	32.59	64.07	90.84	902.84	919.98	866.06	53.93	17.060	
9,500.00	9,469.54	9,030.09	8,844.97	33.68	32.58	62.29	116.81	902.66	981.37	928.87	52.50	18.693	
9,600.00	9,569.54	9,050.00	8,854.27	34.04	32.57	61.11	134.41	902.55	1,047.77	996.75	51.02	20.536	
9,700.00	9,669.54	9,067.74	8,862.03	34.39	32.56	60.07	150.36	902.44	1,118.43	1,068.75	49.68	22.514	
9,800.00	9,769.54	9,083.30	8,868.43	34.74	32.55	59.16	164.54	902.35	1,192.69	1,144.22	48.47	24.605	
9,900.00	9,869.54	9,100.00	8,874.87	35.09	32.55	58.19	179.95	902.24	1,270.04	1,222.58	47.47	26.757	
10,000.00	9,969.54	9,100.00	8,874.87	35.45	32.55	58.19	179.95	902.24	1,350.09	1,303.74	46.36	29.125	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.00	10,069.54	9,120.61	8,882.19	35.80	32.53	57.00	199.22	902.12	1,432.17	1,386.45	45.72	31.323		
10,200.00	10,169.54	9,130.64	8,885.50	36.15	32.52	56.43	208.69	902.05	1,516.26	1,471.20	45.07	33.646		
10,300.00	10,269.54	9,150.00	8,891.42	36.51	32.51	55.34	227.11	901.93	1,602.10	1,557.45	44.65	35.882		
10,400.00	10,369.54	9,150.00	8,891.42	36.86	32.51	55.34	227.11	901.93	1,689.13	1,645.04	44.09	38.311		
10,500.00	10,469.54	9,150.00	8,891.42	37.21	32.51	55.34	227.11	901.93	1,777.52	1,733.88	43.64	40.734		
10,600.00	10,569.54	9,150.00	8,891.42	37.57	32.51	55.34	227.11	901.93	1,867.09	1,823.80	43.28	43.139		
10,700.00	10,669.54	9,150.00	8,891.42	37.92	32.51	55.34	227.11	901.93	1,957.66	1,914.66	43.00	45.522		
10,800.00	10,769.54	9,174.79	8,898.09	38.27	32.49	53.97	250.99	901.77	2,048.45	2,005.42	43.03	47.600		
10,900.00	10,869.54	9,180.25	8,899.42	38.63	32.48	53.67	256.28	901.74	2,140.35	2,097.42	42.93	49.855		
11,000.00	10,969.45	9,200.00	8,903.81	38.98	32.47	43.73	275.54	901.61	2,232.44	2,189.45	42.98	51.937		
11,100.00	11,067.64	9,200.00	8,903.81	39.30	32.47	32.59	275.54	901.61	2,319.87	2,277.06	42.81	54.187		
11,200.00	11,161.16	9,200.00	8,903.81	39.59	32.47	25.88	275.54	901.61	2,400.69	2,358.08	42.61	56.340		
11,300.00	11,247.17	9,200.00	8,903.81	39.83	32.47	21.63	275.54	901.61	2,473.20	2,430.80	42.41	58.322		
11,400.00	11,323.06	9,250.00	8,911.92	40.03	32.42	18.58	324.86	901.28	2,535.22	2,492.73	42.49	59.661		
11,500.00	11,386.52	9,250.00	8,911.92	40.18	32.42	16.81	324.86	901.28	2,585.51	2,543.20	42.31	61.110		
11,600.00	11,435.62	9,250.00	8,911.92	40.33	32.42	15.64	324.86	901.28	2,623.96	2,581.76	42.20	62.172		
11,700.00	11,468.88	9,300.00	8,915.70	40.54	32.37	14.88	374.70	900.95	2,649.09	2,606.75	42.34	62.569		
11,800.00	11,485.28	9,300.00	8,915.70	40.77	32.37	14.59	374.70	900.95	2,660.31	2,617.89	42.41	62.723		
11,900.00	11,486.77	9,319.58	8,916.00	41.03	32.35	14.58	394.28	900.82	2,660.40	2,617.76	42.64	62.385		
12,000.00	11,486.33	9,419.58	8,915.80	41.36	32.27	14.58	494.27	900.16	2,660.16	2,617.14	43.03	61.826		
12,100.00	11,485.90	9,519.57	8,915.61	41.74	32.47	14.58	594.26	899.50	2,659.93	2,616.45	43.47	61.185		
12,200.00	11,485.46	9,619.57	8,915.42	42.19	32.92	14.58	694.26	898.83	2,659.69	2,615.71	43.99	60.467		
12,300.00	11,485.02	9,719.56	8,915.23	42.70	33.44	14.58	794.25	898.17	2,659.45	2,614.89	44.56	59.679		
12,400.00	11,484.59	9,819.56	8,915.03	43.26	34.02	14.58	894.24	897.51	2,659.22	2,614.02	45.20	58.833		
12,500.00	11,484.15	9,919.55	8,914.84	43.88	34.66	14.58	994.23	896.85	2,658.98	2,613.09	45.89	57.937		
12,600.00	11,483.71	10,019.55	8,914.65	44.55	35.36	14.59	1,094.23	896.18	2,658.74	2,612.10	46.64	57.001		
12,700.00	11,483.27	10,119.54	8,914.46	45.27	36.13	14.59	1,194.22	895.52	2,658.51	2,611.06	47.45	56.032		
12,800.00	11,482.83	10,219.53	8,914.26	46.04	36.95	14.59	1,294.21	894.86	2,658.27	2,609.97	48.30	55.040		
12,900.00	11,482.39	10,319.53	8,914.07	46.85	37.82	14.59	1,394.20	894.20	2,658.03	2,608.84	49.20	54.031		
13,000.00	11,481.95	10,419.52	8,913.87	47.71	38.74	14.59	1,494.19	893.53	2,657.80	2,607.66	50.14	53.012		
13,100.00	11,481.52	10,519.52	8,913.68	48.61	39.70	14.59	1,594.19	892.87	2,657.56	2,606.44	51.12	51.991		
13,200.00	11,481.08	10,619.51	8,913.49	49.55	40.71	14.59	1,694.18	892.21	2,657.32	2,605.19	52.14	50.969		
13,300.00	11,480.64	10,719.51	8,913.29	50.52	41.76	14.59	1,794.17	891.55	2,657.09	2,603.89	53.19	49.953		
13,400.00	11,480.20	10,819.50	8,913.10	51.53	42.84	14.60	1,894.16	890.89	2,656.85	2,602.57	54.28	48.946		
13,500.00	11,479.75	10,919.50	8,912.90	52.57	43.97	14.60	1,994.15	890.23	2,656.61	2,601.21	55.41	47.949		
13,600.00	11,479.31	11,019.49	8,912.71	53.65	45.12	14.60	2,094.15	889.57	2,656.37	2,599.82	56.56	46.967		
13,700.00	11,478.87	11,119.49	8,912.51	54.75	46.30	14.60	2,194.14	888.90	2,656.14	2,598.40	57.74	46.001		
13,800.00	11,478.43	11,219.48	8,912.32	55.88	47.51	14.60	2,294.13	888.24	2,655.90	2,596.95	58.95	45.056		
13,900.00	11,477.99	11,319.47	8,912.12	57.03	48.75	14.60	2,394.12	887.58	2,655.66	2,595.49	60.18	44.131		
14,000.00	11,477.55	11,419.47	8,911.93	58.21	50.01	14.60	2,494.11	886.92	2,655.43	2,593.99	61.43	43.226		
14,100.00	11,477.11	11,519.46	8,911.73	59.41	51.29	14.61	2,594.11	886.26	2,655.19	2,592.48	62.71	42.343		
14,200.00	11,476.66	11,619.46	8,911.54	60.64	52.60	14.61	2,694.10	885.60	2,654.95	2,590.95	64.00	41.481		
14,300.00	11,476.22	11,719.45	8,911.34	61.88	53.92	14.61	2,794.09	884.94	2,654.71	2,589.40	65.32	40.642		
14,400.00	11,475.78	11,819.45	8,911.14	63.14	55.26	14.61	2,894.08	884.28	2,654.48	2,587.82	66.65	39.825		
14,500.00	11,475.34	11,919.44	8,910.95	64.42	56.61	14.61	2,994.08	883.62	2,654.24	2,586.24	68.00	39.032		
14,600.00	11,474.89	12,019.44	8,910.75	65.72	57.99	14.61	3,094.07	882.96	2,654.00	2,584.64	69.37	38.260		
14,700.00	11,474.45	12,119.43	8,910.55	67.03	59.37	14.61	3,194.06	882.30	2,653.76	2,583.02	70.75	37.510		
14,800.00	11,474.00	12,219.42	8,910.36	68.36	60.77	14.62	3,294.05	881.64	2,653.53	2,581.38	72.14	36.782		
14,900.00	11,473.56	12,319.42	8,910.16	69.70	62.18	14.62	3,394.04	880.98	2,653.29	2,579.74	73.55	36.074		
15,000.00	11,473.12	12,419.41	8,909.96	71.06	63.61	14.62	3,494.04	880.32	2,653.05	2,578.08	74.97	35.387		
15,100.00	11,472.67	12,519.41	8,909.76	72.43	65.04	14.62	3,594.03	879.66	2,652.81	2,576.41	76.40	34.721		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,200.00	11,472.23	12,619.40	8,909.57	73.81	66.49	14.62	3,694.02	879.00	2,652.58	2,574.73	77.85	34.075	
15,300.00	11,471.78	12,719.40	8,909.37	75.20	67.94	14.62	3,794.01	878.34	2,652.34	2,573.04	79.30	33.447	
15,400.00	11,471.34	12,819.39	8,909.17	76.60	69.41	14.63	3,894.00	877.68	2,652.10	2,571.34	80.76	32.838	
15,500.00	11,470.89	12,919.39	8,908.97	78.01	70.88	14.63	3,994.00	877.02	2,651.86	2,569.63	82.24	32.247	
15,600.00	11,470.44	13,019.38	8,908.77	79.43	72.36	14.63	4,093.99	876.36	2,651.63	2,567.91	83.72	31.673	
15,700.00	11,470.00	13,119.37	8,908.58	80.86	73.84	14.63	4,193.98	875.70	2,651.39	2,566.18	85.21	31.117	
15,800.00	11,469.55	13,219.37	8,908.38	82.30	75.34	14.63	4,293.97	875.04	2,651.15	2,564.45	86.70	30.577	
15,900.00	11,469.10	13,319.36	8,908.18	83.74	76.84	14.63	4,393.97	874.38	2,650.91	2,562.70	88.21	30.052	
16,000.00	11,468.66	13,419.36	8,907.98	85.20	78.35	14.63	4,493.96	873.73	2,650.68	2,560.95	89.72	29.543	
16,100.00	11,468.21	13,519.35	8,907.78	86.66	79.86	14.64	4,593.95	873.07	2,650.44	2,559.19	91.24	29.048	
16,200.00	11,467.76	13,619.35	8,907.58	88.13	81.38	14.64	4,693.94	872.41	2,650.20	2,557.43	92.77	28.568	
16,300.00	11,467.32	13,719.34	8,907.38	89.60	82.90	14.64	4,793.93	871.75	2,649.96	2,555.66	94.30	28.102	
16,400.00	11,466.87	13,819.34	8,907.18	91.08	84.43	14.64	4,893.93	871.09	2,649.72	2,553.89	95.83	27.649	
16,500.00	11,466.42	13,919.33	8,906.98	92.57	85.96	14.64	4,993.92	870.43	2,649.49	2,552.11	97.38	27.208	
16,600.00	11,465.97	14,019.33	8,906.78	94.06	87.50	14.64	5,093.91	869.78	2,649.25	2,550.32	98.93	26.780	
16,700.00	11,465.52	14,119.32	8,906.58	95.56	89.04	14.65	5,193.90	869.12	2,649.01	2,548.53	100.48	26.364	
16,800.00	11,465.07	14,219.31	8,906.38	97.06	90.59	14.65	5,293.89	868.46	2,648.77	2,546.73	102.04	25.959	
16,900.00	11,464.62	14,319.31	8,906.18	98.57	92.14	14.65	5,393.89	867.80	2,648.53	2,544.93	103.60	25.565	
17,000.00	11,464.17	14,419.30	8,905.98	100.08	93.69	14.65	5,493.88	867.14	2,648.30	2,543.13	105.16	25.183	
17,100.00	11,463.72	14,519.30	8,905.78	101.60	95.25	14.65	5,593.87	866.49	2,648.06	2,541.32	106.74	24.810	
17,200.00	11,463.27	14,619.29	8,905.58	103.12	96.81	14.65	5,693.86	865.83	2,647.82	2,539.51	108.31	24.446	
17,300.00	11,462.82	14,719.29	8,905.38	104.65	98.37	14.65	5,793.85	865.17	2,647.58	2,537.69	109.89	24.094	
17,400.00	11,462.37	14,819.28	8,905.18	106.18	99.94	14.66	5,893.85	864.52	2,647.34	2,535.88	111.47	23.750	
17,500.00	11,461.92	14,919.28	8,904.97	107.71	101.51	14.66	5,993.84	863.86	2,647.10	2,534.05	113.05	23.415	
17,600.00	11,461.47	15,019.27	8,904.77	109.25	103.08	14.66	6,093.83	863.20	2,646.87	2,532.23	114.64	23.089	
17,700.00	11,461.02	15,119.26	8,904.57	110.79	104.66	14.66	6,193.82	862.54	2,646.63	2,530.40	116.23	22.770	
17,800.00	11,460.57	15,219.26	8,904.37	112.33	106.23	14.66	6,293.82	861.89	2,646.39	2,528.56	117.83	22.460	
17,900.00	11,460.12	15,319.25	8,904.17	113.88	107.81	14.66	6,393.81	861.23	2,646.15	2,526.73	119.42	22.158	
18,000.00	11,459.66	15,419.25	8,903.96	115.43	109.39	14.67	6,493.80	860.57	2,645.91	2,524.89	121.02	21.863	
18,100.00	11,459.21	15,519.24	8,903.76	116.98	110.98	14.67	6,593.79	859.92	2,645.67	2,523.05	122.62	21.576	
18,200.00	11,458.76	15,619.24	8,903.56	118.54	112.56	14.67	6,693.78	859.26	2,645.44	2,521.21	124.23	21.295	
18,300.00	11,458.31	15,719.23	8,903.35	120.09	114.15	14.67	6,793.78	858.61	2,645.20	2,519.36	125.84	21.021	
18,400.00	11,457.85	15,819.23	8,903.15	121.66	115.74	14.67	6,893.77	857.95	2,644.96	2,517.51	127.44	20.754	
18,500.00	11,457.40	15,919.22	8,902.95	123.22	117.33	14.67	6,993.76	857.29	2,644.72	2,515.67	129.05	20.493	
18,600.00	11,456.95	16,019.22	8,902.74	124.78	118.93	14.68	7,093.75	856.64	2,644.48	2,513.81	130.67	20.238	
18,700.00	11,456.49	16,119.21	8,902.54	126.35	120.52	14.68	7,193.74	855.98	2,644.24	2,511.96	132.28	19.989	
18,800.00	11,456.04	16,219.20	8,902.34	127.92	122.12	14.68	7,293.74	855.33	2,644.00	2,510.11	133.90	19.746	
18,900.00	11,455.58	16,319.20	8,902.13	129.50	123.72	14.68	7,393.73	854.67	2,643.77	2,508.25	135.52	19.508	
19,000.00	11,455.13	16,419.19	8,901.93	131.07	125.32	14.68	7,493.72	854.02	2,643.53	2,506.39	137.14	19.276	
19,100.00	11,454.67	16,519.19	8,901.72	132.65	126.92	14.68	7,593.71	853.36	2,643.29	2,504.52	138.76	19.049	
19,200.00	11,454.22	16,619.18	8,901.52	134.22	128.52	14.69	7,693.71	852.71	2,643.05	2,502.66	140.39	18.827	
19,300.00	11,453.76	16,719.18	8,901.31	135.80	130.12	14.69	7,793.70	852.05	2,642.81	2,500.80	142.01	18.610	
19,400.00	11,453.31	16,819.17	8,901.11	137.39	131.73	14.69	7,893.69	851.40	2,642.57	2,498.93	143.64	18.397	
19,500.00	11,452.85	16,919.17	8,900.90	138.97	133.33	14.69	7,993.68	850.74	2,642.33	2,497.07	145.27	18.189	
19,600.00	11,452.39	17,019.16	8,900.70	140.56	134.94	14.69	8,093.67	850.09	2,642.09	2,495.20	146.90	17.986	
19,700.00	11,451.94	17,119.15	8,900.49	142.14	136.55	14.69	8,193.67	849.43	2,641.86	2,493.33	148.53	17.787	
19,800.00	11,451.48	17,219.15	8,900.29	143.73	138.16	14.70	8,293.66	848.78	2,641.62	2,491.46	150.16	17.592	
19,900.00	11,451.02	17,319.14	8,900.08	145.32	139.77	14.70	8,393.65	848.12	2,641.38	2,489.59	151.79	17.401	
20,000.00	11,450.57	17,419.14	8,899.88	146.91	141.38	14.70	8,493.64	847.47	2,641.14	2,487.71	153.43	17.214	
20,100.00	11,450.11	17,519.13	8,899.67	148.51	143.00	14.70	8,593.63	846.81	2,640.90	2,485.84	155.06	17.031	
20,200.00	11,449.65	17,619.13	8,899.46	150.10	144.61	14.70	8,693.63	846.16	2,640.66	2,483.96	156.70	16.852	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft	
Survey Program: Reference		0-OWSG (Rev2) MWD						Rule Assigned:					Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,300.00	11,449.19	17,719.12	8,899.26	151.70	146.23	14.70	8,793.62	845.51	2,640.42	2,482.08	158.34	16.676		
20,400.00	11,448.73	17,819.12	8,899.05	153.29	147.84	14.71	8,893.61	844.85	2,640.18	2,480.21	159.98	16.504		
20,500.00	11,448.27	17,919.11	8,898.84	154.89	149.46	14.71	8,993.60	844.20	2,639.94	2,478.33	161.61	16.335		
20,600.00	11,447.82	18,019.11	8,898.64	156.49	151.08	14.71	9,093.60	843.54	2,639.70	2,476.45	163.26	16.169		
20,700.00	11,447.36	18,119.10	8,898.43	158.09	152.69	14.71	9,193.59	842.89	2,639.46	2,474.57	164.90	16.007		
20,800.00	11,446.90	18,219.09	8,898.22	159.70	154.31	14.71	9,293.58	842.24	2,639.23	2,472.69	166.54	15.848		
20,900.00	11,446.44	18,319.09	8,898.01	161.30	155.93	14.72	9,393.57	841.58	2,638.99	2,470.81	168.18	15.691		
21,000.00	11,445.98	18,419.08	8,897.81	162.90	157.56	14.72	9,493.56	840.93	2,638.75	2,468.92	169.82	15.538		
21,100.00	11,445.52	18,519.08	8,897.60	164.51	159.18	14.72	9,593.56	840.28	2,638.51	2,467.04	171.47	15.388		
21,200.00	11,445.06	18,619.07	8,897.39	166.11	160.80	14.72	9,693.55	839.63	2,638.27	2,465.15	173.11	15.240		
21,300.00	11,444.60	18,719.07	8,897.18	167.72	162.42	14.72	9,793.54	838.97	2,638.03	2,463.27	174.76	15.095		
21,400.00	11,444.14	18,819.06	8,896.97	169.33	164.05	14.72	9,893.53	838.32	2,637.79	2,461.38	176.41	14.953		
21,500.00	11,443.67	18,919.06	8,896.77	170.94	165.67	14.73	9,993.52	837.67	2,637.55	2,459.49	178.06	14.813		
21,600.00	11,443.21	19,019.05	8,896.56	172.55	167.29	14.73	10,093.52	837.01	2,637.31	2,457.61	179.70	14.676		
21,700.00	11,442.75	19,119.04	8,896.35	174.16	168.92	14.73	10,193.51	836.36	2,637.07	2,455.72	181.35	14.541		
21,800.00	11,442.29	19,219.04	8,896.14	175.77	170.55	14.73	10,293.50	835.71	2,636.83	2,453.83	183.00	14.409		
21,862.35	11,442.00	19,281.39	8,896.01	176.77	171.56	14.73	10,355.85	835.30	2,636.68	2,452.65	184.03	14.328		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-90.32	-7.60	-1,359.06	1,359.12						
100.00	100.00	90.00	90.00	0.13	0.12	-90.32	-7.60	-1,359.06	1,359.08	1,358.82	0.26	5,321.141			
200.00	200.00	190.00	190.00	0.49	0.46	-90.32	-7.60	-1,359.06	1,359.08	1,358.13	0.95	1,430.686			
300.00	300.00	290.00	290.00	0.85	0.82	-90.32	-7.60	-1,359.06	1,359.08	1,357.41	1.67	815.337			
400.00	400.00	390.00	390.00	1.21	1.17	-90.32	-7.60	-1,359.06	1,359.08	1,356.70	2.38	570.123			
500.00	500.00	490.00	490.00	1.57	1.53	-90.32	-7.60	-1,359.06	1,359.08	1,355.98	3.10	438.303			
600.00	600.00	590.00	590.00	1.93	1.89	-90.32	-7.60	-1,359.06	1,359.08	1,355.26	3.82	355.992			
700.00	700.00	690.00	690.00	2.29	2.25	-90.32	-7.60	-1,359.06	1,359.08	1,354.55	4.53	299.709			
800.00	800.00	790.00	790.00	2.64	2.61	-90.32	-7.60	-1,359.06	1,359.08	1,353.83	5.25	258.793			
900.00	900.00	890.00	890.00	3.00	2.97	-90.32	-7.60	-1,359.06	1,359.08	1,353.11	5.97	227.707			
1,000.00	1,000.00	990.00	990.00	3.36	3.32	-90.32	-7.60	-1,359.06	1,359.08	1,352.39	6.69	203.288			
1,100.00	1,100.00	1,090.00	1,090.00	3.72	3.68	-90.32	-7.60	-1,359.06	1,359.08	1,351.68	7.40	183.599			
1,200.00	1,200.00	1,190.00	1,190.00	4.08	4.04	-90.32	-7.60	-1,359.06	1,359.08	1,350.96	8.12	167.387			
1,300.00	1,300.00	1,290.00	1,290.00	4.44	4.40	-90.32	-7.60	-1,359.06	1,359.08	1,350.24	8.84	153.806			
1,400.00	1,400.00	1,390.00	1,390.00	4.79	4.76	-90.32	-7.60	-1,359.06	1,359.08	1,349.53	9.55	142.263			
1,500.00	1,500.00	1,490.00	1,490.00	5.15	5.12	-90.32	-7.60	-1,359.06	1,359.08	1,348.81	10.27	132.332			
1,600.00	1,600.00	1,590.00	1,590.00	5.51	5.48	-90.32	-7.60	-1,359.06	1,359.08	1,348.09	10.99	123.697			
1,700.00	1,700.00	1,690.00	1,690.00	5.87	5.83	-90.32	-7.60	-1,359.06	1,359.08	1,347.38	11.70	116.120			
1,800.00	1,800.00	1,790.00	1,790.00	6.23	6.19	-90.32	-7.60	-1,359.06	1,359.08	1,346.66	12.42	109.418			
1,900.00	1,900.00	1,890.00	1,890.00	6.59	6.55	-90.32	-7.60	-1,359.06	1,359.08	1,345.94	13.14	103.447			
2,000.00	2,000.00	1,990.00	1,990.00	6.95	6.91	-90.32	-7.60	-1,359.06	1,359.08	1,345.22	13.85	98.094 CC, ES			
2,100.00	2,099.98	2,062.99	2,062.99	7.29	7.16	134.89	-7.90	-1,359.68	1,361.20	1,346.76	14.45	94.208			
2,200.00	2,199.84	2,132.77	2,132.72	7.62	7.40	134.86	-8.94	-1,361.83	1,367.98	1,352.97	15.01	91.152			
2,300.00	2,299.45	2,200.00	2,199.84	7.95	7.63	134.80	-10.65	-1,365.34	1,379.39	1,363.84	15.55	88.716			
2,400.00	2,398.70	2,270.78	2,270.38	8.30	7.87	134.72	-13.18	-1,370.56	1,395.39	1,379.29	16.10	86.664			
2,500.00	2,497.47	2,338.58	2,337.80	8.65	8.10	134.61	-16.32	-1,377.04	1,415.94	1,399.30	16.64	85.089			
2,600.00	2,595.62	2,400.00	2,398.70	9.01	8.31	134.44	-19.77	-1,384.14	1,440.96	1,423.81	17.15	84.025			
2,700.00	2,693.44	2,471.10	2,468.98	9.39	8.57	134.68	-24.47	-1,393.83	1,469.17	1,451.46	17.70	82.990			
2,800.00	2,791.25	2,536.18	2,533.05	9.77	8.80	134.86	-29.44	-1,404.07	1,499.36	1,481.14	18.23	82.262			
2,900.00	2,889.07	2,600.71	2,596.32	10.17	9.04	135.01	-34.99	-1,415.52	1,531.49	1,512.74	18.75	81.693			
3,000.00	2,986.88	2,694.96	2,688.51	10.57	9.40	135.20	-43.54	-1,433.15	1,564.56	1,545.12	19.43	80.503			
3,100.00	3,084.70	2,789.20	2,780.69	10.99	9.77	135.39	-52.10	-1,450.78	1,597.64	1,577.51	20.13	79.358			
3,200.00	3,182.51	2,883.45	2,872.88	11.41	10.14	135.56	-60.65	-1,468.40	1,630.74	1,609.90	20.84	78.259			
3,300.00	3,280.33	2,977.70	2,965.07	11.83	10.53	135.73	-69.20	-1,486.03	1,663.85	1,642.30	21.55	77.205			
3,400.00	3,378.14	3,071.94	3,057.25	12.26	10.92	135.90	-77.75	-1,503.66	1,696.98	1,674.71	22.27	76.196			
3,500.00	3,475.96	3,166.19	3,149.44	12.69	11.31	136.05	-86.31	-1,521.29	1,730.12	1,707.12	23.00	75.230			
3,600.00	3,573.77	3,260.43	3,241.63	13.13	11.71	136.24	-94.86	-1,538.92	1,763.26	1,739.53	23.73	74.307			
3,700.00	3,671.97	3,355.19	3,334.31	13.57	12.12	136.80	-103.46	-1,556.65	1,795.06	1,770.59	24.46	73.379			
3,800.00	3,770.78	3,450.77	3,427.81	13.98	12.54	137.24	-112.13	-1,574.53	1,824.43	1,799.24	25.20	72.412			
3,900.00	3,870.05	3,547.06	3,521.99	14.38	12.96	137.55	-120.87	-1,592.54	1,851.36	1,825.43	25.93	71.410			
4,000.00	3,969.69	3,643.93	3,616.74	14.75	13.39	137.76	-129.66	-1,610.66	1,875.79	1,849.14	26.65	70.380			
4,100.00	4,069.56	3,741.28	3,711.96	15.11	13.82	137.86	-138.50	-1,628.87	1,897.73	1,870.36	27.37	69.326			
4,200.00	4,169.54	3,838.97	3,807.52	15.44	14.26	-87.38	-147.36	-1,647.14	1,917.18	1,889.09	28.09	68.261			
4,300.00	4,269.54	3,936.78	3,903.20	15.77	14.71	-87.67	-156.24	-1,665.44	1,935.56	1,906.77	28.80	67.214			
4,400.00	4,369.54	4,034.60	3,998.87	16.10	15.15	-87.95	-165.12	-1,683.74	1,954.00	1,924.49	29.51	66.216			
4,500.00	4,469.54	4,245.12	4,205.90	16.43	16.07	-88.48	-181.69	-1,717.89	1,970.44	1,939.57	30.87	63.835			
4,600.00	4,569.54	4,502.80	4,462.20	16.76	17.08	-88.82	-192.93	-1,741.08	1,979.35	1,947.04	32.31	61.264			
4,700.00	4,669.54	4,700.22	4,659.54	17.09	17.74	-88.88	-194.84	-1,745.01	1,980.85	1,947.51	33.34	59.415			
4,800.00	4,769.54	4,800.22	4,759.54	17.43	18.06	-88.88	-194.84	-1,745.01	1,980.85	1,946.83	34.02	58.233			
4,900.00	4,869.54	4,900.22	4,859.54	17.76	18.39	-88.88	-194.84	-1,745.01	1,980.85	1,946.15	34.69	57.095			
5,000.00	4,969.54	5,000.22	4,959.54	18.10	18.71	-88.88	-194.84	-1,745.01	1,980.85	1,945.48	35.37	55.998			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD						Rule Assigned:				Offset Well Error:	0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,069.54	5,100.22	5,059.54	18.43	19.03	-88.88	-194.84	-1,745.01	1,980.85	1,944.79	36.05	54.940		
5,200.00	5,169.54	5,200.22	5,159.54	18.77	19.36	-88.88	-194.84	-1,745.01	1,980.85	1,944.11	36.74	53.919		
5,300.00	5,269.54	5,300.22	5,259.54	19.11	19.69	-88.88	-194.84	-1,745.01	1,980.85	1,943.43	37.42	52.934		
5,400.00	5,369.54	5,400.22	5,359.54	19.45	20.02	-88.88	-194.84	-1,745.01	1,980.85	1,942.74	38.11	51.982		
5,500.00	5,469.54	5,500.22	5,459.54	19.79	20.35	-88.88	-194.84	-1,745.01	1,980.85	1,942.06	38.79	51.063		
5,600.00	5,569.54	5,600.22	5,559.54	20.13	20.68	-88.88	-194.84	-1,745.01	1,980.85	1,941.37	39.48	50.174		
5,700.00	5,669.54	5,700.22	5,659.54	20.47	21.01	-88.88	-194.84	-1,745.01	1,980.85	1,940.68	40.17	49.314		
5,800.00	5,769.54	5,800.22	5,759.54	20.81	21.34	-88.88	-194.84	-1,745.01	1,980.85	1,939.99	40.86	48.482		
5,900.00	5,869.54	5,900.22	5,859.54	21.15	21.67	-88.88	-194.84	-1,745.01	1,980.85	1,939.30	41.55	47.677		
6,000.00	5,969.54	6,000.22	5,959.54	21.49	22.01	-88.88	-194.84	-1,745.01	1,980.85	1,938.61	42.24	46.897		
6,100.00	6,069.54	6,100.22	6,059.54	21.83	22.34	-88.88	-194.84	-1,745.01	1,980.85	1,937.92	42.93	46.141		
6,200.00	6,169.54	6,200.22	6,159.54	22.18	22.68	-88.88	-194.84	-1,745.01	1,980.85	1,937.23	43.62	45.408		
6,300.00	6,269.54	6,300.22	6,259.54	22.52	23.02	-88.88	-194.84	-1,745.01	1,980.85	1,936.53	44.32	44.698		
6,400.00	6,369.54	6,400.22	6,359.54	22.87	23.35	-88.88	-194.84	-1,745.01	1,980.85	1,935.84	45.01	44.008		
6,500.00	6,469.54	6,500.22	6,459.54	23.21	23.69	-88.88	-194.84	-1,745.01	1,980.85	1,935.14	45.71	43.339		
6,600.00	6,569.54	6,600.22	6,559.54	23.56	24.03	-88.88	-194.84	-1,745.01	1,980.85	1,934.45	46.40	42.689		
6,700.00	6,669.54	6,700.22	6,659.54	23.90	24.37	-88.88	-194.84	-1,745.01	1,980.85	1,933.75	47.10	42.058		
6,800.00	6,769.54	6,800.22	6,759.54	24.25	24.71	-88.88	-194.84	-1,745.01	1,980.85	1,933.05	47.79	41.445		
6,900.00	6,869.54	6,900.22	6,859.54	24.59	25.05	-88.88	-194.84	-1,745.01	1,980.85	1,932.36	48.49	40.849		
7,000.00	6,969.54	7,000.22	6,959.54	24.94	25.39	-88.88	-194.84	-1,745.01	1,980.85	1,931.66	49.19	40.269		
7,100.00	7,069.54	7,100.22	7,059.54	25.29	25.73	-88.88	-194.84	-1,745.01	1,980.85	1,930.96	49.89	39.705		
7,200.00	7,169.54	7,200.22	7,159.54	25.63	26.07	-88.88	-194.84	-1,745.01	1,980.85	1,930.26	50.59	39.157		
7,300.00	7,269.54	7,300.22	7,259.54	25.98	26.41	-88.88	-194.84	-1,745.01	1,980.85	1,929.56	51.29	38.623		
7,400.00	7,369.54	7,400.22	7,359.54	26.33	26.75	-88.88	-194.84	-1,745.01	1,980.85	1,928.86	51.99	38.102		
7,500.00	7,469.54	7,500.22	7,459.54	26.68	27.09	-88.88	-194.84	-1,745.01	1,980.85	1,928.16	52.69	37.596		
7,600.00	7,569.54	7,600.22	7,559.54	27.03	27.44	-88.88	-194.84	-1,745.01	1,980.85	1,927.46	53.39	37.102		
7,700.00	7,669.54	7,700.22	7,659.54	27.37	27.78	-88.88	-194.84	-1,745.01	1,980.85	1,926.76	54.09	36.621		
7,800.00	7,769.54	7,800.22	7,759.54	27.72	28.13	-88.88	-194.84	-1,745.01	1,980.85	1,926.06	54.79	36.152		
7,900.00	7,869.54	7,900.22	7,859.54	28.07	28.47	-88.88	-194.84	-1,745.01	1,980.85	1,925.35	55.49	35.695		
8,000.00	7,969.54	8,000.22	7,959.54	28.42	28.81	-88.88	-194.84	-1,745.01	1,980.85	1,924.65	56.20	35.249		
8,100.00	8,069.54	8,100.22	8,059.54	28.77	29.16	-88.88	-194.84	-1,745.01	1,980.85	1,923.95	56.90	34.813		
8,200.00	8,169.54	8,200.22	8,159.54	29.12	29.50	-88.88	-194.84	-1,745.01	1,980.85	1,923.25	57.60	34.388		
8,300.00	8,269.54	8,300.22	8,259.54	29.47	29.85	-88.88	-194.84	-1,745.01	1,980.85	1,922.54	58.31	33.973		
8,400.00	8,369.54	8,394.09	8,353.27	29.82	30.17	-88.77	-191.23	-1,745.03	1,980.96	1,921.97	58.98	33.585		
8,500.00	8,469.54	8,482.34	8,439.86	30.17	30.45	-88.29	-174.64	-1,745.14	1,981.58	1,921.96	59.62	33.238		
8,600.00	8,569.54	8,563.79	8,516.65	30.52	30.68	-87.52	-147.70	-1,745.32	1,983.11	1,922.90	60.20	32.939		
8,700.00	8,669.54	8,636.36	8,581.25	30.87	30.86	-86.56	-114.73	-1,745.54	1,986.11	1,925.37	60.73	32.701		
8,800.00	8,769.54	8,700.00	8,634.08	31.22	31.00	-85.55	-79.31	-1,745.77	1,991.19	1,929.99	61.20	32.535		
8,900.00	8,869.54	8,750.00	8,672.63	31.57	31.09	-84.63	-47.50	-1,745.99	1,998.93	1,937.35	61.58	32.462		
9,000.00	8,969.54	8,800.00	8,708.27	31.93	31.17	-83.63	-12.45	-1,746.22	2,009.76	1,947.86	61.89	32.471		
9,100.00	9,069.54	8,839.30	8,734.05	32.28	31.22	-82.79	17.20	-1,746.41	2,024.03	1,961.93	62.10	32.591		
9,200.00	9,169.54	8,873.00	8,754.49	32.63	31.26	-82.03	43.98	-1,746.59	2,041.98	1,979.76	62.22	32.818		
9,300.00	9,269.54	8,900.00	8,769.72	32.98	31.29	-81.40	66.28	-1,746.74	2,063.74	2,001.50	62.24	33.160		
9,400.00	9,369.54	8,926.99	8,783.87	33.33	31.32	-80.75	89.26	-1,746.89	2,089.35	2,027.17	62.18	33.601		
9,500.00	9,469.54	8,950.00	8,795.07	33.68	31.34	-80.18	109.36	-1,747.03	2,118.83	2,056.79	62.04	34.152		
9,600.00	9,569.54	8,967.82	8,803.18	34.04	31.36	-79.74	125.23	-1,747.13	2,152.10	2,090.29	61.81	34.817		
9,700.00	9,669.54	9,000.00	8,816.57	34.39	31.39	-78.92	154.49	-1,747.33	2,189.22	2,127.61	61.61	35.533		
9,800.00	9,769.54	9,000.00	8,816.57	34.74	31.39	-78.92	154.49	-1,747.33	2,229.64	2,168.46	61.18	36.442		
9,900.00	9,869.54	9,000.00	8,816.57	35.09	31.39	-78.92	154.49	-1,747.33	2,273.74	2,213.02	60.71	37.450		
10,000.00	9,969.54	9,024.63	8,825.69	35.45	31.42	-78.29	177.36	-1,747.48	2,320.90	2,260.53	60.37	38.443		
10,100.00	10,069.54	9,050.00	8,834.05	35.80	31.46	-77.63	201.31	-1,747.64	2,371.43	2,311.42	60.01	39.514		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft	
Survey Program:		0-OWSG (Rev2) MWD						Rule Assigned:				Offset Well Error: 0.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,200.00	10,169.54	9,050.00	8,834.05	36.15	31.46	-77.63	201.31	-1,747.64	2,424.62	2,365.13	59.50	40.752		
10,300.00	10,269.54	9,050.00	8,834.05	36.51	31.46	-77.63	201.31	-1,747.64	2,480.70	2,421.73	58.98	42.062		
10,400.00	10,369.54	9,050.00	8,834.05	36.86	31.46	-77.63	201.31	-1,747.64	2,539.49	2,481.03	58.46	43.439		
10,500.00	10,469.54	9,069.12	8,839.64	37.21	31.49	-77.13	219.59	-1,747.76	2,600.51	2,542.44	58.07	44.780		
10,600.00	10,569.54	9,075.85	8,841.47	37.57	31.50	-76.95	226.07	-1,747.80	2,663.91	2,606.29	57.62	46.231		
10,700.00	10,669.54	9,100.00	8,847.38	37.92	31.56	-76.31	249.48	-1,747.96	2,729.70	2,672.41	57.29	47.647		
10,800.00	10,769.54	9,100.00	8,847.38	38.27	31.56	-76.31	249.48	-1,747.96	2,797.09	2,740.25	56.84	49.210		
10,900.00	10,869.54	9,100.00	8,847.38	38.63	31.56	-76.31	249.48	-1,747.96	2,866.38	2,809.97	56.41	50.809		
11,000.00	10,969.45	9,100.00	8,847.38	38.98	31.56	-70.65	249.48	-1,747.96	2,936.93	2,880.92	56.01	52.437		
11,100.00	11,067.64	9,100.00	8,847.38	39.30	31.56	-62.06	249.48	-1,747.96	3,005.36	2,949.76	55.60	54.052		
11,200.00	11,161.16	9,100.00	8,847.38	39.59	31.56	-54.92	249.48	-1,747.96	3,069.57	3,014.37	55.20	55.604		
11,300.00	11,247.17	9,150.00	8,856.47	39.83	31.71	-48.68	298.63	-1,748.28	3,127.49	3,072.41	55.08	56.779		
11,400.00	11,323.06	9,150.00	8,856.47	40.03	31.71	-44.50	298.63	-1,748.28	3,177.35	3,122.60	54.75	58.035		
11,500.00	11,386.52	9,150.00	8,856.47	40.18	31.71	-41.40	298.63	-1,748.28	3,218.64	3,164.16	54.48	59.078		
11,600.00	11,435.62	9,177.07	8,859.59	40.33	31.80	-39.13	325.52	-1,748.46	3,249.85	3,195.44	54.41	59.727		
11,700.00	11,468.88	9,200.00	8,861.24	40.54	31.88	-37.76	348.39	-1,748.61	3,270.49	3,216.07	54.42	60.101		
11,800.00	11,485.28	9,212.40	8,861.75	40.77	31.92	-37.17	360.78	-1,748.69	3,279.92	3,225.42	54.50	60.182		
11,900.00	11,486.77	9,243.77	8,862.07	41.03	32.04	-37.14	392.15	-1,748.90	3,279.91	3,225.15	54.76	59.895		
12,000.00	11,486.33	9,343.77	8,862.47	41.36	32.46	-37.15	492.14	-1,749.56	3,279.25	3,223.94	55.31	59.289		
12,100.00	11,485.90	9,443.76	8,862.87	41.74	32.96	-37.16	592.13	-1,750.23	3,278.58	3,222.63	55.95	58.601		
12,200.00	11,485.46	9,543.76	8,863.27	42.19	33.52	-37.16	692.12	-1,750.89	3,277.91	3,221.23	56.68	57.835		
12,300.00	11,485.02	9,643.75	8,863.67	42.70	34.16	-37.17	792.11	-1,751.56	3,277.24	3,219.75	57.49	57.003		
12,400.00	11,484.59	9,743.75	8,864.08	43.26	34.86	-37.18	892.10	-1,752.22	3,276.57	3,218.18	58.39	56.113		
12,500.00	11,484.15	9,843.74	8,864.48	43.88	35.62	-37.19	992.10	-1,752.88	3,275.90	3,216.53	59.37	55.177		
12,600.00	11,483.71	9,943.74	8,864.88	44.55	36.44	-37.20	1,092.09	-1,753.55	3,275.24	3,214.81	60.42	54.203		
12,700.00	11,483.27	10,043.73	8,865.28	45.27	37.31	-37.21	1,192.08	-1,754.21	3,274.57	3,213.02	61.55	53.201		
12,800.00	11,482.83	10,143.72	8,865.68	46.04	38.24	-37.22	1,292.07	-1,754.87	3,273.90	3,211.16	62.74	52.181		
12,900.00	11,482.39	10,243.72	8,866.08	46.85	39.21	-37.23	1,392.06	-1,755.54	3,273.23	3,209.23	64.00	51.148		
13,000.00	11,481.95	10,343.71	8,866.48	47.71	40.23	-37.24	1,492.05	-1,756.20	3,272.56	3,207.25	65.31	50.108		
13,100.00	11,481.52	10,443.71	8,866.89	48.61	41.28	-37.24	1,592.05	-1,756.87	3,271.89	3,205.21	66.68	49.068		
13,200.00	11,481.08	10,543.70	8,867.29	49.55	42.38	-37.25	1,692.04	-1,757.53	3,271.22	3,203.12	68.10	48.033		
13,300.00	11,480.64	10,643.70	8,867.69	50.52	43.51	-37.26	1,792.03	-1,758.20	3,270.55	3,200.97	69.58	47.006		
13,400.00	11,480.20	10,743.69	8,868.09	51.53	44.68	-37.27	1,892.02	-1,758.86	3,269.88	3,198.78	71.10	45.991		
13,500.00	11,479.75	10,843.69	8,868.49	52.57	45.87	-37.28	1,992.01	-1,759.52	3,269.21	3,196.55	72.66	44.992		
13,600.00	11,479.31	10,943.68	8,868.89	53.65	47.09	-37.29	2,092.00	-1,760.19	3,268.54	3,194.27	74.27	44.011		
13,700.00	11,478.87	11,043.68	8,869.29	54.75	48.34	-37.30	2,191.99	-1,760.85	3,267.87	3,191.96	75.91	43.051		
13,800.00	11,478.43	11,143.67	8,869.69	55.88	49.61	-37.31	2,291.99	-1,761.52	3,267.20	3,189.62	77.58	42.112		
13,900.00	11,477.99	11,243.66	8,870.10	57.03	50.90	-37.32	2,391.98	-1,762.18	3,266.53	3,187.24	79.29	41.195		
14,000.00	11,477.55	11,343.66	8,870.50	58.21	52.22	-37.33	2,491.97	-1,762.85	3,265.86	3,184.82	81.04	40.301		
14,100.00	11,477.11	11,443.65	8,870.90	59.41	53.55	-37.33	2,591.96	-1,763.51	3,265.19	3,182.38	82.81	39.430		
14,200.00	11,476.66	11,543.65	8,871.30	60.64	54.90	-37.34	2,691.95	-1,764.18	3,264.52	3,179.91	84.61	38.585		
14,300.00	11,476.22	11,643.64	8,871.70	61.88	56.27	-37.35	2,791.94	-1,764.84	3,263.85	3,177.42	86.43	37.764		
14,400.00	11,475.78	11,743.64	8,872.10	63.14	57.65	-37.36	2,891.93	-1,765.51	3,263.18	3,174.90	88.28	36.965		
14,500.00	11,475.34	11,843.63	8,872.50	64.42	59.05	-37.37	2,991.93	-1,766.18	3,262.51	3,172.35	90.15	36.189		
14,600.00	11,474.89	11,943.63	8,872.90	65.72	60.45	-37.38	3,091.92	-1,766.84	3,261.83	3,169.79	92.04	35.438		
14,700.00	11,474.45	12,043.62	8,873.31	67.03	61.88	-37.39	3,191.91	-1,767.51	3,261.16	3,167.21	93.95	34.711		
14,800.00	11,474.00	12,143.61	8,873.71	68.36	63.31	-37.40	3,291.90	-1,768.17	3,260.49	3,164.61	95.88	34.005		
14,900.00	11,473.56	12,243.61	8,874.11	69.70	64.75	-37.41	3,391.89	-1,768.84	3,259.82	3,161.99	97.83	33.321		
15,000.00	11,473.12	12,343.60	8,874.51	71.06	66.20	-37.42	3,491.88	-1,769.50	3,259.15	3,159.35	99.80	32.657		
15,100.00	11,472.67	12,443.60	8,874.91	72.43	67.67	-37.42	3,591.87	-1,770.17	3,258.48	3,156.70	101.78	32.016		
15,200.00	11,472.23	12,543.59	8,875.31	73.81	69.14	-37.43	3,691.87	-1,770.84	3,257.80	3,154.03	103.77	31.394		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft	
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,300.00	11,471.78	12,643.59	8,875.71	75.20	70.62	-37.44	3,791.86	-1,771.50	3,257.13	3,151.35	105.78	30.791		
15,400.00	11,471.34	12,743.58	8,876.11	76.60	72.11	-37.45	3,891.85	-1,772.17	3,256.46	3,148.66	107.80	30.207		
15,500.00	11,470.89	12,843.58	8,876.51	78.01	73.60	-37.46	3,991.84	-1,772.84	3,255.79	3,145.95	109.84	29.642		
15,600.00	11,470.44	12,943.57	8,876.92	79.43	75.10	-37.47	4,091.83	-1,773.50	3,255.12	3,143.23	111.88	29.094		
15,700.00	11,470.00	13,043.56	8,877.32	80.86	76.61	-37.48	4,191.82	-1,774.17	3,254.44	3,140.50	113.94	28.563		
15,800.00	11,469.55	13,143.56	8,877.72	82.30	78.12	-37.49	4,291.81	-1,774.83	3,253.77	3,137.76	116.01	28.048		
15,900.00	11,469.10	13,243.55	8,878.12	83.74	79.64	-37.50	4,391.81	-1,775.50	3,253.10	3,135.01	118.08	27.549		
16,000.00	11,468.66	13,343.55	8,878.52	85.20	81.17	-37.51	4,491.80	-1,776.17	3,252.42	3,132.26	120.17	27.066		
16,100.00	11,468.21	13,443.54	8,878.92	86.66	82.69	-37.51	4,591.79	-1,776.84	3,251.75	3,129.49	122.26	26.597		
16,200.00	11,467.76	13,543.54	8,879.32	88.13	84.23	-37.52	4,691.78	-1,777.50	3,251.08	3,126.71	124.36	26.141		
16,300.00	11,467.32	13,643.53	8,879.72	89.60	85.77	-37.53	4,791.77	-1,778.17	3,250.40	3,123.93	126.48	25.699		
16,400.00	11,466.87	13,743.53	8,880.13	91.08	87.31	-37.54	4,891.76	-1,778.84	3,249.73	3,121.13	128.60	25.271		
16,500.00	11,466.42	13,843.52	8,880.53	92.57	88.86	-37.55	4,991.75	-1,779.50	3,249.06	3,118.34	130.72	24.855		
16,600.00	11,465.97	13,943.51	8,880.93	94.06	90.41	-37.56	5,091.75	-1,780.17	3,248.38	3,115.53	132.85	24.451		
16,700.00	11,465.52	14,043.51	8,881.33	95.56	91.96	-37.57	5,191.74	-1,780.84	3,247.71	3,112.72	134.99	24.058		
16,800.00	11,465.07	14,143.50	8,881.73	97.06	93.52	-37.58	5,291.73	-1,781.51	3,247.04	3,109.90	137.14	23.677		
16,900.00	11,464.62	14,243.50	8,882.13	98.57	95.08	-37.59	5,391.72	-1,782.17	3,246.36	3,107.07	139.29	23.307		
17,000.00	11,464.17	14,343.49	8,882.53	100.08	96.65	-37.60	5,491.71	-1,782.84	3,245.69	3,104.24	141.44	22.947		
17,100.00	11,463.72	14,443.49	8,882.93	101.60	98.22	-37.61	5,591.70	-1,783.51	3,245.01	3,101.41	143.61	22.597		
17,200.00	11,463.27	14,543.48	8,883.33	103.12	99.79	-37.62	5,691.69	-1,784.18	3,244.34	3,098.57	145.77	22.256		
17,300.00	11,462.82	14,643.48	8,883.73	104.65	101.36	-37.62	5,791.69	-1,784.85	3,243.67	3,095.72	147.94	21.925		
17,400.00	11,462.37	14,743.47	8,884.14	106.18	102.94	-37.63	5,891.68	-1,785.51	3,242.99	3,092.87	150.12	21.603		
17,500.00	11,461.92	14,843.46	8,884.54	107.71	104.51	-37.64	5,991.67	-1,786.18	3,242.32	3,090.02	152.30	21.289		
17,600.00	11,461.47	14,943.46	8,884.94	109.25	106.09	-37.65	6,091.66	-1,786.85	3,241.64	3,087.16	154.48	20.984		
17,700.00	11,461.02	15,043.45	8,885.34	110.79	107.68	-37.66	6,191.65	-1,787.52	3,240.97	3,084.29	156.67	20.686		
17,800.00	11,460.57	15,143.45	8,885.74	112.33	109.26	-37.67	6,291.64	-1,788.19	3,240.29	3,081.43	158.86	20.397		
17,900.00	11,460.12	15,243.44	8,886.14	113.88	110.85	-37.68	6,391.63	-1,788.86	3,239.62	3,078.56	161.06	20.115		
18,000.00	11,459.66	15,343.44	8,886.54	115.43	112.44	-37.69	6,491.62	-1,789.52	3,238.94	3,075.68	163.26	19.839		
18,100.00	11,459.21	15,443.43	8,886.94	116.98	114.03	-37.70	6,591.62	-1,790.19	3,238.26	3,072.81	165.46	19.571		
18,200.00	11,458.76	15,543.42	8,887.34	118.54	115.62	-37.71	6,691.61	-1,790.86	3,237.59	3,069.92	167.66	19.310		
18,300.00	11,458.31	15,643.42	8,887.74	120.09	117.22	-37.72	6,791.60	-1,791.53	3,236.91	3,067.04	169.87	19.055		
18,400.00	11,457.85	15,743.41	8,888.15	121.66	118.81	-37.73	6,891.59	-1,792.20	3,236.24	3,064.15	172.09	18.806		
18,500.00	11,457.40	15,843.41	8,888.55	123.22	120.41	-37.74	6,991.58	-1,792.87	3,235.56	3,061.26	174.30	18.563		
18,600.00	11,456.95	15,943.40	8,888.95	124.78	122.01	-37.74	7,091.57	-1,793.54	3,234.89	3,058.37	176.51	18.327		
18,700.00	11,456.49	16,043.40	8,889.35	126.35	123.61	-37.75	7,191.56	-1,794.21	3,234.21	3,055.48	178.73	18.095		
18,800.00	11,456.04	16,143.39	8,889.75	127.92	125.21	-37.76	7,291.56	-1,794.88	3,233.53	3,052.58	180.96	17.869		
18,900.00	11,455.58	16,243.39	8,890.15	129.50	126.82	-37.77	7,391.55	-1,795.55	3,232.86	3,049.68	183.18	17.649		
19,000.00	11,455.13	16,343.38	8,890.55	131.07	128.42	-37.78	7,491.54	-1,796.22	3,232.18	3,046.78	185.40	17.433		
19,100.00	11,454.67	16,443.37	8,890.95	132.65	130.03	-37.79	7,591.53	-1,796.89	3,231.50	3,043.87	187.63	17.223		
19,200.00	11,454.22	16,543.37	8,891.35	134.22	131.64	-37.80	7,691.52	-1,797.56	3,230.83	3,040.96	189.86	17.017		
19,300.00	11,453.76	16,643.36	8,891.75	135.80	133.25	-37.81	7,791.51	-1,798.23	3,230.15	3,038.05	192.10	16.815		
19,400.00	11,453.31	16,743.36	8,892.15	137.39	134.86	-37.82	7,891.50	-1,798.90	3,229.47	3,035.15	194.33	16.619		
19,500.00	11,452.85	16,843.35	8,892.56	138.97	136.47	-37.83	7,991.49	-1,799.57	3,228.80	3,032.23	196.56	16.426		
19,600.00	11,452.39	16,943.35	8,892.96	140.56	138.08	-37.84	8,091.49	-1,800.24	3,228.12	3,029.32	198.80	16.238		
19,700.00	11,451.94	17,043.34	8,893.36	142.14	139.69	-37.85	8,191.48	-1,800.91	3,227.44	3,026.40	201.04	16.054		
19,800.00	11,451.48	17,143.33	8,893.76	143.73	141.31	-37.86	8,291.47	-1,801.58	3,226.76	3,023.48	203.28	15.873		
19,900.00	11,451.02	17,243.33	8,894.16	145.32	142.92	-37.87	8,391.46	-1,802.25	3,226.09	3,020.57	205.52	15.697		
20,000.00	11,450.57	17,343.32	8,894.56	146.91	144.54	-37.87	8,491.45	-1,802.92	3,225.41	3,017.64	207.77	15.524		
20,100.00	11,450.11	17,443.32	8,894.96	148.51	146.16	-37.88	8,591.44	-1,803.59	3,224.73	3,014.72	210.01	15.355		
20,200.00	11,449.65	17,543.31	8,895.36	150.10	147.77	-37.89	8,691.43	-1,804.26	3,224.05	3,011.80	212.26	15.189		
20,300.00	11,449.19	17,643.31	8,895.76	151.70	149.39	-37.90	8,791.43	-1,804.93	3,223.38	3,008.87	214.50	15.027		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
20,400.00	11,448.73	17,743.30	8,896.16	153.29	151.01	-37.91	8,891.42	-1,805.60	3,222.70	3,005.94	216.76	14.868	
20,500.00	11,448.27	17,843.30	8,896.56	154.89	152.63	-37.92	8,991.41	-1,806.27	3,222.02	3,003.02	219.00	14.712	
20,600.00	11,447.82	17,943.29	8,896.96	156.49	154.25	-37.93	9,091.40	-1,806.94	3,221.34	3,000.09	221.25	14.560	
20,700.00	11,447.36	18,043.28	8,897.37	158.09	155.87	-37.94	9,191.39	-1,807.61	3,220.66	2,997.16	223.51	14.410	
20,800.00	11,446.90	18,143.28	8,897.77	159.70	157.50	-37.95	9,291.38	-1,808.28	3,219.98	2,994.22	225.76	14.263	
20,900.00	11,446.44	18,243.27	8,898.17	161.30	159.12	-37.96	9,391.37	-1,808.96	3,219.31	2,991.29	228.02	14.119	
21,000.00	11,445.98	18,343.27	8,898.57	162.90	160.74	-37.97	9,491.36	-1,809.63	3,218.63	2,988.36	230.27	13.978	
21,100.00	11,445.52	18,443.26	8,898.97	164.51	162.37	-37.98	9,591.36	-1,810.30	3,217.95	2,985.42	232.52	13.839	
21,200.00	11,445.06	18,543.26	8,899.37	166.11	163.99	-37.99	9,691.35	-1,810.97	3,217.27	2,982.49	234.78	13.703	
21,300.00	11,444.60	18,643.25	8,899.77	167.72	165.62	-38.00	9,791.34	-1,811.64	3,216.59	2,979.55	237.04	13.570	
21,400.00	11,444.14	18,743.24	8,900.17	169.33	167.25	-38.01	9,891.33	-1,812.31	3,215.91	2,976.61	239.30	13.439	
21,500.00	11,443.67	18,843.24	8,900.57	170.94	168.87	-38.02	9,991.32	-1,812.98	3,215.23	2,973.68	241.56	13.311	
21,600.00	11,443.21	18,943.23	8,900.97	172.55	170.50	-38.03	10,091.31	-1,813.66	3,214.55	2,970.74	243.82	13.184	
21,700.00	11,442.75	19,043.23	8,901.37	174.16	172.13	-38.03	10,191.30	-1,814.33	3,213.87	2,967.79	246.08	13.060	
21,800.00	11,442.29	19,143.22	8,901.77	175.77	173.76	-38.04	10,291.29	-1,815.00	3,213.19	2,964.85	248.34	12.939	
21,862.35	11,442.00	19,199.73	8,902.00	176.77	174.68	-38.05	10,347.80	-1,815.38	3,212.77	2,963.08	249.70	12.867 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-81.47	192.81	-1,285.36	1,299.77				
100.00	100.00	90.00	90.00	0.13	0.12	-81.47	192.81	-1,285.36	1,299.74	1,299.48	0.26	5,088.795	
200.00	200.00	190.00	190.00	0.49	0.46	-81.47	192.81	-1,285.36	1,299.74	1,298.79	0.95	1,368.215	
300.00	300.00	290.00	290.00	0.85	0.82	-81.47	192.81	-1,285.36	1,299.74	1,298.07	1.67	779.736	
400.00	400.00	390.00	390.00	1.21	1.17	-81.47	192.81	-1,285.36	1,299.74	1,297.35	2.38	545.229	
500.00	500.00	490.00	490.00	1.57	1.53	-81.47	192.81	-1,285.36	1,299.74	1,296.64	3.10	419.164	
600.00	600.00	590.00	590.00	1.93	1.89	-81.47	192.81	-1,285.36	1,299.74	1,295.92	3.82	340.448	
700.00	700.00	690.00	690.00	2.29	2.25	-81.47	192.81	-1,285.36	1,299.74	1,295.20	4.53	286.622	
800.00	800.00	790.00	790.00	2.64	2.61	-81.47	192.81	-1,285.36	1,299.74	1,294.48	5.25	247.493	
900.00	900.00	890.00	890.00	3.00	2.97	-81.47	192.81	-1,285.36	1,299.74	1,293.77	5.97	217.764	
1,000.00	1,000.00	990.00	990.00	3.36	3.32	-81.47	192.81	-1,285.36	1,299.74	1,293.05	6.69	194.411	
1,100.00	1,100.00	1,090.00	1,090.00	3.72	3.68	-81.47	192.81	-1,285.36	1,299.74	1,292.33	7.40	175.582	
1,200.00	1,200.00	1,190.00	1,190.00	4.08	4.04	-81.47	192.81	-1,285.36	1,299.74	1,291.62	8.12	160.078	
1,300.00	1,300.00	1,290.00	1,290.00	4.44	4.40	-81.47	192.81	-1,285.36	1,299.74	1,290.90	8.84	147.090	
1,400.00	1,400.00	1,390.00	1,390.00	4.79	4.76	-81.47	192.81	-1,285.36	1,299.74	1,290.18	9.55	136.051	
1,500.00	1,500.00	1,490.00	1,490.00	5.15	5.12	-81.47	192.81	-1,285.36	1,299.74	1,289.47	10.27	126.554	
1,600.00	1,600.00	1,590.00	1,590.00	5.51	5.48	-81.47	192.81	-1,285.36	1,299.74	1,288.75	10.99	118.296	
1,700.00	1,700.00	1,690.00	1,690.00	5.87	5.83	-81.47	192.81	-1,285.36	1,299.74	1,288.03	11.70	111.050	
1,800.00	1,800.00	1,790.00	1,790.00	6.23	6.19	-81.47	192.81	-1,285.36	1,299.74	1,287.31	12.42	104.640	
1,900.00	1,900.00	1,890.00	1,890.00	6.59	6.55	-81.47	192.81	-1,285.36	1,299.74	1,286.60	13.14	98.930	
2,000.00	2,000.00	1,990.00	1,990.00	6.95	6.91	-81.47	192.81	-1,285.36	1,299.74	1,285.88	13.85	93.810 CC	
2,100.00	2,099.98	2,089.98	2,089.98	7.29	7.27	143.78	192.81	-1,285.36	1,301.14	1,286.59	14.56	89.388	
2,200.00	2,199.84	2,189.84	2,189.84	7.62	7.63	143.87	192.81	-1,285.36	1,305.37	1,290.13	15.24	85.634	
2,300.00	2,299.45	2,289.45	2,289.45	7.95	7.98	144.01	192.81	-1,285.36	1,312.43	1,296.49	15.93	82.373	
2,400.00	2,398.70	2,388.70	2,388.70	8.30	8.34	144.20	192.81	-1,285.36	1,322.32	1,305.70	16.62	79.545	
2,500.00	2,497.47	2,521.73	2,521.69	8.65	8.79	144.50	190.52	-1,284.16	1,333.96	1,316.55	17.41	76.618	
2,600.00	2,595.62	2,660.08	2,659.73	9.01	9.25	144.71	182.35	-1,279.89	1,345.59	1,327.40	18.19	73.973	
2,700.00	2,693.44	2,799.53	2,798.23	9.39	9.71	144.88	168.16	-1,272.48	1,355.73	1,336.76	18.97	71.457	
2,800.00	2,791.25	2,939.79	2,936.61	9.77	10.19	144.82	147.87	-1,261.87	1,362.91	1,343.15	19.76	68.961	
2,900.00	2,889.07	3,057.02	3,051.40	10.17	10.61	144.62	126.81	-1,250.87	1,367.61	1,347.09	20.52	66.663	
3,000.00	2,986.88	3,156.82	3,149.02	10.57	10.98	144.43	108.42	-1,241.27	1,372.04	1,350.80	21.24	64.589	
3,100.00	3,084.70	3,256.62	3,246.63	10.99	11.36	144.24	90.03	-1,231.66	1,376.50	1,354.52	21.98	62.618	
3,200.00	3,182.51	3,356.42	3,344.25	11.41	11.75	144.05	71.64	-1,222.05	1,380.97	1,358.23	22.73	60.746	
3,300.00	3,280.33	3,456.21	3,441.87	11.83	12.14	143.86	53.25	-1,212.44	1,385.45	1,361.96	23.50	58.968	
3,400.00	3,378.14	3,556.01	3,539.48	12.26	12.55	143.68	34.86	-1,202.83	1,389.95	1,365.68	24.27	57.279	
3,500.00	3,475.96	3,655.81	3,637.10	12.69	12.95	143.49	16.47	-1,193.22	1,394.46	1,369.41	25.05	55.675	
3,600.00	3,573.77	3,755.60	3,734.71	13.13	13.37	143.31	-1.92	-1,183.61	1,398.98	1,373.15	25.83	54.152	
3,700.00	3,671.97	3,855.39	3,832.32	13.57	13.79	143.12	-20.30	-1,174.01	1,401.94	1,375.31	26.63	52.652	
3,800.00	3,770.78	3,955.09	3,929.84	13.98	14.21	142.80	-38.68	-1,164.41	1,402.14	1,374.72	27.42	51.139	
3,900.00	3,870.05	4,054.57	4,027.14	14.38	14.64	142.37	-57.01	-1,154.83	1,399.61	1,371.41	28.21	49.618	
4,000.00	3,969.69	4,153.70	4,124.12	14.75	15.07	141.82	-75.28	-1,145.28	1,394.41	1,365.42	28.99	48.095	
4,100.00	4,069.56	4,252.38	4,220.64	15.11	15.50	141.14	-93.46	-1,135.78	1,386.60	1,356.83	29.77	46.572	
4,200.00	4,169.54	4,350.48	4,316.59	15.44	15.93	-84.88	-111.54	-1,126.34	1,376.25	1,345.71	30.55	45.055	
4,300.00	4,269.54	4,448.30	4,412.27	15.77	16.36	-85.60	-129.56	-1,116.92	1,364.95	1,333.64	31.32	43.587	
4,400.00	4,369.54	4,533.17	4,495.38	16.10	16.74	-86.22	-144.79	-1,108.96	1,354.19	1,322.14	32.04	42.263	
4,500.00	4,469.54	4,612.15	4,573.12	16.43	17.08	-86.73	-157.16	-1,102.50	1,344.95	1,312.21	32.74	41.081	
4,600.00	4,569.54	4,700.00	4,660.00	16.76	17.44	-87.21	-168.67	-1,096.49	1,337.31	1,303.86	33.45	39.977	
4,700.00	4,669.54	4,772.17	4,731.65	17.09	17.73	-87.53	-176.36	-1,092.47	1,331.12	1,297.03	34.09	39.048	
4,800.00	4,769.54	4,852.98	4,812.10	17.43	18.03	-87.81	-183.06	-1,088.97	1,326.43	1,291.69	34.74	38.181	
4,900.00	4,869.54	4,934.15	4,893.10	17.76	18.33	-88.01	-187.77	-1,086.50	1,323.19	1,287.81	35.38	37.403	
5,000.00	4,969.54	5,015.56	4,974.45	18.10	18.61	-88.13	-190.45	-1,085.10	1,321.35	1,285.36	35.99	36.711	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,069.54	5,100.66	5,059.54	18.43	18.89	-88.15	-191.12	-1,084.76	1,320.90	1,284.29	36.61	36.084	
5,200.00	5,169.54	5,200.66	5,159.54	18.77	19.22	-88.15	-191.12	-1,084.76	1,320.90	1,283.63	37.27	35.437	
5,300.00	5,269.54	5,300.66	5,259.54	19.11	19.54	-88.15	-191.12	-1,084.76	1,320.90	1,282.96	37.94	34.811	
5,400.00	5,369.54	5,400.66	5,359.54	19.45	19.86	-88.15	-191.12	-1,084.76	1,320.90	1,282.28	38.62	34.205	
5,500.00	5,469.54	5,500.66	5,459.54	19.79	20.19	-88.15	-191.12	-1,084.76	1,320.90	1,281.61	39.29	33.619	
5,600.00	5,569.54	5,600.66	5,559.54	20.13	20.52	-88.15	-191.12	-1,084.76	1,320.90	1,280.93	39.97	33.051	
5,700.00	5,669.54	5,700.66	5,659.54	20.47	20.85	-88.15	-191.12	-1,084.76	1,320.90	1,280.26	40.64	32.501	
5,800.00	5,769.54	5,800.66	5,759.54	20.81	21.17	-88.15	-191.12	-1,084.76	1,320.90	1,279.58	41.32	31.968	
5,900.00	5,869.54	5,900.66	5,859.54	21.15	21.50	-88.15	-191.12	-1,084.76	1,320.90	1,278.90	42.00	31.451	
6,000.00	5,969.54	6,000.66	5,959.54	21.49	21.84	-88.15	-191.12	-1,084.76	1,320.90	1,278.22	42.68	30.950	
6,100.00	6,069.54	6,100.66	6,059.54	21.83	22.17	-88.15	-191.12	-1,084.76	1,320.90	1,277.54	43.36	30.463	
6,200.00	6,169.54	6,200.66	6,159.54	22.18	22.50	-88.15	-191.12	-1,084.76	1,320.90	1,276.86	44.04	29.991	
6,300.00	6,269.54	6,300.66	6,259.54	22.52	22.83	-88.15	-191.12	-1,084.76	1,320.90	1,276.17	44.73	29.532	
6,400.00	6,369.54	6,400.66	6,359.54	22.87	23.17	-88.15	-191.12	-1,084.76	1,320.90	1,275.49	45.41	29.087	
6,500.00	6,469.54	6,500.66	6,459.54	23.21	23.50	-88.15	-191.12	-1,084.76	1,320.90	1,274.80	46.10	28.655	
6,600.00	6,569.54	6,600.66	6,559.54	23.56	23.84	-88.15	-191.12	-1,084.76	1,320.90	1,274.12	46.78	28.234	
6,700.00	6,669.54	6,700.66	6,659.54	23.90	24.17	-88.15	-191.12	-1,084.76	1,320.90	1,273.43	47.47	27.825	
6,800.00	6,769.54	6,800.66	6,759.54	24.25	24.51	-88.15	-191.12	-1,084.76	1,320.90	1,272.74	48.16	27.427	
6,900.00	6,869.54	6,900.66	6,859.54	24.59	24.85	-88.15	-191.12	-1,084.76	1,320.90	1,272.05	48.85	27.040	
7,000.00	6,969.54	7,000.66	6,959.54	24.94	25.19	-88.15	-191.12	-1,084.76	1,320.90	1,271.36	49.54	26.664	
7,100.00	7,069.54	7,100.66	7,059.54	25.29	25.52	-88.15	-191.12	-1,084.76	1,320.90	1,270.67	50.23	26.297	
7,200.00	7,169.54	7,200.66	7,159.54	25.63	25.86	-88.15	-191.12	-1,084.76	1,320.90	1,269.98	50.92	25.940	
7,300.00	7,269.54	7,300.66	7,259.54	25.98	26.20	-88.15	-191.12	-1,084.76	1,320.90	1,269.29	51.61	25.592	
7,400.00	7,369.54	7,400.66	7,359.54	26.33	26.54	-88.15	-191.12	-1,084.76	1,320.90	1,268.59	52.31	25.253	
7,500.00	7,469.54	7,500.66	7,459.54	26.68	26.88	-88.15	-191.12	-1,084.76	1,320.90	1,267.90	53.00	24.923	
7,600.00	7,569.54	7,600.66	7,559.54	27.03	27.22	-88.15	-191.12	-1,084.76	1,320.90	1,267.21	53.69	24.601	
7,700.00	7,669.54	7,700.66	7,659.54	27.37	27.57	-88.15	-191.12	-1,084.76	1,320.90	1,266.51	54.39	24.286	
7,800.00	7,769.54	7,800.66	7,759.54	27.72	27.91	-88.15	-191.12	-1,084.76	1,320.90	1,265.82	55.08	23.980	
7,900.00	7,869.54	7,900.66	7,859.54	28.07	28.25	-88.15	-191.12	-1,084.76	1,320.90	1,265.12	55.78	23.681	
8,000.00	7,969.54	8,000.66	7,959.54	28.42	28.59	-88.15	-191.12	-1,084.76	1,320.90	1,264.42	56.48	23.389	
8,100.00	8,069.54	8,100.66	8,059.54	28.77	28.94	-88.15	-191.12	-1,084.76	1,320.90	1,263.73	57.17	23.104	
8,200.00	8,169.54	8,200.66	8,159.54	29.12	29.28	-88.15	-191.12	-1,084.76	1,320.90	1,263.03	57.87	22.825	
8,300.00	8,269.54	8,300.66	8,259.54	29.47	29.62	-88.15	-191.12	-1,084.76	1,320.90	1,262.33	58.57	22.553	
8,303.84	8,273.38	8,304.50	8,263.38	29.48	29.64	-88.15	-191.12	-1,084.76	1,320.90	1,262.31	58.59	22.543	
8,400.00	8,369.54	8,396.41	8,355.24	29.82	29.95	-88.07	-189.26	-1,084.77	1,320.98	1,261.74	59.24	22.299 ES	
8,500.00	8,469.54	8,485.71	8,443.33	30.17	30.22	-87.46	-175.16	-1,084.86	1,321.72	1,261.88	59.83	22.090	
8,600.00	8,569.54	8,568.81	8,522.42	30.52	30.43	-86.37	-149.91	-1,085.03	1,323.66	1,263.32	60.34	21.936	
8,700.00	8,669.54	8,643.30	8,589.55	30.87	30.60	-84.99	-117.76	-1,085.24	1,327.62	1,266.87	60.76	21.852	
8,800.00	8,769.54	8,708.33	8,644.34	31.22	30.72	-83.48	-82.77	-1,085.47	1,334.50	1,273.46	61.05	21.860	
8,900.00	8,869.54	8,764.25	8,688.01	31.57	30.81	-82.00	-47.89	-1,085.71	1,345.14	1,283.94	61.21	21.977	
9,000.00	8,969.54	8,811.96	8,722.44	31.93	30.88	-80.60	-14.88	-1,085.92	1,360.20	1,298.99	61.20	22.224	
9,100.00	9,069.54	8,850.00	8,747.85	32.28	30.93	-79.41	13.42	-1,086.11	1,380.13	1,319.11	61.02	22.619	
9,200.00	9,169.54	8,887.39	8,770.94	32.63	30.98	-78.19	42.81	-1,086.31	1,405.17	1,344.47	60.70	23.149	
9,300.00	9,269.54	8,917.21	8,787.95	32.98	31.02	-77.17	67.31	-1,086.47	1,435.43	1,375.21	60.22	23.837	
9,400.00	9,369.54	8,950.00	8,805.15	33.33	31.06	-76.03	95.21	-1,086.65	1,470.88	1,411.22	59.66	24.653	
9,500.00	9,469.54	8,965.33	8,812.64	33.68	31.08	-75.49	108.58	-1,086.74	1,511.23	1,452.34	58.89	25.662	
9,600.00	9,569.54	8,984.88	8,821.67	34.04	31.11	-74.79	125.93	-1,086.86	1,556.36	1,498.26	58.10	26.788	
9,700.00	9,669.54	9,000.00	8,828.25	34.39	31.13	-74.24	139.54	-1,086.95	1,605.95	1,548.71	57.24	28.055	
9,800.00	9,769.54	9,017.31	8,835.33	34.74	31.15	-73.61	155.33	-1,087.05	1,659.67	1,603.27	56.40	29.425	
9,900.00	9,869.54	9,030.86	8,840.54	35.09	31.17	-73.11	167.84	-1,087.14	1,717.21	1,661.67	55.54	30.916	
10,000.00	9,969.54	9,050.00	8,847.39	35.45	31.20	-72.41	185.71	-1,087.25	1,778.29	1,723.53	54.76	32.474	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD						Rule Assigned:				Offset Well Error:	0.00 usft	
Measured	Reference	Measured	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning		
Depth	Vertical	Depth	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Ellipses	Separation			
Depth	Depth	Depth	Depth			Toolface	(usft)	(usft)	Centres	Between	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,100.00	10,069.54	9,050.00	8,847.39	35.80	31.20	-72.41	185.71	-1,087.25	1,842.49	1,788.63	53.86	34.209		
10,200.00	10,169.54	9,050.00	8,847.39	36.15	31.20	-72.41	185.71	-1,087.25	1,909.76	1,856.75	53.01	36.026		
10,300.00	10,269.54	9,072.69	8,854.73	36.51	31.24	-71.57	207.18	-1,087.40	1,979.34	1,926.94	52.40	37.773		
10,400.00	10,369.54	9,080.84	8,857.16	36.86	31.25	-71.27	214.96	-1,087.45	2,051.46	1,999.73	51.73	39.655		
10,500.00	10,469.54	9,100.00	8,862.43	37.21	31.28	-70.56	233.38	-1,087.57	2,125.86	2,074.65	51.21	41.516		
10,600.00	10,569.54	9,100.00	8,862.43	37.57	31.28	-70.56	233.38	-1,087.57	2,201.98	2,151.38	50.60	43.521		
10,700.00	10,669.54	9,100.00	8,862.43	37.92	31.28	-70.56	233.38	-1,087.57	2,279.94	2,229.89	50.05	45.554		
10,800.00	10,769.54	9,100.00	8,862.43	38.27	31.28	-70.56	233.38	-1,087.57	2,359.56	2,310.00	49.56	47.607		
10,900.00	10,869.54	9,100.00	8,862.43	38.63	31.28	-70.56	233.38	-1,087.57	2,440.69	2,391.55	49.14	49.672		
11,000.00	10,969.45	9,100.00	8,862.43	38.98	31.28	-62.96	233.38	-1,087.57	2,522.59	2,473.84	48.75	51.741		
11,100.00	11,067.64	9,126.37	8,868.68	39.30	31.33	-51.51	259.00	-1,087.74	2,600.87	2,552.34	48.53	53.588		
11,200.00	11,161.16	9,150.00	8,873.27	39.59	31.38	-43.21	282.17	-1,087.89	2,674.04	2,625.75	48.29	55.373		
11,300.00	11,247.17	9,150.00	8,873.27	39.83	31.38	-37.59	282.17	-1,087.89	2,739.48	2,691.54	47.93	57.151		
11,400.00	11,323.06	9,150.00	8,873.27	40.03	31.38	-33.57	282.17	-1,087.89	2,796.29	2,748.67	47.62	58.721		
11,500.00	11,386.52	9,200.00	8,879.80	40.18	31.48	-30.48	331.73	-1,088.22	2,842.81	2,795.24	47.57	59.761		
11,600.00	11,435.62	9,200.00	8,879.80	40.33	31.48	-28.65	331.73	-1,088.22	2,877.53	2,830.14	47.38	60.729		
11,700.00	11,468.88	9,200.00	8,879.80	40.54	31.48	-27.52	331.73	-1,088.22	2,900.79	2,853.48	47.31	61.317		
11,800.00	11,485.28	9,248.96	8,882.00	40.77	31.59	-26.98	380.62	-1,088.55	2,911.39	2,863.93	47.46	61.342		
11,900.00	11,486.77	9,259.80	8,882.02	41.03	31.62	-26.96	391.46	-1,088.62	2,911.17	2,863.53	47.64	61.108		
12,000.00	11,486.33	9,359.80	8,882.23	41.36	31.93	-26.97	491.45	-1,089.28	2,910.59	2,862.55	48.05	60.578		
12,100.00	11,485.90	9,459.79	8,882.44	41.74	32.32	-26.97	591.44	-1,089.95	2,910.02	2,861.49	48.53	59.959		
12,200.00	11,485.46	9,559.78	8,882.65	42.19	32.78	-26.98	691.43	-1,090.61	2,909.44	2,860.34	49.10	59.253		
12,300.00	11,485.02	9,659.77	8,882.86	42.70	33.33	-26.99	791.42	-1,091.27	2,908.87	2,859.12	49.75	58.471		
12,400.00	11,484.59	9,759.76	8,883.06	43.26	33.94	-26.99	891.41	-1,091.94	2,908.29	2,857.82	50.47	57.622		
12,500.00	11,484.15	9,859.75	8,883.27	43.88	34.63	-27.00	991.40	-1,092.60	2,907.72	2,856.45	51.27	56.717		
12,600.00	11,483.71	9,959.75	8,883.48	44.55	35.38	-27.00	1,091.39	-1,093.26	2,907.14	2,855.01	52.13	55.766		
12,700.00	11,483.27	10,059.74	8,883.69	45.27	36.18	-27.01	1,191.38	-1,093.93	2,906.56	2,853.50	53.06	54.778		
12,800.00	11,482.83	10,159.73	8,883.90	46.04	37.05	-27.01	1,291.37	-1,094.59	2,905.99	2,851.94	54.05	53.765		
12,900.00	11,482.39	10,259.72	8,884.10	46.85	37.96	-27.02	1,391.36	-1,095.26	2,905.41	2,850.32	55.10	52.733		
13,000.00	11,481.95	10,359.71	8,884.31	47.71	38.93	-27.03	1,491.35	-1,095.92	2,904.84	2,848.64	56.20	51.690		
13,100.00	11,481.52	10,459.70	8,884.52	48.61	39.94	-27.03	1,591.34	-1,096.59	2,904.26	2,846.91	57.35	50.641		
13,200.00	11,481.08	10,559.70	8,884.73	49.55	40.99	-27.04	1,691.32	-1,097.25	2,903.68	2,845.13	58.55	49.593		
13,300.00	11,480.64	10,659.69	8,884.93	50.52	42.08	-27.04	1,791.31	-1,097.92	2,903.11	2,843.31	59.80	48.550		
13,400.00	11,480.20	10,759.68	8,885.14	51.53	43.21	-27.05	1,891.30	-1,098.58	2,902.53	2,841.45	61.08	47.517		
13,500.00	11,479.75	10,859.67	8,885.35	52.57	44.37	-27.05	1,991.29	-1,099.25	2,901.96	2,839.54	62.41	46.496		
13,600.00	11,479.31	10,959.66	8,885.55	53.65	45.56	-27.06	2,091.28	-1,099.91	2,901.38	2,837.60	63.78	45.492		
13,700.00	11,478.87	11,059.65	8,885.76	54.75	46.78	-27.07	2,191.27	-1,100.58	2,900.80	2,835.63	65.18	44.506		
13,800.00	11,478.43	11,159.65	8,885.97	55.88	48.02	-27.07	2,291.26	-1,101.24	2,900.23	2,833.62	66.61	43.543		
13,900.00	11,477.99	11,259.64	8,886.17	57.03	49.29	-27.08	2,391.25	-1,101.91	2,899.65	2,831.58	68.07	42.600		
14,000.00	11,477.55	11,359.63	8,886.38	58.21	50.58	-27.08	2,491.24	-1,102.58	2,899.08	2,829.52	69.56	41.679		
14,100.00	11,477.11	11,459.62	8,886.58	59.41	51.90	-27.09	2,591.23	-1,103.24	2,898.50	2,827.43	71.07	40.782		
14,200.00	11,476.66	11,559.61	8,886.79	60.64	53.23	-27.10	2,691.22	-1,103.91	2,897.92	2,825.31	72.61	39.909		
14,300.00	11,476.22	11,659.60	8,886.99	61.88	54.58	-27.10	2,791.20	-1,104.57	2,897.35	2,823.17	74.17	39.061		
14,400.00	11,475.78	11,759.59	8,887.20	63.14	55.94	-27.11	2,891.19	-1,105.24	2,896.77	2,821.01	75.76	38.235		
14,500.00	11,475.34	11,859.59	8,887.40	64.42	57.32	-27.11	2,991.18	-1,105.91	2,896.19	2,818.83	77.37	37.435		
14,600.00	11,474.89	11,959.58	8,887.61	65.72	58.72	-27.12	3,091.17	-1,106.57	2,895.62	2,816.63	78.99	36.658		
14,700.00	11,474.45	12,059.57	8,887.81	67.03	60.13	-27.12	3,191.16	-1,107.24	2,895.04	2,814.41	80.63	35.905		
14,800.00	11,474.00	12,159.56	8,888.02	68.36	61.55	-27.13	3,291.15	-1,107.91	2,894.46	2,812.17	82.29	35.174		
14,900.00	11,473.56	12,259.55	8,888.22	69.70	62.98	-27.14	3,391.14	-1,108.57	2,893.89	2,809.92	83.97	34.465		
15,000.00	11,473.12	12,359.54	8,888.43	71.06	64.42	-27.14	3,491.13	-1,109.24	2,893.31	2,807.66	85.65	33.779		
15,100.00	11,472.67	12,459.54	8,888.63	72.43	65.87	-27.15	3,591.12	-1,109.91	2,892.73	2,805.38	87.35	33.115		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error:	0.00 usft	
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:							Offset Well Error:	0.00 usft
Measured	Reference	Measured	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Depth	Vertical	Depth	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Ellipses	Separation	Factor			
(usft)	Depth	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	(usft)	(usft)				
15,200.00	11,472.23	12,559.53	8,888.83	73.81	67.34	-27.15	3,691.11	-1,110.58	2,892.16	2,803.09	89.07	32.470			
15,300.00	11,471.78	12,659.52	8,889.04	75.20	68.81	-27.16	3,791.10	-1,111.24	2,891.58	2,800.78	90.80	31.846			
15,400.00	11,471.34	12,759.51	8,889.24	76.60	70.29	-27.17	3,891.09	-1,111.91	2,891.01	2,798.47	92.54	31.241			
15,500.00	11,470.89	12,859.50	8,889.44	78.01	71.77	-27.17	3,991.07	-1,112.58	2,890.43	2,796.14	94.29	30.654			
15,600.00	11,470.44	12,959.49	8,889.65	79.43	73.27	-27.18	4,091.06	-1,113.25	2,889.85	2,793.80	96.05	30.087			
15,700.00	11,470.00	13,059.49	8,889.85	80.86	74.77	-27.18	4,191.05	-1,113.92	2,889.28	2,791.46	97.82	29.537			
15,800.00	11,469.55	13,159.48	8,890.05	82.30	76.28	-27.19	4,291.04	-1,114.58	2,888.70	2,789.10	99.60	29.003			
15,900.00	11,469.10	13,259.47	8,890.25	83.74	77.79	-27.20	4,391.03	-1,115.25	2,888.12	2,786.73	101.39	28.485			
16,000.00	11,468.66	13,359.46	8,890.46	85.20	79.31	-27.20	4,491.02	-1,115.92	2,887.55	2,784.36	103.18	27.985			
16,100.00	11,468.21	13,459.45	8,890.66	86.66	80.83	-27.21	4,591.01	-1,116.59	2,886.97	2,781.98	104.99	27.498			
16,200.00	11,467.76	13,559.44	8,890.86	88.13	82.36	-27.21	4,691.00	-1,117.26	2,886.39	2,779.59	106.80	27.026			
16,300.00	11,467.32	13,659.43	8,891.06	89.60	83.90	-27.22	4,790.99	-1,117.93	2,885.81	2,777.20	108.62	26.568			
16,400.00	11,466.87	13,759.43	8,891.26	91.08	85.44	-27.23	4,890.98	-1,118.60	2,885.24	2,774.80	110.44	26.124			
16,500.00	11,466.42	13,859.42	8,891.46	92.57	86.98	-27.23	4,990.97	-1,119.27	2,884.66	2,772.39	112.27	25.693			
16,600.00	11,465.97	13,959.41	8,891.67	94.06	88.53	-27.24	5,090.96	-1,119.94	2,884.08	2,769.97	114.11	25.274			
16,700.00	11,465.52	14,059.40	8,891.87	95.56	90.08	-27.24	5,190.94	-1,120.61	2,883.51	2,767.55	115.95	24.868			
16,800.00	11,465.07	14,159.39	8,892.07	97.06	91.63	-27.25	5,290.93	-1,121.27	2,882.93	2,765.13	117.80	24.473			
16,900.00	11,464.62	14,259.38	8,892.27	98.57	93.19	-27.25	5,390.92	-1,121.94	2,882.35	2,762.70	119.65	24.089			
17,000.00	11,464.17	14,359.38	8,892.47	100.08	94.75	-27.26	5,490.91	-1,122.61	2,881.78	2,760.27	121.51	23.716			
17,100.00	11,463.72	14,459.37	8,892.67	101.60	96.32	-27.27	5,590.90	-1,123.28	2,881.20	2,757.83	123.37	23.354			
17,200.00	11,463.27	14,559.36	8,892.87	103.12	97.89	-27.27	5,690.89	-1,123.95	2,880.62	2,755.39	125.24	23.001			
17,300.00	11,462.82	14,659.35	8,893.07	104.65	99.46	-27.28	5,790.88	-1,124.63	2,880.05	2,752.94	127.11	22.658			
17,400.00	11,462.37	14,759.34	8,893.27	106.18	101.03	-27.28	5,890.87	-1,125.30	2,879.47	2,750.49	128.98	22.324			
17,500.00	11,461.92	14,859.33	8,893.47	107.71	102.61	-27.29	5,990.86	-1,125.97	2,878.89	2,748.03	130.86	22.000			
17,600.00	11,461.47	14,959.33	8,893.67	109.25	104.19	-27.30	6,090.85	-1,126.64	2,878.31	2,745.57	132.74	21.684			
17,700.00	11,461.02	15,059.32	8,893.87	110.79	105.77	-27.30	6,190.84	-1,127.31	2,877.74	2,743.11	134.62	21.376			
17,800.00	11,460.57	15,159.31	8,894.07	112.33	107.35	-27.31	6,290.83	-1,127.98	2,877.16	2,740.65	136.51	21.076			
17,900.00	11,460.12	15,259.30	8,894.27	113.88	108.94	-27.31	6,390.81	-1,128.65	2,876.58	2,738.18	138.40	20.784			
18,000.00	11,459.66	15,359.29	8,894.46	115.43	110.52	-27.32	6,490.80	-1,129.32	2,876.01	2,735.71	140.30	20.500			
18,100.00	11,459.21	15,459.28	8,894.66	116.98	112.11	-27.33	6,590.79	-1,129.99	2,875.43	2,733.24	142.19	20.222			
18,200.00	11,458.76	15,559.28	8,894.86	118.54	113.70	-27.33	6,690.78	-1,130.66	2,874.85	2,730.76	144.09	19.951			
18,300.00	11,458.31	15,659.27	8,895.06	120.09	115.30	-27.34	6,790.77	-1,131.34	2,874.27	2,728.28	145.99	19.688			
18,400.00	11,457.85	15,759.26	8,895.26	121.66	116.89	-27.34	6,890.76	-1,132.01	2,873.70	2,725.80	147.90	19.431			
18,500.00	11,457.40	15,859.25	8,895.46	123.22	118.49	-27.35	6,990.75	-1,132.68	2,873.12	2,723.32	149.80	19.180			
18,600.00	11,456.95	15,959.24	8,895.65	124.78	120.09	-27.36	7,090.74	-1,133.35	2,872.54	2,720.83	151.71	18.934			
18,700.00	11,456.49	16,059.23	8,895.85	126.35	121.69	-27.36	7,190.73	-1,134.02	2,871.96	2,718.34	153.62	18.695			
18,800.00	11,456.04	16,159.22	8,896.05	127.92	123.29	-27.37	7,290.72	-1,134.70	2,871.39	2,715.86	155.53	18.462			
18,900.00	11,455.58	16,259.22	8,896.24	129.50	124.89	-27.37	7,390.71	-1,135.37	2,870.81	2,713.37	157.44	18.234			
19,000.00	11,455.13	16,359.21	8,896.44	131.07	126.50	-27.38	7,490.70	-1,136.04	2,870.23	2,710.87	159.36	18.011			
19,100.00	11,454.67	16,459.20	8,896.64	132.65	128.10	-27.39	7,590.68	-1,136.71	2,869.65	2,708.38	161.28	17.793			
19,200.00	11,454.22	16,559.19	8,896.83	134.22	129.71	-27.39	7,690.67	-1,137.39	2,869.08	2,705.88	163.19	17.581			
19,300.00	11,453.76	16,659.18	8,897.03	135.80	131.32	-27.40	7,790.66	-1,138.06	2,868.50	2,703.38	165.12	17.373			
19,400.00	11,453.31	16,759.17	8,897.23	137.39	132.92	-27.40	7,890.65	-1,138.73	2,867.92	2,700.88	167.04	17.169			
19,500.00	11,452.85	16,859.17	8,897.42	138.97	134.53	-27.41	7,990.64	-1,139.41	2,867.34	2,698.38	168.96	16.970			
19,600.00	11,452.39	16,959.16	8,897.62	140.56	136.15	-27.42	8,090.63	-1,140.08	2,866.77	2,695.88	170.89	16.776			
19,700.00	11,451.94	17,059.15	8,897.82	142.14	137.76	-27.42	8,190.62	-1,140.75	2,866.19	2,693.38	172.81	16.586			
19,800.00	11,451.48	17,159.14	8,898.01	143.73	139.37	-27.43	8,290.61	-1,141.43	2,865.61	2,690.87	174.74	16.399			
19,900.00	11,451.02	17,259.13	8,898.21	145.32	140.99	-27.44	8,390.60	-1,142.10	2,865.03	2,688.37	176.67	16.217			
20,000.00	11,450.57	17,359.12	8,898.40	146.91	142.60	-27.44	8,490.59	-1,142.77	2,864.46	2,685.86	178.60	16.039			
20,100.00	11,450.11	17,459.12	8,898.60	148.51	144.22	-27.45	8,590.58	-1,143.45	2,863.88	2,683.35	180.53	15.864			
20,200.00	11,449.65	17,559.11	8,898.79	150.10	145.84	-27.45	8,690.57	-1,144.12	2,863.30	2,680.84	182.46	15.693			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
20,300.00	11,449.19	17,659.10	8,898.99	151.70	147.45	-27.46	8,790.55	-1,144.80	2,862.72	2,678.33	184.39	15.525	
20,400.00	11,448.73	17,759.09	8,899.18	153.29	149.07	-27.47	8,890.54	-1,145.47	2,862.15	2,675.82	186.32	15.361	
20,500.00	11,448.27	17,859.08	8,899.37	154.89	150.69	-27.47	8,990.53	-1,146.15	2,861.57	2,673.31	188.26	15.200	
20,600.00	11,447.82	17,959.07	8,899.57	156.49	152.31	-27.48	9,090.52	-1,146.82	2,860.99	2,670.80	190.19	15.043	
20,700.00	11,447.36	18,059.07	8,899.76	158.09	153.93	-27.48	9,190.51	-1,147.49	2,860.41	2,668.29	192.13	14.888	
20,800.00	11,446.90	18,159.06	8,899.96	159.70	155.56	-27.49	9,290.50	-1,148.17	2,859.83	2,665.77	194.06	14.737	
20,900.00	11,446.44	18,259.05	8,900.15	161.30	157.18	-27.50	9,390.49	-1,148.84	2,859.26	2,663.26	196.00	14.588	
21,000.00	11,445.98	18,359.04	8,900.34	162.90	158.80	-27.50	9,490.48	-1,149.52	2,858.68	2,660.74	197.94	14.442	
21,100.00	11,445.52	18,459.03	8,900.54	164.51	160.43	-27.51	9,590.47	-1,150.20	2,858.10	2,658.23	199.87	14.300	
21,200.00	11,445.06	18,559.02	8,900.73	166.11	162.05	-27.51	9,690.46	-1,150.87	2,857.52	2,655.71	201.81	14.159	
21,300.00	11,444.60	18,659.02	8,900.92	167.72	163.68	-27.52	9,790.45	-1,151.55	2,856.94	2,653.19	203.75	14.022	
21,400.00	11,444.14	18,759.01	8,901.12	169.33	165.30	-27.53	9,890.44	-1,152.22	2,856.37	2,650.68	205.69	13.887	
21,500.00	11,443.67	18,859.00	8,901.31	170.94	166.93	-27.53	9,990.42	-1,152.90	2,855.79	2,648.16	207.63	13.754	
21,600.00	11,443.21	18,958.99	8,901.50	172.55	168.56	-27.54	10,090.41	-1,153.57	2,855.21	2,645.64	209.57	13.624	
21,700.00	11,442.75	19,058.98	8,901.69	174.16	170.18	-27.55	10,190.40	-1,154.25	2,854.63	2,643.12	211.51	13.496	
21,800.00	11,442.29	19,158.97	8,901.88	175.77	171.81	-27.55	10,290.39	-1,154.93	2,854.05	2,640.60	213.45	13.371	
21,862.35	11,442.00	19,219.38	8,902.00	176.77	172.80	-27.55	10,350.79	-1,155.34	2,853.69	2,639.05	214.65	13.295 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-14.43	199.71	-51.40	206.22				
100.00	100.00	100.00	100.00	0.13	0.13	-14.43	199.71	-51.40	206.22	205.95	0.27	767.025	
200.00	200.00	200.00	200.00	0.49	0.49	-14.43	199.71	-51.40	206.22	205.23	0.99	209.189	
300.00	300.00	300.00	300.00	0.85	0.85	-14.43	199.71	-51.40	206.22	204.51	1.70	121.109	
400.00	400.00	400.00	400.00	1.21	1.21	-14.43	199.71	-51.40	206.22	203.80	2.42	85.225	
500.00	500.00	500.00	500.00	1.57	1.57	-14.43	199.71	-51.40	206.22	203.08	3.14	65.745	
600.00	600.00	600.00	600.00	1.93	1.93	-14.43	199.71	-51.40	206.22	202.36	3.85	53.513	
700.00	700.00	700.00	700.00	2.29	2.29	-14.43	199.71	-51.40	206.22	201.65	4.57	45.119	
800.00	800.00	800.00	800.00	2.64	2.64	-14.43	199.71	-51.40	206.22	200.93	5.29	39.001	
900.00	900.00	900.00	900.00	3.00	3.00	-14.43	199.71	-51.40	206.22	200.21	6.00	34.344	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-14.43	199.71	-51.40	206.22	199.50	6.72	30.681	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-14.43	199.71	-51.40	206.22	198.78	7.44	27.724	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-14.43	199.71	-51.40	206.22	198.06	8.16	25.287	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-14.43	199.71	-51.40	206.22	197.35	8.87	23.243	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-14.43	199.71	-51.40	206.22	196.63	9.59	21.505	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-14.43	199.71	-51.40	206.22	195.91	10.31	20.009	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-14.43	199.71	-51.40	206.22	195.19	11.02	18.708	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-14.43	199.71	-51.40	206.22	194.48	11.74	17.565	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-14.43	199.71	-51.40	206.22	193.76	12.46	16.555	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-14.43	199.71	-51.40	206.22	193.04	13.17	15.654	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-14.43	199.71	-51.40	206.22	192.33	13.89	14.846 CC, ES	
2,100.00	2,099.98	2,099.98	2,099.98	7.29	7.30	-149.44	199.71	-51.40	207.72	193.13	14.59	14.235	
2,200.00	2,199.84	2,199.84	2,199.84	7.62	7.66	-150.12	199.71	-51.40	212.24	196.96	15.28	13.889	
2,300.00	2,299.45	2,303.31	2,303.29	7.95	8.02	-151.65	198.37	-52.70	218.97	203.00	15.97	13.714	
2,400.00	2,398.70	2,406.16	2,405.98	8.30	8.36	-154.30	194.37	-56.55	227.33	210.70	16.64	13.664	
2,500.00	2,497.47	2,508.00	2,507.41	8.65	8.70	-157.86	187.80	-62.89	237.95	220.63	17.31	13.745	
2,600.00	2,595.62	2,608.47	2,607.09	9.01	9.04	-162.08	178.79	-71.59	251.53	233.54	17.99	13.983	
2,700.00	2,693.44	2,707.62	2,704.96	9.39	9.38	-166.69	167.43	-82.54	267.16	248.48	18.67	14.307	
2,800.00	2,791.25	2,805.48	2,800.98	9.77	9.73	-171.39	153.83	-95.66	283.71	264.34	19.37	14.649	
2,900.00	2,889.07	2,901.22	2,894.63	10.17	10.09	-175.76	139.51	-109.48	301.80	281.73	20.06	15.041	
3,000.00	2,886.88	2,996.96	2,988.28	10.57	10.46	-179.63	125.18	-123.29	321.47	300.70	20.77	15.478	
3,100.00	3,084.70	3,092.70	3,081.92	10.99	10.83	-176.93	110.85	-137.11	342.45	320.97	21.48	15.941	
3,200.00	3,182.51	3,188.43	3,175.57	11.41	11.21	-173.89	96.53	-150.93	364.51	342.31	22.20	16.417	
3,300.00	3,280.33	3,284.17	3,269.21	11.83	11.60	-171.19	82.20	-164.75	387.47	364.54	22.93	16.897	
3,400.00	3,378.14	3,379.91	3,362.86	12.26	11.99	-168.79	67.88	-178.57	411.18	387.51	23.67	17.373	
3,500.00	3,475.96	3,475.65	3,456.51	12.69	12.39	-166.64	53.55	-192.39	435.51	411.10	24.41	17.840	
3,600.00	3,573.77	3,571.39	3,550.16	13.13	12.80	-164.73	39.22	-206.21	460.36	435.20	25.16	18.296	
3,700.00	3,671.97	3,667.50	3,644.17	13.57	13.21	-163.07	24.84	-220.09	483.83	457.91	25.92	18.667	
3,800.00	3,770.78	3,764.19	3,738.74	13.98	13.62	-161.45	10.37	-234.04	504.49	477.80	26.68	18.908	
3,900.00	3,870.05	3,861.33	3,833.76	14.38	14.05	-159.83	-4.16	-248.06	522.36	494.91	27.44	19.033	
4,000.00	3,969.69	3,958.81	3,929.11	14.75	14.48	-158.17	-18.75	-262.13	537.49	509.28	28.21	19.054	
4,100.00	4,069.56	4,056.52	4,024.68	15.11	14.91	-156.46	-33.37	-276.24	549.94	520.97	28.97	18.983	
4,200.00	4,169.54	4,154.32	4,120.35	15.44	15.34	-154.55	-48.01	-290.36	559.79	530.07	29.72	18.834	
4,300.00	4,269.54	4,252.13	4,216.02	15.77	15.78	-152.43	-62.64	-304.47	568.89	538.42	30.47	18.671	
4,400.00	4,369.54	4,349.95	4,311.70	16.10	16.22	-150.24	-77.28	-318.59	578.60	547.38	31.22	18.535	
4,500.00	4,469.54	4,447.76	4,407.38	16.43	16.67	-148.17	-91.92	-332.71	588.87	556.91	31.96	18.425	
4,600.00	4,569.54	4,545.58	4,503.06	16.76	17.11	-146.09	-106.55	-346.83	599.70	567.00	32.70	18.338	
4,700.00	4,669.54	4,643.39	4,598.73	17.09	17.56	-144.00	-121.19	-360.95	611.04	577.60	33.44	18.272	
4,800.00	4,769.54	4,741.21	4,694.41	17.43	18.01	-141.91	-135.83	-375.07	622.87	588.69	34.18	18.224	
4,900.00	4,869.54	4,847.37	4,798.39	17.76	18.49	-139.82	-151.23	-389.93	634.80	599.81	34.99	18.143	
5,000.00	4,969.54	4,961.51	4,910.92	18.10	18.99	-137.73	-164.94	-403.15	644.97	609.11	35.85	17.990	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft		
Measured	Reference	Measured	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Vertical Depth (usft)	Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,100.00	5,069.54	5,077.02	5,025.49	18.43	19.46	-84.88	-175.51	-413.35	652.90	616.21	36.69	17.795		
5,200.00	5,169.54	5,193.54	5,141.56	18.77	19.90	-85.57	-182.80	-420.39	658.41	620.91	37.50	17.559		
5,300.00	5,269.54	5,310.70	5,258.58	19.11	20.31	-85.93	-186.70	-424.15	661.37	623.10	38.26	17.285		
5,400.00	5,369.54	5,421.67	5,369.54	19.45	20.67	-85.99	-187.39	-424.81	661.89	622.92	38.97	16.984		
5,500.00	5,469.54	5,521.67	5,469.54	19.79	20.98	-85.99	-187.39	-424.81	661.89	622.25	39.64	16.699		
5,600.00	5,569.54	5,621.67	5,569.54	20.13	21.30	-85.99	-187.39	-424.81	661.89	621.59	40.31	16.422		
5,700.00	5,669.54	5,721.67	5,669.54	20.47	21.62	-85.99	-187.39	-424.81	661.89	620.92	40.98	16.153		
5,800.00	5,769.54	5,821.67	5,769.54	20.81	21.93	-85.99	-187.39	-424.81	661.89	620.24	41.65	15.893		
5,900.00	5,869.54	5,921.67	5,869.54	21.15	22.25	-85.99	-187.39	-424.81	661.89	619.57	42.32	15.640		
6,000.00	5,969.54	6,021.67	5,969.54	21.49	22.57	-85.99	-187.39	-424.81	661.89	618.90	42.99	15.395		
6,100.00	6,069.54	6,121.67	6,069.54	21.83	22.89	-85.99	-187.39	-424.81	661.89	618.22	43.67	15.157		
6,200.00	6,169.54	6,221.67	6,169.54	22.18	23.21	-85.99	-187.39	-424.81	661.89	617.54	44.35	14.926		
6,300.00	6,269.54	6,321.67	6,269.54	22.52	23.54	-85.99	-187.39	-424.81	661.89	616.87	45.02	14.701		
6,400.00	6,369.54	6,421.67	6,369.54	22.87	23.86	-85.99	-187.39	-424.81	661.89	616.19	45.70	14.482		
6,500.00	6,469.54	6,521.67	6,469.54	23.21	24.19	-85.99	-187.39	-424.81	661.89	615.51	46.38	14.270		
6,600.00	6,569.54	6,621.67	6,569.54	23.56	24.51	-85.99	-187.39	-424.81	661.89	614.83	47.06	14.063		
6,700.00	6,669.54	6,721.67	6,669.54	23.90	24.84	-85.99	-187.39	-424.81	661.89	614.14	47.75	13.862		
6,800.00	6,769.54	6,821.67	6,769.54	24.25	25.17	-85.99	-187.39	-424.81	661.89	613.46	48.43	13.667		
6,900.00	6,869.54	6,921.67	6,869.54	24.59	25.50	-85.99	-187.39	-424.81	661.89	612.78	49.11	13.476		
7,000.00	6,969.54	7,021.67	6,969.54	24.94	25.83	-85.99	-187.39	-424.81	661.89	612.09	49.80	13.291		
7,100.00	7,069.54	7,121.67	7,069.54	25.29	26.16	-85.99	-187.39	-424.81	661.89	611.40	50.49	13.110		
7,200.00	7,169.54	7,221.67	7,169.54	25.63	26.49	-85.99	-187.39	-424.81	661.89	610.72	51.17	12.934		
7,300.00	7,269.54	7,321.67	7,269.54	25.98	26.82	-85.99	-187.39	-424.81	661.89	610.03	51.86	12.763		
7,400.00	7,369.54	7,421.67	7,369.54	26.33	27.15	-85.99	-187.39	-424.81	661.89	609.34	52.55	12.596		
7,500.00	7,469.54	7,521.67	7,469.54	26.68	27.48	-85.99	-187.39	-424.81	661.89	608.65	53.24	12.432		
7,600.00	7,569.54	7,621.67	7,569.54	27.03	27.82	-85.99	-187.39	-424.81	661.89	607.96	53.93	12.273		
7,700.00	7,669.54	7,721.67	7,669.54	27.37	28.15	-85.99	-187.39	-424.81	661.89	607.27	54.62	12.118		
7,800.00	7,769.54	7,821.67	7,769.54	27.72	28.49	-85.99	-187.39	-424.81	661.89	606.58	55.31	11.967		
7,900.00	7,869.54	7,921.67	7,869.54	28.07	28.82	-85.99	-187.39	-424.81	661.89	605.89	56.00	11.819		
8,000.00	7,969.54	8,021.67	7,969.54	28.42	29.16	-85.99	-187.39	-424.81	661.89	605.20	56.70	11.674		
8,100.00	8,069.54	8,121.67	8,069.54	28.77	29.50	-85.99	-187.39	-424.81	661.89	604.50	57.39	11.533		
8,200.00	8,169.54	8,221.67	8,169.54	29.12	29.83	-85.99	-187.39	-424.81	661.89	603.81	58.08	11.396		
8,300.00	8,269.54	8,321.67	8,269.54	29.47	30.17	-85.99	-187.39	-424.81	661.89	603.11	58.78	11.261		
8,304.41	8,273.95	8,326.08	8,273.95	29.49	30.18	-85.99	-187.39	-424.81	661.89	603.08	58.81	11.255		
8,400.00	8,369.54	8,418.32	8,366.17	29.82	30.49	-85.89	-186.19	-424.82	661.99	602.54	59.46	11.134		
8,500.00	8,469.54	8,508.14	8,454.98	30.17	30.76	-84.79	-173.38	-424.91	663.27	603.18	60.09	11.039		
8,600.00	8,569.54	8,592.07	8,535.21	30.52	30.98	-82.70	-149.01	-425.07	666.81	606.19	60.63	10.999 SF		
8,700.00	8,669.54	8,667.52	8,603.63	30.87	31.13	-80.01	-117.31	-425.28	674.13	613.13	61.00	11.052		
8,800.00	8,769.54	8,733.53	8,659.61	31.22	31.25	-77.11	-82.41	-425.51	686.90	625.81	61.10	11.243		
8,900.00	8,869.54	8,790.34	8,704.31	31.57	31.32	-74.27	-47.40	-425.74	706.53	645.71	60.82	11.617		
9,000.00	8,969.54	8,838.83	8,739.56	31.93	31.38	-71.64	-14.13	-425.96	733.87	673.74	60.13	12.205		
9,100.00	9,069.54	8,880.15	8,767.30	32.28	31.41	-69.29	16.49	-426.16	769.20	710.13	59.07	13.022		
9,200.00	9,169.54	8,915.44	8,789.18	32.63	31.44	-67.23	44.17	-426.35	812.31	754.58	57.73	14.071		
9,300.00	9,269.54	8,950.00	8,808.93	32.98	31.46	-65.18	72.53	-426.54	862.64	806.32	56.32	15.318		
9,400.00	9,369.54	8,971.81	8,820.49	33.33	31.46	-63.88	91.02	-426.66	919.38	864.71	54.68	16.815		
9,500.00	9,469.54	9,000.00	8,834.38	33.68	31.47	-62.20	115.54	-426.82	981.82	928.56	53.26	18.433		
9,600.00	9,569.54	9,000.00	8,834.38	34.04	31.47	-62.20	115.54	-426.82	1,049.29	997.83	51.46	20.391		
9,700.00	9,669.54	9,031.69	8,848.54	34.39	31.48	-60.32	143.89	-427.01	1,120.47	1,070.05	50.42	22.224		
9,800.00	9,769.54	9,050.00	8,855.99	34.74	31.48	-59.25	160.61	-427.12	1,195.42	1,146.12	49.30	24.250		
9,900.00	9,869.54	9,050.00	8,855.99	35.09	31.48	-59.25	160.61	-427.12	1,273.47	1,225.43	48.04	26.506		
10,000.00	9,969.54	9,073.03	8,864.61	35.45	31.49	-57.91	181.98	-427.26	1,353.82	1,306.49	47.32	28.608		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:							Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor			
10,100.00	10,069.54	9,100.00	8,873.59	35.80	31.49	-56.36	207.40	-427.43	1,436.74	1,389.97	46.78	30.713			
10,200.00	10,169.54	9,100.00	8,873.59	36.15	31.49	-56.36	207.40	-427.43	1,520.99	1,475.01	45.98	33.076			
10,300.00	10,269.54	9,100.00	8,873.59	36.51	31.49	-56.36	207.40	-427.43	1,607.05	1,561.73	45.32	35.460			
10,400.00	10,369.54	9,100.00	8,873.59	36.86	31.49	-56.36	207.40	-427.43	1,694.64	1,649.86	44.78	37.848			
10,500.00	10,469.54	9,118.74	8,879.13	37.21	31.49	-55.31	225.30	-427.55	1,783.15	1,738.61	44.54	40.035			
10,600.00	10,569.54	9,125.63	8,881.02	37.57	31.49	-54.92	231.93	-427.59	1,872.84	1,828.59	44.25	42.327			
10,700.00	10,669.54	9,150.00	8,887.05	37.92	31.50	-53.59	255.53	-427.75	1,963.78	1,919.58	44.20	44.430			
10,800.00	10,769.54	9,150.00	8,887.05	38.27	31.50	-53.59	255.53	-427.75	2,054.98	2,011.01	43.97	46.740			
10,900.00	10,869.54	9,150.00	8,887.05	38.63	31.50	-53.59	255.53	-427.75	2,146.96	2,103.16	43.80	49.020			
11,000.00	10,969.45	9,150.00	8,887.05	38.98	31.50	-43.73	255.53	-427.75	2,238.95	2,195.29	43.67	51.272			
11,100.00	11,067.64	9,150.00	8,887.05	39.30	31.50	-32.40	255.53	-427.75	2,326.77	2,283.27	43.50	53.491			
11,200.00	11,161.16	9,150.00	8,887.05	39.59	31.50	-25.63	255.53	-427.75	2,408.02	2,364.72	43.30	55.612			
11,300.00	11,247.17	9,200.00	8,896.26	39.83	31.52	-20.97	304.66	-428.08	2,480.39	2,436.97	43.42	57.127			
11,400.00	11,323.06	9,200.00	8,896.26	40.03	31.52	-18.33	304.66	-428.08	2,542.15	2,498.96	43.19	58.860			
11,500.00	11,386.52	9,200.00	8,896.26	40.18	31.52	-16.56	304.66	-428.08	2,592.93	2,549.93	43.00	60.300			
11,600.00	11,435.62	9,228.24	8,899.56	40.33	31.55	-15.34	332.70	-428.26	2,631.04	2,588.05	42.99	61.200			
11,700.00	11,468.88	9,250.00	8,901.15	40.54	31.59	-14.64	354.41	-428.41	2,656.16	2,613.15	43.01	61.762			
11,800.00	11,485.28	9,263.91	8,901.74	40.77	31.61	-14.34	368.30	-428.50	2,667.64	2,624.55	43.08	61.919			
11,900.00	11,486.77	9,288.73	8,902.01	41.03	31.66	-14.32	393.11	-428.66	2,667.69	2,624.40	43.28	61.632			
12,000.00	11,486.33	9,388.72	8,902.11	41.36	31.96	-14.33	493.11	-429.33	2,667.16	2,623.47	43.70	61.038			
12,100.00	11,485.90	9,488.72	8,902.22	41.74	32.36	-14.33	593.10	-429.99	2,666.64	2,622.47	44.17	60.369			
12,200.00	11,485.46	9,588.71	8,902.32	42.19	32.83	-14.33	693.10	-430.65	2,666.11	2,621.40	44.71	59.632			
12,300.00	11,485.02	9,688.71	8,902.42	42.70	33.38	-14.33	793.09	-431.32	2,665.59	2,620.28	45.31	58.834			
12,400.00	11,484.59	9,788.70	8,902.53	43.26	33.99	-14.34	893.08	-431.98	2,665.06	2,619.10	45.96	57.987			
12,500.00	11,484.15	9,888.70	8,902.63	43.88	34.67	-14.34	993.07	-432.64	2,664.54	2,617.87	46.67	57.097			
12,600.00	11,483.71	9,988.69	8,902.74	44.55	35.41	-14.34	1,093.07	-433.31	2,664.01	2,616.59	47.43	56.173			
12,700.00	11,483.27	10,088.69	8,902.84	45.27	36.22	-14.35	1,193.06	-433.97	2,663.49	2,615.25	48.23	55.221			
12,800.00	11,482.83	10,188.69	8,902.95	46.04	37.07	-14.35	1,293.05	-434.64	2,662.96	2,613.87	49.09	54.248			
12,900.00	11,482.39	10,288.68	8,903.05	46.85	37.98	-14.35	1,393.05	-435.30	2,662.44	2,612.45	49.99	53.261			
13,000.00	11,481.95	10,388.68	8,903.15	47.71	38.94	-14.35	1,493.04	-435.96	2,661.91	2,610.98	50.93	52.265			
13,100.00	11,481.52	10,488.67	8,903.26	48.61	39.94	-14.36	1,593.03	-436.63	2,661.38	2,609.47	51.91	51.267			
13,200.00	11,481.08	10,588.67	8,903.36	49.55	40.98	-14.36	1,693.03	-437.29	2,660.86	2,607.93	52.93	50.270			
13,300.00	11,480.64	10,688.66	8,903.46	50.52	42.07	-14.36	1,793.02	-437.96	2,660.33	2,606.35	53.98	49.281			
13,400.00	11,480.20	10,788.66	8,903.57	51.53	43.19	-14.37	1,893.01	-438.62	2,659.80	2,604.74	55.07	48.301			
13,500.00	11,479.75	10,888.65	8,903.67	52.57	44.34	-14.37	1,993.01	-439.29	2,659.28	2,603.09	56.18	47.332			
13,600.00	11,479.31	10,988.65	8,903.77	53.65	45.52	-14.37	2,093.00	-439.95	2,658.75	2,601.42	57.33	46.378			
13,700.00	11,478.87	11,088.65	8,903.88	54.75	46.73	-14.38	2,192.99	-440.62	2,658.22	2,599.72	58.50	45.439			
13,800.00	11,478.43	11,188.64	8,903.98	55.88	47.97	-14.38	2,292.99	-441.28	2,657.70	2,598.00	59.70	44.518			
13,900.00	11,477.99	11,288.64	8,904.08	57.03	49.23	-14.38	2,392.98	-441.95	2,657.17	2,596.25	60.92	43.616			
14,000.00	11,477.55	11,388.63	8,904.19	58.21	50.52	-14.38	2,492.97	-442.61	2,656.64	2,594.47	62.17	42.733			
14,100.00	11,477.11	11,488.63	8,904.29	59.41	51.83	-14.39	2,592.97	-443.28	2,656.11	2,592.68	63.44	41.871			
14,200.00	11,476.66	11,588.62	8,904.39	60.64	53.15	-14.39	2,692.96	-443.95	2,655.59	2,590.86	64.72	41.031			
14,300.00	11,476.22	11,688.62	8,904.49	61.88	54.49	-14.39	2,792.95	-444.61	2,655.06	2,589.03	66.03	40.212			
14,400.00	11,475.78	11,788.61	8,904.60	63.14	55.85	-14.40	2,892.95	-445.28	2,654.53	2,587.18	67.35	39.413			
14,500.00	11,475.34	11,888.61	8,904.70	64.42	57.23	-14.40	2,992.94	-445.94	2,654.00	2,585.31	68.69	38.636			
14,600.00	11,474.89	11,988.61	8,904.80	65.72	58.62	-14.40	3,092.93	-446.61	2,653.47	2,583.42	70.05	37.881			
14,700.00	11,474.45	12,088.60	8,904.90	67.03	60.02	-14.40	3,192.93	-447.28	2,652.94	2,581.53	71.42	37.147			
14,800.00	11,474.00	12,188.60	8,905.01	68.36	61.44	-14.41	3,292.92	-447.94	2,652.42	2,579.61	72.80	36.433			
14,900.00	11,473.56	12,288.59	8,905.11	69.70	62.87	-14.41	3,392.91	-448.61	2,651.89	2,577.69	74.20	35.739			
15,000.00	11,473.12	12,388.59	8,905.21	71.06	64.31	-14.41	3,492.91	-449.28	2,651.36	2,575.74	75.61	35.065			
15,100.00	11,472.67	12,488.58	8,905.31	72.43	65.75	-14.42	3,592.90	-449.94	2,650.83	2,573.79	77.04	34.410			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,200.00	11,472.23	12,588.58	8,905.41	73.81	67.21	-14.42	3,692.89	-450.61	2,650.30	2,571.83	78.47	33.774		
15,300.00	11,471.78	12,688.57	8,905.52	75.20	68.68	-14.42	3,792.89	-451.28	2,649.77	2,569.85	79.92	33.157		
15,400.00	11,471.34	12,788.57	8,905.62	76.60	70.16	-14.43	3,892.88	-451.94	2,649.24	2,567.87	81.37	32.557		
15,500.00	11,470.89	12,888.56	8,905.72	78.01	71.64	-14.43	3,992.87	-452.61	2,648.71	2,565.87	82.84	31.976		
15,600.00	11,470.44	12,988.56	8,905.82	79.43	73.13	-14.43	4,092.87	-453.28	2,648.18	2,563.87	84.31	31.410		
15,700.00	11,470.00	13,088.56	8,905.92	80.86	74.63	-14.43	4,192.86	-453.95	2,647.65	2,561.86	85.79	30.862		
15,800.00	11,469.55	13,188.55	8,906.02	82.30	76.13	-14.44	4,292.85	-454.61	2,647.12	2,559.84	87.28	30.330		
15,900.00	11,469.10	13,288.55	8,906.12	83.74	77.64	-14.44	4,392.84	-455.28	2,646.59	2,557.82	88.77	29.813		
16,000.00	11,468.66	13,388.54	8,906.23	85.20	79.16	-14.44	4,492.84	-455.95	2,646.06	2,555.78	90.28	29.310		
16,100.00	11,468.21	13,488.54	8,906.33	86.66	80.68	-14.45	4,592.83	-456.62	2,645.53	2,553.74	91.79	28.822		
16,200.00	11,467.76	13,588.53	8,906.43	88.13	82.21	-14.45	4,692.82	-457.29	2,645.00	2,551.69	93.31	28.348		
16,300.00	11,467.32	13,688.53	8,906.53	89.60	83.74	-14.45	4,792.82	-457.95	2,644.47	2,549.64	94.83	27.886		
16,400.00	11,466.87	13,788.52	8,906.63	91.08	85.28	-14.46	4,892.81	-458.62	2,643.93	2,547.57	96.36	27.438		
16,500.00	11,466.42	13,888.52	8,906.73	92.57	86.82	-14.46	4,992.80	-459.29	2,643.40	2,545.51	97.90	27.002		
16,600.00	11,465.97	13,988.52	8,906.83	94.06	88.36	-14.46	5,092.80	-459.96	2,642.87	2,543.43	99.44	26.578		
16,700.00	11,465.52	14,088.51	8,906.93	95.56	89.91	-14.46	5,192.79	-460.63	2,642.34	2,541.35	100.98	26.166		
16,800.00	11,465.07	14,188.51	8,907.03	97.06	91.47	-14.47	5,292.78	-461.30	2,641.81	2,539.27	102.53	25.765		
16,900.00	11,464.62	14,288.50	8,907.13	98.57	93.02	-14.47	5,392.78	-461.96	2,641.28	2,537.19	104.09	25.376		
17,000.00	11,464.17	14,388.50	8,907.23	100.08	94.58	-14.47	5,492.77	-462.63	2,640.74	2,535.10	105.65	24.996		
17,100.00	11,463.72	14,488.49	8,907.33	101.60	96.15	-14.48	5,592.76	-463.30	2,640.21	2,533.00	107.21	24.627		
17,200.00	11,463.27	14,588.49	8,907.43	103.12	97.71	-14.48	5,692.76	-463.97	2,639.68	2,530.90	108.78	24.267		
17,300.00	11,462.82	14,688.48	8,907.53	104.65	99.28	-14.48	5,792.75	-464.64	2,639.15	2,528.80	110.35	23.917		
17,400.00	11,462.37	14,788.48	8,907.63	106.18	100.85	-14.49	5,892.74	-465.31	2,638.61	2,526.69	111.92	23.575		
17,500.00	11,461.92	14,888.47	8,907.73	107.71	102.43	-14.49	5,992.74	-465.98	2,638.08	2,524.58	113.50	23.243		
17,600.00	11,461.47	14,988.47	8,907.83	109.25	104.01	-14.49	6,092.73	-466.65	2,637.55	2,522.46	115.08	22.918		
17,700.00	11,461.02	15,088.47	8,907.93	110.79	105.58	-14.49	6,192.72	-467.32	2,637.01	2,520.34	116.67	22.602		
17,800.00	11,460.57	15,188.46	8,908.03	112.33	107.17	-14.50	6,292.72	-467.99	2,636.48	2,518.22	118.26	22.294		
17,900.00	11,460.12	15,288.46	8,908.13	113.88	108.75	-14.50	6,392.71	-468.66	2,635.95	2,516.10	119.85	21.994		
18,000.00	11,459.66	15,388.45	8,908.23	115.43	110.34	-14.50	6,492.70	-469.33	2,635.41	2,513.97	121.44	21.701		
18,100.00	11,459.21	15,488.45	8,908.33	116.98	111.92	-14.51	6,592.70	-470.00	2,634.88	2,511.84	123.04	21.415		
18,200.00	11,458.76	15,588.44	8,908.43	118.54	113.51	-14.51	6,692.69	-470.67	2,634.35	2,509.71	124.63	21.137		
18,300.00	11,458.31	15,688.44	8,908.53	120.09	115.11	-14.51	6,792.68	-471.34	2,633.81	2,507.58	126.24	20.864		
18,400.00	11,457.85	15,788.43	8,908.63	121.66	116.70	-14.52	6,892.67	-472.01	2,633.28	2,505.44	127.84	20.598		
18,500.00	11,457.40	15,888.43	8,908.73	123.22	118.30	-14.52	6,992.67	-472.68	2,632.74	2,503.30	129.44	20.339		
18,600.00	11,456.95	15,988.42	8,908.82	124.78	119.89	-14.52	7,092.66	-473.35	2,632.21	2,501.15	131.05	20.085		
18,700.00	11,456.49	16,088.42	8,908.92	126.35	121.49	-14.52	7,192.65	-474.02	2,631.67	2,499.01	132.66	19.837		
18,800.00	11,456.04	16,188.42	8,909.02	127.92	123.09	-14.53	7,292.65	-474.69	2,631.14	2,496.86	134.28	19.595		
18,900.00	11,455.58	16,288.41	8,909.12	129.50	124.69	-14.53	7,392.64	-475.37	2,630.60	2,494.71	135.89	19.358		
19,000.00	11,455.13	16,388.41	8,909.22	131.07	126.30	-14.53	7,492.63	-476.04	2,630.07	2,492.56	137.51	19.126		
19,100.00	11,454.67	16,488.40	8,909.32	132.65	127.90	-14.54	7,592.63	-476.71	2,629.53	2,490.41	139.12	18.901		
19,200.00	11,454.22	16,588.40	8,909.42	134.22	129.51	-14.54	7,692.62	-477.38	2,629.00	2,488.25	140.74	18.679		
19,300.00	11,453.76	16,688.39	8,909.51	135.80	131.11	-14.54	7,792.61	-478.05	2,628.46	2,486.10	142.36	18.463		
19,400.00	11,453.31	16,788.39	8,909.61	137.39	132.72	-14.55	7,892.61	-478.72	2,627.93	2,483.94	143.98	18.252		
19,500.00	11,452.85	16,888.38	8,909.71	138.97	134.33	-14.55	7,992.60	-479.39	2,627.39	2,481.78	145.61	18.044		
19,600.00	11,452.39	16,988.38	8,909.81	140.56	135.94	-14.55	8,092.59	-480.07	2,626.85	2,479.62	147.23	17.842		
19,700.00	11,451.94	17,088.38	8,909.91	142.14	137.55	-14.56	8,192.59	-480.74	2,626.32	2,477.46	148.86	17.643		
19,800.00	11,451.48	17,188.37	8,910.00	143.73	139.17	-14.56	8,292.58	-481.41	2,625.78	2,475.29	150.49	17.449		
19,900.00	11,451.02	17,288.37	8,910.10	145.32	140.78	-14.56	8,392.57	-482.08	2,625.24	2,473.13	152.12	17.258		
20,000.00	11,450.57	17,388.36	8,910.20	146.91	142.39	-14.56	8,492.57	-482.75	2,624.71	2,470.96	153.75	17.071		
20,100.00	11,450.11	17,488.36	8,910.30	148.51	144.01	-14.57	8,592.56	-483.43	2,624.17	2,468.79	155.38	16.888		
20,200.00	11,449.65	17,588.35	8,910.39	150.10	145.63	-14.57	8,692.55	-484.10	2,623.63	2,466.62	157.01	16.710		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,300.00	11,449.19	17,688.35	8,910.49	151.70	147.24	-14.57	8,792.55	-484.77	2,623.10	2,464.45	158.65	16.534	
20,400.00	11,448.73	17,788.34	8,910.59	153.29	148.86	-14.58	8,892.54	-485.45	2,622.56	2,462.28	160.28	16.362	
20,500.00	11,448.27	17,888.34	8,910.69	154.89	150.48	-14.58	8,992.53	-486.12	2,622.02	2,460.11	161.91	16.194	
20,600.00	11,447.82	17,988.33	8,910.78	156.49	152.10	-14.58	9,092.52	-486.79	2,621.48	2,457.93	163.55	16.029	
20,700.00	11,447.36	18,088.33	8,910.88	158.09	153.72	-14.59	9,192.52	-487.46	2,620.95	2,455.76	165.19	15.867	
20,800.00	11,446.90	18,188.33	8,910.98	159.70	155.34	-14.59	9,292.51	-488.14	2,620.41	2,453.58	166.83	15.707	
20,900.00	11,446.44	18,288.32	8,911.07	161.30	156.97	-14.59	9,392.50	-488.81	2,619.87	2,451.40	168.47	15.551	
21,000.00	11,445.98	18,388.32	8,911.17	162.90	158.59	-14.60	9,492.50	-489.48	2,619.33	2,449.22	170.11	15.398	
21,100.00	11,445.52	18,488.31	8,911.27	164.51	160.21	-14.60	9,592.49	-490.16	2,618.79	2,447.04	171.75	15.248	
21,200.00	11,445.06	18,588.31	8,911.36	166.11	161.84	-14.60	9,692.48	-490.83	2,618.25	2,444.86	173.39	15.100	
21,300.00	11,444.60	18,688.30	8,911.46	167.72	163.46	-14.60	9,792.48	-491.51	2,617.72	2,442.68	175.04	14.955	
21,400.00	11,444.14	18,788.30	8,911.56	169.33	165.09	-14.61	9,892.47	-492.18	2,617.18	2,440.50	176.68	14.813	
21,500.00	11,443.67	18,888.29	8,911.65	170.94	166.71	-14.61	9,992.46	-492.85	2,616.64	2,438.32	178.32	14.674	
21,600.00	11,443.21	18,988.29	8,911.75	172.55	168.34	-14.61	10,092.46	-493.53	2,616.10	2,436.14	179.96	14.537	
21,700.00	11,442.75	19,088.28	8,911.85	174.16	169.97	-14.62	10,192.45	-494.20	2,615.56	2,433.95	181.61	14.402	
21,800.00	11,442.29	19,188.28	8,911.94	175.77	171.59	-14.62	10,292.44	-494.88	2,615.02	2,431.77	183.25	14.270	
21,862.35	11,442.00	19,249.63	8,912.00	176.77	172.59	-14.62	10,353.79	-495.29	2,614.68	2,430.41	184.27	14.189	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-0.40	200.01	-1.40	200.01				
100.00	100.00	100.00	100.00	0.13	0.13	-0.40	200.01	-1.40	200.01	199.74	0.27	743.948	
200.00	200.00	200.00	200.00	0.49	0.49	-0.40	200.01	-1.40	200.01	199.03	0.99	202.895	
300.00	300.00	300.00	300.00	0.85	0.85	-0.40	200.01	-1.40	200.01	198.31	1.70	117.466	
400.00	400.00	400.00	400.00	1.21	1.21	-0.40	200.01	-1.40	200.01	197.59	2.42	82.661	
500.00	500.00	500.00	500.00	1.57	1.57	-0.40	200.01	-1.40	200.01	196.88	3.14	63.767	
600.00	600.00	600.00	600.00	1.93	1.93	-0.40	200.01	-1.40	200.01	196.16	3.85	51.903	
700.00	700.00	700.00	700.00	2.29	2.29	-0.40	200.01	-1.40	200.01	195.44	4.57	43.762	
800.00	800.00	800.00	800.00	2.64	2.64	-0.40	200.01	-1.40	200.01	194.73	5.29	37.828	
900.00	900.00	900.00	900.00	3.00	3.00	-0.40	200.01	-1.40	200.01	194.01	6.00	33.311	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-0.40	200.01	-1.40	200.01	193.29	6.72	29.758	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-0.40	200.01	-1.40	200.01	192.58	7.44	26.890	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-0.40	200.01	-1.40	200.01	191.86	8.16	24.526	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-0.40	200.01	-1.40	200.01	191.14	8.87	22.544	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-0.40	200.01	-1.40	200.01	190.42	9.59	20.858	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-0.40	200.01	-1.40	200.01	189.71	10.31	19.407	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-0.40	200.01	-1.40	200.01	188.99	11.02	18.145	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-0.40	200.01	-1.40	200.01	188.27	11.74	17.037	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-0.40	200.01	-1.40	200.01	187.56	12.46	16.056	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-0.40	200.01	-1.40	200.01	186.84	13.17	15.183	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-0.40	200.01	-1.40	200.01	186.12	13.89	14.399	
2,100.00	2,099.98	2,106.34	2,106.32	7.29	7.31	-135.27	198.33	-0.36	199.67	185.07	14.59	13.685	
2,200.00	2,199.84	2,212.67	2,212.47	7.62	7.66	-135.53	193.29	2.74	198.62	183.37	15.25	13.025	
2,300.00	2,299.45	2,318.95	2,318.29	7.95	8.01	-135.97	184.91	7.91	196.89	180.99	15.90	12.383	
2,400.00	2,398.70	2,425.17	2,423.61	8.30	8.37	-136.60	173.20	15.13	194.50	177.96	16.54	11.758	
2,500.00	2,497.47	2,531.31	2,528.27	8.65	8.74	-137.42	158.19	24.38	191.45	174.28	17.17	11.148	
2,600.00	2,595.62	2,635.19	2,630.04	9.01	9.12	-138.47	140.49	35.29	187.99	170.17	17.82	10.548	
2,700.00	2,693.44	2,735.07	2,727.74	9.39	9.50	-139.72	122.82	46.19	185.22	166.70	18.52	10.001	
2,800.00	2,791.25	2,834.95	2,825.44	9.77	9.88	-141.00	105.14	57.09	182.55	163.32	19.23	9.495	
2,900.00	2,889.07	2,934.83	2,923.13	10.17	10.28	-142.32	87.46	67.99	179.96	160.03	19.94	9.027	
3,000.00	2,986.88	3,034.70	3,020.83	10.57	10.68	-143.68	69.79	78.88	177.48	156.83	20.65	8.594	
3,100.00	3,084.70	3,134.58	3,118.53	10.99	11.10	-145.07	52.11	89.78	175.10	153.73	21.37	8.193	
3,200.00	3,182.51	3,234.46	3,216.22	11.41	11.51	-146.50	34.43	100.68	172.82	150.73	22.09	7.823	
3,300.00	3,280.33	3,334.34	3,313.92	11.83	11.94	-147.97	16.75	111.58	170.66	147.85	22.81	7.481	
3,400.00	3,378.14	3,434.22	3,411.62	12.26	12.37	-149.48	-0.92	122.48	168.61	145.08	23.53	7.165	
3,500.00	3,475.96	3,534.10	3,509.31	12.69	12.80	-151.02	-18.60	133.37	166.68	142.43	24.25	6.873	
3,600.00	3,573.77	3,633.98	3,607.01	13.13	13.24	-152.59	-36.28	144.27	164.87	139.89	24.97	6.602	
3,700.00	3,671.97	3,733.85	3,704.69	13.57	13.68	-153.87	-53.95	155.17	161.41	135.71	25.69	6.282	
3,800.00	3,770.78	3,833.60	3,802.27	13.98	14.12	-154.63	-71.60	166.05	154.88	128.46	26.42	5.863	
3,900.00	3,870.05	3,933.13	3,899.62	14.38	14.57	-154.87	-89.22	176.91	145.22	118.08	27.14	5.351	
4,000.00	3,969.69	4,032.30	3,996.62	14.75	15.02	-154.49	-106.77	187.73	132.43	104.57	27.86	4.753	
4,100.00	4,069.56	4,131.00	4,093.16	15.11	15.46	-153.26	-124.24	198.50	116.55	87.95	28.60	4.076	
4,200.00	4,169.54	4,227.07	4,187.27	15.44	15.90	-16.09	-140.69	208.64	98.36	68.95	29.41	3.345	
4,300.00	4,269.54	4,322.73	4,281.52	15.77	16.31	-13.00	-154.57	217.20	82.04	51.78	30.26	2.711	
4,400.00	4,369.54	4,419.39	4,377.27	16.10	16.71	-9.46	-165.87	224.16	69.15	38.04	31.11	2.223	
4,500.00	4,469.54	4,516.85	4,474.20	16.43	17.09	-5.78	-174.46	229.47	59.67	27.73	31.94	1.868	
4,600.00	4,569.54	4,614.90	4,572.00	16.76	17.45	-2.59	-180.28	233.05	53.48	20.77	32.71	1.635	
4,700.00	4,669.54	4,713.29	4,670.33	17.09	17.79	-0.66	-183.24	234.88	50.41	17.03	33.39	1.510	
4,770.95	4,740.49	4,783.46	4,740.49	17.33	18.02	-0.38	-183.65	235.13	50.00	16.19	33.81	1.479 Level 3	
4,800.00	4,769.54	4,812.51	4,769.54	17.43	18.11	-0.38	-183.65	235.13	50.00	15.99	34.01	1.470 Level 3	
4,900.00	4,869.54	4,912.51	4,869.54	17.76	18.42	-0.38	-183.65	235.13	50.00	15.31	34.68	1.442 Level 3	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between	Minimum	Separation	Warning			
Measured Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
5,000.00	4,969.54	5,012.51	4,969.54	18.10	18.74	-0.38	-183.65	235.13	50.00	14.64	35.36	1.414	Level 3
5,100.00	5,069.54	5,112.51	5,069.54	18.43	19.06	-0.38	-183.65	235.13	50.00	13.96	36.04	1.387	Level 3
5,200.00	5,169.54	5,212.51	5,169.54	18.77	19.38	-0.38	-183.65	235.13	50.00	13.28	36.72	1.362	Level 3
5,300.00	5,269.54	5,312.51	5,269.54	19.11	19.70	-0.38	-183.65	235.13	50.00	12.60	37.40	1.337	Level 3
5,400.00	5,369.54	5,412.51	5,369.54	19.45	20.02	-0.38	-183.65	235.13	50.00	11.92	38.08	1.313	Level 3
5,500.00	5,469.54	5,512.51	5,469.54	19.79	20.35	-0.38	-183.65	235.13	50.00	11.23	38.77	1.290	Level 3
5,600.00	5,569.54	5,612.51	5,569.54	20.13	20.67	-0.38	-183.65	235.13	50.00	10.55	39.45	1.267	Level 3
5,700.00	5,669.54	5,712.51	5,669.54	20.47	21.00	-0.38	-183.65	235.13	50.00	9.86	40.14	1.246	Level 3
5,800.00	5,769.54	5,812.51	5,769.54	20.81	21.33	-0.38	-183.65	235.13	50.00	9.18	40.82	1.225	Level 3
5,900.00	5,869.54	5,912.51	5,869.54	21.15	21.66	-0.38	-183.65	235.13	50.00	8.49	41.51	1.204	Level 3
6,000.00	5,969.54	6,012.51	5,969.54	21.49	21.98	-0.38	-183.65	235.13	50.00	7.80	42.20	1.185	Level 3
6,100.00	6,069.54	6,112.51	6,069.54	21.83	22.31	-0.38	-183.65	235.13	50.00	7.11	42.89	1.166	Level 3
6,200.00	6,169.54	6,212.51	6,169.54	22.18	22.65	-0.38	-183.65	235.13	50.00	6.42	43.58	1.147	Level 3
6,300.00	6,269.54	6,312.51	6,269.54	22.52	22.98	-0.38	-183.65	235.13	50.00	5.73	44.27	1.130	Level 3
6,400.00	6,369.54	6,412.51	6,369.54	22.87	23.31	-0.38	-183.65	235.13	50.00	5.04	44.96	1.112	Level 3
6,500.00	6,469.54	6,512.51	6,469.54	23.21	23.64	-0.38	-183.65	235.13	50.00	4.35	45.65	1.095	Level 3
6,600.00	6,569.54	6,612.51	6,569.54	23.56	23.98	-0.38	-183.65	235.13	50.00	3.66	46.34	1.079	Level 3
6,700.00	6,669.54	6,712.51	6,669.54	23.90	24.31	-0.38	-183.65	235.13	50.00	2.97	47.03	1.063	Level 3
6,800.00	6,769.54	6,812.51	6,769.54	24.25	24.65	-0.38	-183.65	235.13	50.00	2.28	47.72	1.048	Level 3
6,900.00	6,869.54	6,912.51	6,869.54	24.59	24.98	-0.38	-183.65	235.13	50.00	1.58	48.42	1.033	Level 3
7,000.00	6,969.54	7,012.51	6,969.54	24.94	25.32	-0.38	-183.65	235.13	50.00	0.89	49.11	1.018	Level 3
7,100.00	7,069.54	7,112.51	7,069.54	25.29	25.66	-0.38	-183.65	235.13	50.00	0.20	49.80	1.004	Level 3
7,200.00	7,169.54	7,212.51	7,169.54	25.63	26.00	-0.38	-183.65	235.13	50.00	-0.50	50.50	0.990	Level 3
7,300.00	7,269.54	7,312.51	7,269.54	25.98	26.33	-0.38	-183.65	235.13	50.00	-1.19	51.19	0.977	Level 3
7,400.00	7,369.54	7,412.51	7,369.54	26.33	26.67	-0.38	-183.65	235.13	50.00	-1.89	51.89	0.964	Level 3
7,500.00	7,469.54	7,512.51	7,469.54	26.68	27.01	-0.38	-183.65	235.13	50.00	-2.58	52.58	0.951	Level 3
7,600.00	7,569.54	7,612.51	7,569.54	27.03	27.35	-0.38	-183.65	235.13	50.00	-3.28	53.28	0.938	Level 3
7,700.00	7,669.54	7,712.51	7,669.54	27.37	27.69	-0.38	-183.65	235.13	50.00	-3.98	53.98	0.926	Level 3
7,800.00	7,769.54	7,812.51	7,769.54	27.72	28.03	-0.38	-183.65	235.13	50.00	-4.69	54.69	0.914	Level 3
7,900.00	7,869.54	7,912.51	7,869.54	28.07	28.37	-0.38	-183.65	235.13	50.00	-5.38	55.38	0.903	Level 3
8,000.00	7,969.54	8,012.51	7,969.54	28.42	28.72	-0.38	-183.65	235.13	50.00	-6.09	56.09	0.891	Level 3
8,100.00	8,069.54	8,112.51	8,069.54	28.77	29.06	-0.38	-183.65	235.13	50.00	-6.79	56.79	0.880	Level 3
8,200.00	8,169.54	8,212.51	8,169.54	29.12	29.40	-0.38	-183.65	235.13	50.00	-7.49	57.49	0.870	Level 3
8,300.00	8,269.54	8,312.51	8,269.54	29.47	29.74	-0.38	-183.65	235.13	50.00	-8.20	58.20	0.859	Level 3
8,308.31	8,277.85	8,320.82	8,277.85	29.50	29.77	-0.38	-183.65	235.13	50.00	-8.26	58.26	0.858	Level 3, CC, ES, SF
8,400.00	8,369.54	8,409.62	8,366.64	29.82	30.07	-0.38	-182.72	235.12	51.01	-6.99	58.00	0.880	Level 3
8,500.00	8,469.54	8,500.00	8,456.09	30.17	30.35	-0.38	-170.50	235.04	64.57	8.63	55.94	1.154	Level 3
8,600.00	8,569.54	8,584.09	8,536.65	30.52	30.57	-0.38	-146.63	234.88	93.03	38.80	54.22	1.716	
8,700.00	8,669.54	8,660.06	8,605.72	30.87	30.74	-0.38	-115.15	234.68	134.60	82.21	52.39	2.569	
8,800.00	8,769.54	8,726.58	8,662.32	31.22	30.87	-0.38	-80.28	234.44	187.13	136.73	50.41	3.712	
8,900.00	8,869.54	8,783.83	8,707.53	31.57	30.96	-0.38	-45.19	234.21	248.53	200.07	48.46	5.129	
9,000.00	8,969.54	8,832.72	8,743.20	31.93	31.03	-0.38	-11.78	233.99	316.95	270.28	46.67	6.791	
9,100.00	9,069.54	8,874.37	8,771.25	32.28	31.09	-0.38	18.99	233.79	390.91	345.81	45.10	8.668	
9,200.00	9,169.54	8,900.00	8,787.37	32.63	31.12	-0.38	38.92	233.65	469.41	426.32	43.09	10.893	
9,300.00	9,269.54	8,950.00	8,816.19	32.98	31.17	-0.38	79.76	233.38	551.14	507.96	43.19	12.761	
9,400.00	9,369.54	8,966.70	8,825.00	33.33	31.19	-0.38	93.94	233.29	635.49	593.76	41.73	15.229	
9,500.00	9,469.54	9,000.00	8,841.33	33.68	31.23	-0.38	122.96	233.10	722.37	680.94	41.43	17.436	
9,600.00	9,569.54	9,000.00	8,841.33	34.04	31.23	-0.38	122.96	233.10	810.84	770.77	40.07	20.235	
9,700.00	9,669.54	9,026.93	8,853.29	34.39	31.26	-0.38	147.09	232.94	900.69	860.74	39.95	22.545	
9,800.00	9,769.54	9,050.00	8,862.61	34.74	31.29	-0.38	168.19	232.80	991.97	952.15	39.82	24.914	
9,900.00	9,869.54	9,050.00	8,862.61	35.09	31.29	-0.38	168.19	232.80	1,084.15	1,044.95	39.20	27.658	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Offset (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
10,000.00	9,969.54	9,068.49	8,869.47	35.45	31.31	-0.38	185.35	232.68	1,177.17	1,137.99	39.17	30.050	
10,100.00	10,069.54	9,079.55	8,873.31	35.80	31.33	-0.38	195.73	232.61	1,270.96	1,231.90	39.06	32.535	
10,200.00	10,169.54	9,100.00	8,879.87	36.15	31.35	-0.38	215.09	232.49	1,365.51	1,326.31	39.20	34.832	
10,300.00	10,269.54	9,100.00	8,879.87	36.51	31.35	-0.38	215.09	232.49	1,460.33	1,421.30	39.03	37.413	
10,400.00	10,369.54	9,100.00	8,879.87	36.86	31.35	-0.38	215.09	232.49	1,555.79	1,516.85	38.95	39.947	
10,500.00	10,469.54	9,100.00	8,879.87	37.21	31.35	-0.38	215.09	232.49	1,651.79	1,612.87	38.93	42.432	
10,600.00	10,569.54	9,121.29	8,885.97	37.57	31.39	-0.38	235.49	232.35	1,747.72	1,708.49	39.23	44.552	
10,700.00	10,669.54	9,127.66	8,887.64	37.92	31.40	-0.38	241.63	232.31	1,844.20	1,804.84	39.36	46.851	
10,800.00	10,769.54	9,150.00	8,892.98	38.27	31.43	-0.38	263.33	232.17	1,941.26	1,901.56	39.70	48.896	
10,900.00	10,869.54	9,150.00	8,892.98	38.63	31.43	-0.38	263.33	232.17	2,038.09	1,998.27	39.81	51.192	
11,000.00	10,969.45	9,150.00	8,892.98	38.98	31.43	0.00	263.33	232.17	2,134.50	2,094.57	39.93	53.451	
11,100.00	11,067.64	9,150.00	8,892.98	39.30	31.43	0.00	263.33	232.17	2,226.15	2,186.18	39.97	55.699	
11,200.00	11,161.16	9,150.00	8,892.98	39.59	31.43	0.00	263.33	232.17	2,310.65	2,270.71	39.94	57.857	
11,300.00	11,247.17	9,176.53	8,898.21	39.83	31.48	0.00	289.33	231.99	2,385.55	2,345.50	40.04	59.574	
11,400.00	11,323.06	9,200.00	8,901.83	40.03	31.52	0.00	312.52	231.84	2,450.01	2,409.94	40.07	61.140	
11,500.00	11,386.52	9,200.00	8,901.83	40.18	31.52	0.00	312.52	231.84	2,502.42	2,462.46	39.96	62.628	
11,600.00	11,435.62	9,224.11	8,904.56	40.33	31.57	0.00	336.47	231.68	2,541.89	2,501.90	39.99	63.571	
11,700.00	11,468.88	9,250.00	8,906.36	40.54	31.63	0.00	362.30	231.51	2,567.89	2,527.84	40.05	64.117	
11,800.00	11,485.28	9,250.00	8,906.36	40.77	31.63	0.00	362.30	231.51	2,579.80	2,539.69	40.11	64.318	
11,900.00	11,486.77	9,283.85	8,907.00	41.03	31.71	0.00	396.14	231.28	2,579.77	2,539.44	40.33	63.960	
12,000.00	11,486.33	9,383.85	8,907.05	41.36	32.00	0.00	496.13	230.62	2,579.28	2,538.57	40.71	63.350	
12,100.00	11,485.90	9,483.84	8,907.11	41.74	32.39	0.00	596.13	229.96	2,578.79	2,537.64	41.15	62.666	
12,200.00	11,485.46	9,583.84	8,907.16	42.19	32.85	0.00	696.12	229.29	2,578.30	2,536.66	41.64	61.913	
12,300.00	11,485.02	9,683.84	8,907.21	42.70	33.39	0.00	796.12	228.63	2,577.81	2,535.62	42.19	61.100	
12,400.00	11,484.59	9,783.84	8,907.26	43.26	34.00	0.00	896.11	227.97	2,577.32	2,534.53	42.79	60.233	
12,500.00	11,484.15	9,883.83	8,907.32	43.88	34.68	0.00	996.11	227.30	2,576.83	2,533.40	43.44	59.324	
12,600.00	11,483.71	9,983.83	8,907.37	44.55	35.43	0.00	1,096.10	226.64	2,576.34	2,532.21	44.13	58.378	
12,700.00	11,483.27	10,083.83	8,907.42	45.27	36.23	0.00	1,196.10	225.98	2,575.85	2,530.98	44.87	57.406	
12,800.00	11,482.83	10,183.83	8,907.47	46.04	37.09	0.00	1,296.10	225.31	2,575.36	2,529.71	45.65	56.412	
12,900.00	11,482.39	10,283.83	8,907.52	46.85	38.01	0.00	1,396.09	224.65	2,574.87	2,528.40	46.47	55.405	
13,000.00	11,481.95	10,383.82	8,907.57	47.71	38.97	0.00	1,496.09	223.98	2,574.38	2,527.05	47.33	54.389	
13,100.00	11,481.52	10,483.82	8,907.63	48.61	39.97	0.00	1,596.08	223.32	2,573.89	2,525.66	48.23	53.370	
13,200.00	11,481.08	10,583.82	8,907.68	49.55	41.02	0.00	1,696.08	222.65	2,573.40	2,524.24	49.16	52.352	
13,300.00	11,480.64	10,683.82	8,907.73	50.52	42.11	0.00	1,796.07	221.99	2,572.91	2,522.79	50.11	51.340	
13,400.00	11,480.20	10,783.81	8,907.78	51.53	43.23	0.00	1,896.07	221.33	2,572.41	2,521.31	51.10	50.337	
13,500.00	11,479.75	10,883.81	8,907.83	52.57	44.39	0.00	1,996.06	220.66	2,571.92	2,519.80	52.12	49.345	
13,600.00	11,479.31	10,983.81	8,907.89	53.65	45.58	0.00	2,096.06	220.00	2,571.43	2,518.26	53.16	48.367	
13,700.00	11,478.87	11,083.81	8,907.94	54.75	46.79	0.00	2,196.05	219.33	2,570.94	2,516.70	54.23	47.405	
13,800.00	11,478.43	11,183.80	8,907.99	55.88	48.03	0.00	2,296.05	218.67	2,570.44	2,515.12	55.33	46.461	
13,900.00	11,477.99	11,283.80	8,908.04	57.03	49.30	0.00	2,396.04	218.00	2,569.95	2,513.51	56.44	45.535	
14,000.00	11,477.55	11,383.80	8,908.09	58.21	50.59	0.00	2,496.04	217.34	2,569.46	2,511.88	57.57	44.629	
14,100.00	11,477.11	11,483.80	8,908.14	59.41	51.90	0.00	2,596.04	216.67	2,568.96	2,510.24	58.73	43.743	
14,200.00	11,476.66	11,583.79	8,908.19	60.64	53.23	0.00	2,696.03	216.01	2,568.47	2,508.57	59.90	42.878	
14,300.00	11,476.22	11,683.79	8,908.25	61.88	54.57	0.00	2,796.03	215.34	2,567.98	2,506.88	61.09	42.035	
14,400.00	11,475.78	11,783.79	8,908.30	63.14	55.94	0.00	2,896.02	214.67	2,567.48	2,505.18	62.30	41.213	
14,500.00	11,475.34	11,883.79	8,908.35	64.42	57.32	0.00	2,996.02	214.01	2,566.99	2,503.47	63.52	40.412	
14,600.00	11,474.89	11,983.79	8,908.40	65.72	58.71	0.00	3,096.01	213.34	2,566.49	2,501.74	64.76	39.632	
14,700.00	11,474.45	12,083.78	8,908.45	67.03	60.12	0.00	3,196.01	212.68	2,566.00	2,499.99	66.01	38.874	
14,800.00	11,474.00	12,183.78	8,908.50	68.36	61.53	0.00	3,296.00	212.01	2,565.50	2,498.23	67.27	38.136	
14,900.00	11,473.56	12,283.78	8,908.55	69.70	62.96	0.00	3,396.00	211.35	2,565.01	2,496.46	68.55	37.419	
15,000.00	11,473.12	12,383.78	8,908.60	71.06	64.41	0.00	3,495.99	210.68	2,564.51	2,494.68	69.84	36.722	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
15,100.00	11,472.67	12,483.77	8,908.65	72.43	65.86	0.00	3,595.99	210.01	2,564.02	2,492.88	71.13	36.045
15,200.00	11,472.23	12,583.77	8,908.71	73.81	67.32	0.00	3,695.99	209.35	2,563.52	2,491.08	72.44	35.386
15,300.00	11,471.78	12,683.77	8,908.76	75.20	68.79	0.00	3,795.98	208.68	2,563.03	2,489.26	73.76	34.747
15,400.00	11,471.34	12,783.77	8,908.81	76.60	70.27	0.00	3,895.98	208.01	2,562.53	2,487.44	75.09	34.125
15,500.00	11,470.89	12,883.76	8,908.86	78.01	71.75	0.00	3,995.97	207.35	2,562.03	2,485.60	76.43	33.521
15,600.00	11,470.44	12,983.76	8,908.91	79.43	73.24	0.00	4,095.97	206.68	2,561.54	2,483.76	77.78	32.935
15,700.00	11,470.00	13,083.76	8,908.96	80.86	74.74	0.00	4,195.96	206.01	2,561.04	2,481.91	79.13	32.365
15,800.00	11,469.55	13,183.76	8,909.01	82.30	76.25	0.00	4,295.96	205.35	2,560.54	2,480.05	80.49	31.811
15,900.00	11,469.10	13,283.75	8,909.06	83.74	77.76	0.00	4,395.95	204.68	2,560.04	2,478.18	81.86	31.273
16,000.00	11,468.66	13,383.75	8,909.11	85.20	79.28	0.00	4,495.95	204.01	2,559.55	2,476.31	83.24	30.750
16,100.00	11,468.21	13,483.75	8,909.16	86.66	80.80	0.00	4,595.94	203.35	2,559.05	2,474.43	84.62	30.242
16,200.00	11,467.76	13,583.75	8,909.21	88.13	82.33	0.00	4,695.94	202.68	2,558.55	2,472.54	86.01	29.748
16,300.00	11,467.32	13,683.75	8,909.26	89.60	83.87	0.00	4,795.94	202.01	2,558.05	2,470.65	87.40	29.267
16,400.00	11,466.87	13,783.74	8,909.31	91.08	85.41	0.00	4,895.93	201.34	2,557.55	2,468.75	88.80	28.800
16,500.00	11,466.42	13,883.74	8,909.36	92.57	86.95	0.00	4,995.93	200.68	2,557.06	2,466.85	90.21	28.345
16,600.00	11,465.97	13,983.74	8,909.41	94.06	88.49	0.00	5,095.92	200.01	2,556.56	2,464.94	91.62	27.903
16,700.00	11,465.52	14,083.74	8,909.46	95.56	90.05	0.00	5,195.92	199.34	2,556.06	2,463.02	93.04	27.473
16,800.00	11,465.07	14,183.73	8,909.51	97.06	91.60	0.00	5,295.91	198.67	2,555.56	2,461.10	94.46	27.055
16,900.00	11,464.62	14,283.73	8,909.56	98.57	93.16	0.00	5,395.91	198.01	2,555.06	2,459.17	95.88	26.647
17,000.00	11,464.17	14,383.73	8,909.61	100.08	94.72	0.00	5,495.90	197.34	2,554.56	2,457.24	97.31	26.250
17,100.00	11,463.72	14,483.73	8,909.67	101.60	96.28	0.00	5,595.90	196.67	2,554.06	2,455.31	98.75	25.864
17,200.00	11,463.27	14,583.72	8,909.72	103.12	97.85	0.00	5,695.89	196.00	2,553.56	2,453.37	100.19	25.488
17,300.00	11,462.82	14,683.72	8,909.77	104.65	99.42	0.00	5,795.89	195.33	2,553.06	2,451.43	101.63	25.121
17,400.00	11,462.37	14,783.72	8,909.82	106.18	100.99	0.00	5,895.88	194.67	2,552.56	2,449.48	103.07	24.764
17,500.00	11,461.92	14,883.72	8,909.87	107.71	102.57	0.00	5,995.88	194.00	2,552.06	2,447.53	104.52	24.416
17,600.00	11,461.47	14,983.71	8,909.91	109.25	104.15	0.00	6,095.88	193.33	2,551.56	2,445.58	105.98	24.077
17,700.00	11,461.02	15,083.71	8,909.96	110.79	105.73	0.00	6,195.87	192.66	2,551.05	2,443.62	107.43	23.746
17,800.00	11,460.57	15,183.71	8,910.01	112.33	107.31	0.00	6,295.87	191.99	2,550.55	2,441.66	108.89	23.423
17,900.00	11,460.12	15,283.71	8,910.06	113.88	108.89	0.00	6,395.86	191.32	2,550.05	2,439.70	110.35	23.108
18,000.00	11,459.66	15,383.71	8,910.11	115.43	110.48	0.00	6,495.86	190.65	2,549.55	2,437.73	111.82	22.801
18,100.00	11,459.21	15,483.70	8,910.16	116.98	112.07	0.00	6,595.85	189.98	2,549.05	2,435.76	113.29	22.501
18,200.00	11,458.76	15,583.70	8,910.21	118.54	113.66	0.00	6,695.85	189.32	2,548.55	2,433.79	114.76	22.208
18,300.00	11,458.31	15,683.70	8,910.26	120.09	115.25	0.00	6,795.84	188.65	2,548.04	2,431.81	116.23	21.923
18,400.00	11,457.85	15,783.70	8,910.31	121.66	116.85	0.00	6,895.84	187.98	2,547.54	2,429.84	117.70	21.644
18,500.00	11,457.40	15,883.69	8,910.36	123.22	118.45	0.00	6,995.83	187.31	2,547.04	2,427.86	119.18	21.371
18,600.00	11,456.95	15,983.69	8,910.41	124.78	120.04	0.00	7,095.83	186.64	2,546.53	2,425.87	120.66	21.105
18,700.00	11,456.49	16,083.69	8,910.46	126.35	121.64	0.00	7,195.82	185.97	2,546.03	2,423.89	122.14	20.845
18,800.00	11,456.04	16,183.69	8,910.51	127.92	123.24	0.00	7,295.82	185.30	2,545.53	2,421.90	123.63	20.590
18,900.00	11,455.58	16,283.68	8,910.56	129.50	124.85	0.00	7,395.82	184.63	2,545.02	2,419.91	125.11	20.342
19,000.00	11,455.13	16,383.68	8,910.61	131.07	126.45	0.00	7,495.81	183.96	2,544.52	2,417.92	126.60	20.098
19,100.00	11,454.67	16,483.68	8,910.66	132.65	128.05	0.00	7,595.81	183.29	2,544.01	2,415.92	128.09	19.861
19,200.00	11,454.22	16,583.68	8,910.71	134.22	129.66	0.00	7,695.80	182.62	2,543.51	2,413.93	129.58	19.628
19,300.00	11,453.76	16,683.67	8,910.76	135.80	131.27	0.00	7,795.80	181.95	2,543.01	2,411.93	131.08	19.401
19,400.00	11,453.31	16,783.67	8,910.81	137.39	132.88	0.00	7,895.79	181.28	2,542.50	2,409.93	132.57	19.178
19,500.00	11,452.85	16,883.67	8,910.85	138.97	134.49	0.00	7,995.79	180.61	2,542.00	2,407.92	134.07	18.960
19,600.00	11,452.39	16,983.67	8,910.90	140.56	136.10	0.00	8,095.78	179.94	2,541.49	2,405.92	135.57	18.747
19,700.00	11,451.94	17,083.66	8,910.95	142.14	137.71	0.00	8,195.78	179.27	2,540.98	2,403.91	137.07	18.538
19,800.00	11,451.48	17,183.66	8,911.00	143.73	139.32	0.00	8,295.77	178.60	2,540.48	2,401.91	138.57	18.333
19,900.00	11,451.02	17,283.66	8,911.05	145.32	140.94	0.00	8,395.77	177.93	2,539.97	2,399.90	140.08	18.133
20,000.00	11,450.57	17,383.66	8,911.10	146.91	142.55	0.00	8,495.76	177.26	2,539.47	2,397.89	141.58	17.936
20,100.00	11,450.11	17,483.66	8,911.15	148.51	144.17	0.00	8,595.76	176.58	2,538.96	2,395.87	143.09	17.744

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
									Minimum Separation (usft)	Separation Factor		
20,200.00	11,449.65	17,583.65	8,911.20	150.10	145.79	0.00	8,695.75	175.91	2,538.45	2,393.86	144.60	17.556
20,300.00	11,449.19	17,683.65	8,911.25	151.70	147.40	0.00	8,795.75	175.24	2,537.95	2,391.84	146.10	17.371
20,400.00	11,448.73	17,783.65	8,911.29	153.29	149.02	0.00	8,895.75	174.57	2,537.44	2,389.83	147.61	17.190
20,500.00	11,448.27	17,883.65	8,911.34	154.89	150.64	0.00	8,995.74	173.90	2,536.93	2,387.81	149.13	17.012
20,600.00	11,447.82	17,983.64	8,911.39	156.49	152.26	0.00	9,095.74	173.23	2,536.42	2,385.79	150.64	16.838
20,700.00	11,447.36	18,083.64	8,911.44	158.09	153.88	0.00	9,195.73	172.56	2,535.92	2,383.77	152.15	16.667
20,800.00	11,446.90	18,183.64	8,911.49	159.70	155.51	0.00	9,295.73	171.89	2,535.41	2,381.74	153.67	16.499
20,900.00	11,446.44	18,283.64	8,911.54	161.30	157.13	0.00	9,395.72	171.21	2,534.90	2,379.72	155.18	16.335
21,000.00	11,445.98	18,383.63	8,911.59	162.90	158.75	0.00	9,495.72	170.54	2,534.39	2,377.69	156.70	16.174
21,100.00	11,445.52	18,483.63	8,911.63	164.51	160.38	0.00	9,595.71	169.87	2,533.88	2,375.67	158.22	16.015
21,200.00	11,445.06	18,583.63	8,911.68	166.11	162.00	0.00	9,695.71	169.20	2,533.38	2,373.64	159.74	15.860
21,300.00	11,444.60	18,683.63	8,911.73	167.72	163.63	0.00	9,795.70	168.53	2,532.87	2,371.61	161.26	15.707
21,400.00	11,444.14	18,783.62	8,911.78	169.33	165.25	0.00	9,895.70	167.85	2,532.36	2,369.58	162.78	15.557
21,500.00	11,443.67	18,883.62	8,911.83	170.94	166.88	0.00	9,995.69	167.18	2,531.85	2,367.55	164.30	15.410
21,600.00	11,443.21	18,983.62	8,911.87	172.55	168.51	0.00	10,095.69	166.51	2,531.34	2,365.52	165.82	15.265
21,700.00	11,442.75	19,083.62	8,911.92	174.16	170.13	0.00	10,195.68	165.84	2,530.83	2,363.48	167.34	15.123
21,800.00	11,442.29	19,183.61	8,911.97	175.77	171.76	0.00	10,295.68	165.17	2,530.32	2,361.45	168.87	14.984
21,862.35	11,442.00	19,244.74	8,912.00	176.77	172.76	0.00	10,356.81	164.75	2,530.00	2,360.19	169.81	14.899

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
Depth	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
									(usft)	(usft)	(usft)		
0.00	0.00	0.00	0.00	0.00	0.00	-81.63	192.71	-1,310.36	1,324.49				
100.00	100.00	90.00	90.00	0.13	0.12	-81.63	192.71	-1,310.36	1,324.45	1,324.20	0.26	5,185.561	
200.00	200.00	190.00	190.00	0.49	0.46	-81.63	192.71	-1,310.36	1,324.45	1,323.50	0.95	1,394.232	
300.00	300.00	290.00	290.00	0.85	0.82	-81.63	192.71	-1,310.36	1,324.45	1,322.78	1.67	794.563	
400.00	400.00	390.00	390.00	1.21	1.17	-81.63	192.71	-1,310.36	1,324.45	1,322.07	2.38	555.597	
500.00	500.00	490.00	490.00	1.57	1.53	-81.63	192.71	-1,310.36	1,324.45	1,321.35	3.10	427.135	
600.00	600.00	590.00	590.00	1.93	1.89	-81.63	192.71	-1,310.36	1,324.45	1,320.63	3.82	346.922	
700.00	700.00	690.00	690.00	2.29	2.25	-81.63	192.71	-1,310.36	1,324.45	1,319.92	4.53	292.072	
800.00	800.00	790.00	790.00	2.64	2.61	-81.63	192.71	-1,310.36	1,324.45	1,319.20	5.25	252.199	
900.00	900.00	890.00	890.00	3.00	2.97	-81.63	192.71	-1,310.36	1,324.45	1,318.48	5.97	221.905	
1,000.00	1,000.00	990.00	990.00	3.36	3.32	-81.63	192.71	-1,310.36	1,324.45	1,317.77	6.69	198.108	
1,100.00	1,100.00	1,090.00	1,090.00	3.72	3.68	-81.63	192.71	-1,310.36	1,324.45	1,317.05	7.40	178.921	
1,200.00	1,200.00	1,190.00	1,190.00	4.08	4.04	-81.63	192.71	-1,310.36	1,324.45	1,316.33	8.12	163.122	
1,300.00	1,300.00	1,290.00	1,290.00	4.44	4.40	-81.63	192.71	-1,310.36	1,324.45	1,315.61	8.84	149.887	
1,400.00	1,400.00	1,390.00	1,390.00	4.79	4.76	-81.63	192.71	-1,310.36	1,324.45	1,314.90	9.55	138.639	
1,500.00	1,500.00	1,490.00	1,490.00	5.15	5.12	-81.63	192.71	-1,310.36	1,324.45	1,314.18	10.27	128.960	
1,600.00	1,600.00	1,590.00	1,590.00	5.51	5.48	-81.63	192.71	-1,310.36	1,324.45	1,313.46	10.99	120.545	
1,700.00	1,700.00	1,690.00	1,690.00	5.87	5.83	-81.63	192.71	-1,310.36	1,324.45	1,312.75	11.70	113.161	
1,800.00	1,800.00	1,790.00	1,790.00	6.23	6.19	-81.63	192.71	-1,310.36	1,324.45	1,312.03	12.42	106.630	
1,900.00	1,900.00	1,890.00	1,890.00	6.59	6.55	-81.63	192.71	-1,310.36	1,324.45	1,311.31	13.14	100.811	
2,000.00	2,000.00	1,990.00	1,990.00	6.95	6.91	-81.63	192.71	-1,310.36	1,324.45	1,310.60	13.85	95.594 CC, ES	
2,100.00	2,099.98	2,089.98	2,089.98	7.29	7.27	143.62	192.71	-1,310.36	1,325.86	1,311.30	14.56	91.086	
2,200.00	2,199.84	2,189.84	2,189.84	7.62	7.63	143.70	192.71	-1,310.36	1,330.07	1,314.83	15.24	87.255	
2,300.00	2,299.45	2,289.45	2,289.45	7.95	7.98	143.84	192.71	-1,310.36	1,337.11	1,321.18	15.93	83.922	
2,400.00	2,398.70	2,388.70	2,388.70	8.30	8.34	144.03	192.71	-1,310.36	1,346.99	1,330.37	16.62	81.028	
2,500.00	2,497.47	2,487.47	2,487.47	8.65	8.69	144.26	192.71	-1,310.36	1,359.72	1,342.41	17.32	78.522	
2,600.00	2,595.62	2,585.62	2,585.62	9.01	9.04	144.54	192.71	-1,310.36	1,375.33	1,357.32	18.01	76.358	
2,700.00	2,693.44	2,704.95	2,704.92	9.39	9.45	145.07	190.85	-1,309.87	1,391.80	1,373.03	18.77	74.164	
2,800.00	2,791.25	2,829.39	2,829.15	9.77	9.86	145.41	183.82	-1,308.05	1,406.55	1,387.03	19.52	72.063	
2,900.00	2,889.07	2,954.94	2,954.03	10.17	10.27	145.54	171.46	-1,304.83	1,419.47	1,399.19	20.28	69.995	
3,000.00	2,986.88	3,081.12	3,078.86	10.57	10.69	145.47	153.70	-1,300.21	1,430.54	1,409.49	21.05	67.952	
3,100.00	3,084.70	3,207.44	3,202.90	10.99	11.13	145.20	130.62	-1,294.20	1,439.75	1,417.91	21.84	65.927	
3,200.00	3,182.51	3,305.25	3,298.58	11.41	11.48	144.92	110.94	-1,289.09	1,448.17	1,425.60	22.57	64.176	
3,300.00	3,280.33	3,404.65	3,395.80	11.83	11.85	144.65	90.94	-1,283.88	1,456.62	1,433.31	23.31	62.492	
3,400.00	3,378.14	3,504.05	3,493.03	12.26	12.22	144.37	70.94	-1,278.68	1,465.10	1,441.04	24.06	60.884	
3,500.00	3,475.96	3,603.44	3,590.25	12.69	12.61	144.10	50.94	-1,273.48	1,473.62	1,448.79	24.83	59.348	
3,600.00	3,573.77	3,702.84	3,687.47	13.13	13.00	143.84	30.94	-1,268.28	1,482.16	1,456.56	25.61	57.883	
3,700.00	3,671.97	3,802.27	3,784.73	13.57	13.40	143.62	10.94	-1,263.07	1,489.15	1,462.77	26.39	56.433	
3,800.00	3,770.78	3,901.67	3,881.96	13.98	13.80	143.28	-9.06	-1,257.87	1,493.39	1,466.22	27.17	54.962	
3,900.00	3,870.05	4,000.91	3,979.03	14.38	14.21	142.84	-29.03	-1,252.68	1,494.92	1,466.97	27.95	53.479	
4,000.00	3,969.69	4,099.89	4,075.85	14.75	14.62	142.29	-48.95	-1,247.50	1,493.78	1,465.05	28.73	51.988	
4,100.00	4,069.56	4,198.47	4,172.27	15.11	15.03	141.62	-68.79	-1,242.34	1,490.04	1,460.54	29.51	50.496	
4,200.00	4,169.54	4,296.54	4,268.20	15.44	15.45	-84.37	-88.52	-1,237.20	1,483.78	1,453.50	30.28	49.009	
4,300.00	4,269.54	4,394.35	4,363.88	15.77	15.87	-85.11	-108.20	-1,232.08	1,476.59	1,445.54	31.04	47.569	
4,400.00	4,369.54	4,492.17	4,459.55	16.10	16.29	-85.86	-127.88	-1,226.96	1,469.65	1,437.84	31.81	46.200	
4,500.00	4,469.54	4,589.98	4,555.23	16.43	16.72	-86.62	-147.56	-1,221.84	1,462.98	1,430.39	32.59	44.896	
4,600.00	4,569.54	4,687.80	4,650.91	16.76	17.15	-87.38	-167.25	-1,216.72	1,456.57	1,423.20	33.36	43.656	
4,700.00	4,669.54	4,781.56	4,742.65	17.09	17.56	-88.11	-185.99	-1,211.85	1,450.48	1,416.35	34.13	42.499	
4,800.00	4,769.54	4,867.56	4,827.19	17.43	17.93	-88.72	-201.28	-1,207.87	1,445.28	1,410.43	34.85	41.469	
4,900.00	4,869.54	4,954.46	4,913.05	17.76	18.29	-89.23	-214.22	-1,204.50	1,441.09	1,405.53	35.56	40.522	
5,000.00	4,969.54	5,042.11	5,000.01	18.10	18.64	-89.64	-224.72	-1,201.77	1,437.83	1,401.57	36.26	39.654	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
5,100.00	5,069.54	5,130.34	5,087.86	18.43	18.97	-89.96	-232.69	-1,199.70	1,435.44	1,398.50	36.94	38.857	
5,200.00	5,169.54	5,219.00	5,176.34	18.77	19.30	-90.18	-238.05	-1,198.31	1,433.87	1,396.26	37.61	38.129	
5,300.00	5,269.54	5,307.92	5,265.21	19.11	19.60	-90.28	-240.77	-1,197.60	1,433.09	1,394.84	38.25	37.464	
5,368.83	5,338.37	5,371.08	5,328.37	19.34	19.81	-90.30	-241.12	-1,197.51	1,432.99	1,394.29	38.69	37.035	
5,400.00	5,369.54	5,402.25	5,359.54	19.45	19.91	-90.30	-241.12	-1,197.51	1,432.99	1,394.09	38.90	36.837	
5,500.00	5,469.54	5,502.25	5,459.54	19.79	20.23	-90.30	-241.12	-1,197.51	1,432.99	1,393.42	39.57	36.216	
5,600.00	5,569.54	5,602.25	5,559.54	20.13	20.56	-90.30	-241.12	-1,197.51	1,432.99	1,392.75	40.24	35.613	
5,700.00	5,669.54	5,702.25	5,659.54	20.47	20.88	-90.30	-241.12	-1,197.51	1,432.99	1,392.08	40.91	35.029	
5,800.00	5,769.54	5,802.25	5,759.54	20.81	21.21	-90.30	-241.12	-1,197.51	1,432.99	1,391.40	41.58	34.463	
5,900.00	5,869.54	5,902.25	5,859.54	21.15	21.54	-90.30	-241.12	-1,197.51	1,432.99	1,390.73	42.25	33.913	
6,000.00	5,969.54	6,002.25	5,959.54	21.49	21.87	-90.30	-241.12	-1,197.51	1,432.99	1,390.06	42.93	33.379	
6,100.00	6,069.54	6,102.25	6,059.54	21.83	22.20	-90.30	-241.12	-1,197.51	1,432.99	1,389.38	43.61	32.862	
6,200.00	6,169.54	6,202.25	6,159.54	22.18	22.53	-90.30	-241.12	-1,197.51	1,432.99	1,388.70	44.28	32.359	
6,300.00	6,269.54	6,302.25	6,259.54	22.52	22.86	-90.30	-241.12	-1,197.51	1,432.99	1,388.02	44.96	31.870	
6,400.00	6,369.54	6,402.25	6,359.54	22.87	23.19	-90.30	-241.12	-1,197.51	1,432.99	1,387.34	45.64	31.395	
6,500.00	6,469.54	6,502.25	6,459.54	23.21	23.52	-90.30	-241.12	-1,197.51	1,432.99	1,386.66	46.33	30.933	
6,600.00	6,569.54	6,602.25	6,559.54	23.56	23.85	-90.30	-241.12	-1,197.51	1,432.99	1,385.98	47.01	30.484	
6,700.00	6,669.54	6,702.25	6,659.54	23.90	24.19	-90.30	-241.12	-1,197.51	1,432.99	1,385.30	47.69	30.047	
6,800.00	6,769.54	6,802.25	6,759.54	24.25	24.52	-90.30	-241.12	-1,197.51	1,432.99	1,384.61	48.38	29.622	
6,900.00	6,869.54	6,902.25	6,859.54	24.59	24.86	-90.30	-241.12	-1,197.51	1,432.99	1,383.93	49.06	29.209	
7,000.00	6,969.54	7,002.25	6,959.54	24.94	25.19	-90.30	-241.12	-1,197.51	1,432.99	1,383.24	49.75	28.806	
7,100.00	7,069.54	7,102.25	7,059.54	25.29	25.53	-90.30	-241.12	-1,197.51	1,432.99	1,382.55	50.43	28.413	
7,200.00	7,169.54	7,202.25	7,159.54	25.63	25.87	-90.30	-241.12	-1,197.51	1,432.99	1,381.86	51.12	28.031	
7,300.00	7,269.54	7,302.25	7,259.54	25.98	26.21	-90.30	-241.12	-1,197.51	1,432.99	1,381.18	51.81	27.659	
7,400.00	7,369.54	7,402.25	7,359.54	26.33	26.55	-90.30	-241.12	-1,197.51	1,432.99	1,380.49	52.50	27.295	
7,500.00	7,469.54	7,502.25	7,459.54	26.68	26.88	-90.30	-241.12	-1,197.51	1,432.99	1,379.80	53.19	26.941	
7,600.00	7,569.54	7,602.25	7,559.54	27.03	27.22	-90.30	-241.12	-1,197.51	1,432.99	1,379.11	53.88	26.596	
7,700.00	7,669.54	7,702.25	7,659.54	27.37	27.56	-90.30	-241.12	-1,197.51	1,432.99	1,378.41	54.57	26.259	
7,800.00	7,769.54	7,802.25	7,759.54	27.72	27.90	-90.30	-241.12	-1,197.51	1,432.99	1,377.72	55.26	25.930	
7,900.00	7,869.54	7,902.25	7,859.54	28.07	28.24	-90.30	-241.12	-1,197.51	1,432.99	1,377.03	55.96	25.609	
8,000.00	7,969.54	8,002.25	7,959.54	28.42	28.59	-90.30	-241.12	-1,197.51	1,432.99	1,376.34	56.65	25.296	
8,100.00	8,069.54	8,102.25	8,059.54	28.77	28.93	-90.30	-241.12	-1,197.51	1,432.99	1,375.64	57.34	24.990	
8,200.00	8,169.54	8,202.25	8,159.54	29.12	29.27	-90.30	-241.12	-1,197.51	1,432.99	1,374.95	58.04	24.691	
8,300.00	8,269.54	8,302.25	8,259.54	29.47	29.61	-90.30	-241.12	-1,197.51	1,432.99	1,374.25	58.73	24.398	
8,400.00	8,369.54	8,402.25	8,359.54	29.82	29.95	-90.30	-241.12	-1,197.51	1,432.99	1,373.56	59.43	24.113	
8,500.00	8,469.54	8,502.25	8,459.54	30.17	30.30	-90.30	-241.12	-1,197.51	1,432.99	1,372.86	60.12	23.834	
8,600.00	8,569.54	8,602.25	8,559.54	30.52	30.64	-90.30	-241.12	-1,197.51	1,432.99	1,372.17	60.82	23.561	
8,700.00	8,669.54	8,702.25	8,659.54	30.87	30.99	-90.30	-241.12	-1,197.51	1,432.99	1,371.47	61.52	23.294	
8,800.00	8,769.54	8,802.25	8,759.54	31.22	31.33	-90.30	-241.12	-1,197.51	1,432.99	1,370.77	62.22	23.033	
8,900.00	8,869.54	8,902.25	8,859.54	31.57	31.67	-90.30	-241.12	-1,197.51	1,432.99	1,370.07	62.91	22.777	
9,000.00	8,969.54	9,005.18	8,962.47	31.93	32.03	-90.30	-241.06	-1,197.50	1,432.98	1,369.36	63.62	22.523	
9,100.00	9,069.54	9,154.45	9,109.76	32.28	32.48	-89.44	-219.76	-1,194.62	1,431.03	1,366.61	64.42	22.214	
9,200.00	9,169.54	9,284.91	9,230.21	32.63	32.79	-87.47	-170.82	-1,188.00	1,426.60	1,361.56	65.04	21.935	
9,300.00	9,269.54	9,389.52	9,316.77	32.98	32.98	-85.12	-112.87	-1,180.17	1,421.92	1,356.36	65.57	21.687	
9,400.00	9,369.54	9,470.24	9,375.45	33.33	33.10	-82.89	-58.04	-1,172.75	1,419.21	1,353.19	66.02	21.495	
9,428.96	9,398.50	9,489.86	9,388.50	33.43	33.13	-82.30	-43.52	-1,170.79	1,419.04	1,352.91	66.14	21.456	
9,500.00	9,469.54	9,532.12	9,414.85	33.68	33.18	-80.97	-10.78	-1,166.36	1,420.13	1,353.76	66.37	21.396	
9,600.00	9,569.54	9,580.04	9,441.68	34.04	33.24	-79.37	28.54	-1,161.05	1,425.79	1,359.22	66.56	21.420	
9,700.00	9,669.54	9,617.75	9,460.41	34.39	33.29	-78.05	60.97	-1,156.66	1,436.82	1,370.25	66.57	21.584	
9,800.00	9,769.54	9,650.00	9,474.69	34.74	33.33	-76.89	89.62	-1,152.79	1,453.57	1,387.19	66.39	21.896	
9,900.00	9,869.54	9,672.58	9,483.72	35.09	33.37	-76.06	110.13	-1,150.02	1,476.13	1,410.13	66.00	22.364	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error:	0.00 usft		
Measured	Reference	Measured	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth	Vertical	Depth	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	(usft)	(usft)			
10,000.00	9,969.54	9,700.00	9,493.56	35.45	33.40	-75.05	135.49	-1,146.59	1,504.48	1,438.98	65.50	22.969		
10,100.00	10,069.54	9,700.00	9,493.56	35.80	33.40	-75.05	135.49	-1,146.59	1,538.39	1,473.66	64.73	23.766		
10,200.00	10,169.54	9,724.60	9,501.34	36.15	33.44	-74.12	158.61	-1,143.46	1,577.50	1,513.50	64.01	24.646		
10,300.00	10,269.54	9,750.00	9,508.32	36.51	33.48	-73.16	182.81	-1,140.19	1,621.78	1,558.56	63.22	25.653		
10,400.00	10,369.54	9,750.00	9,508.32	36.86	33.48	-73.16	182.81	-1,140.19	1,670.46	1,608.19	62.26	26.829		
10,500.00	10,469.54	9,750.00	9,508.32	37.21	33.48	-73.16	182.81	-1,140.19	1,723.56	1,662.27	61.30	28.119		
10,600.00	10,569.54	9,750.00	9,508.32	37.57	33.48	-73.16	182.81	-1,140.19	1,780.70	1,720.36	60.34	29.511		
10,700.00	10,669.54	9,773.22	9,513.75	37.92	33.52	-72.27	205.19	-1,137.16	1,841.06	1,781.52	59.54	30.919		
10,800.00	10,769.54	9,779.87	9,515.13	38.27	33.53	-72.02	211.63	-1,136.29	1,904.87	1,846.18	58.69	32.455		
10,900.00	10,869.54	9,800.00	9,518.87	38.63	33.56	-71.25	231.23	-1,133.64	1,971.79	1,913.84	57.96	34.022		
11,000.00	10,969.45	9,800.00	9,518.87	38.98	33.56	-65.99	231.23	-1,133.64	2,040.42	1,983.25	57.17	35.692		
11,100.00	11,067.64	9,800.00	9,518.87	39.30	33.56	-58.14	231.23	-1,133.64	2,106.88	2,050.48	56.40	37.358		
11,200.00	11,161.16	9,800.00	9,518.87	39.59	33.56	-51.64	231.23	-1,133.64	2,169.09	2,113.43	55.66	38.969		
11,300.00	11,247.17	9,829.86	9,523.12	39.83	33.62	-45.91	260.52	-1,129.68	2,224.80	2,169.69	55.10	40.376		
11,400.00	11,323.06	9,850.00	9,525.11	40.03	33.65	-41.76	280.37	-1,127.00	2,273.13	2,218.56	54.57	41.654		
11,500.00	11,386.52	9,866.71	9,526.23	40.18	33.69	-38.75	296.90	-1,124.76	2,312.72	2,258.59	54.13	42.726		
11,600.00	11,435.62	9,892.47	9,527.00	40.33	33.74	-36.58	322.41	-1,121.31	2,342.66	2,288.84	53.82	43.524		
11,700.00	11,468.88	9,963.42	9,527.53	40.54	33.91	-34.95	392.72	-1,111.81	2,361.38	2,307.65	53.73	43.949		
11,800.00	11,485.28	10,032.73	9,528.05	40.77	34.12	-34.30	461.46	-1,102.94	2,366.73	2,312.94	53.79	44.003		
11,900.00	11,486.77	10,100.00	9,528.56	41.03	34.34	-34.27	528.41	-1,096.52	2,361.45	2,307.45	54.00	43.728		
12,000.00	11,486.33	10,149.94	9,528.93	41.36	34.55	-34.20	578.24	-1,093.27	2,356.28	2,301.98	54.29	43.398		
12,100.00	11,485.90	10,200.00	9,529.31	41.74	34.75	-34.17	628.26	-1,091.33	2,352.90	2,298.24	54.66	43.043		
12,200.00	11,485.46	10,272.24	9,529.85	42.19	35.09	-34.16	700.49	-1,090.81	2,351.20	2,296.00	55.19	42.601		
12,300.00	11,485.02	10,372.23	9,530.60	42.70	35.62	-34.17	800.48	-1,091.48	2,350.22	2,294.32	55.89	42.047		
12,400.00	11,484.59	10,472.23	9,531.35	43.26	36.21	-34.19	900.47	-1,092.15	2,349.24	2,292.56	56.68	41.450		
12,500.00	11,484.15	10,572.22	9,532.09	43.88	36.87	-34.21	1,000.46	-1,092.81	2,348.26	2,290.72	57.54	40.813		
12,600.00	11,483.71	10,672.21	9,532.84	44.55	37.58	-34.22	1,100.45	-1,093.48	2,347.28	2,288.81	58.47	40.145		
12,700.00	11,483.27	10,772.20	9,533.59	45.27	38.36	-34.24	1,200.43	-1,094.15	2,346.31	2,286.83	59.47	39.450		
12,800.00	11,482.83	10,872.20	9,534.34	46.04	39.18	-34.26	1,300.42	-1,094.82	2,345.33	2,284.78	60.55	38.736		
12,900.00	11,482.39	10,972.19	9,535.08	46.85	40.06	-34.27	1,400.41	-1,095.49	2,344.35	2,282.67	61.68	38.006		
13,000.00	11,481.95	11,072.18	9,535.83	47.71	40.99	-34.29	1,500.40	-1,096.16	2,343.37	2,280.49	62.88	37.267		
13,100.00	11,481.52	11,172.18	9,536.58	48.61	41.96	-34.30	1,600.39	-1,096.83	2,342.39	2,278.26	64.14	36.522		
13,200.00	11,481.08	11,272.17	9,537.33	49.55	42.97	-34.32	1,700.37	-1,097.49	2,341.42	2,275.97	65.44	35.778		
13,300.00	11,480.64	11,372.16	9,538.07	50.52	44.03	-34.34	1,800.36	-1,098.16	2,340.44	2,273.64	66.80	35.036		
13,400.00	11,480.20	11,472.16	9,538.82	51.53	45.11	-34.35	1,900.35	-1,098.83	2,339.46	2,271.25	68.21	34.300		
13,500.00	11,479.75	11,572.15	9,539.57	52.57	46.24	-34.37	2,000.34	-1,099.50	2,338.48	2,268.83	69.65	33.573		
13,600.00	11,479.31	11,672.14	9,540.32	53.65	47.39	-34.39	2,100.33	-1,100.17	2,337.50	2,266.36	71.15	32.855		
13,700.00	11,478.87	11,772.13	9,541.06	54.75	48.57	-34.40	2,200.31	-1,100.84	2,336.52	2,263.84	72.68	32.149		
13,800.00	11,478.43	11,872.13	9,541.81	55.88	49.78	-34.42	2,300.30	-1,101.51	2,335.54	2,261.30	74.24	31.458		
13,900.00	11,477.99	11,972.12	9,542.56	57.03	51.01	-34.44	2,400.29	-1,102.17	2,334.57	2,258.72	75.84	30.781		
14,000.00	11,477.55	12,072.11	9,543.31	58.21	52.27	-34.45	2,500.28	-1,102.84	2,333.59	2,256.11	77.48	30.119		
14,100.00	11,477.11	12,172.11	9,544.05	59.41	53.55	-34.47	2,600.26	-1,103.51	2,332.61	2,253.46	79.14	29.474		
14,200.00	11,476.66	12,272.10	9,544.80	60.64	54.85	-34.49	2,700.25	-1,104.18	2,331.63	2,250.79	80.84	28.844		
14,300.00	11,476.22	12,372.09	9,545.55	61.88	56.17	-34.50	2,800.24	-1,104.85	2,330.65	2,248.09	82.56	28.231		
14,400.00	11,475.78	12,472.08	9,546.30	63.14	57.50	-34.52	2,900.23	-1,105.52	2,329.67	2,245.37	84.30	27.636		
14,500.00	11,475.34	12,572.08	9,547.04	64.42	58.85	-34.54	3,000.22	-1,106.19	2,328.69	2,242.63	86.07	27.057		
14,600.00	11,474.89	12,672.07	9,547.79	65.72	60.22	-34.55	3,100.20	-1,106.85	2,327.71	2,239.86	87.86	26.495		
14,700.00	11,474.45	12,772.06	9,548.54	67.03	61.60	-34.57	3,200.19	-1,107.52	2,326.73	2,237.07	89.66	25.950		
14,800.00	11,474.00	12,872.06	9,549.29	68.36	63.00	-34.59	3,300.18	-1,108.19	2,325.75	2,234.26	91.49	25.420		
14,900.00	11,473.56	12,972.05	9,550.03	69.70	64.40	-34.60	3,400.17	-1,108.86	2,324.77	2,231.43	93.34	24.906		
15,000.00	11,473.12	13,072.04	9,550.78	71.06	65.82	-34.62	3,500.16	-1,109.53	2,323.79	2,228.59	95.20	24.408		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD		Reference Offset		Semi Major Axis			Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,100.00	11,472.67	13,172.03	9,551.53	72.43	67.25	-34.64	3,600.14	-1,110.20	2,322.81	2,225.73	97.09	23.925			
15,200.00	11,472.23	13,272.03	9,552.28	73.81	68.69	-34.65	3,700.13	-1,110.87	2,321.83	2,222.85	98.98	23.457			
15,300.00	11,471.78	13,372.02	9,553.03	75.20	70.14	-34.67	3,800.12	-1,111.53	2,320.85	2,219.96	100.89	23.003			
15,400.00	11,471.34	13,472.01	9,553.77	76.60	71.60	-34.69	3,900.11	-1,112.20	2,319.87	2,217.06	102.82	22.563			
15,500.00	11,470.89	13,572.01	9,554.52	78.01	73.06	-34.70	4,000.10	-1,112.87	2,318.89	2,214.14	104.75	22.137			
15,600.00	11,470.44	13,672.00	9,555.27	79.43	74.54	-34.72	4,100.08	-1,113.54	2,317.91	2,211.21	106.70	21.723			
15,700.00	11,470.00	13,771.99	9,556.02	80.86	76.02	-34.74	4,200.07	-1,114.21	2,316.93	2,208.27	108.66	21.322			
15,800.00	11,469.55	13,871.98	9,556.76	82.30	77.51	-34.75	4,300.06	-1,114.88	2,315.95	2,205.32	110.64	20.933			
15,900.00	11,469.10	13,971.98	9,557.51	83.74	79.00	-34.77	4,400.05	-1,115.55	2,314.97	2,202.36	112.61	20.557			
16,000.00	11,468.66	14,071.97	9,558.26	85.20	80.50	-34.79	4,500.03	-1,116.21	2,313.99	2,199.39	114.61	20.191			
16,100.00	11,468.21	14,171.96	9,559.01	86.66	82.01	-34.80	4,600.02	-1,116.88	2,313.01	2,196.41	116.61	19.836			
16,200.00	11,467.76	14,271.96	9,559.75	88.13	83.52	-34.82	4,700.01	-1,117.55	2,312.03	2,193.42	118.62	19.492			
16,300.00	11,467.32	14,371.95	9,560.50	89.60	85.04	-34.84	4,800.00	-1,118.22	2,311.05	2,190.42	120.63	19.158			
16,400.00	11,466.87	14,471.94	9,561.25	91.08	86.57	-34.86	4,899.99	-1,118.89	2,310.07	2,187.41	122.66	18.834			
16,500.00	11,466.42	14,571.93	9,562.00	92.57	88.09	-34.87	4,999.97	-1,119.56	2,309.09	2,184.40	124.69	18.519			
16,600.00	11,465.97	14,671.93	9,562.74	94.06	89.63	-34.89	5,099.96	-1,120.23	2,308.11	2,181.38	126.73	18.213			
16,700.00	11,465.52	14,771.92	9,563.49	95.56	91.16	-34.91	5,199.95	-1,120.89	2,307.13	2,178.36	128.77	17.916			
16,800.00	11,465.07	14,871.91	9,564.24	97.06	92.71	-34.92	5,299.94	-1,121.56	2,306.15	2,175.32	130.83	17.627			
16,900.00	11,464.62	14,971.91	9,564.99	98.57	94.25	-34.94	5,399.92	-1,122.23	2,305.17	2,172.28	132.88	17.347			
17,000.00	11,464.17	15,071.90	9,565.73	100.08	95.80	-34.96	5,499.91	-1,122.90	2,304.19	2,169.24	134.95	17.074			
17,100.00	11,463.72	15,171.89	9,566.48	101.60	97.35	-34.98	5,599.90	-1,123.57	2,303.21	2,166.19	137.02	16.809			
17,200.00	11,463.27	15,271.88	9,567.23	103.12	98.91	-34.99	5,699.89	-1,124.24	2,302.23	2,163.13	139.09	16.552			
17,300.00	11,462.82	15,371.88	9,567.98	104.65	100.47	-35.01	5,799.88	-1,124.91	2,301.24	2,160.07	141.17	16.301			
17,400.00	11,462.37	15,471.87	9,568.72	106.18	102.03	-35.03	5,899.86	-1,125.57	2,300.26	2,157.00	143.26	16.057			
17,500.00	11,461.92	15,571.86	9,569.47	107.71	103.59	-35.04	5,999.85	-1,126.24	2,299.28	2,153.93	145.35	15.819			
17,600.00	11,461.47	15,671.86	9,570.22	109.25	105.16	-35.06	6,099.84	-1,126.91	2,298.30	2,150.86	147.44	15.588			
17,700.00	11,461.02	15,771.85	9,570.97	110.79	106.73	-35.08	6,199.83	-1,127.58	2,297.32	2,147.78	149.54	15.363			
17,800.00	11,460.57	15,871.84	9,571.71	112.33	108.31	-35.10	6,299.81	-1,128.25	2,296.34	2,144.70	151.64	15.143			
17,900.00	11,460.12	15,971.83	9,572.46	113.88	109.88	-35.11	6,399.80	-1,128.92	2,295.36	2,141.61	153.75	14.929			
18,000.00	11,459.66	16,071.83	9,573.21	115.43	111.46	-35.13	6,499.79	-1,129.59	2,294.38	2,138.52	155.86	14.721			
18,100.00	11,459.21	16,171.82	9,573.96	116.98	113.04	-35.15	6,599.78	-1,130.25	2,293.39	2,135.43	157.97	14.518			
18,200.00	11,458.76	16,271.81	9,574.70	118.54	114.62	-35.16	6,699.77	-1,130.92	2,292.41	2,132.33	160.08	14.320			
18,300.00	11,458.31	16,371.81	9,575.45	120.09	116.20	-35.18	6,799.75	-1,131.59	2,291.43	2,129.23	162.20	14.127			
18,400.00	11,457.85	16,471.80	9,576.20	121.66	117.79	-35.20	6,899.74	-1,132.26	2,290.45	2,126.12	164.32	13.939			
18,500.00	11,457.40	16,571.79	9,576.95	123.22	119.38	-35.22	6,999.73	-1,132.93	2,289.47	2,123.02	166.45	13.755			
18,600.00	11,456.95	16,671.78	9,577.69	124.78	120.97	-35.23	7,099.72	-1,133.60	2,288.49	2,119.91	168.58	13.575			
18,700.00	11,456.49	16,771.78	9,578.44	126.35	122.56	-35.25	7,199.70	-1,134.27	2,287.50	2,116.79	170.71	13.400			
18,800.00	11,456.04	16,871.77	9,579.19	127.92	124.15	-35.27	7,299.69	-1,134.93	2,286.52	2,113.68	172.84	13.229			
18,900.00	11,455.58	16,971.76	9,579.94	129.50	125.75	-35.29	7,399.68	-1,135.60	2,285.54	2,110.56	174.98	13.062			
19,000.00	11,455.13	17,071.76	9,580.68	131.07	127.35	-35.30	7,499.67	-1,136.27	2,284.56	2,107.44	177.11	12.899			
19,100.00	11,454.67	17,171.75	9,581.43	132.65	128.94	-35.32	7,599.66	-1,136.94	2,283.58	2,104.32	179.26	12.739			
19,200.00	11,454.22	17,271.74	9,582.18	134.22	130.54	-35.34	7,699.64	-1,137.61	2,282.59	2,101.20	181.40	12.583			
19,300.00	11,453.76	17,371.73	9,582.93	135.80	132.14	-35.35	7,799.63	-1,138.28	2,281.61	2,098.07	183.54	12.431			
19,400.00	11,453.31	17,471.73	9,583.67	137.39	133.75	-35.37	7,899.62	-1,138.95	2,280.63	2,094.94	185.69	12.282			
19,500.00	11,452.85	17,571.72	9,584.42	138.97	135.35	-35.39	7,999.61	-1,139.61	2,279.65	2,091.81	187.83	12.136			
19,600.00	11,452.39	17,671.71	9,585.17	140.56	136.95	-35.41	8,099.59	-1,140.28	2,278.66	2,088.68	189.99	11.994			
19,700.00	11,451.94	17,771.70	9,585.92	142.14	138.56	-35.42	8,199.58	-1,140.95	2,277.68	2,085.54	192.14	11.854			
19,800.00	11,451.48	17,871.70	9,586.66	143.73	140.17	-35.44	8,299.57	-1,141.62	2,276.70	2,082.41	194.29	11.718			
19,900.00	11,451.02	17,971.69	9,587.41	145.32	141.78	-35.46	8,399.56	-1,142.29	2,275.72	2,079.27	196.45	11.584			
20,000.00	11,450.57	18,071.68	9,588.16	146.91	143.38	-35.48	8,499.55	-1,142.96	2,274.73	2,076.13	198.60	11.454			
20,100.00	11,450.11	18,171.68	9,588.91	148.51	144.99	-35.50	8,599.53	-1,143.63	2,273.75	2,072.99	200.76	11.326			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,200.00	11,449.65	18,271.67	9,589.65	150.10	146.61	-35.51	8,699.52	-1,144.29	2,272.77	2,069.85	202.92	11.200	
20,300.00	11,449.19	18,371.66	9,590.40	151.70	148.22	-35.53	8,799.51	-1,144.96	2,271.79	2,066.70	205.08	11.077	
20,400.00	11,448.73	18,471.65	9,591.15	153.29	149.83	-35.55	8,899.50	-1,145.63	2,270.80	2,063.56	207.24	10.957	
20,500.00	11,448.27	18,571.65	9,591.90	154.89	151.45	-35.57	8,999.48	-1,146.30	2,269.82	2,060.41	209.41	10.839	
20,600.00	11,447.82	18,671.64	9,592.64	156.49	153.06	-35.58	9,099.47	-1,146.97	2,268.84	2,057.26	211.57	10.724	
20,700.00	11,447.36	18,771.63	9,593.39	158.09	154.68	-35.60	9,199.46	-1,147.64	2,267.85	2,054.11	213.74	10.610	
20,800.00	11,446.90	18,871.62	9,594.14	159.70	156.29	-35.62	9,299.45	-1,148.31	2,266.87	2,050.96	215.91	10.499	
20,900.00	11,446.44	18,971.62	9,594.89	161.30	157.91	-35.64	9,399.43	-1,148.97	2,265.89	2,047.81	218.08	10.390	
21,000.00	11,445.98	19,071.61	9,595.64	162.90	159.53	-35.65	9,499.42	-1,149.64	2,264.91	2,044.66	220.25	10.284	
21,100.00	11,445.52	19,171.60	9,596.38	164.51	161.15	-35.67	9,599.41	-1,150.31	2,263.92	2,041.50	222.42	10.179	
21,200.00	11,445.06	19,271.60	9,597.13	166.11	162.77	-35.69	9,699.40	-1,150.98	2,262.94	2,038.35	224.59	10.076	
21,300.00	11,444.60	19,371.59	9,597.88	167.72	164.39	-35.71	9,799.39	-1,151.65	2,261.96	2,035.19	226.76	9.975	
21,400.00	11,444.14	19,471.58	9,598.63	169.33	166.01	-35.73	9,899.37	-1,152.32	2,260.97	2,032.04	228.93	9.876	
21,500.00	11,443.67	19,571.57	9,599.37	170.94	167.63	-35.74	9,999.36	-1,152.99	2,259.99	2,028.88	231.11	9.779	
21,600.00	11,443.21	19,671.57	9,600.12	172.55	169.26	-35.76	10,099.35	-1,153.65	2,259.01	2,025.72	233.28	9.684	
21,700.00	11,442.75	19,771.56	9,600.87	174.16	170.88	-35.78	10,199.34	-1,154.32	2,258.02	2,022.56	235.46	9.590	
21,800.00	11,442.29	19,871.55	9,601.62	175.77	172.50	-35.80	10,299.32	-1,154.99	2,257.04	2,019.40	237.64	9.498	
21,862.35	11,442.00	19,923.02	9,602.00	176.77	173.30	-35.81	10,350.79	-1,155.34	2,256.45	2,017.63	238.82	9.448 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-7.48	199.91	-26.24	201.62				
100.00	100.00	100.00	100.00	0.13	0.13	-7.48	199.91	-26.24	201.62	201.36	0.27	749.940	
200.00	200.00	200.00	200.00	0.49	0.49	-7.48	199.91	-26.24	201.62	200.64	0.99	204.529	
300.00	300.00	300.00	300.00	0.85	0.85	-7.48	199.91	-26.24	201.62	199.92	1.70	118.412	
400.00	400.00	400.00	400.00	1.21	1.21	-7.48	199.91	-26.24	201.62	199.20	2.42	83.327	
500.00	500.00	500.00	500.00	1.57	1.57	-7.48	199.91	-26.24	201.62	198.49	3.14	64.281	
600.00	600.00	600.00	600.00	1.93	1.93	-7.48	199.91	-26.24	201.62	197.77	3.85	52.321	
700.00	700.00	700.00	700.00	2.29	2.29	-7.48	199.91	-26.24	201.62	197.05	4.57	44.114	
800.00	800.00	800.00	800.00	2.64	2.64	-7.48	199.91	-26.24	201.62	196.34	5.29	38.133	
900.00	900.00	900.00	900.00	3.00	3.00	-7.48	199.91	-26.24	201.62	195.62	6.00	33.579	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-7.48	199.91	-26.24	201.62	194.90	6.72	29.998	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-7.48	199.91	-26.24	201.62	194.19	7.44	27.106	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-7.48	199.91	-26.24	201.62	193.47	8.16	24.723	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-7.48	199.91	-26.24	201.62	192.75	8.87	22.725	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-7.48	199.91	-26.24	201.62	192.04	9.59	21.026	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-7.48	199.91	-26.24	201.62	191.32	10.31	19.564	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-7.48	199.91	-26.24	201.62	190.60	11.02	18.291	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-7.48	199.91	-26.24	201.62	189.88	11.74	17.174	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-7.48	199.91	-26.24	201.62	189.17	12.46	16.186	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-7.48	199.91	-26.24	201.62	188.45	13.17	15.305	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-7.48	199.91	-26.24	201.62	187.73	13.89	14.515	
2,100.00	2,099.98	2,099.98	2,099.98	7.29	7.30	-142.54	199.91	-26.24	203.01	188.41	14.59	13.912	
2,200.00	2,199.84	2,199.84	2,199.84	7.62	7.66	-143.37	199.91	-26.24	207.19	191.91	15.28	13.558	
2,300.00	2,299.45	2,307.32	2,307.29	7.95	8.03	-144.71	198.02	-25.56	212.41	196.44	15.97	13.300	
2,400.00	2,398.70	2,415.00	2,414.80	8.30	8.38	-146.40	192.32	-23.51	216.94	200.31	16.63	13.046	
2,500.00	2,497.47	2,522.83	2,522.15	8.65	8.73	-148.41	182.81	-20.09	220.86	203.58	17.27	12.787	
2,600.00	2,595.62	2,630.76	2,629.14	9.01	9.10	-150.75	169.49	-15.30	224.30	206.41	17.90	12.532	
2,700.00	2,693.44	2,738.82	2,735.65	9.39	9.47	-153.23	152.37	-9.14	225.87	207.37	18.51	12.205	
2,800.00	2,791.25	2,843.23	2,837.91	9.77	9.85	-155.60	132.54	-2.01	224.40	205.26	19.14	11.724	
2,900.00	2,889.07	2,942.81	2,935.31	10.17	10.21	-157.90	113.06	5.00	222.68	202.85	19.83	11.230	
3,000.00	2,986.88	3,042.39	3,032.72	10.57	10.59	-160.22	93.58	12.01	221.32	200.80	20.52	10.783	
3,100.00	3,084.70	3,141.97	3,130.12	10.99	10.98	-162.57	74.10	19.01	220.34	199.11	21.22	10.381	
3,200.00	3,182.51	3,241.55	3,227.53	11.41	11.38	-164.94	54.62	26.02	219.73	197.80	21.93	10.019	
3,300.00	3,280.33	3,341.13	3,324.93	11.83	11.78	-167.31	35.13	33.03	219.50	196.85	22.65	9.693	
3,309.95	3,290.06	3,351.04	3,334.62	11.87	11.82	-167.55	33.20	33.73	219.50	196.78	22.72	9.662	
3,400.00	3,378.14	3,440.71	3,422.34	12.26	12.19	-169.69	15.65	40.04	219.65	196.29	23.37	9.400	
3,500.00	3,475.96	3,540.29	3,519.74	12.69	12.61	-172.06	-3.83	47.04	220.18	196.09	24.09	9.138	
3,600.00	3,573.77	3,639.88	3,617.14	13.13	13.03	-174.41	-23.31	54.05	221.09	196.25	24.83	8.903	
3,700.00	3,671.97	3,739.47	3,714.56	13.57	13.45	-176.71	-42.80	61.06	220.39	194.81	25.58	8.616	
3,800.00	3,770.78	3,839.01	3,811.92	13.98	13.88	-179.01	-62.27	68.07	216.57	190.23	26.33	8.224	
3,900.00	3,870.05	3,938.36	3,909.11	14.38	14.32	-178.59	-81.71	75.06	209.62	182.53	27.10	7.736	
4,000.00	3,969.69	4,037.41	4,005.99	14.75	14.75	-175.96	-101.08	82.03	199.60	171.73	27.87	7.162	
4,100.00	4,069.56	4,136.03	4,102.46	15.11	15.19	-172.91	-120.38	88.97	186.59	157.94	28.66	6.512	
4,200.00	4,169.54	4,234.12	4,198.40	15.44	15.63	-166.02	-139.57	95.87	170.79	141.32	29.47	5.796	
4,300.00	4,269.54	4,331.93	4,294.08	15.77	16.06	-160.55	-158.71	102.75	154.37	124.05	30.32	5.092	
4,400.00	4,369.54	4,429.23	4,389.26	16.10	16.50	-166.04	-177.70	109.59	139.15	107.92	31.23	4.456	
4,500.00	4,469.54	4,524.55	4,482.91	16.43	16.92	-171.88	-194.42	115.60	126.82	94.63	32.19	3.939	
4,600.00	4,569.54	4,620.99	4,578.19	16.76	17.33	-177.57	-208.34	120.60	117.93	84.80	33.13	3.559	
4,700.00	4,669.54	4,718.32	4,674.83	17.09	17.71	-182.63	-219.31	124.55	111.95	77.93	34.02	3.291	
4,800.00	4,769.54	4,816.35	4,772.48	17.43	18.09	-186.61	-227.24	127.41	108.28	73.44	34.84	3.108	
4,900.00	4,869.54	4,914.84	4,870.84	17.76	18.44	-189.13	-232.04	129.13	106.35	70.75	35.60	2.988	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
5,000.00	4,969.54	5,013.57	4,969.55	18.10	18.77	-90.00	-233.65	129.71	105.75	69.47	36.28	2.915		
5,033.45	5,002.99	5,047.01	5,002.99	18.21	18.87	-90.00	-233.65	129.71	105.75	69.25	36.50	2.897		
5,100.00	5,069.54	5,113.56	5,069.54	18.43	19.08	-90.00	-233.65	129.71	105.75	68.81	36.94	2.863		
5,200.00	5,169.54	5,213.56	5,169.54	18.77	19.40	-90.00	-233.65	129.71	105.75	68.15	37.60	2.812		
5,300.00	5,269.54	5,313.56	5,269.54	19.11	19.72	-90.00	-233.65	129.71	105.75	67.48	38.27	2.764		
5,400.00	5,369.54	5,413.56	5,369.54	19.45	20.04	-90.00	-233.65	129.71	105.75	66.82	38.93	2.716		
5,500.00	5,469.54	5,513.56	5,469.54	19.79	20.36	-90.00	-233.65	129.71	105.75	66.15	39.60	2.671		
5,600.00	5,569.54	5,613.56	5,569.54	20.13	20.68	-90.00	-233.65	129.71	105.75	65.48	40.27	2.626		
5,700.00	5,669.54	5,713.56	5,669.54	20.47	21.01	-90.00	-233.65	129.71	105.75	64.81	40.94	2.583		
5,800.00	5,769.54	5,813.56	5,769.54	20.81	21.33	-90.00	-233.65	129.71	105.75	64.14	41.61	2.541		
5,900.00	5,869.54	5,913.56	5,869.54	21.15	21.66	-90.00	-233.65	129.71	105.75	63.47	42.28	2.501		
6,000.00	5,969.54	6,013.56	5,969.54	21.49	21.99	-90.00	-233.65	129.71	105.75	62.79	42.96	2.462		
6,100.00	6,069.54	6,113.56	6,069.54	21.83	22.31	-90.00	-233.65	129.71	105.75	62.11	43.64	2.423		
6,200.00	6,169.54	6,213.56	6,169.54	22.18	22.64	-90.00	-233.65	129.71	105.75	61.44	44.31	2.386		
6,300.00	6,269.54	6,313.56	6,269.54	22.52	22.97	-90.00	-233.65	129.71	105.75	60.76	44.99	2.350		
6,400.00	6,369.54	6,413.56	6,369.54	22.87	23.30	-90.00	-233.65	129.71	105.75	60.08	45.67	2.315		
6,500.00	6,469.54	6,513.56	6,469.54	23.21	23.64	-90.00	-233.65	129.71	105.75	59.40	46.35	2.281		
6,600.00	6,569.54	6,613.56	6,569.54	23.56	23.97	-90.00	-233.65	129.71	105.75	58.71	47.04	2.248		
6,700.00	6,669.54	6,713.56	6,669.54	23.90	24.30	-90.00	-233.65	129.71	105.75	58.03	47.72	2.216		
6,800.00	6,769.54	6,813.56	6,769.54	24.25	24.64	-90.00	-233.65	129.71	105.75	57.35	48.40	2.185		
6,900.00	6,869.54	6,913.56	6,869.54	24.59	24.97	-90.00	-233.65	129.71	105.75	56.66	49.09	2.154		
7,000.00	6,969.54	7,013.56	6,969.54	24.94	25.30	-90.00	-233.65	129.71	105.75	55.98	49.77	2.125		
7,100.00	7,069.54	7,113.56	7,069.54	25.29	25.64	-90.00	-233.65	129.71	105.75	55.29	50.46	2.096		
7,200.00	7,169.54	7,213.56	7,169.54	25.63	25.98	-90.00	-233.65	129.71	105.75	54.60	51.15	2.068		
7,300.00	7,269.54	7,313.56	7,269.54	25.98	26.31	-90.00	-233.65	129.71	105.75	53.91	51.84	2.040		
7,400.00	7,369.54	7,413.56	7,369.54	26.33	26.65	-90.00	-233.65	129.71	105.75	53.22	52.53	2.013		
7,500.00	7,469.54	7,513.56	7,469.54	26.68	26.99	-90.00	-233.65	129.71	105.75	52.53	53.22	1.987		
7,600.00	7,569.54	7,613.56	7,569.54	27.03	27.33	-90.00	-233.65	129.71	105.75	51.84	53.91	1.962		
7,700.00	7,669.54	7,713.56	7,669.54	27.37	27.67	-90.00	-233.65	129.71	105.75	51.15	54.60	1.937		
7,800.00	7,769.54	7,813.56	7,769.54	27.72	28.01	-90.00	-233.65	129.71	105.75	50.46	55.29	1.913		
7,900.00	7,869.54	7,913.56	7,869.54	28.07	28.35	-90.00	-233.65	129.71	105.75	49.77	55.98	1.889		
8,000.00	7,969.54	8,013.56	7,969.54	28.42	28.69	-90.00	-233.65	129.71	105.75	49.08	56.67	1.866		
8,100.00	8,069.54	8,113.56	8,069.54	28.77	29.03	-90.00	-233.65	129.71	105.75	48.38	57.37	1.843		
8,200.00	8,169.54	8,213.56	8,169.54	29.12	29.37	-90.00	-233.65	129.71	105.75	47.69	58.06	1.821		
8,300.00	8,269.54	8,313.56	8,269.54	29.47	29.71	-90.00	-233.65	129.71	105.75	46.99	58.76	1.800		
8,400.00	8,369.54	8,413.56	8,369.54	29.82	30.05	-90.00	-233.65	129.71	105.75	46.30	59.45	1.779		
8,500.00	8,469.54	8,513.56	8,469.54	30.17	30.40	-90.00	-233.65	129.71	105.75	45.60	60.15	1.758		
8,600.00	8,569.54	8,613.56	8,569.54	30.52	30.74	-90.00	-233.65	129.71	105.75	44.90	60.84	1.738		
8,700.00	8,669.54	8,713.56	8,669.54	30.87	31.08	-90.00	-233.65	129.71	105.75	44.21	61.54	1.718		
8,800.00	8,769.54	8,813.56	8,769.54	31.22	31.43	-90.00	-233.65	129.71	105.75	43.51	62.24	1.699		
8,900.00	8,869.54	8,913.56	8,869.54	31.57	31.77	-90.00	-233.65	129.71	105.75	42.81	62.94	1.680		
9,000.00	8,969.54	9,013.56	8,969.54	31.93	32.11	-90.00	-233.65	129.71	105.75	42.12	63.63	1.662		
9,100.00	9,069.54	9,114.85	9,070.65	32.28	32.45	-87.57	-229.20	130.27	105.29	40.99	64.30	1.638		
9,152.04	9,121.58	9,166.55	9,121.58	32.46	32.60	-82.80	-220.50	131.37	104.92	40.40	64.52	1.626 CC, ES, SF		
9,200.00	9,169.54	9,212.48	9,166.01	32.63	32.73	-76.49	-208.98	132.83	105.62	41.06	64.55	1.636		
9,300.00	9,269.54	9,300.00	9,247.45	32.98	32.94	-60.33	-177.45	136.81	115.66	52.69	62.97	1.837		
9,400.00	9,369.54	9,378.09	9,315.31	33.33	33.09	-44.81	-139.21	141.64	143.74	84.30	59.44	2.418		
9,500.00	9,469.54	9,443.58	9,367.73	33.68	33.21	-33.70	-100.34	146.55	189.85	134.28	55.57	3.416		
9,600.00	9,569.54	9,500.00	9,409.06	34.04	33.29	-26.14	-62.27	151.36	249.40	196.80	52.60	4.742		
9,700.00	9,669.54	9,550.00	9,442.38	34.39	33.35	-20.87	-25.30	156.03	318.31	267.81	50.50	6.304		
9,800.00	9,769.54	9,583.12	9,462.61	34.74	33.39	-18.00	0.70	159.32	393.61	345.54	48.07	8.188		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
9,900.00	9,869.54	9,615.67	9,480.98	35.09	33.43	-15.58	27.36	162.68	473.71	427.12	46.59	10.167	
10,000.00	9,969.54	9,650.00	9,498.67	35.45	33.47	-13.39	56.54	166.37	557.41	511.61	45.80	12.171	
10,100.00	10,069.54	9,667.04	9,506.79	35.80	33.48	-12.43	71.41	168.25	643.63	599.08	44.56	14.446	
10,200.00	10,169.54	9,700.00	9,521.22	36.15	33.52	-10.75	100.80	171.96	732.27	687.91	44.36	16.507	
10,300.00	10,269.54	9,700.00	9,521.22	36.51	33.52	-10.75	100.80	171.96	822.12	778.92	43.20	19.033	
10,400.00	10,369.54	9,720.92	9,529.48	36.86	33.55	-9.80	119.87	174.37	913.46	870.47	43.00	21.245	
10,500.00	10,469.54	9,750.00	9,539.78	37.21	33.58	-8.62	146.85	177.78	1,006.26	963.13	43.13	23.332	
10,600.00	10,569.54	9,750.00	9,539.78	37.57	33.58	-8.62	146.85	177.78	1,099.32	1,056.68	42.63	25.785	
10,700.00	10,669.54	9,750.00	9,539.78	37.92	33.58	-8.62	146.85	177.78	1,193.51	1,151.19	42.32	28.203	
10,800.00	10,769.54	9,767.64	9,545.36	38.27	33.61	-7.97	163.45	179.88	1,288.18	1,245.74	42.44	30.353	
10,900.00	10,869.54	9,776.49	9,547.96	38.63	33.62	-7.66	171.84	180.94	1,383.46	1,341.00	42.46	32.582	
11,000.00	10,969.45	9,800.00	9,554.24	38.98	33.65	-4.98	194.32	183.78	1,478.64	1,435.92	42.72	34.614	
11,100.00	11,067.64	9,800.00	9,554.24	39.30	33.65	-3.50	194.32	183.78	1,568.02	1,525.53	42.49	36.902	
11,200.00	11,161.16	9,800.00	9,554.24	39.59	33.65	-2.72	194.32	183.78	1,650.20	1,608.00	42.20	39.101	
11,300.00	11,247.17	9,828.94	9,560.68	39.83	33.70	-2.04	222.30	187.31	1,722.91	1,680.73	42.18	40.848	
11,400.00	11,323.06	9,850.00	9,564.47	40.03	33.73	-1.65	242.86	189.91	1,785.36	1,743.33	42.03	42.475	
11,500.00	11,386.52	9,850.00	9,564.47	40.18	33.73	-1.49	242.86	189.91	1,836.75	1,794.98	41.77	43.978	
11,600.00	11,435.62	9,900.00	9,570.39	40.33	33.82	-1.16	292.10	196.13	1,875.25	1,833.39	41.86	44.800	
11,700.00	11,468.88	9,900.00	9,570.39	40.54	33.82	-1.10	292.10	196.13	1,901.26	1,859.46	41.79	45.492	
11,800.00	11,485.28	9,940.17	9,572.00	40.77	33.90	-0.92	331.91	201.16	1,913.89	1,871.91	41.98	45.590	
11,900.00	11,486.77	10,016.02	9,572.38	41.03	34.08	-0.61	407.16	210.66	1,914.54	1,872.26	42.28	45.280	
12,000.00	11,486.33	10,114.74	9,572.88	41.36	34.38	-0.27	505.26	221.59	1,913.50	1,870.83	42.67	44.844	
12,100.00	11,485.90	10,214.13	9,573.38	41.74	34.77	-0.07	604.46	227.61	1,912.54	1,869.43	43.11	44.367	
12,200.00	11,485.46	10,313.98	9,573.88	42.19	35.22	-0.02	704.30	228.57	1,911.60	1,868.01	43.59	43.852	
12,300.00	11,485.02	10,413.98	9,574.38	42.70	35.74	-0.02	804.29	227.91	1,910.67	1,866.54	44.13	43.299	
12,400.00	11,484.59	10,513.98	9,574.88	43.26	36.33	-0.02	904.28	227.25	1,909.73	1,865.02	44.71	42.712	
12,500.00	11,484.15	10,613.97	9,575.38	43.88	36.98	-0.02	1,004.28	226.59	1,908.79	1,863.45	45.34	42.098	
12,600.00	11,483.71	10,713.97	9,575.88	44.55	37.69	-0.02	1,104.27	225.92	1,907.86	1,861.84	46.02	41.460	
12,700.00	11,483.27	10,813.96	9,576.38	45.27	38.46	-0.02	1,204.26	225.26	1,906.92	1,860.18	46.74	40.803	
12,800.00	11,482.83	10,913.96	9,576.87	46.04	39.29	-0.02	1,304.25	224.60	1,905.98	1,858.49	47.49	40.130	
12,900.00	11,482.39	11,013.95	9,577.37	46.85	40.16	-0.02	1,404.24	223.94	1,905.05	1,856.75	48.29	39.448	
13,000.00	11,481.95	11,113.95	9,577.87	47.71	41.08	-0.02	1,504.24	223.28	1,904.11	1,854.98	49.13	38.758	
13,100.00	11,481.52	11,213.94	9,578.37	48.61	42.05	-0.02	1,604.23	222.62	1,903.17	1,853.17	50.00	38.064	
13,200.00	11,481.08	11,313.94	9,578.87	49.55	43.06	-0.02	1,704.22	221.96	1,902.23	1,851.33	50.90	37.370	
13,300.00	11,480.64	11,413.94	9,579.37	50.52	44.10	-0.02	1,804.21	221.30	1,901.29	1,849.46	51.84	36.678	
13,400.00	11,480.20	11,513.93	9,579.86	51.53	45.19	-0.02	1,904.21	220.64	1,900.35	1,847.55	52.80	35.990	
13,500.00	11,479.75	11,613.93	9,580.36	52.57	46.31	-0.02	2,004.20	219.97	1,899.42	1,845.62	53.80	35.308	
13,600.00	11,479.31	11,713.92	9,580.86	53.65	47.45	-0.02	2,104.19	219.31	1,898.48	1,843.66	54.82	34.634	
13,700.00	11,478.87	11,813.92	9,581.36	54.75	48.63	-0.02	2,204.18	218.65	1,897.54	1,841.68	55.86	33.969	
13,800.00	11,478.43	11,913.91	9,581.86	55.88	49.84	-0.02	2,304.17	217.99	1,896.60	1,839.67	56.93	33.315	
13,900.00	11,477.99	12,013.91	9,582.36	57.03	51.07	-0.02	2,404.17	217.33	1,895.66	1,837.64	58.02	32.672	
14,000.00	11,477.55	12,113.90	9,582.86	58.21	52.32	-0.02	2,504.16	216.67	1,894.72	1,835.58	59.13	32.041	
14,100.00	11,477.11	12,213.90	9,583.35	59.41	53.60	-0.02	2,604.15	216.01	1,893.78	1,833.51	60.27	31.423	
14,200.00	11,476.66	12,313.90	9,583.85	60.64	54.89	-0.02	2,704.14	215.35	1,892.84	1,831.42	61.42	30.819	
14,300.00	11,476.22	12,413.89	9,584.35	61.88	56.21	-0.02	2,804.14	214.69	1,891.89	1,829.31	62.59	30.228	
14,400.00	11,475.78	12,513.89	9,584.85	63.14	57.54	-0.02	2,904.13	214.03	1,890.95	1,827.18	63.77	29.651	
14,500.00	11,475.34	12,613.88	9,585.35	64.42	58.89	-0.02	3,004.12	213.36	1,890.01	1,825.03	64.98	29.088	
14,600.00	11,474.89	12,713.88	9,585.85	65.72	60.25	-0.02	3,104.11	212.70	1,889.07	1,822.88	66.19	28.538	
14,700.00	11,474.45	12,813.87	9,586.34	67.03	61.63	-0.02	3,204.10	212.04	1,888.13	1,820.70	67.43	28.003	
14,800.00	11,474.00	12,913.87	9,586.84	68.36	63.02	-0.02	3,304.10	211.38	1,887.19	1,818.51	68.67	27.481	
14,900.00	11,473.56	13,013.86	9,587.34	69.70	64.43	-0.02	3,404.09	210.72	1,886.24	1,816.31	69.93	26.973	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,000.00	11,473.12	13,113.86	9,587.84	71.06	65.84	-0.02	3,504.08	210.06	1,885.30	1,814.10	71.20	26.479		
15,100.00	11,472.67	13,213.86	9,588.34	72.43	67.27	-0.02	3,604.07	209.40	1,884.36	1,811.87	72.48	25.997		
15,200.00	11,472.23	13,313.85	9,588.84	73.81	68.71	-0.02	3,704.06	208.74	1,883.41	1,809.64	73.78	25.529		
15,300.00	11,471.78	13,413.85	9,589.34	75.20	70.15	-0.02	3,804.06	208.08	1,882.47	1,807.39	75.08	25.073		
15,400.00	11,471.34	13,513.84	9,589.83	76.60	71.61	-0.02	3,904.05	207.41	1,881.53	1,805.13	76.39	24.629		
15,500.00	11,470.89	13,613.84	9,590.33	78.01	73.07	-0.02	4,004.04	206.75	1,880.58	1,802.87	77.72	24.198		
15,600.00	11,470.44	13,713.83	9,590.83	79.43	74.54	-0.02	4,104.03	206.09	1,879.64	1,800.59	79.05	23.778		
15,700.00	11,470.00	13,813.83	9,591.33	80.86	76.02	-0.02	4,204.02	205.43	1,878.69	1,798.30	80.39	23.370		
15,800.00	11,469.55	13,913.82	9,591.83	82.30	77.51	-0.02	4,304.02	204.77	1,877.75	1,796.01	81.74	22.973		
15,900.00	11,469.10	14,013.82	9,592.33	83.74	79.01	-0.02	4,404.01	204.11	1,876.80	1,793.71	83.09	22.587		
16,000.00	11,468.66	14,113.82	9,592.82	85.20	80.51	-0.02	4,504.00	203.45	1,875.86	1,791.40	84.46	22.211		
16,100.00	11,468.21	14,213.81	9,593.32	86.66	82.01	-0.02	4,603.99	202.79	1,874.91	1,789.08	85.83	21.845		
16,200.00	11,467.76	14,313.81	9,593.82	88.13	83.52	-0.02	4,703.99	202.13	1,873.97	1,786.76	87.20	21.490		
16,300.00	11,467.32	14,413.80	9,594.32	89.60	85.04	-0.02	4,803.98	201.46	1,873.02	1,784.43	88.59	21.143		
16,400.00	11,466.87	14,513.80	9,594.82	91.08	86.56	-0.01	4,903.97	200.80	1,872.07	1,782.10	89.98	20.806		
16,500.00	11,466.42	14,613.79	9,595.32	92.57	88.09	-0.01	5,003.96	200.14	1,871.13	1,779.75	91.37	20.478		
16,600.00	11,465.97	14,713.79	9,595.82	94.06	89.62	-0.01	5,103.95	199.48	1,870.18	1,777.41	92.77	20.159		
16,700.00	11,465.52	14,813.78	9,596.31	95.56	91.16	-0.01	5,203.95	198.82	1,869.23	1,775.05	94.18	19.848		
16,800.00	11,465.07	14,913.78	9,596.81	97.06	92.70	-0.01	5,303.94	198.16	1,868.28	1,772.70	95.59	19.545		
16,900.00	11,464.62	15,013.78	9,597.31	98.57	94.24	-0.01	5,403.93	197.50	1,867.34	1,770.33	97.00	19.250		
17,000.00	11,464.17	15,113.77	9,597.81	100.08	95.79	-0.01	5,503.92	196.84	1,866.39	1,767.96	98.42	18.963		
17,100.00	11,463.72	15,213.77	9,598.31	101.60	97.34	-0.01	5,603.91	196.18	1,865.44	1,765.59	99.85	18.682		
17,200.00	11,463.27	15,313.76	9,598.81	103.12	98.90	-0.01	5,703.91	195.52	1,864.49	1,763.21	101.28	18.410		
17,300.00	11,462.82	15,413.76	9,599.30	104.65	100.45	-0.01	5,803.90	194.85	1,863.54	1,760.83	102.71	18.143		
17,400.00	11,462.37	15,513.75	9,599.80	106.18	102.01	-0.01	5,903.89	194.19	1,862.59	1,758.44	104.15	17.884		
17,500.00	11,461.92	15,613.75	9,600.30	107.71	103.58	-0.01	6,003.88	193.53	1,861.64	1,756.05	105.59	17.631		
17,600.00	11,461.47	15,713.74	9,600.80	109.25	105.15	-0.01	6,103.87	192.87	1,860.69	1,753.66	107.03	17.384		
17,700.00	11,461.02	15,813.74	9,601.30	110.79	106.71	-0.01	6,203.87	192.21	1,859.74	1,751.26	108.48	17.143		
17,800.00	11,460.57	15,913.73	9,601.80	112.33	108.29	-0.01	6,303.86	191.55	1,858.79	1,748.86	109.93	16.908		
17,900.00	11,460.12	16,013.73	9,602.30	113.88	109.86	-0.01	6,403.85	190.89	1,857.84	1,746.46	111.39	16.679		
18,000.00	11,459.66	16,113.73	9,602.79	115.43	111.44	-0.01	6,503.84	190.23	1,856.89	1,744.05	112.84	16.455		
18,100.00	11,459.21	16,213.72	9,603.29	116.98	113.02	-0.01	6,603.83	189.57	1,855.94	1,741.64	114.30	16.237		
18,200.00	11,458.76	16,313.72	9,603.79	118.54	114.60	-0.01	6,703.83	188.90	1,854.99	1,739.22	115.77	16.023		
18,300.00	11,458.31	16,413.71	9,604.29	120.09	116.18	-0.01	6,803.82	188.24	1,854.04	1,736.81	117.23	15.815		
18,400.00	11,457.85	16,513.71	9,604.79	121.66	117.77	-0.01	6,903.81	187.58	1,853.09	1,734.39	118.70	15.611		
18,500.00	11,457.40	16,613.70	9,605.29	123.22	119.36	-0.01	7,003.80	186.92	1,852.14	1,731.96	120.17	15.412		
18,600.00	11,456.95	16,713.70	9,605.78	124.78	120.94	-0.01	7,103.80	186.26	1,851.18	1,729.54	121.65	15.218		
18,700.00	11,456.49	16,813.69	9,606.28	126.35	122.54	-0.01	7,203.79	185.60	1,850.23	1,727.11	123.12	15.028		
18,800.00	11,456.04	16,913.69	9,606.78	127.92	124.13	-0.01	7,303.78	184.94	1,849.28	1,724.68	124.60	14.842		
18,900.00	11,455.58	17,013.69	9,607.28	129.50	125.72	-0.01	7,403.77	184.28	1,848.33	1,722.25	126.08	14.660		
19,000.00	11,455.13	17,113.68	9,607.78	131.07	127.32	-0.01	7,503.76	183.62	1,847.37	1,719.81	127.56	14.482		
19,100.00	11,454.67	17,213.68	9,608.28	132.65	128.92	-0.01	7,603.76	182.96	1,846.42	1,717.37	129.05	14.308		
19,200.00	11,454.22	17,313.67	9,608.77	134.22	130.52	-0.01	7,703.75	182.29	1,845.47	1,714.93	130.53	14.138		
19,300.00	11,453.76	17,413.67	9,609.27	135.80	132.12	-0.01	7,803.74	181.63	1,844.51	1,712.49	132.02	13.971		
19,400.00	11,453.31	17,513.66	9,609.77	137.39	133.72	-0.01	7,903.73	180.97	1,843.56	1,710.05	133.51	13.808		
19,500.00	11,452.85	17,613.66	9,610.27	138.97	135.32	-0.01	8,003.72	180.31	1,842.60	1,707.60	135.00	13.649		
19,600.00	11,452.39	17,713.65	9,610.77	140.56	136.92	-0.01	8,103.72	179.65	1,841.65	1,705.15	136.50	13.492		
19,700.00	11,451.94	17,813.65	9,611.27	142.14	138.53	-0.01	8,203.71	178.99	1,840.69	1,702.70	137.99	13.339		
19,800.00	11,451.48	17,913.64	9,611.77	143.73	140.14	-0.01	8,303.70	178.33	1,839.74	1,700.25	139.49	13.189		
19,900.00	11,451.02	18,013.64	9,612.26	145.32	141.74	-0.01	8,403.69	177.67	1,838.78	1,697.79	140.99	13.042		
20,000.00	11,450.57	18,113.64	9,612.76	146.91	143.35	-0.01	8,503.68	177.01	1,837.83	1,695.34	142.49	12.898		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,100.00	11,450.11	18,213.63	9,613.26	148.51	144.96	-0.01	8,603.68	176.34	1,836.87	1,692.88	143.99	12.757	
20,200.00	11,449.65	18,313.63	9,613.76	150.10	146.57	-0.01	8,703.67	175.68	1,835.91	1,690.42	145.49	12.619	
20,300.00	11,449.19	18,413.62	9,614.26	151.70	148.19	-0.01	8,803.66	175.02	1,834.96	1,687.96	147.00	12.483	
20,400.00	11,448.73	18,513.62	9,614.76	153.29	149.80	0.00	8,903.65	174.36	1,834.00	1,685.50	148.50	12.350	
20,500.00	11,448.27	18,613.61	9,615.25	154.89	151.41	0.00	9,003.64	173.70	1,833.04	1,683.03	150.01	12.220	
20,600.00	11,447.82	18,713.61	9,615.75	156.49	153.03	0.00	9,103.64	173.04	1,832.09	1,680.57	151.52	12.092	
20,700.00	11,447.36	18,813.60	9,616.25	158.09	154.64	0.00	9,203.63	172.38	1,831.13	1,678.10	153.03	11.966	
20,800.00	11,446.90	18,913.60	9,616.75	159.70	156.26	0.00	9,303.62	171.72	1,830.17	1,675.63	154.54	11.843	
20,900.00	11,446.44	19,013.59	9,617.25	161.30	157.88	0.00	9,403.61	171.06	1,829.21	1,673.16	156.05	11.722	
21,000.00	11,445.98	19,113.59	9,617.75	162.90	159.50	0.00	9,503.60	170.40	1,828.25	1,670.69	157.56	11.603	
21,100.00	11,445.52	19,213.58	9,618.25	164.51	161.11	0.00	9,603.60	169.73	1,827.29	1,668.22	159.08	11.487	
21,200.00	11,445.06	19,313.58	9,618.74	166.11	162.73	0.00	9,703.59	169.07	1,826.34	1,665.74	160.59	11.373	
21,300.00	11,444.60	19,413.58	9,619.24	167.72	164.35	0.00	9,803.58	168.41	1,825.38	1,663.27	162.11	11.260	
21,400.00	11,444.14	19,513.57	9,619.74	169.33	165.98	0.00	9,903.57	167.75	1,824.42	1,660.79	163.62	11.150	
21,500.00	11,443.67	19,613.57	9,620.24	170.94	167.60	0.00	10,003.56	167.09	1,823.46	1,658.32	165.14	11.042	
21,600.00	11,443.21	19,713.56	9,620.74	172.55	169.22	0.00	10,103.56	166.43	1,822.50	1,655.84	166.66	10.935	
21,700.00	11,442.75	19,813.56	9,621.24	174.16	170.84	0.00	10,203.55	165.77	1,821.54	1,653.36	168.18	10.831	
21,800.00	11,442.29	19,913.55	9,621.73	175.77	172.47	0.00	10,303.54	165.11	1,820.58	1,650.87	169.70	10.728	
21,862.35	11,442.00	19,966.82	9,622.00	176.77	173.33	0.00	10,356.81	164.75	1,820.00	1,649.36	170.64	10.666	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	4.00	4.00	0.00	0.01	86.33	99.10	1,544.87	1,548.04				
100.00	100.00	104.00	104.00	0.13	0.15	86.33	99.10	1,544.87	1,548.04	1,547.76	0.28	5,466.387	
200.00	200.00	204.00	204.00	0.49	0.51	86.33	99.10	1,544.87	1,548.04	1,547.04	1.00	1,547.832	
300.00	300.00	304.00	304.00	0.85	0.87	86.33	99.10	1,544.87	1,548.04	1,546.33	1.72	901.556	
400.00	400.00	404.00	404.00	1.21	1.22	86.33	99.10	1,544.87	1,548.04	1,545.61	2.43	636.002	
500.00	500.00	504.00	504.00	1.57	1.58	86.33	99.10	1,544.87	1,548.04	1,544.89	3.15	491.291	
600.00	600.00	604.00	604.00	1.93	1.94	86.33	99.10	1,544.87	1,548.04	1,544.17	3.87	400.227	
700.00	700.00	704.00	704.00	2.29	2.30	86.33	99.10	1,544.87	1,548.04	1,543.46	4.58	337.643	
800.00	800.00	804.00	804.00	2.64	2.66	86.33	99.10	1,544.87	1,548.04	1,542.74	5.30	291.985	
900.00	900.00	904.00	904.00	3.00	3.02	86.33	99.10	1,544.87	1,548.04	1,542.02	6.02	257.204	
1,000.00	1,000.00	1,004.00	1,004.00	3.36	3.38	86.33	99.10	1,544.87	1,548.04	1,541.31	6.74	229.827	
1,100.00	1,100.00	1,104.00	1,104.00	3.72	3.73	86.33	99.10	1,544.87	1,548.04	1,540.59	7.45	207.718	
1,200.00	1,200.00	1,204.00	1,204.00	4.08	4.09	86.33	99.10	1,544.87	1,548.04	1,539.87	8.17	189.489	
1,300.00	1,300.00	1,304.00	1,304.00	4.44	4.45	86.33	99.10	1,544.87	1,548.04	1,539.16	8.89	174.201	
1,400.00	1,400.00	1,404.00	1,404.00	4.79	4.81	86.33	99.10	1,544.87	1,548.04	1,538.44	9.60	161.196	
1,500.00	1,500.00	1,504.00	1,504.00	5.15	5.17	86.33	99.10	1,544.87	1,548.04	1,537.72	10.32	149.998	
1,600.00	1,600.00	1,604.00	1,604.00	5.51	5.53	86.33	99.10	1,544.87	1,548.04	1,537.00	11.04	140.255	
1,700.00	1,700.00	1,704.00	1,704.00	5.87	5.88	86.33	99.10	1,544.87	1,548.04	1,536.29	11.75	131.700	
1,800.00	1,800.00	1,804.00	1,804.00	6.23	6.24	86.33	99.10	1,544.87	1,548.04	1,535.57	12.47	124.129	
1,900.00	1,900.00	1,904.00	1,904.00	6.59	6.60	86.33	99.10	1,544.87	1,548.04	1,534.85	13.19	117.381	
2,000.00	2,000.00	2,004.00	2,004.00	6.95	6.96	86.33	99.10	1,544.87	1,548.04	1,534.14	13.91	111.329	
2,100.00	2,099.98	2,103.98	2,103.98	7.29	7.32	-48.52	99.10	1,544.87	1,546.89	1,532.28	14.61	105.905	
2,200.00	2,199.84	2,203.83	2,203.83	7.62	7.68	-48.71	99.10	1,544.87	1,543.42	1,528.13	15.29	100.923	
2,300.00	2,299.45	2,303.41	2,303.39	7.95	8.01	-48.97	97.24	1,545.00	1,537.68	1,521.72	15.96	96.325	
2,400.00	2,398.70	2,403.03	2,402.86	8.30	8.34	-49.24	91.93	1,545.38	1,529.66	1,513.04	16.62	92.025	
2,500.00	2,497.47	2,502.58	2,502.02	8.65	8.66	-49.51	83.18	1,546.01	1,519.39	1,502.09	17.29	87.874	
2,600.00	2,595.62	2,601.99	2,600.67	9.01	8.99	-49.79	71.02	1,546.88	1,506.85	1,488.88	17.97	83.848	
2,700.00	2,693.44	2,701.31	2,698.76	9.39	9.33	-49.80	55.47	1,547.99	1,493.17	1,474.51	18.67	79.987	
2,800.00	2,791.25	2,800.53	2,796.14	9.77	9.68	-49.67	36.55	1,549.35	1,479.49	1,460.11	19.38	76.335	
2,900.00	2,889.07	2,899.46	2,892.91	10.17	10.04	-49.48	16.04	1,550.82	1,465.81	1,445.69	20.11	72.876	
3,000.00	2,886.88	2,988.39	2,989.68	10.57	10.41	-49.28	-4.48	1,552.29	1,452.15	1,431.28	20.86	69.608	
3,100.00	3,084.70	3,097.33	3,086.45	10.99	10.79	-49.07	-25.00	1,553.76	1,438.50	1,416.88	21.62	66.521	
3,200.00	3,182.51	3,196.26	3,183.22	11.41	11.18	-48.86	-45.51	1,555.23	1,424.88	1,402.48	22.40	63.610	
3,300.00	3,280.33	3,295.19	3,280.00	11.83	11.58	-48.65	-66.03	1,556.70	1,411.27	1,388.08	23.19	60.864	
3,400.00	3,378.14	3,394.13	3,376.77	12.26	11.98	-48.44	-86.55	1,558.18	1,397.68	1,373.70	23.98	58.274	
3,500.00	3,475.96	3,493.06	3,473.54	12.69	12.39	-48.22	-107.06	1,559.65	1,384.11	1,359.32	24.79	55.831	
3,600.00	3,573.77	3,592.86	3,571.33	13.13	12.80	-48.01	-126.93	1,561.07	1,370.55	1,344.94	25.61	53.526	
3,700.00	3,671.97	3,693.33	3,670.39	13.57	13.21	-47.71	-143.63	1,562.27	1,358.22	1,331.81	26.41	51.429	
3,800.00	3,770.78	3,794.15	3,770.31	13.98	13.61	-47.49	-156.91	1,563.22	1,348.13	1,320.94	27.19	49.576	
3,900.00	3,870.05	3,895.22	3,870.91	14.38	13.99	-47.33	-166.68	1,563.92	1,340.30	1,312.34	27.95	47.949	
4,000.00	3,969.69	3,996.46	3,971.95	14.75	14.35	-47.25	-172.92	1,564.37	1,334.71	1,306.03	28.68	46.530	
4,100.00	4,069.56	4,097.77	4,073.22	15.11	14.70	-47.25	-175.60	1,564.56	1,331.40	1,302.01	29.39	45.302	
4,200.00	4,169.54	4,198.09	4,173.54	15.44	15.04	87.50	-175.71	1,564.57	1,330.37	1,300.30	30.06	44.251	
4,300.00	4,269.54	4,298.09	4,273.54	15.77	15.37	87.50	-175.71	1,564.57	1,330.37	1,299.64	30.73	43.289	
4,400.00	4,369.54	4,398.09	4,373.54	16.10	15.71	87.50	-175.71	1,564.57	1,330.37	1,298.97	31.40	42.366	
4,500.00	4,469.54	4,498.09	4,473.54	16.43	16.04	87.50	-175.71	1,564.57	1,330.37	1,298.30	32.07	41.479	
4,600.00	4,569.54	4,598.09	4,573.54	16.76	16.38	87.50	-175.71	1,564.57	1,330.37	1,297.62	32.75	40.626	
4,700.00	4,669.54	4,698.09	4,673.54	17.09	16.72	87.50	-175.71	1,564.57	1,330.37	1,296.95	33.42	39.805	
4,800.00	4,769.54	4,798.09	4,773.54	17.43	17.05	87.50	-175.71	1,564.57	1,330.37	1,296.27	34.10	39.014	
4,900.00	4,869.54	4,898.09	4,873.54	17.76	17.39	87.50	-175.71	1,564.57	1,330.37	1,295.59	34.78	38.253	
5,000.00	4,969.54	4,998.09	4,973.54	18.10	17.73	87.50	-175.71	1,564.57	1,330.37	1,294.91	35.46	37.519	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft	
Survey Program: Reference		0-OWSG (Rev2) MWD Offset				Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,069.54	5,098.09	5,073.54	18.43	18.07	87.50	-175.71	1,564.57	1,330.37	1,294.23	36.14	36.811		
5,200.00	5,169.54	5,198.09	5,173.54	18.77	18.42	87.50	-175.71	1,564.57	1,330.37	1,293.55	36.82	36.129		
5,300.00	5,269.54	5,298.09	5,273.54	19.11	18.76	87.50	-175.71	1,564.57	1,330.37	1,292.86	37.51	35.469		
5,400.00	5,369.54	5,398.09	5,373.54	19.45	19.10	87.50	-175.71	1,564.57	1,330.37	1,292.18	38.19	34.833		
5,500.00	5,469.54	5,498.09	5,473.54	19.79	19.44	87.50	-175.71	1,564.57	1,330.37	1,291.49	38.88	34.218		
5,600.00	5,569.54	5,598.09	5,573.54	20.13	19.79	87.50	-175.71	1,564.57	1,330.37	1,290.80	39.57	33.623		
5,700.00	5,669.54	5,698.09	5,673.54	20.47	20.13	87.50	-175.71	1,564.57	1,330.37	1,290.11	40.26	33.048		
5,800.00	5,769.54	5,798.09	5,773.54	20.81	20.48	87.50	-175.71	1,564.57	1,330.37	1,289.42	40.95	32.491		
5,900.00	5,869.54	5,898.09	5,873.54	21.15	20.82	87.50	-175.71	1,564.57	1,330.37	1,288.73	41.64	31.952		
6,000.00	5,969.54	5,998.09	5,973.54	21.49	21.17	87.50	-175.71	1,564.57	1,330.37	1,288.04	42.33	31.430		
6,100.00	6,069.54	6,098.09	6,073.54	21.83	21.51	87.50	-175.71	1,564.57	1,330.37	1,287.35	43.02	30.924		
6,200.00	6,169.54	6,198.09	6,173.54	22.18	21.86	87.50	-175.71	1,564.57	1,330.37	1,286.66	43.71	30.434		
6,300.00	6,269.54	6,298.09	6,273.54	22.52	22.21	87.50	-175.71	1,564.57	1,330.37	1,285.96	44.41	29.959		
6,400.00	6,369.54	6,398.09	6,373.54	22.87	22.55	87.50	-175.71	1,564.57	1,330.37	1,285.27	45.10	29.497		
6,500.00	6,469.54	6,498.09	6,473.54	23.21	22.90	87.50	-175.71	1,564.57	1,330.37	1,284.57	45.80	29.049		
6,600.00	6,569.54	6,598.09	6,573.54	23.56	23.25	87.50	-175.71	1,564.57	1,330.37	1,283.88	46.49	28.615		
6,700.00	6,669.54	6,698.09	6,673.54	23.90	23.60	87.50	-175.71	1,564.57	1,330.37	1,283.18	47.19	28.192		
6,800.00	6,769.54	6,798.09	6,773.54	24.25	23.95	87.50	-175.71	1,564.57	1,330.37	1,282.48	47.89	27.782		
6,900.00	6,869.54	6,898.09	6,873.54	24.59	24.29	87.50	-175.71	1,564.57	1,330.37	1,281.78	48.58	27.383		
7,000.00	6,969.54	6,998.09	6,973.54	24.94	24.64	87.50	-175.71	1,564.57	1,330.37	1,281.09	49.28	26.995		
7,100.00	7,069.54	7,098.09	7,073.54	25.29	24.99	87.50	-175.71	1,564.57	1,330.37	1,280.39	49.98	26.617		
7,200.00	7,169.54	7,198.09	7,173.54	25.63	25.34	87.50	-175.71	1,564.57	1,330.37	1,279.69	50.68	26.250		
7,300.00	7,269.54	7,298.09	7,273.54	25.98	25.69	87.50	-175.71	1,564.57	1,330.37	1,278.99	51.38	25.893		
7,400.00	7,369.54	7,398.09	7,373.54	26.33	26.04	87.50	-175.71	1,564.57	1,330.37	1,278.29	52.08	25.544		
7,500.00	7,469.54	7,498.09	7,473.54	26.68	26.39	87.50	-175.71	1,564.57	1,330.37	1,277.59	52.78	25.205		
7,600.00	7,569.54	7,598.09	7,573.54	27.03	26.74	87.50	-175.71	1,564.57	1,330.37	1,276.89	53.48	24.875		
7,700.00	7,669.54	7,698.09	7,673.54	27.37	27.09	87.50	-175.71	1,564.57	1,330.37	1,276.19	54.18	24.553		
7,800.00	7,769.54	7,798.09	7,773.54	27.72	27.44	87.50	-175.71	1,564.57	1,330.37	1,275.48	54.89	24.239		
7,900.00	7,869.54	7,898.09	7,873.54	28.07	27.80	87.50	-175.71	1,564.57	1,330.37	1,274.78	55.59	23.933		
8,000.00	7,969.54	7,998.09	7,973.54	28.42	28.15	87.50	-175.71	1,564.57	1,330.37	1,274.08	56.29	23.634		
8,100.00	8,069.54	8,098.09	8,073.54	28.77	28.50	87.50	-175.71	1,564.57	1,330.37	1,273.38	56.99	23.342		
8,200.00	8,169.54	8,198.09	8,173.54	29.12	28.85	87.50	-175.71	1,564.57	1,330.37	1,272.67	57.70	23.058		
8,300.00	8,269.54	8,298.09	8,273.54	29.47	29.20	87.50	-175.71	1,564.57	1,330.37	1,271.97	58.40	22.780		
8,400.00	8,369.54	8,398.09	8,373.54	29.82	29.55	87.50	-175.71	1,564.57	1,330.37	1,271.26	59.11	22.509		
8,500.00	8,469.54	8,498.09	8,473.54	30.17	29.91	87.50	-175.71	1,564.57	1,330.37	1,270.56	59.81	22.243		
8,600.00	8,569.54	8,598.09	8,573.54	30.52	30.26	87.50	-175.71	1,564.57	1,330.37	1,269.85	60.51	21.984		
8,700.00	8,669.54	8,698.09	8,673.54	30.87	30.61	87.50	-175.71	1,564.57	1,330.37	1,269.15	61.22	21.731		
8,800.00	8,769.54	8,798.09	8,773.54	31.22	30.96	87.50	-175.71	1,564.57	1,330.37	1,268.44	61.92	21.484		
8,900.00	8,869.54	8,898.09	8,873.54	31.57	31.32	87.50	-175.71	1,564.57	1,330.37	1,267.74	62.63	21.242		
9,000.00	8,969.54	8,998.09	8,973.54	31.93	31.67	87.50	-175.71	1,564.57	1,330.37	1,267.03	63.34	21.005		
9,002.18	8,971.72	9,000.28	8,975.72	31.93	31.68	87.50	-175.71	1,564.57	1,330.37	1,267.02	63.35	21.000 CC		
9,100.00	9,069.54	9,095.66	9,071.10	32.28	32.01	87.47	-175.02	1,564.56	1,330.40	1,266.36	64.03	20.777		
9,200.00	9,169.54	9,186.07	9,160.67	32.63	32.31	86.98	-163.50	1,564.49	1,330.94	1,266.25	64.69	20.575 ES		
9,300.00	9,269.54	9,270.90	9,242.11	32.98	32.56	85.97	-140.01	1,564.33	1,332.54	1,267.24	65.30	20.407		
9,400.00	9,369.54	9,350.00	9,314.15	33.33	32.77	84.58	-107.51	1,564.11	1,335.95	1,270.10	65.85	20.287		
9,500.00	9,469.54	9,414.44	9,369.08	33.68	32.93	83.14	-73.89	1,563.89	1,342.07	1,275.78	66.29	20.245		
9,600.00	9,569.54	9,472.16	9,414.82	34.04	33.06	81.65	-38.71	1,563.66	1,351.78	1,285.16	66.61	20.293		
9,700.00	9,669.54	9,521.44	9,450.90	34.39	33.17	80.24	-5.16	1,563.44	1,365.76	1,298.97	66.78	20.450		
9,800.00	9,769.54	9,563.42	9,479.26	34.74	33.27	78.94	25.77	1,563.23	1,384.51	1,317.73	66.78	20.732		
9,900.00	9,869.54	9,600.00	9,502.07	35.09	33.35	77.76	54.36	1,563.04	1,408.34	1,341.73	66.61	21.144		
10,000.00	9,969.54	9,629.95	9,519.36	35.45	33.41	76.75	78.81	1,562.88	1,437.34	1,371.09	66.25	21.695		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.00	10,069.54	9,650.00	9,530.21	35.80	33.46	76.07	95.67	1,562.77	1,471.53	1,405.84	65.69	22.401		
10,200.00	10,169.54	9,679.36	9,545.02	36.15	33.53	75.04	121.02	1,562.60	1,510.67	1,445.55	65.12	23.197		
10,300.00	10,269.54	9,700.00	9,554.64	36.51	33.57	74.30	139.28	1,562.48	1,554.63	1,490.22	64.41	24.136		
10,400.00	10,369.54	9,717.00	9,562.07	36.86	33.61	73.69	154.57	1,562.38	1,603.09	1,539.47	63.62	25.197		
10,500.00	10,469.54	9,732.56	9,568.47	37.21	33.65	73.13	168.75	1,562.28	1,655.76	1,592.96	62.80	26.366		
10,600.00	10,569.54	9,750.00	9,575.17	37.57	33.69	72.49	184.84	1,562.18	1,712.32	1,650.33	61.99	27.622		
10,700.00	10,669.54	9,750.00	9,575.17	37.92	33.69	72.49	184.84	1,562.18	1,772.49	1,711.45	61.04	29.036		
10,800.00	10,769.54	9,769.87	9,582.22	38.27	33.74	71.76	203.42	1,562.05	1,835.79	1,775.48	60.31	30.439		
10,900.00	10,869.54	9,779.89	9,585.53	38.63	33.76	71.40	212.88	1,561.99	1,902.12	1,842.59	59.53	31.952		
11,000.00	10,969.45	9,800.00	9,591.66	38.98	33.81	66.22	232.03	1,561.86	1,970.56	1,911.69	58.87	33.471		
11,100.00	11,067.64	9,800.00	9,591.66	39.30	33.81	58.44	232.03	1,561.86	2,036.62	1,978.57	58.05	35.082		
11,200.00	11,161.16	9,800.00	9,591.66	39.59	33.81	51.96	232.03	1,561.86	2,098.58	2,041.31	57.27	36.644		
11,300.00	11,247.17	9,850.00	9,603.97	39.83	33.94	46.04	280.47	1,561.54	2,153.96	2,097.06	56.90	37.855		
11,400.00	11,323.06	9,850.00	9,603.97	40.03	33.94	42.25	280.47	1,561.54	2,201.77	2,145.51	56.26	39.138		
11,500.00	11,386.52	9,877.25	9,608.89	40.18	34.01	39.21	307.27	1,561.36	2,240.96	2,185.07	55.89	40.093		
11,600.00	11,435.62	9,900.00	9,612.02	40.33	34.08	37.16	329.81	1,561.21	2,270.58	2,214.94	55.63	40.813		
11,700.00	11,468.88	9,922.39	9,614.22	40.54	34.14	35.90	352.08	1,561.07	2,289.91	2,234.38	55.53	41.239		
11,800.00	11,485.28	9,950.00	9,615.73	40.77	34.21	35.36	379.65	1,560.88	2,298.57	2,242.96	55.61	41.330		
11,900.00	11,486.77	9,972.32	9,615.99	41.03	34.28	35.34	401.97	1,560.74	2,298.32	2,242.46	55.86	41.144		
12,000.00	11,486.33	10,072.31	9,615.91	41.36	34.62	35.35	501.96	1,560.07	2,298.03	2,241.68	56.35	40.781		
12,100.00	11,485.90	10,172.31	9,615.82	41.74	35.02	35.35	601.95	1,559.41	2,297.75	2,240.82	56.93	40.364		
12,200.00	11,485.46	10,272.30	9,615.73	42.19	35.50	35.36	701.94	1,558.75	2,297.46	2,239.88	57.59	39.896		
12,300.00	11,485.02	10,372.29	9,615.64	42.70	36.05	35.36	801.93	1,558.08	2,297.18	2,238.85	58.33	39.383		
12,400.00	11,484.59	10,472.28	9,615.55	43.26	36.67	35.37	901.92	1,557.42	2,296.89	2,237.74	59.15	38.831		
12,500.00	11,484.15	10,572.28	9,615.47	43.88	37.35	35.37	1,001.91	1,556.76	2,296.61	2,236.56	60.05	38.244		
12,600.00	11,483.71	10,672.27	9,615.38	44.55	38.09	35.38	1,101.90	1,556.10	2,296.33	2,235.30	61.02	37.630		
12,700.00	11,483.27	10,772.26	9,615.29	45.27	38.88	35.38	1,201.89	1,555.43	2,296.04	2,233.98	62.07	36.993		
12,800.00	11,482.83	10,872.25	9,615.20	46.04	39.73	35.39	1,301.88	1,554.77	2,295.76	2,232.58	63.17	36.340		
12,900.00	11,482.39	10,972.25	9,615.11	46.85	40.63	35.39	1,401.87	1,554.11	2,295.48	2,231.13	64.34	35.676		
13,000.00	11,481.95	11,072.24	9,615.02	47.71	41.58	35.40	1,501.86	1,553.45	2,295.19	2,229.62	65.57	35.003		
13,100.00	11,481.52	11,172.23	9,614.93	48.61	42.56	35.40	1,601.85	1,552.79	2,294.91	2,228.05	66.86	34.326		
13,200.00	11,481.08	11,272.23	9,614.84	49.55	43.59	35.41	1,701.84	1,552.13	2,294.63	2,226.43	68.19	33.649		
13,300.00	11,480.64	11,372.22	9,614.75	50.52	44.66	35.41	1,801.83	1,551.46	2,294.34	2,224.77	69.58	32.976		
13,400.00	11,480.20	11,472.21	9,614.66	51.53	45.76	35.42	1,901.82	1,550.80	2,294.06	2,223.06	71.01	32.308		
13,500.00	11,479.75	11,572.20	9,614.56	52.57	46.90	35.42	2,001.82	1,550.14	2,293.78	2,221.30	72.48	31.647		
13,600.00	11,479.31	11,672.20	9,614.47	53.65	48.06	35.43	2,101.81	1,549.48	2,293.50	2,219.50	73.99	30.996		
13,700.00	11,478.87	11,772.19	9,614.38	54.75	49.26	35.43	2,201.80	1,548.82	2,293.21	2,217.67	75.54	30.356		
13,800.00	11,478.43	11,872.18	9,614.29	55.88	50.47	35.44	2,301.79	1,548.16	2,292.93	2,215.80	77.13	29.728		
13,900.00	11,477.99	11,972.18	9,614.20	57.03	51.72	35.44	2,401.78	1,547.50	2,292.65	2,213.90	78.75	29.112		
14,000.00	11,477.55	12,072.17	9,614.10	58.21	52.98	35.45	2,501.77	1,546.84	2,292.37	2,211.96	80.40	28.510		
14,100.00	11,477.11	12,172.16	9,614.01	59.41	54.27	35.45	2,601.76	1,546.18	2,292.09	2,210.00	82.08	27.924		
14,200.00	11,476.66	12,272.15	9,613.92	60.64	55.58	35.46	2,701.75	1,545.52	2,291.81	2,208.01	83.79	27.351		
14,300.00	11,476.22	12,372.15	9,613.82	61.88	56.90	35.46	2,801.74	1,544.86	2,291.52	2,206.00	85.53	26.793		
14,400.00	11,475.78	12,472.14	9,613.73	63.14	58.25	35.47	2,901.73	1,544.20	2,291.24	2,203.96	87.29	26.250		
14,500.00	11,475.34	12,572.13	9,613.64	64.42	59.60	35.47	3,001.72	1,543.54	2,290.96	2,201.90	89.06	25.723		
14,600.00	11,474.89	12,672.12	9,613.54	65.72	60.98	35.48	3,101.71	1,542.88	2,290.68	2,199.81	90.87	25.209		
14,700.00	11,474.45	12,772.12	9,613.45	67.03	62.36	35.49	3,201.70	1,542.22	2,290.40	2,197.71	92.69	24.711		
14,800.00	11,474.00	12,872.11	9,613.35	68.36	63.76	35.49	3,301.69	1,541.56	2,290.12	2,195.59	94.53	24.227		
14,900.00	11,473.56	12,972.10	9,613.26	69.70	65.17	35.50	3,401.68	1,540.90	2,289.84	2,193.46	96.38	23.757		
15,000.00	11,473.12	13,072.10	9,613.16	71.06	66.60	35.50	3,501.67	1,540.24	2,289.56	2,191.30	98.26	23.301		
15,100.00	11,472.67	13,172.09	9,613.07	72.43	68.03	35.51	3,601.66	1,539.58	2,289.28	2,189.13	100.15	22.858		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside					Minimum	Separation		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
15,200.00	11,472.23	13,272.08	9,612.97	73.81	69.47	35.51	3,701.65	1,538.92	2,289.00	2,186.95	102.05	22.429		
15,300.00	11,471.78	13,372.07	9,612.88	75.20	70.92	35.52	3,801.65	1,538.26	2,288.72	2,184.75	103.97	22.013		
15,400.00	11,471.34	13,472.07	9,612.78	76.60	72.39	35.52	3,901.64	1,537.60	2,288.44	2,182.54	105.90	21.609		
15,500.00	11,470.89	13,572.06	9,612.68	78.01	73.86	35.53	4,001.63	1,536.95	2,288.16	2,180.32	107.84	21.217		
15,600.00	11,470.44	13,672.05	9,612.59	79.43	75.33	35.53	4,101.62	1,536.29	2,287.88	2,178.08	109.80	20.837		
15,700.00	11,470.00	13,772.04	9,612.49	80.86	76.82	35.54	4,201.61	1,535.63	2,287.60	2,175.84	111.76	20.468		
15,800.00	11,469.55	13,872.04	9,612.39	82.30	78.31	35.54	4,301.60	1,534.97	2,287.32	2,173.58	113.74	20.110		
15,900.00	11,469.10	13,972.03	9,612.29	83.74	79.81	35.55	4,401.59	1,534.31	2,287.04	2,171.32	115.72	19.763		
16,000.00	11,468.66	14,072.02	9,612.20	85.20	81.31	35.55	4,501.58	1,533.66	2,286.77	2,169.05	117.72	19.426		
16,100.00	11,468.21	14,172.02	9,612.10	86.66	82.82	35.56	4,601.57	1,533.00	2,286.49	2,166.77	119.72	19.099		
16,200.00	11,467.76	14,272.01	9,612.00	88.13	84.34	35.56	4,701.56	1,532.34	2,286.21	2,164.48	121.73	18.781		
16,300.00	11,467.32	14,372.00	9,611.90	89.60	85.86	35.57	4,801.55	1,531.68	2,285.93	2,162.18	123.75	18.472		
16,400.00	11,466.87	14,471.99	9,611.80	91.08	87.38	35.57	4,901.54	1,531.03	2,285.65	2,159.88	125.77	18.173		
16,500.00	11,466.42	14,571.99	9,611.70	92.57	88.91	35.58	5,001.53	1,530.37	2,285.37	2,157.57	127.81	17.881		
16,600.00	11,465.97	14,671.98	9,611.60	94.06	90.45	35.58	5,101.52	1,529.71	2,285.10	2,155.25	129.84	17.599		
16,700.00	11,465.52	14,771.97	9,611.50	95.56	91.98	35.59	5,201.51	1,529.05	2,284.82	2,152.93	131.89	17.324		
16,800.00	11,465.07	14,871.97	9,611.40	97.06	93.53	35.60	5,301.50	1,528.40	2,284.54	2,150.60	133.94	17.057		
16,900.00	11,464.62	14,971.96	9,611.30	98.57	95.07	35.60	5,401.49	1,527.74	2,284.26	2,148.27	136.00	16.797		
17,000.00	11,464.17	15,071.95	9,611.20	100.08	96.62	35.61	5,501.48	1,527.08	2,283.99	2,145.93	138.06	16.544		
17,100.00	11,463.72	15,171.94	9,611.10	101.60	98.18	35.61	5,601.48	1,526.43	2,283.71	2,143.59	140.12	16.298		
17,200.00	11,463.27	15,271.94	9,611.00	103.12	99.74	35.62	5,701.47	1,525.77	2,283.43	2,141.24	142.19	16.059		
17,300.00	11,462.82	15,371.93	9,610.90	104.65	101.30	35.62	5,801.46	1,525.12	2,283.16	2,138.89	144.27	15.826		
17,400.00	11,462.37	15,471.92	9,610.80	106.18	102.86	35.63	5,901.45	1,524.46	2,282.88	2,136.53	146.34	15.599		
17,500.00	11,461.92	15,571.91	9,610.70	107.71	104.43	35.63	6,001.44	1,523.80	2,282.60	2,134.17	148.43	15.378		
17,600.00	11,461.47	15,671.91	9,610.59	109.25	105.99	35.64	6,101.43	1,523.15	2,282.33	2,131.81	150.52	15.163		
17,700.00	11,461.02	15,771.90	9,610.49	110.79	107.57	35.64	6,201.42	1,522.49	2,282.05	2,129.44	152.61	14.954		
17,800.00	11,460.57	15,871.89	9,610.39	112.33	109.14	35.65	6,301.41	1,521.84	2,281.77	2,127.08	154.70	14.750		
17,900.00	11,460.12	15,971.89	9,610.29	113.88	110.72	35.65	6,401.40	1,521.18	2,281.50	2,124.70	156.79	14.551		
18,000.00	11,459.66	16,071.88	9,610.18	115.43	112.29	35.66	6,501.39	1,520.53	2,281.22	2,122.33	158.90	14.357		
18,100.00	11,459.21	16,171.87	9,610.08	116.98	113.88	35.67	6,601.38	1,519.87	2,280.95	2,119.95	161.00	14.167		
18,200.00	11,458.76	16,271.86	9,609.98	118.54	115.46	35.67	6,701.37	1,519.22	2,280.67	2,117.57	163.11	13.983		
18,300.00	11,458.31	16,371.86	9,609.87	120.09	117.04	35.68	6,801.36	1,518.56	2,280.40	2,115.18	165.21	13.803		
18,400.00	11,457.85	16,471.85	9,609.77	121.66	118.63	35.68	6,901.35	1,517.91	2,280.12	2,112.80	167.32	13.627		
18,500.00	11,457.40	16,571.84	9,609.66	123.22	120.22	35.69	7,001.34	1,517.25	2,279.85	2,110.41	169.43	13.456		
18,600.00	11,456.95	16,671.84	9,609.56	124.78	121.81	35.69	7,101.33	1,516.60	2,279.57	2,108.02	171.55	13.288		
18,700.00	11,456.49	16,771.83	9,609.45	126.35	123.40	35.70	7,201.32	1,515.94	2,279.30	2,105.63	173.67	13.124		
18,800.00	11,456.04	16,871.82	9,609.35	127.92	125.00	35.70	7,301.32	1,515.29	2,279.02	2,103.24	175.79	12.965		
18,900.00	11,455.58	16,971.81	9,609.24	129.50	126.59	35.71	7,401.31	1,514.64	2,278.75	2,100.84	177.91	12.809		
19,000.00	11,455.13	17,071.81	9,609.14	131.07	128.19	35.71	7,501.30	1,513.98	2,278.47	2,098.45	180.03	12.656		
19,100.00	11,454.67	17,171.80	9,609.03	132.65	129.79	35.72	7,601.29	1,513.33	2,278.20	2,096.05	182.15	12.507		
19,200.00	11,454.22	17,271.79	9,608.93	134.22	131.39	35.72	7,701.28	1,512.67	2,277.93	2,093.65	184.28	12.361		
19,300.00	11,453.76	17,371.79	9,608.82	135.80	132.99	35.73	7,801.27	1,512.02	2,277.65	2,091.25	186.41	12.219		
19,400.00	11,453.31	17,471.78	9,608.71	137.39	134.59	35.74	7,901.26	1,511.37	2,277.38	2,088.84	188.54	12.079		
19,500.00	11,452.85	17,571.77	9,608.61	138.97	136.20	35.74	8,001.25	1,510.71	2,277.11	2,086.44	190.66	11.943		
19,600.00	11,452.39	17,671.76	9,608.50	140.56	137.80	35.75	8,101.24	1,510.06	2,276.83	2,084.04	192.79	11.810		
19,700.00	11,451.94	17,771.76	9,608.39	142.14	139.41	35.75	8,201.23	1,509.41	2,276.56	2,081.64	194.92	11.679		
19,800.00	11,451.48	17,871.75	9,608.28	143.73	141.02	35.76	8,301.22	1,508.75	2,276.29	2,079.23	197.06	11.551		
19,900.00	11,451.02	17,971.74	9,608.17	145.32	142.62	35.76	8,401.21	1,508.10	2,276.01	2,076.82	199.19	11.426		
20,000.00	11,450.57	18,071.73	9,608.07	146.91	144.23	35.77	8,501.20	1,507.45	2,275.74	2,074.41	201.33	11.304		
20,100.00	11,450.11	18,171.73	9,607.96	148.51	145.84	35.77	8,601.19	1,506.80	2,275.47	2,072.01	203.46	11.184		
20,200.00	11,449.65	18,271.72	9,607.85	150.10	147.46	35.78	8,701.18	1,506.14	2,275.20	2,069.60	205.60	11.066		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
20,300.00	11,449.19	18,371.71	9,607.74	151.70	149.07	35.79	8,801.17	1,505.49	2,274.92	2,067.19	207.74	10.951
20,400.00	11,448.73	18,471.71	9,607.63	153.29	150.68	35.79	8,901.17	1,504.84	2,274.65	2,064.78	209.88	10.838
20,500.00	11,448.27	18,571.70	9,607.52	154.89	152.30	35.80	9,001.16	1,504.19	2,274.38	2,062.36	212.02	10.727
20,600.00	11,447.82	18,671.69	9,607.41	156.49	153.91	35.80	9,101.15	1,503.54	2,274.11	2,059.95	214.16	10.619
20,700.00	11,447.36	18,771.68	9,607.30	158.09	155.53	35.81	9,201.14	1,502.88	2,273.84	2,057.54	216.29	10.513
20,800.00	11,446.90	18,871.68	9,607.19	159.70	157.15	35.81	9,301.13	1,502.23	2,273.57	2,055.13	218.43	10.408
20,900.00	11,446.44	18,971.67	9,607.08	161.30	158.77	35.82	9,401.12	1,501.58	2,273.30	2,052.72	220.58	10.306
21,000.00	11,445.98	19,071.66	9,606.97	162.90	160.38	35.82	9,501.11	1,500.93	2,273.02	2,050.31	222.72	10.206
21,100.00	11,445.52	19,171.66	9,606.86	164.51	162.00	35.83	9,601.10	1,500.28	2,272.75	2,047.89	224.86	10.107
21,200.00	11,445.06	19,271.65	9,606.75	166.11	163.62	35.84	9,701.09	1,499.63	2,272.48	2,045.48	227.00	10.011
21,300.00	11,444.60	19,371.64	9,606.63	167.72	165.25	35.84	9,801.08	1,498.98	2,272.21	2,043.07	229.14	9.916
21,400.00	11,444.14	19,471.63	9,606.52	169.33	166.87	35.85	9,901.07	1,498.33	2,271.94	2,040.66	231.29	9.823
21,500.00	11,443.67	19,571.63	9,606.41	170.94	168.49	35.85	10,001.06	1,497.68	2,271.67	2,038.24	233.43	9.732
21,600.00	11,443.21	19,671.62	9,606.30	172.55	170.11	35.86	10,101.05	1,497.03	2,271.40	2,035.83	235.57	9.642
21,700.00	11,442.75	19,771.61	9,606.18	174.16	171.74	35.86	10,201.04	1,496.38	2,271.13	2,033.41	237.72	9.554
21,800.00	11,442.29	19,871.61	9,606.07	175.77	173.36	35.87	10,301.03	1,495.72	2,270.86	2,031.00	239.86	9.467
21,862.35	11,442.00	19,933.95	9,606.00	176.77	174.37	35.87	10,363.37	1,495.32	2,270.69	2,029.50	241.20	9.414 SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	4.00	4.00	0.00	0.01	86.27	99.00	1,519.87	1,523.09				
100.00	100.00	104.00	104.00	0.13	0.15	86.27	99.00	1,519.87	1,523.09	1,522.80	0.28	5,378.266	
200.00	200.00	204.00	204.00	0.49	0.51	86.27	99.00	1,519.87	1,523.09	1,522.09	1.00	1,522.880	
300.00	300.00	304.00	304.00	0.85	0.87	86.27	99.00	1,519.87	1,523.09	1,521.37	1.72	887.022	
400.00	400.00	404.00	404.00	1.21	1.22	86.27	99.00	1,519.87	1,523.09	1,520.65	2.43	625.749	
500.00	500.00	504.00	504.00	1.57	1.58	86.27	99.00	1,519.87	1,523.09	1,519.94	3.15	483.371	
600.00	600.00	604.00	604.00	1.93	1.94	86.27	99.00	1,519.87	1,523.09	1,519.22	3.87	393.775	
700.00	700.00	704.00	704.00	2.29	2.30	86.27	99.00	1,519.87	1,523.09	1,518.50	4.58	332.200	
800.00	800.00	804.00	804.00	2.64	2.66	86.27	99.00	1,519.87	1,523.09	1,517.78	5.30	287.278	
900.00	900.00	904.00	904.00	3.00	3.02	86.27	99.00	1,519.87	1,523.09	1,517.07	6.02	253.057	
1,000.00	1,000.00	1,004.00	1,004.00	3.36	3.38	86.27	99.00	1,519.87	1,523.09	1,516.35	6.74	226.122	
1,100.00	1,100.00	1,104.00	1,104.00	3.72	3.73	86.27	99.00	1,519.87	1,523.09	1,515.63	7.45	204.369	
1,200.00	1,200.00	1,204.00	1,204.00	4.08	4.09	86.27	99.00	1,519.87	1,523.09	1,514.92	8.17	186.434	
1,300.00	1,300.00	1,304.00	1,304.00	4.44	4.45	86.27	99.00	1,519.87	1,523.09	1,514.20	8.89	171.393	
1,400.00	1,400.00	1,404.00	1,404.00	4.79	4.81	86.27	99.00	1,519.87	1,523.09	1,513.48	9.60	158.598	
1,500.00	1,500.00	1,504.00	1,504.00	5.15	5.17	86.27	99.00	1,519.87	1,523.09	1,512.77	10.32	147.580	
1,600.00	1,600.00	1,604.00	1,604.00	5.51	5.53	86.27	99.00	1,519.87	1,523.09	1,512.05	11.04	137.994	
1,700.00	1,700.00	1,704.00	1,704.00	5.87	5.88	86.27	99.00	1,519.87	1,523.09	1,511.33	11.75	129.577	
1,800.00	1,800.00	1,804.00	1,804.00	6.23	6.24	86.27	99.00	1,519.87	1,523.09	1,510.62	12.47	122.128	
1,900.00	1,900.00	1,904.00	1,904.00	6.59	6.60	86.27	99.00	1,519.87	1,523.09	1,509.90	13.19	115.489	
2,000.00	2,000.00	2,003.85	2,003.85	6.95	6.96	86.27	99.00	1,519.87	1,523.09	1,509.18	13.90	109.544	
2,015.68	2,015.68	2,018.95	2,018.95	7.00	7.01	-48.51	98.94	1,519.87	1,523.06	1,509.05	14.01	108.721	
2,100.00	2,099.98	2,100.00	2,099.98	7.29	7.29	-48.50	97.28	1,520.11	1,522.06	1,507.49	14.57	104.441	
2,200.00	2,199.84	2,196.31	2,196.16	7.62	7.60	-48.50	92.34	1,520.79	1,518.97	1,503.76	15.21	99.837	
2,300.00	2,299.45	2,292.37	2,291.87	7.95	7.91	-48.51	84.24	1,521.91	1,513.82	1,497.96	15.86	95.438	
2,400.00	2,398.70	2,388.23	2,387.05	8.30	8.23	-48.52	72.99	1,523.47	1,506.61	1,490.10	16.52	91.211	
2,500.00	2,497.47	2,483.84	2,481.54	8.65	8.56	-48.53	58.63	1,525.46	1,497.37	1,480.18	17.19	87.123	
2,600.00	2,595.62	2,579.12	2,575.18	9.01	8.90	-48.55	41.22	1,527.88	1,486.09	1,468.22	17.87	83.149	
2,700.00	2,693.44	2,677.34	2,671.28	9.39	9.26	-48.35	21.07	1,530.67	1,473.87	1,455.28	18.59	79.287	
2,800.00	2,791.25	2,776.46	2,768.23	9.77	9.63	-48.15	0.66	1,533.50	1,461.68	1,442.35	19.33	75.629	
2,900.00	2,889.07	2,875.57	2,865.17	10.17	10.01	-47.94	-19.76	1,536.33	1,449.50	1,429.42	20.08	72.183	
3,000.00	2,986.88	2,974.69	2,962.12	10.57	10.41	-47.72	-40.17	1,539.17	1,437.34	1,416.49	20.85	68.940	
3,100.00	3,084.70	3,073.80	3,059.07	10.99	10.81	-47.51	-60.58	1,542.00	1,425.21	1,403.58	21.63	65.889	
3,200.00	3,182.51	3,172.92	3,156.02	11.41	11.21	-47.29	-80.99	1,544.83	1,413.09	1,390.67	22.42	63.020	
3,300.00	3,280.33	3,272.03	3,252.97	11.83	11.63	-47.06	-101.40	1,547.66	1,400.99	1,377.77	23.23	60.321	
3,400.00	3,378.14	3,371.15	3,349.92	12.26	12.05	-46.83	-121.82	1,550.49	1,388.92	1,364.88	24.04	57.783	
3,500.00	3,475.96	3,470.26	3,446.87	12.69	12.47	-46.60	-142.23	1,553.32	1,376.87	1,352.01	24.86	55.394	
3,600.00	3,573.77	3,569.38	3,543.82	13.13	12.90	-46.35	-162.64	1,556.15	1,364.84	1,339.16	25.68	53.145	
3,700.00	3,671.97	3,674.41	3,646.89	13.57	13.35	-45.95	-182.58	1,558.91	1,354.00	1,327.48	26.52	51.052	
3,800.00	3,770.78	3,780.16	3,751.35	13.98	13.78	-45.62	-198.86	1,561.17	1,345.14	1,317.80	27.34	49.199	
3,900.00	3,870.05	3,886.23	3,856.67	14.38	14.20	-45.38	-211.35	1,562.90	1,338.25	1,310.12	28.13	47.572	
4,000.00	3,969.69	3,992.54	3,962.61	14.75	14.60	-45.21	-219.98	1,564.10	1,333.34	1,304.45	28.89	46.152	
4,100.00	4,069.56	4,098.98	4,068.94	15.11	14.98	-45.13	-224.72	1,564.76	1,330.41	1,300.79	29.62	44.919	
4,200.00	4,169.54	4,203.59	4,173.54	15.44	15.32	-45.06	-225.71	1,564.90	1,329.46	1,299.16	30.30	43.873	
4,300.00	4,269.54	4,303.59	4,273.54	15.77	15.65	-45.00	-225.71	1,564.90	1,329.46	1,298.50	30.96	42.937	
4,400.00	4,369.54	4,403.59	4,373.54	16.10	15.98	-45.00	-225.71	1,564.90	1,329.46	1,297.83	31.63	42.038	
4,500.00	4,469.54	4,503.59	4,473.54	16.43	16.30	-45.00	-225.71	1,564.90	1,329.46	1,297.17	32.29	41.172	
4,600.00	4,569.54	4,603.59	4,573.54	16.76	16.63	-45.00	-225.71	1,564.90	1,329.46	1,296.50	32.96	40.339	
4,700.00	4,669.54	4,703.59	4,673.54	17.09	16.96	-45.00	-225.71	1,564.90	1,329.46	1,295.83	33.63	39.536	
4,800.00	4,769.54	4,803.59	4,773.54	17.43	17.30	-45.00	-225.71	1,564.90	1,329.46	1,295.16	34.30	38.762	
4,900.00	4,869.54	4,903.59	4,873.54	17.76	17.63	-45.00	-225.71	1,564.90	1,329.46	1,294.49	34.97	38.017	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:							Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,969.54	5,003.59	4,973.54	18.10	17.96	89.66	-225.71	1,564.90	1,329.46	1,293.81	35.65	37.297		
5,100.00	5,069.54	5,103.59	5,073.54	18.43	18.30	89.66	-225.71	1,564.90	1,329.46	1,293.14	36.32	36.603		
5,200.00	5,169.54	5,203.59	5,173.54	18.77	18.63	89.66	-225.71	1,564.90	1,329.46	1,292.46	37.00	35.932		
5,300.00	5,269.54	5,303.59	5,273.54	19.11	18.97	89.66	-225.71	1,564.90	1,329.46	1,291.78	37.68	35.284		
5,400.00	5,369.54	5,403.59	5,373.54	19.45	19.31	89.66	-225.71	1,564.90	1,329.46	1,291.10	38.36	34.658		
5,500.00	5,469.54	5,503.59	5,473.54	19.79	19.64	89.66	-225.71	1,564.90	1,329.46	1,290.42	39.04	34.053		
5,600.00	5,569.54	5,603.59	5,573.54	20.13	19.98	89.66	-225.71	1,564.90	1,329.46	1,289.74	39.72	33.468		
5,700.00	5,669.54	5,703.59	5,673.54	20.47	20.32	89.66	-225.71	1,564.90	1,329.46	1,289.05	40.41	32.901		
5,800.00	5,769.54	5,803.59	5,773.54	20.81	20.66	89.66	-225.71	1,564.90	1,329.46	1,288.37	41.09	32.352		
5,900.00	5,869.54	5,903.59	5,873.54	21.15	21.00	89.66	-225.71	1,564.90	1,329.46	1,287.68	41.78	31.820		
6,000.00	5,969.54	6,003.59	5,973.54	21.49	21.34	89.66	-225.71	1,564.90	1,329.46	1,286.99	42.47	31.305		
6,100.00	6,069.54	6,103.59	6,073.54	21.83	21.69	89.66	-225.71	1,564.90	1,329.46	1,286.30	43.16	30.806		
6,200.00	6,169.54	6,203.59	6,173.54	22.18	22.03	89.66	-225.71	1,564.90	1,329.46	1,285.61	43.85	30.322		
6,300.00	6,269.54	6,303.59	6,273.54	22.52	22.37	89.66	-225.71	1,564.90	1,329.46	1,284.92	44.54	29.852		
6,400.00	6,369.54	6,403.59	6,373.54	22.87	22.71	89.66	-225.71	1,564.90	1,329.46	1,284.23	45.23	29.396		
6,500.00	6,469.54	6,503.59	6,473.54	23.21	23.06	89.66	-225.71	1,564.90	1,329.46	1,283.54	45.92	28.953		
6,600.00	6,569.54	6,603.59	6,573.54	23.56	23.40	89.66	-225.71	1,564.90	1,329.46	1,282.85	46.61	28.523		
6,700.00	6,669.54	6,703.59	6,673.54	23.90	23.75	89.66	-225.71	1,564.90	1,329.46	1,282.16	47.30	28.104		
6,800.00	6,769.54	6,803.59	6,773.54	24.25	24.09	89.66	-225.71	1,564.90	1,329.46	1,281.46	48.00	27.698		
6,900.00	6,869.54	6,903.59	6,873.54	24.59	24.44	89.66	-225.71	1,564.90	1,329.46	1,280.77	48.69	27.303		
7,000.00	6,969.54	7,003.59	6,973.54	24.94	24.78	89.66	-225.71	1,564.90	1,329.46	1,280.07	49.39	26.919		
7,100.00	7,069.54	7,103.59	7,073.54	25.29	25.13	89.66	-225.71	1,564.90	1,329.46	1,279.38	50.08	26.545		
7,200.00	7,169.54	7,203.59	7,173.54	25.63	25.48	89.66	-225.71	1,564.90	1,329.46	1,278.68	50.78	26.180		
7,300.00	7,269.54	7,303.59	7,273.54	25.98	25.82	89.66	-225.71	1,564.90	1,329.46	1,277.98	51.48	25.826		
7,400.00	7,369.54	7,403.59	7,373.54	26.33	26.17	89.66	-225.71	1,564.90	1,329.46	1,277.28	52.18	25.481		
7,500.00	7,469.54	7,503.59	7,473.54	26.68	26.52	89.66	-225.71	1,564.90	1,329.46	1,276.59	52.87	25.144		
7,600.00	7,569.54	7,603.59	7,573.54	27.03	26.86	89.66	-225.71	1,564.90	1,329.46	1,275.89	53.57	24.816		
7,700.00	7,669.54	7,703.59	7,673.54	27.37	27.21	89.66	-225.71	1,564.90	1,329.46	1,275.19	54.27	24.497		
7,800.00	7,769.54	7,803.59	7,773.54	27.72	27.56	89.66	-225.71	1,564.90	1,329.46	1,274.49	54.97	24.185		
7,900.00	7,869.54	7,903.59	7,873.54	28.07	27.91	89.66	-225.71	1,564.90	1,329.46	1,273.79	55.67	23.881		
8,000.00	7,969.54	8,003.59	7,973.54	28.42	28.26	89.66	-225.71	1,564.90	1,329.46	1,273.09	56.37	23.584		
8,100.00	8,069.54	8,103.59	8,073.54	28.77	28.61	89.66	-225.71	1,564.90	1,329.46	1,272.39	57.07	23.295		
8,200.00	8,169.54	8,203.59	8,173.54	29.12	28.96	89.66	-225.71	1,564.90	1,329.46	1,271.69	57.77	23.012		
8,300.00	8,269.54	8,303.59	8,273.54	29.47	29.31	89.66	-225.71	1,564.90	1,329.46	1,270.98	58.47	22.736		
8,400.00	8,369.54	8,403.59	8,373.54	29.82	29.66	89.66	-225.71	1,564.90	1,329.46	1,270.28	59.18	22.466		
8,500.00	8,469.54	8,503.59	8,473.54	30.17	30.00	89.66	-225.71	1,564.90	1,329.46	1,269.58	59.88	22.202		
8,600.00	8,569.54	8,603.59	8,573.54	30.52	30.36	89.66	-225.71	1,564.90	1,329.46	1,268.88	60.58	21.945		
8,700.00	8,669.54	8,703.59	8,673.54	30.87	30.71	89.66	-225.71	1,564.90	1,329.46	1,268.17	61.28	21.693		
8,800.00	8,769.54	8,803.59	8,773.54	31.22	31.06	89.66	-225.71	1,564.90	1,329.46	1,267.47	61.99	21.447		
8,900.00	8,869.54	8,903.59	8,873.54	31.57	31.41	89.66	-225.71	1,564.90	1,329.46	1,266.77	62.69	21.206		
9,000.00	8,969.54	9,003.59	8,973.54	31.93	31.76	89.66	-225.71	1,564.90	1,329.46	1,266.06	63.40	20.971		
9,100.00	9,069.54	9,103.59	9,073.54	32.28	32.11	89.66	-225.71	1,564.90	1,329.46	1,265.36	64.10	20.741		
9,200.00	9,169.54	9,203.59	9,173.54	32.63	32.46	89.66	-225.71	1,564.90	1,329.46	1,264.66	64.80	20.515		
9,300.00	9,269.54	9,303.59	9,273.54	32.98	32.81	89.66	-225.71	1,564.90	1,329.46	1,263.95	65.51	20.294		
9,400.00	9,369.54	9,403.59	9,373.54	33.33	33.16	89.66	-225.71	1,564.90	1,329.46	1,263.25	66.21	20.078		
9,500.00	9,469.54	9,503.59	9,473.54	33.68	33.51	89.66	-225.71	1,564.90	1,329.46	1,262.54	66.92	19.867		
9,600.00	9,569.54	9,603.59	9,573.54	34.04	33.87	89.66	-225.71	1,564.90	1,329.46	1,261.83	67.62	19.659		
9,700.00	9,669.54	9,703.59	9,673.54	34.39	34.22	89.66	-225.71	1,564.90	1,329.46	1,261.13	68.33	19.456		
9,800.00	9,769.54	9,803.59	9,773.54	34.74	34.57	89.66	-225.71	1,564.90	1,329.46	1,260.42	69.04	19.257		
9,900.00	9,869.54	9,903.59	9,873.54	35.09	34.92	89.66	-225.71	1,564.90	1,329.46	1,259.72	69.74	19.062		
10,000.00	9,969.54	10,003.59	9,973.54	35.45	35.27	89.66	-225.71	1,564.90	1,329.46	1,259.01	70.45	18.871		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,031.13	10,000.67	10,034.74	10,004.67	35.56	35.38	89.62	-224.83	1,564.89	1,329.46	1,258.79	70.67	18.813	CC
10,100.00	10,069.54	10,102.73	10,072.18	35.80	35.60	89.29	-217.07	1,564.84	1,329.48	1,258.34	71.14	18.689	
10,200.00	10,169.54	10,196.23	10,162.55	36.15	35.88	88.27	-193.46	1,564.68	1,329.87	1,258.09	71.78	18.526	ES
10,300.00	10,269.54	10,280.21	10,239.48	36.51	36.10	86.83	-159.99	1,564.46	1,331.47	1,259.11	72.37	18.399	
10,400.00	10,369.54	10,350.00	10,299.14	36.86	36.27	85.28	-123.86	1,564.22	1,335.36	1,262.50	72.86	18.328	
10,500.00	10,469.54	10,414.91	10,350.31	37.21	36.41	83.57	-83.98	1,563.96	1,342.57	1,269.32	73.25	18.329	
10,600.00	10,569.54	10,466.98	10,387.89	37.57	36.52	82.04	-47.96	1,563.72	1,353.96	1,280.49	73.47	18.428	
10,700.00	10,669.54	10,510.72	10,416.82	37.92	36.60	80.66	-15.17	1,563.50	1,370.16	1,296.64	73.51	18.638	
10,800.00	10,769.54	10,550.00	10,440.61	38.27	36.68	79.35	16.08	1,563.29	1,391.53	1,318.15	73.38	18.964	
10,900.00	10,869.54	10,578.82	10,456.66	38.63	36.74	78.35	40.00	1,563.13	1,418.23	1,345.21	73.02	19.422	
11,000.00	10,969.45	10,600.00	10,467.69	38.98	36.78	76.15	58.09	1,563.01	1,449.76	1,377.30	72.46	20.008	
11,100.00	11,067.64	10,650.00	10,491.01	39.30	36.88	71.28	102.30	1,562.72	1,482.68	1,410.67	72.01	20.590	
11,200.00	11,161.16	10,669.02	10,498.85	39.59	36.92	67.61	119.63	1,562.61	1,514.80	1,443.57	71.23	21.265	
11,300.00	11,247.17	10,700.00	10,510.39	39.83	36.98	64.03	148.37	1,562.41	1,545.06	1,474.52	70.54	21.903	
11,400.00	11,323.06	10,750.00	10,525.67	40.03	37.09	60.69	195.96	1,562.10	1,572.17	1,502.14	70.03	22.449	
11,500.00	11,386.52	10,774.64	10,531.67	40.18	37.14	58.36	219.85	1,561.94	1,594.82	1,525.36	69.45	22.962	
11,600.00	11,435.62	10,800.00	10,536.76	40.33	37.20	56.58	244.70	1,561.78	1,612.61	1,543.55	69.06	23.350	
11,700.00	11,468.88	10,850.00	10,543.55	40.54	37.31	55.25	294.22	1,561.45	1,624.52	1,555.52	68.99	23.546	
11,800.00	11,485.28	10,900.00	10,546.00	40.77	37.43	54.63	344.14	1,561.12	1,630.61	1,561.48	69.12	23.590	
11,900.00	11,486.77	10,955.67	10,545.80	41.03	37.58	54.59	399.81	1,560.75	1,631.09	1,561.60	69.49	23.473	
12,000.00	11,486.33	11,055.67	10,545.40	41.36	37.89	54.60	499.80	1,560.08	1,631.07	1,561.02	70.05	23.284	
12,100.00	11,485.90	11,155.67	10,545.00	41.74	38.27	54.60	599.80	1,559.42	1,631.05	1,560.32	70.72	23.063	
12,200.00	11,485.46	11,255.67	10,544.60	42.19	38.72	54.60	699.80	1,558.76	1,631.03	1,559.53	71.50	22.811	
12,300.00	11,485.02	11,355.66	10,544.20	42.70	39.24	54.60	799.79	1,558.10	1,631.01	1,558.62	72.38	22.533	
12,400.00	11,484.59	11,455.66	10,543.80	43.26	39.81	54.60	899.79	1,557.43	1,630.99	1,557.62	73.36	22.232	
12,500.00	11,484.15	11,555.66	10,543.39	43.88	40.45	54.60	999.78	1,556.77	1,630.97	1,556.53	74.43	21.911	
12,600.00	11,483.71	11,655.66	10,542.99	44.55	41.14	54.60	1,099.78	1,556.11	1,630.95	1,555.35	75.60	21.573	
12,700.00	11,483.27	11,755.66	10,542.59	45.27	41.89	54.60	1,199.77	1,555.45	1,630.93	1,554.07	76.85	21.222	
12,800.00	11,482.83	11,855.66	10,542.19	46.04	42.69	54.60	1,299.77	1,554.78	1,630.91	1,552.72	78.18	20.860	
12,900.00	11,482.39	11,955.66	10,541.79	46.85	43.53	54.61	1,399.76	1,554.12	1,630.88	1,551.29	79.60	20.489	
13,000.00	11,481.95	12,055.65	10,541.39	47.71	44.43	54.61	1,499.76	1,553.46	1,630.86	1,549.78	81.08	20.114	
13,100.00	11,481.52	12,155.65	10,540.99	48.61	45.36	54.61	1,599.76	1,552.80	1,630.84	1,548.21	82.64	19.735	
13,200.00	11,481.08	12,255.65	10,540.59	49.55	46.34	54.61	1,699.75	1,552.14	1,630.82	1,546.57	84.26	19.356	
13,300.00	11,480.64	12,355.65	10,540.19	50.52	47.35	54.61	1,799.75	1,551.48	1,630.80	1,544.87	85.94	18.976	
13,400.00	11,480.20	12,455.65	10,539.79	51.53	48.40	54.61	1,899.74	1,550.81	1,630.78	1,543.11	87.68	18.600	
13,500.00	11,479.75	12,555.65	10,539.38	52.57	49.48	54.61	1,999.74	1,550.15	1,630.76	1,541.29	89.47	18.227	
13,600.00	11,479.31	12,655.65	10,538.98	53.65	50.60	54.61	2,099.73	1,549.49	1,630.74	1,539.43	91.32	17.858	
13,700.00	11,478.87	12,755.65	10,538.58	54.75	51.74	54.62	2,199.73	1,548.83	1,630.72	1,537.51	93.21	17.494	
13,800.00	11,478.43	12,855.64	10,538.18	55.88	52.91	54.62	2,299.73	1,548.17	1,630.70	1,535.55	95.15	17.138	
13,900.00	11,477.99	12,955.64	10,537.78	57.03	54.10	54.62	2,399.72	1,547.51	1,630.68	1,533.55	97.14	16.788	
14,000.00	11,477.55	13,055.64	10,537.38	58.21	55.32	54.62	2,499.72	1,546.85	1,630.66	1,531.51	99.16	16.445	
14,100.00	11,477.11	13,155.64	10,536.98	59.41	56.56	54.62	2,599.71	1,546.19	1,630.64	1,529.43	101.22	16.111	
14,200.00	11,476.66	13,255.64	10,536.58	60.64	57.82	54.62	2,699.71	1,545.53	1,630.62	1,527.32	103.31	15.784	
14,300.00	11,476.22	13,355.64	10,536.18	61.88	59.11	54.62	2,799.70	1,544.87	1,630.60	1,525.17	105.44	15.465	
14,400.00	11,475.78	13,455.64	10,535.78	63.14	60.41	54.62	2,899.70	1,544.21	1,630.58	1,522.99	107.60	15.155	
14,500.00	11,475.34	13,555.63	10,535.38	64.42	61.72	54.63	2,999.69	1,543.55	1,630.56	1,520.78	109.78	14.853	
14,600.00	11,474.89	13,655.63	10,534.98	65.72	63.06	54.63	3,099.69	1,542.89	1,630.54	1,518.55	111.99	14.559	
14,700.00	11,474.45	13,755.63	10,534.58	67.03	64.40	54.63	3,199.69	1,542.23	1,630.52	1,516.29	114.23	14.274	
14,800.00	11,474.00	13,855.63	10,534.18	68.36	65.76	54.63	3,299.68	1,541.57	1,630.50	1,514.01	116.50	13.996	
14,900.00	11,473.56	13,955.63	10,533.78	69.70	67.14	54.63	3,399.68	1,540.91	1,630.48	1,511.70	118.78	13.727	
15,000.00	11,473.12	14,055.63	10,533.38	71.06	68.53	54.63	3,499.67	1,540.25	1,630.46	1,509.38	121.09	13.465	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD						Rule Assigned:				Offset Well Error:	0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,100.00	11,472.67	14,155.63	10,532.98	72.43	69.93	54.63	3,599.67	1,539.59	1,630.44	1,507.03	123.41	13.211		
15,200.00	11,472.23	14,255.62	10,532.58	73.81	71.34	54.64	3,699.66	1,538.93	1,630.42	1,504.67	125.76	12.965		
15,300.00	11,471.78	14,355.62	10,532.18	75.20	72.76	54.64	3,799.66	1,538.28	1,630.40	1,502.29	128.12	12.726		
15,400.00	11,471.34	14,455.62	10,531.78	76.60	74.19	54.64	3,899.66	1,537.62	1,630.38	1,499.89	130.50	12.494		
15,500.00	11,470.89	14,555.62	10,531.38	78.01	75.63	54.64	3,999.65	1,536.96	1,630.37	1,497.47	132.89	12.268		
15,600.00	11,470.44	14,655.62	10,530.98	79.43	77.08	54.64	4,099.65	1,536.30	1,630.35	1,495.04	135.30	12.050		
15,700.00	11,470.00	14,755.62	10,530.58	80.86	78.53	54.64	4,199.64	1,535.64	1,630.33	1,492.60	137.72	11.838		
15,800.00	11,469.55	14,855.62	10,530.18	82.30	80.00	54.64	4,299.64	1,534.98	1,630.31	1,490.15	140.16	11.632		
15,900.00	11,469.10	14,955.61	10,529.78	83.74	81.47	54.65	4,399.63	1,534.33	1,630.29	1,487.68	142.60	11.432		
16,000.00	11,468.66	15,055.61	10,529.38	85.20	82.95	54.65	4,499.63	1,533.67	1,630.27	1,485.20	145.07	11.238		
16,100.00	11,468.21	15,155.61	10,528.98	86.66	84.43	54.65	4,599.63	1,533.01	1,630.25	1,482.71	147.53	11.050		
16,200.00	11,467.76	15,255.61	10,528.58	88.13	85.93	54.65	4,699.62	1,532.35	1,630.23	1,480.21	150.01	10.867		
16,300.00	11,467.32	15,355.61	10,528.18	89.60	87.42	54.65	4,799.62	1,531.70	1,630.21	1,477.70	152.50	10.690		
16,400.00	11,466.87	15,455.61	10,527.78	91.08	88.93	54.65	4,899.61	1,531.04	1,630.19	1,475.19	155.00	10.517		
16,500.00	11,466.42	15,555.61	10,527.38	92.57	90.44	54.66	4,999.61	1,530.38	1,630.17	1,472.66	157.51	10.350		
16,600.00	11,465.97	15,655.61	10,526.98	94.06	91.95	54.66	5,099.60	1,529.72	1,630.15	1,470.12	160.03	10.187		
16,700.00	11,465.52	15,755.60	10,526.58	95.56	93.47	54.66	5,199.60	1,529.07	1,630.13	1,467.58	162.55	10.029		
16,800.00	11,465.07	15,855.60	10,526.18	97.06	94.99	54.66	5,299.59	1,528.41	1,630.11	1,465.03	165.08	9.875		
16,900.00	11,464.62	15,955.60	10,525.78	98.57	96.52	54.66	5,399.59	1,527.75	1,630.09	1,462.47	167.62	9.725		
17,000.00	11,464.17	16,055.60	10,525.38	100.08	98.05	54.66	5,499.59	1,527.10	1,630.07	1,459.91	170.16	9.579		
17,100.00	11,463.72	16,155.60	10,524.98	101.60	99.59	54.66	5,599.58	1,526.44	1,630.05	1,457.34	172.71	9.438		
17,200.00	11,463.27	16,255.60	10,524.58	103.12	101.12	54.67	5,699.58	1,525.78	1,630.03	1,454.76	175.27	9.300		
17,300.00	11,462.82	16,355.60	10,524.18	104.65	102.67	54.67	5,799.57	1,525.13	1,630.01	1,452.18	177.83	9.166		
17,400.00	11,462.37	16,455.59	10,523.78	106.18	104.21	54.67	5,899.57	1,524.47	1,629.99	1,449.59	180.40	9.036		
17,500.00	11,461.92	16,555.59	10,523.38	107.71	105.76	54.67	5,999.56	1,523.82	1,629.97	1,447.00	182.97	8.908		
17,600.00	11,461.47	16,655.59	10,522.99	109.25	107.32	54.67	6,099.56	1,523.16	1,629.95	1,444.41	185.54	8.785		
17,700.00	11,461.02	16,755.59	10,522.59	110.79	108.87	54.68	6,199.56	1,522.50	1,629.93	1,441.81	188.12	8.664		
17,800.00	11,460.57	16,855.59	10,522.19	112.33	110.43	54.68	6,299.55	1,521.85	1,629.91	1,439.20	190.71	8.547		
17,900.00	11,460.12	16,955.59	10,521.79	113.88	111.99	54.68	6,399.55	1,521.19	1,629.89	1,436.59	193.30	8.432		
18,000.00	11,459.66	17,055.59	10,521.39	115.43	113.56	54.68	6,499.54	1,520.54	1,629.87	1,433.98	195.89	8.320		
18,100.00	11,459.21	17,155.58	10,520.99	116.98	115.13	54.68	6,599.54	1,519.88	1,629.85	1,431.37	198.49	8.211		
18,200.00	11,458.76	17,255.58	10,520.59	118.54	116.70	54.68	6,699.53	1,519.23	1,629.83	1,428.75	201.09	8.105		
18,300.00	11,458.31	17,355.58	10,520.19	120.09	118.27	54.69	6,799.53	1,518.57	1,629.81	1,426.12	203.69	8.001		
18,400.00	11,457.85	17,455.58	10,519.79	121.66	119.84	54.69	6,899.53	1,517.92	1,629.79	1,423.50	206.30	7.900		
18,500.00	11,457.40	17,555.58	10,519.39	123.22	121.42	54.69	6,999.52	1,517.26	1,629.77	1,420.87	208.90	7.802		
18,600.00	11,456.95	17,655.58	10,519.00	124.78	123.00	54.69	7,099.52	1,516.61	1,629.75	1,418.24	211.51	7.705		
18,700.00	11,456.49	17,755.58	10,518.60	126.35	124.58	54.69	7,199.51	1,515.96	1,629.73	1,415.61	214.13	7.611		
18,800.00	11,456.04	17,855.57	10,518.20	127.92	126.16	54.70	7,299.51	1,515.30	1,629.72	1,412.97	216.74	7.519		
18,900.00	11,455.58	17,955.57	10,517.80	129.50	127.75	54.70	7,399.50	1,514.65	1,629.70	1,410.33	219.36	7.429		
19,000.00	11,455.13	18,055.57	10,517.40	131.07	129.33	54.70	7,499.50	1,513.99	1,629.68	1,407.69	221.98	7.341		
19,100.00	11,454.67	18,155.57	10,517.00	132.65	130.92	54.70	7,599.50	1,513.34	1,629.66	1,405.05	224.60	7.256		
19,200.00	11,454.22	18,255.57	10,516.60	134.22	132.51	54.70	7,699.49	1,512.69	1,629.64	1,402.41	227.23	7.172		
19,300.00	11,453.76	18,355.57	10,516.21	135.80	134.10	54.71	7,799.49	1,512.03	1,629.62	1,399.76	229.86	7.090		
19,400.00	11,453.31	18,455.57	10,515.81	137.39	135.69	54.71	7,899.48	1,511.38	1,629.60	1,397.12	232.48	7.010		
19,500.00	11,452.85	18,555.57	10,515.41	138.97	137.29	54.71	7,999.48	1,510.73	1,629.58	1,394.47	235.11	6.931		
19,600.00	11,452.39	18,655.56	10,515.01	140.56	138.88	54.71	8,099.47	1,510.07	1,629.56	1,391.82	237.74	6.854		
19,700.00	11,451.94	18,755.56	10,514.61	142.14	140.48	54.71	8,199.47	1,509.42	1,629.54	1,389.17	240.37	6.779		
19,800.00	11,451.48	18,855.56	10,514.21	143.73	142.08	54.72	8,299.47	1,508.77	1,629.52	1,386.51	243.01	6.706		
19,900.00	11,451.02	18,955.56	10,513.82	145.32	143.68	54.72	8,399.46	1,508.11	1,629.50	1,383.86	245.64	6.634		
20,000.00	11,450.57	19,055.56	10,513.42	146.91	145.28	54.72	8,499.46	1,507.46	1,629.48	1,381.21	248.27	6.563		
20,100.00	11,450.11	19,155.56	10,513.02	148.51	146.88	54.72	8,599.45	1,506.81	1,629.46	1,378.55	250.91	6.494		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)		
									Minimum Separation (usft)	Separation Factor		
20,200.00	11,449.65	19,255.56	10,512.62	150.10	148.49	54.72	8,699.45	1,506.16	1,629.44	1,375.89	253.55	6.427
20,300.00	11,449.19	19,355.55	10,512.22	151.70	150.09	54.73	8,799.44	1,505.50	1,629.42	1,373.24	256.18	6.360
20,400.00	11,448.73	19,455.55	10,511.82	153.29	151.70	54.73	8,899.44	1,504.85	1,629.40	1,370.58	258.82	6.295
20,500.00	11,448.27	19,555.55	10,511.43	154.89	153.30	54.73	8,999.44	1,504.20	1,629.38	1,367.92	261.46	6.232
20,600.00	11,447.82	19,655.55	10,511.03	156.49	154.91	54.73	9,099.43	1,503.55	1,629.37	1,365.26	264.10	6.169
20,700.00	11,447.36	19,755.55	10,510.63	158.09	156.52	54.73	9,199.43	1,502.90	1,629.35	1,362.60	266.74	6.108
20,800.00	11,446.90	19,855.55	10,510.23	159.70	158.13	54.74	9,299.42	1,502.24	1,629.33	1,359.95	269.38	6.048
20,900.00	11,446.44	19,955.55	10,509.83	161.30	159.74	54.74	9,399.42	1,501.59	1,629.31	1,357.29	272.02	5.990
21,000.00	11,445.98	20,055.54	10,509.44	162.90	161.35	54.74	9,499.41	1,500.94	1,629.29	1,354.62	274.67	5.932
21,100.00	11,445.52	20,155.54	10,509.04	164.51	162.96	54.74	9,599.41	1,500.29	1,629.27	1,351.96	277.31	5.875
21,200.00	11,445.06	20,255.54	10,508.64	166.11	164.58	54.75	9,699.41	1,499.64	1,629.25	1,349.30	279.95	5.820
21,300.00	11,444.60	20,355.54	10,508.24	167.72	166.19	54.75	9,799.40	1,498.99	1,629.23	1,346.64	282.59	5.765
21,400.00	11,444.14	20,455.54	10,507.85	169.33	167.81	54.75	9,899.40	1,498.34	1,629.21	1,343.98	285.23	5.712
21,500.00	11,443.67	20,555.54	10,507.45	170.94	169.42	54.75	9,999.39	1,497.69	1,629.19	1,341.32	287.88	5.659
21,600.00	11,443.21	20,655.54	10,507.05	172.55	171.04	54.75	10,099.39	1,497.04	1,629.17	1,338.66	290.52	5.608
21,700.00	11,442.75	20,755.53	10,506.65	174.16	172.66	54.76	10,199.38	1,496.39	1,629.15	1,336.00	293.16	5.557
21,800.00	11,442.29	20,855.53	10,506.26	175.77	174.28	54.76	10,299.38	1,495.74	1,629.13	1,333.33	295.80	5.508
21,862.35	11,442.00	20,917.88	10,506.01	176.77	175.29	54.76	10,361.72	1,495.33	1,629.12	1,331.67	297.45	5.477 SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	4.00	4.00	0.00	0.01	86.10	98.50	1,444.86	1,448.22				
100.00	100.00	104.00	104.00	0.13	0.15	86.10	98.50	1,444.86	1,448.22	1,447.93	0.28	5,113.886	
200.00	200.00	204.00	204.00	0.49	0.51	86.10	98.50	1,444.86	1,448.22	1,447.22	1.00	1,448.019	
300.00	300.00	304.00	304.00	0.85	0.87	86.10	98.50	1,444.86	1,448.22	1,446.50	1.72	843.418	
400.00	400.00	404.00	404.00	1.21	1.22	86.10	98.50	1,444.86	1,448.22	1,445.78	2.43	594.989	
500.00	500.00	504.00	504.00	1.57	1.58	86.10	98.50	1,444.86	1,448.22	1,445.07	3.15	459.610	
600.00	600.00	604.00	604.00	1.93	1.94	86.10	98.50	1,444.86	1,448.22	1,444.35	3.87	374.418	
700.00	700.00	704.00	704.00	2.29	2.30	86.10	98.50	1,444.86	1,448.22	1,443.63	4.58	315.870	
800.00	800.00	804.00	804.00	2.64	2.66	86.10	98.50	1,444.86	1,448.22	1,442.91	5.30	273.156	
900.00	900.00	904.00	904.00	3.00	3.02	86.10	98.50	1,444.86	1,448.22	1,442.20	6.02	240.618	
1,000.00	1,000.00	1,004.00	1,004.00	3.36	3.38	86.10	98.50	1,444.86	1,448.22	1,441.48	6.74	215.007	
1,100.00	1,100.00	1,104.00	1,104.00	3.72	3.73	86.10	98.50	1,444.86	1,448.22	1,440.76	7.45	194.323	
1,200.00	1,200.00	1,204.00	1,204.00	4.08	4.09	86.10	98.50	1,444.86	1,448.22	1,440.05	8.17	177.270	
1,300.00	1,300.00	1,304.00	1,304.00	4.44	4.45	86.10	98.50	1,444.86	1,448.22	1,439.33	8.89	162.968	
1,400.00	1,400.00	1,404.00	1,404.00	4.79	4.81	86.10	98.50	1,444.86	1,448.22	1,438.61	9.60	150.802	
1,500.00	1,500.00	1,504.00	1,504.00	5.15	5.17	86.10	98.50	1,444.86	1,448.22	1,437.90	10.32	140.326	
1,600.00	1,600.00	1,604.00	1,604.00	5.51	5.53	86.10	98.50	1,444.86	1,448.22	1,437.18	11.04	131.211	
1,700.00	1,700.00	1,704.00	1,704.00	5.87	5.88	86.10	98.50	1,444.86	1,448.22	1,436.46	11.75	123.208	
1,800.00	1,800.00	1,804.00	1,804.00	6.23	6.24	86.10	98.50	1,444.86	1,448.22	1,435.74	12.47	116.125	
1,900.00	1,900.00	1,904.00	1,904.00	6.59	6.60	86.10	98.50	1,444.86	1,448.22	1,435.03	13.19	109.812	
2,000.00	2,000.00	2,007.57	2,007.57	6.95	6.97	86.10	98.50	1,444.85	1,448.21	1,434.29	13.92	104.061	
2,100.00	2,099.98	2,196.35	2,196.20	7.29	7.62	-48.75	95.66	1,438.77	1,443.74	1,428.86	14.88	97.047	
2,200.00	2,199.84	2,382.77	2,381.63	7.62	8.25	-48.97	87.69	1,421.73	1,430.89	1,415.13	15.76	90.777	
2,300.00	2,299.45	2,564.68	2,561.03	7.95	8.91	-49.34	75.02	1,394.61	1,409.87	1,393.28	16.60	84.957	
2,400.00	2,398.70	2,677.10	2,671.04	8.30	9.33	-49.85	65.21	1,373.62	1,382.78	1,365.49	17.29	79.998	
2,500.00	2,497.47	2,772.59	2,764.44	8.65	9.70	-50.52	56.81	1,355.64	1,353.42	1,335.47	17.95	75.387	
2,600.00	2,595.62	2,867.23	2,857.02	9.01	10.08	-51.36	48.48	1,337.81	1,321.98	1,303.36	18.63	70.973	
2,700.00	2,693.44	2,961.42	2,949.14	9.39	10.46	-51.77	40.19	1,320.07	1,289.55	1,270.25	19.31	66.794	
2,800.00	2,791.25	3,055.60	3,041.27	9.77	10.85	-52.20	31.90	1,302.33	1,257.19	1,237.19	19.99	62.875	
2,900.00	2,889.07	3,149.79	3,133.40	10.17	11.25	-52.65	23.61	1,284.59	1,224.89	1,204.19	20.69	59.193	
3,000.00	2,986.88	3,243.98	3,225.53	10.57	11.65	-53.12	15.32	1,266.85	1,192.66	1,171.26	21.40	55.730	
3,100.00	3,084.70	3,338.16	3,317.66	10.99	12.05	-53.62	7.02	1,249.11	1,160.50	1,138.39	22.12	52.474	
3,200.00	3,182.51	3,432.35	3,409.79	11.41	12.46	-54.15	-1.27	1,231.37	1,128.44	1,105.60	22.84	49.408	
3,300.00	3,280.33	3,526.54	3,501.91	11.83	12.87	-54.70	-9.56	1,213.63	1,096.46	1,072.89	23.57	46.521	
3,400.00	3,378.14	3,620.72	3,594.04	12.26	13.29	-55.29	-17.85	1,195.88	1,064.59	1,040.28	24.31	43.800	
3,500.00	3,475.96	3,714.91	3,686.17	12.69	13.71	-55.92	-26.14	1,178.14	1,032.82	1,007.77	25.05	41.233	
3,600.00	3,573.77	3,809.10	3,778.30	13.13	14.13	-56.55	-34.43	1,160.40	1,001.18	975.38	25.80	38.810	
3,700.00	3,671.97	3,903.80	3,870.94	13.57	14.56	-56.62	-42.77	1,142.56	970.69	944.14	26.55	36.567	
3,800.00	3,770.78	3,999.34	3,964.38	13.98	14.99	-56.59	-51.17	1,124.57	942.11	914.82	27.29	34.525	
3,900.00	3,870.05	4,095.59	4,058.53	14.38	15.43	-56.43	-59.65	1,106.44	915.43	887.40	28.02	32.667	
4,000.00	3,969.69	4,192.44	4,153.27	14.75	15.88	-56.13	-68.17	1,088.20	890.62	861.87	28.75	30.981	
4,100.00	4,069.56	4,289.77	4,248.47	15.11	16.33	-55.68	-76.74	1,069.86	867.70	838.24	29.46	29.452	
4,200.00	4,169.54	4,387.46	4,344.02	15.44	16.78	79.70	-85.34	1,051.46	846.71	816.55	30.16	28.072	
4,300.00	4,269.54	4,485.28	4,439.70	15.77	17.23	80.07	-93.95	1,033.04	826.59	795.73	30.86	26.785	
4,400.00	4,369.54	4,583.09	4,535.38	16.10	17.69	80.45	-102.56	1,014.61	806.51	774.95	31.56	25.554	
4,500.00	4,469.54	4,680.90	4,631.06	16.43	18.15	80.85	-111.17	996.19	786.46	754.20	32.27	24.375	
4,600.00	4,569.54	4,778.72	4,726.73	16.76	18.61	81.28	-119.78	977.77	766.45	733.48	32.97	23.245	
4,700.00	4,669.54	4,876.53	4,822.41	17.09	19.07	81.73	-128.39	959.34	746.49	712.81	33.68	22.163	
4,800.00	4,769.54	4,974.35	4,918.09	17.43	19.53	82.20	-137.00	940.92	726.57	692.18	34.39	21.125	
4,900.00	4,869.54	5,072.16	5,013.76	17.76	19.99	82.70	-145.61	922.49	706.70	671.59	35.11	20.128	
5,000.00	4,969.54	5,169.98	5,109.44	18.10	20.45	83.22	-154.22	904.07	686.89	651.06	35.83	19.172	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,069.54	5,267.79	5,205.12	18.43	20.92	83.78	-162.83	885.64	667.13	630.58	36.55	18.252	
5,200.00	5,169.54	5,365.61	5,300.80	18.77	21.38	84.38	-171.44	867.22	647.44	610.17	37.28	17.369	
5,300.00	5,269.54	5,463.42	5,396.47	19.11	21.85	85.01	-180.05	848.80	627.83	589.82	38.01	16.519	
5,400.00	5,369.54	5,561.24	5,492.15	19.45	22.32	85.68	-188.66	830.37	608.29	569.55	38.74	15.702	
5,500.00	5,469.54	5,659.05	5,587.83	19.79	22.78	86.39	-197.27	811.95	588.83	549.35	39.48	14.915	
5,600.00	5,569.54	5,754.18	5,680.89	20.13	23.24	87.13	-205.63	794.06	569.51	529.28	40.24	14.154	
5,700.00	5,669.54	5,837.31	5,762.52	20.47	23.62	87.75	-212.27	779.85	552.03	510.98	41.05	13.448	
5,800.00	5,769.54	5,921.31	5,845.43	20.81	23.99	88.31	-217.96	767.67	537.28	495.44	41.83	12.843	
5,900.00	5,869.54	6,000.00	5,923.43	21.15	24.32	88.76	-222.35	758.27	525.31	482.71	42.60	12.333	
6,000.00	5,969.54	6,091.35	6,014.30	21.49	24.67	89.18	-226.31	749.79	516.00	472.68	43.32	11.913	
6,100.00	6,069.54	6,177.11	6,099.83	21.83	24.98	89.47	-228.91	744.23	509.47	465.47	44.00	11.578	
6,200.00	6,169.54	6,263.16	6,185.81	22.18	25.28	89.64	-230.43	740.98	505.68	461.02	44.65	11.325	
6,300.00	6,269.54	6,350.90	6,273.54	22.52	25.55	89.68	-230.87	740.05	504.60	459.33	45.27	11.146	
6,400.00	6,369.54	6,450.90	6,373.54	22.87	25.85	89.68	-230.87	740.05	504.60	458.66	45.94	10.983	
6,500.00	6,469.54	6,550.90	6,473.54	23.21	26.15	89.68	-230.87	740.05	504.60	457.98	46.62	10.825	
6,600.00	6,569.54	6,650.90	6,573.54	23.56	26.46	89.68	-230.87	740.05	504.60	457.31	47.29	10.670	
6,700.00	6,669.54	6,750.90	6,673.54	23.90	26.76	89.68	-230.87	740.05	504.60	456.63	47.97	10.520	
6,800.00	6,769.54	6,850.90	6,773.54	24.25	27.07	89.68	-230.87	740.05	504.60	455.96	48.64	10.373	
6,900.00	6,869.54	6,950.90	6,873.54	24.59	27.37	89.68	-230.87	740.05	504.60	455.28	49.32	10.230	
7,000.00	6,969.54	7,050.90	6,973.54	24.94	27.68	89.68	-230.87	740.05	504.60	454.60	50.00	10.091	
7,100.00	7,069.54	7,150.90	7,073.54	25.29	27.99	89.68	-230.87	740.05	504.60	453.92	50.68	9.956	
7,200.00	7,169.54	7,250.90	7,173.54	25.63	28.30	89.68	-230.87	740.05	504.60	453.24	51.36	9.824	
7,300.00	7,269.54	7,350.90	7,273.54	25.98	28.61	89.68	-230.87	740.05	504.60	452.55	52.05	9.695	
7,400.00	7,369.54	7,450.90	7,373.54	26.33	28.92	89.68	-230.87	740.05	504.60	451.87	52.73	9.569	
7,500.00	7,469.54	7,550.90	7,473.54	26.68	29.23	89.68	-230.87	740.05	504.60	451.19	53.41	9.447	
7,600.00	7,569.54	7,650.90	7,573.54	27.03	29.55	89.68	-230.87	740.05	504.60	450.50	54.10	9.327	
7,700.00	7,669.54	7,750.90	7,673.54	27.37	29.86	89.68	-230.87	740.05	504.60	449.81	54.79	9.210	
7,800.00	7,769.54	7,850.90	7,773.54	27.72	30.18	89.68	-230.87	740.05	504.60	449.13	55.47	9.096	
7,900.00	7,869.54	7,950.90	7,873.54	28.07	30.50	89.68	-230.87	740.05	504.60	448.44	56.16	8.985	
8,000.00	7,969.54	8,050.90	7,973.54	28.42	30.82	89.68	-230.87	740.05	504.60	447.75	56.85	8.876	
8,100.00	8,069.54	8,150.90	8,073.54	28.77	31.13	89.68	-230.87	740.05	504.60	447.06	57.54	8.770	
8,200.00	8,169.54	8,250.90	8,173.54	29.12	31.45	89.68	-230.87	740.05	504.60	446.37	58.23	8.666	
8,300.00	8,269.54	8,350.90	8,273.54	29.47	31.78	89.68	-230.87	740.05	504.60	445.68	58.92	8.565	
8,400.00	8,369.54	8,450.90	8,373.54	29.82	32.10	89.68	-230.87	740.05	504.60	444.99	59.61	8.465	
8,500.00	8,469.54	8,550.90	8,473.54	30.17	32.42	89.68	-230.87	740.05	504.60	444.30	60.30	8.368	
8,600.00	8,569.54	8,650.90	8,573.54	30.52	32.74	89.68	-230.87	740.05	504.60	443.61	60.99	8.273	
8,700.00	8,669.54	8,750.90	8,673.54	30.87	33.07	89.68	-230.87	740.05	504.60	442.92	61.68	8.181	
8,800.00	8,769.54	8,850.90	8,773.54	31.22	33.39	89.68	-230.87	740.05	504.60	442.22	62.38	8.090	
8,900.00	8,869.54	8,950.90	8,873.54	31.57	33.72	89.68	-230.87	740.05	504.60	441.53	63.07	8.001	
9,000.00	8,969.54	9,050.90	8,973.54	31.93	34.04	89.68	-230.87	740.05	504.60	440.84	63.76	7.914	
9,100.00	9,069.54	9,150.90	9,073.54	32.28	34.37	89.68	-230.87	740.05	504.60	440.14	64.46	7.828	
9,200.00	9,169.54	9,250.90	9,173.54	32.63	34.69	89.68	-230.87	740.05	504.60	439.45	65.15	7.745	
9,300.00	9,269.54	9,350.90	9,273.54	32.98	35.02	89.68	-230.87	740.05	504.60	438.75	65.85	7.663	
9,400.00	9,369.54	9,450.90	9,373.54	33.33	35.35	89.68	-230.87	740.05	504.60	438.06	66.54	7.583	
9,500.00	9,469.54	9,550.90	9,473.54	33.68	35.68	89.68	-230.87	740.05	504.60	437.36	67.24	7.504	
9,600.00	9,569.54	9,650.90	9,573.54	34.04	36.01	89.68	-230.87	740.05	504.60	436.66	67.94	7.427	
9,700.00	9,669.54	9,750.90	9,673.54	34.39	36.34	89.68	-230.87	740.05	504.60	435.96	68.64	7.352	
9,800.00	9,769.54	9,850.90	9,773.54	34.74	36.67	89.68	-230.87	740.05	504.60	435.27	69.33	7.278	
9,889.88	9,859.42	9,940.79	9,863.42	35.06	36.97	89.62	-230.30	740.05	504.60	434.64	69.96	7.213 CC	
9,900.00	9,869.54	9,950.89	9,873.51	35.09	37.00	89.56	-229.77	740.04	504.60	434.57	70.03	7.206	
10,000.00	9,969.54	10,048.59	9,970.03	35.45	37.29	87.93	-215.46	739.95	504.83	434.19	70.64	7.146 ES	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD						Rule Assigned:				Offset Well Error:	0.00 usft	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
10,100.00	10,069.54	10,139.04	10,056.04	35.80	37.53	84.80	-187.77	739.77	506.69	435.57	71.12	7.125		
10,200.00	10,169.54	10,219.16	10,127.77	36.15	37.69	80.82	-152.21	739.53	512.65	441.31	71.34	7.186		
10,300.00	10,269.54	10,288.06	10,184.97	36.51	37.81	76.63	-113.89	739.28	525.37	454.25	71.12	7.387		
10,400.00	10,369.54	10,350.00	10,232.15	36.86	37.89	72.39	-73.80	739.01	546.91	476.53	70.38	7.771		
10,500.00	10,469.54	10,400.00	10,266.89	37.21	37.94	68.74	-37.87	738.77	578.24	509.28	68.96	8.386		
10,600.00	10,569.54	10,436.49	10,290.20	37.57	37.97	66.02	-9.80	738.59	619.29	552.40	66.89	9.258		
10,700.00	10,669.54	10,471.26	10,310.71	37.92	37.99	63.39	18.26	738.40	669.37	604.63	64.74	10.340		
10,800.00	10,769.54	10,500.00	10,326.36	38.27	38.00	61.23	42.37	738.24	727.29	664.74	62.55	11.628		
10,900.00	10,869.54	10,526.08	10,339.49	38.63	38.01	59.29	64.90	738.09	791.82	731.28	60.54	13.078		
11,000.00	10,969.45	10,550.00	10,350.62	38.98	38.02	53.57	86.07	737.95	860.78	802.04	58.75	14.653		
11,100.00	11,067.64	10,574.55	10,361.12	39.30	38.02	45.47	108.27	737.80	927.54	870.50	57.05	16.260		
11,200.00	11,161.16	10,600.00	10,370.98	39.59	38.02	39.20	131.72	737.65	989.43	933.97	55.46	17.840		
11,300.00	11,247.17	10,633.04	10,382.22	39.83	38.02	34.36	162.78	737.44	1,044.83	990.66	54.17	19.289		
11,400.00	11,323.06	10,650.00	10,387.29	40.03	38.02	31.08	178.97	737.33	1,092.80	1,040.05	52.75	20.715		
11,500.00	11,386.52	10,700.00	10,399.42	40.18	38.02	28.34	227.46	737.01	1,131.62	1,079.54	52.07	21.731		
11,600.00	11,435.62	10,731.37	10,404.85	40.33	38.02	26.66	258.35	736.81	1,161.36	1,110.00	51.36	22.613		
11,700.00	11,468.88	10,750.00	10,407.27	40.54	38.03	25.64	276.82	736.69	1,181.57	1,130.69	50.88	23.222		
11,800.00	11,485.28	10,800.00	10,410.79	40.77	38.05	25.10	326.68	736.35	1,191.04	1,140.13	50.91	23.394		
11,900.00	11,486.77	10,868.25	10,410.84	41.03	38.10	25.04	394.93	735.90	1,192.00	1,140.82	51.18	23.290		
12,000.00	11,486.33	10,968.25	10,410.55	41.36	38.29	25.05	494.92	735.24	1,191.88	1,140.32	51.56	23.118		
12,100.00	11,485.90	11,068.25	10,410.25	41.74	38.59	25.05	594.92	734.58	1,191.75	1,139.75	52.00	22.917		
12,200.00	11,485.46	11,168.25	10,409.95	42.19	39.00	25.05	694.92	733.91	1,191.62	1,139.10	52.52	22.688		
12,300.00	11,485.02	11,268.25	10,409.66	42.70	39.49	25.06	794.92	733.25	1,191.50	1,138.39	53.11	22.435		
12,400.00	11,484.59	11,368.25	10,409.36	43.26	40.04	25.06	894.91	732.59	1,191.37	1,137.61	53.76	22.160		
12,500.00	11,484.15	11,468.25	10,409.06	43.88	40.67	25.06	994.91	731.92	1,191.24	1,136.76	54.48	21.866		
12,600.00	11,483.71	11,568.25	10,408.77	44.55	41.35	25.06	1,094.91	731.26	1,191.11	1,135.86	55.26	21.556		
12,700.00	11,483.27	11,668.25	10,408.47	45.27	42.08	25.07	1,194.91	730.60	1,190.99	1,134.89	56.09	21.233		
12,800.00	11,482.83	11,768.25	10,408.17	46.04	42.87	25.07	1,294.90	729.93	1,190.86	1,133.87	56.98	20.898		
12,900.00	11,482.39	11,868.25	10,407.88	46.85	43.70	25.07	1,394.90	729.27	1,190.73	1,132.80	57.93	20.555		
13,000.00	11,481.95	11,968.25	10,407.58	47.71	44.58	25.08	1,494.90	728.61	1,190.60	1,131.68	58.92	20.206		
13,100.00	11,481.52	12,068.25	10,407.28	48.61	45.51	25.08	1,594.89	727.94	1,190.47	1,130.51	59.96	19.853		
13,200.00	11,481.08	12,168.25	10,406.99	49.55	46.47	25.08	1,694.89	727.28	1,190.34	1,129.29	61.05	19.498		
13,300.00	11,480.64	12,268.25	10,406.69	50.52	47.47	25.09	1,794.89	726.62	1,190.21	1,128.03	62.18	19.142		
13,400.00	11,480.20	12,368.25	10,406.39	51.53	48.51	25.09	1,894.89	725.95	1,190.08	1,126.74	63.35	18.787		
13,500.00	11,479.75	12,468.25	10,406.10	52.57	49.57	25.09	1,994.88	725.29	1,189.95	1,125.40	64.55	18.434		
13,600.00	11,479.31	12,568.25	10,405.80	53.65	50.67	25.09	2,094.88	724.63	1,189.82	1,124.03	65.79	18.084		
13,700.00	11,478.87	12,668.25	10,405.50	54.75	51.80	25.10	2,194.88	723.96	1,189.69	1,122.63	67.07	17.738		
13,800.00	11,478.43	12,768.25	10,405.21	55.88	52.96	25.10	2,294.88	723.30	1,189.56	1,121.19	68.37	17.398		
13,900.00	11,477.99	12,868.25	10,404.91	57.03	54.14	25.10	2,394.87	722.64	1,189.43	1,119.72	69.71	17.063		
14,000.00	11,477.55	12,968.25	10,404.61	58.21	55.35	25.11	2,494.87	721.97	1,189.30	1,118.23	71.07	16.734		
14,100.00	11,477.11	13,068.25	10,404.32	59.41	56.58	25.11	2,594.87	721.31	1,189.17	1,116.71	72.46	16.412		
14,200.00	11,476.66	13,168.25	10,404.02	60.64	57.83	25.11	2,694.86	720.65	1,189.04	1,115.17	73.87	16.096		
14,300.00	11,476.22	13,268.25	10,403.72	61.88	59.10	25.12	2,794.86	719.98	1,188.91	1,113.60	75.31	15.788		
14,400.00	11,475.78	13,368.25	10,403.43	63.14	60.39	25.12	2,894.86	719.32	1,188.78	1,112.02	76.76	15.487		
14,500.00	11,475.34	13,468.25	10,403.13	64.42	61.69	25.12	2,994.86	718.66	1,188.65	1,110.41	78.24	15.193		
14,600.00	11,474.89	13,568.25	10,402.83	65.72	63.02	25.12	3,094.85	717.99	1,188.52	1,108.78	79.73	14.906		
14,700.00	11,474.45	13,668.25	10,402.54	67.03	64.35	25.13	3,194.85	717.33	1,188.38	1,107.14	81.25	14.627		
14,800.00	11,474.00	13,768.25	10,402.24	68.36	65.71	25.13	3,294.85	716.67	1,188.25	1,105.48	82.77	14.355		
14,900.00	11,473.56	13,868.25	10,401.94	69.70	67.07	25.13	3,394.85	716.01	1,188.12	1,103.80	84.32	14.091		
15,000.00	11,473.12	13,968.25	10,401.65	71.06	68.45	25.14	3,494.84	715.34	1,187.99	1,102.11	85.88	13.834		
15,100.00	11,472.67	14,068.25	10,401.35	72.43	69.84	25.14	3,594.84	714.68	1,187.85	1,100.41	87.45	13.583		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,200.00	11,472.23	14,168.25	10,401.05	73.81	71.24	25.14	3,694.84	714.02	1,187.72	1,098.69	89.03	13.340			
15,300.00	11,471.78	14,268.25	10,400.76	75.20	72.66	25.15	3,794.83	713.35	1,187.59	1,096.96	90.63	13.104			
15,400.00	11,471.34	14,368.25	10,400.46	76.60	74.08	25.15	3,894.83	712.69	1,187.46	1,095.22	92.24	12.873			
15,500.00	11,470.89	14,468.25	10,400.16	78.01	75.51	25.15	3,994.83	712.03	1,187.32	1,093.46	93.86	12.650			
15,600.00	11,470.44	14,568.25	10,399.87	79.43	76.95	25.16	4,094.83	711.36	1,187.19	1,091.70	95.49	12.433			
15,700.00	11,470.00	14,668.25	10,399.57	80.86	78.40	25.16	4,194.82	710.70	1,187.05	1,089.93	97.13	12.222			
15,800.00	11,469.55	14,768.25	10,399.27	82.30	79.86	25.16	4,294.82	710.04	1,186.92	1,088.15	98.77	12.017			
15,900.00	11,469.10	14,868.25	10,398.98	83.74	81.32	25.17	4,394.82	709.37	1,186.79	1,086.36	100.43	11.817			
16,000.00	11,468.66	14,968.25	10,398.68	85.20	82.80	25.17	4,494.81	708.71	1,186.65	1,084.56	102.09	11.623			
16,100.00	11,468.21	15,068.25	10,398.38	86.66	84.27	25.17	4,594.81	708.05	1,186.52	1,082.76	103.76	11.435			
16,200.00	11,467.76	15,168.25	10,398.09	88.13	85.76	25.18	4,694.81	707.38	1,186.38	1,080.94	105.44	11.252			
16,300.00	11,467.32	15,268.25	10,397.79	89.60	87.25	25.18	4,794.81	706.72	1,186.25	1,079.12	107.12	11.074			
16,400.00	11,466.87	15,368.25	10,397.49	91.08	88.75	25.18	4,894.80	706.06	1,186.11	1,077.30	108.81	10.900			
16,500.00	11,466.42	15,468.25	10,397.20	92.57	90.25	25.19	4,994.80	705.39	1,185.98	1,075.47	110.51	10.732			
16,600.00	11,465.97	15,568.25	10,396.90	94.06	91.76	25.19	5,094.80	704.73	1,185.84	1,073.63	112.21	10.568			
16,700.00	11,465.52	15,668.25	10,396.60	95.56	93.27	25.19	5,194.80	704.07	1,185.71	1,071.79	113.92	10.408			
16,800.00	11,465.07	15,768.25	10,396.31	97.06	94.79	25.20	5,294.79	703.40	1,185.57	1,069.94	115.63	10.253			
16,900.00	11,464.62	15,868.25	10,396.01	98.57	96.31	25.20	5,394.79	702.74	1,185.43	1,068.09	117.34	10.102			
17,000.00	11,464.17	15,968.25	10,395.71	100.08	97.84	25.20	5,494.79	702.08	1,185.30	1,066.23	119.06	9.955			
17,100.00	11,463.72	16,068.25	10,395.42	101.60	99.37	25.21	5,594.78	701.41	1,185.16	1,064.37	120.79	9.812			
17,200.00	11,463.27	16,168.25	10,395.12	103.12	100.91	25.21	5,694.78	700.75	1,185.02	1,062.51	122.51	9.673			
17,300.00	11,462.82	16,268.25	10,394.82	104.65	102.45	25.21	5,794.78	700.09	1,184.89	1,060.64	124.25	9.537			
17,400.00	11,462.37	16,368.25	10,394.52	106.18	103.99	25.22	5,894.78	699.42	1,184.75	1,058.77	125.98	9.404			
17,500.00	11,461.92	16,468.25	10,394.23	107.71	105.53	25.22	5,994.77	698.76	1,184.61	1,056.89	127.72	9.275			
17,600.00	11,461.47	16,568.25	10,393.93	109.25	107.08	25.22	6,094.77	698.10	1,184.48	1,055.02	129.46	9.149			
17,700.00	11,461.02	16,668.25	10,393.63	110.79	108.64	25.23	6,194.77	697.44	1,184.34	1,053.14	131.20	9.027			
17,800.00	11,460.57	16,768.25	10,393.34	112.33	110.19	25.23	6,294.77	696.77	1,184.20	1,051.25	132.95	8.907			
17,900.00	11,460.12	16,868.25	10,393.04	113.88	111.75	25.23	6,394.76	696.11	1,184.06	1,049.37	134.70	8.791			
18,000.00	11,459.66	16,968.25	10,392.74	115.43	113.31	25.24	6,494.76	695.45	1,183.92	1,047.48	136.45	8.677			
18,100.00	11,459.21	17,068.25	10,392.45	116.98	114.87	25.24	6,594.76	694.78	1,183.79	1,045.58	138.20	8.566			
18,200.00	11,458.76	17,168.25	10,392.15	118.54	116.44	25.24	6,694.75	694.12	1,183.65	1,043.69	139.96	8.457			
18,300.00	11,458.31	17,268.24	10,391.85	120.09	118.01	25.25	6,794.75	693.46	1,183.51	1,041.80	141.71	8.351			
18,400.00	11,457.85	17,368.24	10,391.56	121.66	119.58	25.25	6,894.75	692.79	1,183.37	1,039.90	143.47	8.248			
18,500.00	11,457.40	17,468.24	10,391.26	123.22	121.15	25.25	6,994.75	692.13	1,183.23	1,038.00	145.23	8.147			
18,600.00	11,456.95	17,568.24	10,390.96	124.78	122.73	25.26	7,094.74	691.47	1,183.09	1,036.10	146.99	8.049			
18,700.00	11,456.49	17,668.24	10,390.67	126.35	124.31	25.26	7,194.74	690.80	1,182.95	1,034.20	148.76	7.952			
18,800.00	11,456.04	17,768.24	10,390.37	127.92	125.89	25.26	7,294.74	690.14	1,182.81	1,032.29	150.52	7.858			
18,900.00	11,455.58	17,868.24	10,390.07	129.50	127.47	25.27	7,394.73	689.48	1,182.67	1,030.38	152.29	7.766			
19,000.00	11,455.13	17,968.24	10,389.78	131.07	129.05	25.27	7,494.73	688.81	1,182.53	1,028.48	154.06	7.676			
19,100.00	11,454.67	18,068.24	10,389.48	132.65	130.64	25.28	7,594.73	688.15	1,182.39	1,026.57	155.82	7.588			
19,200.00	11,454.22	18,168.24	10,389.18	134.22	132.22	25.28	7,694.73	687.49	1,182.25	1,024.66	157.59	7.502			
19,300.00	11,453.76	18,268.24	10,388.89	135.80	133.81	25.28	7,794.72	686.82	1,182.11	1,022.75	159.36	7.418			
19,400.00	11,453.31	18,368.24	10,388.59	137.39	135.40	25.29	7,894.72	686.16	1,181.97	1,020.84	161.13	7.335			
19,500.00	11,452.85	18,468.24	10,388.29	138.97	136.99	25.29	7,994.72	685.50	1,181.83	1,018.93	162.90	7.255			
19,600.00	11,452.39	18,568.24	10,388.00	140.56	138.59	25.29	8,094.72	684.83	1,181.69	1,017.01	164.67	7.176			
19,700.00	11,451.94	18,668.24	10,387.70	142.14	140.18	25.30	8,194.71	684.17	1,181.54	1,015.10	166.45	7.099			
19,800.00	11,451.48	18,768.24	10,387.40	143.73	141.78	25.30	8,294.71	683.51	1,181.40	1,013.18	168.22	7.023			
19,900.00	11,451.02	18,868.24	10,387.11	145.32	143.37	25.30	8,394.71	682.84	1,181.26	1,011.27	170.00	6.949			
20,000.00	11,450.57	18,968.24	10,386.81	146.91	144.97	25.31	8,494.70	682.18	1,181.12	1,009.35	171.77	6.876			
20,100.00	11,450.11	19,068.24	10,386.51	148.51	146.57	25.31	8,594.70	681.52	1,180.98	1,007.43	173.54	6.805			
20,200.00	11,449.65	19,168.24	10,386.22	150.10	148.18	25.32	8,694.70	680.85	1,180.83	1,005.51	175.32	6.735			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Factor
20,300.00	11,449.19	19,268.24	10,385.92	151.70	149.78	25.32	8,794.70	680.19	1,180.69	1,003.60	177.10	6.667
20,400.00	11,448.73	19,368.24	10,385.62	153.29	151.38	25.32	8,894.69	679.53	1,180.55	1,001.68	178.87	6.600
20,500.00	11,448.27	19,468.24	10,385.33	154.89	152.99	25.33	8,994.69	678.87	1,180.41	999.76	180.65	6.534
20,600.00	11,447.82	19,568.24	10,385.03	156.49	154.59	25.33	9,094.69	678.20	1,180.26	997.84	182.43	6.470
20,700.00	11,447.36	19,668.24	10,384.73	158.09	156.20	25.33	9,194.69	677.54	1,180.12	995.92	184.20	6.407
20,800.00	11,446.90	19,768.24	10,384.44	159.70	157.81	25.34	9,294.68	676.88	1,179.98	994.00	185.98	6.345
20,900.00	11,446.44	19,868.24	10,384.14	161.30	159.42	25.34	9,394.68	676.21	1,179.83	992.08	187.75	6.284
21,000.00	11,445.98	19,968.24	10,383.84	162.90	161.03	25.35	9,494.68	675.55	1,179.69	990.16	189.53	6.224
21,100.00	11,445.52	20,068.24	10,383.55	164.51	162.64	25.35	9,594.67	674.89	1,179.54	988.23	191.31	6.166
21,200.00	11,445.06	20,168.24	10,383.25	166.11	164.25	25.35	9,694.67	674.22	1,179.40	986.31	193.09	6.108
21,300.00	11,444.60	20,268.24	10,382.95	167.72	165.86	25.36	9,794.67	673.56	1,179.26	984.39	194.86	6.052
21,400.00	11,444.14	20,368.24	10,382.66	169.33	167.48	25.36	9,894.67	672.90	1,179.11	982.47	196.64	5.996
21,500.00	11,443.67	20,468.24	10,382.36	170.94	169.09	25.36	9,994.66	672.23	1,178.97	980.55	198.42	5.942
21,600.00	11,443.21	20,568.24	10,382.06	172.55	170.71	25.37	10,094.66	671.57	1,178.82	978.63	200.19	5.888
21,700.00	11,442.75	20,668.24	10,381.77	174.16	172.32	25.37	10,194.66	670.91	1,178.68	976.71	201.97	5.836
21,800.00	11,442.29	20,768.24	10,381.47	175.77	173.94	25.38	10,294.65	670.24	1,178.53	974.78	203.75	5.784
21,833.45	11,442.13	20,800.00	10,381.38	176.31	174.45	25.38	10,326.41	670.03	1,178.48	974.15	204.33	5.767
21,862.35	11,442.00	20,817.00	10,381.18	176.77	174.73	25.38	10,343.42	670.07	1,178.71	973.91	204.80	5.755 SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 503H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-90.32	-7.50	-1,334.06	1,334.12				
100.00	100.00	90.00	90.00	0.13	0.12	-90.32	-7.50	-1,334.06	1,334.08	1,333.82	0.26	5,223.255	
200.00	200.00	190.00	190.00	0.49	0.46	-90.32	-7.50	-1,334.06	1,334.08	1,333.13	0.95	1,404.367	
300.00	300.00	290.00	290.00	0.85	0.82	-90.32	-7.50	-1,334.06	1,334.08	1,332.41	1.67	800.338	
400.00	400.00	390.00	390.00	1.21	1.17	-90.32	-7.50	-1,334.06	1,334.08	1,331.69	2.38	559.635	
500.00	500.00	490.00	490.00	1.57	1.53	-90.32	-7.50	-1,334.06	1,334.08	1,330.98	3.10	430.240	
600.00	600.00	590.00	590.00	1.93	1.89	-90.32	-7.50	-1,334.06	1,334.08	1,330.26	3.82	349.444	
700.00	700.00	690.00	690.00	2.29	2.25	-90.32	-7.50	-1,334.06	1,334.08	1,329.54	4.53	294.196	
800.00	800.00	790.00	790.00	2.64	2.61	-90.32	-7.50	-1,334.06	1,334.08	1,328.83	5.25	254.032	
900.00	900.00	890.00	890.00	3.00	2.97	-90.32	-7.50	-1,334.06	1,334.08	1,328.11	5.97	223.518	
1,000.00	1,000.00	990.00	990.00	3.36	3.32	-90.32	-7.50	-1,334.06	1,334.08	1,327.39	6.69	199.548	
1,100.00	1,100.00	1,090.00	1,090.00	3.72	3.68	-90.32	-7.50	-1,334.06	1,334.08	1,326.68	7.40	180.222	
1,200.00	1,200.00	1,190.00	1,190.00	4.08	4.04	-90.32	-7.50	-1,334.06	1,334.08	1,325.96	8.12	164.308	
1,300.00	1,300.00	1,290.00	1,290.00	4.44	4.40	-90.32	-7.50	-1,334.06	1,334.08	1,325.24	8.84	150.977	
1,400.00	1,400.00	1,390.00	1,390.00	4.79	4.76	-90.32	-7.50	-1,334.06	1,334.08	1,324.53	9.55	139.646	
1,500.00	1,500.00	1,490.00	1,490.00	5.15	5.12	-90.32	-7.50	-1,334.06	1,334.08	1,323.81	10.27	129.898	
1,600.00	1,600.00	1,590.00	1,590.00	5.51	5.48	-90.32	-7.50	-1,334.06	1,334.08	1,323.09	10.99	121.422	
1,700.00	1,700.00	1,690.00	1,690.00	5.87	5.83	-90.32	-7.50	-1,334.06	1,334.08	1,322.37	11.70	113.984	
1,800.00	1,800.00	1,790.00	1,790.00	6.23	6.19	-90.32	-7.50	-1,334.06	1,334.08	1,321.66	12.42	107.405	
1,900.00	1,900.00	1,890.00	1,890.00	6.59	6.55	-90.32	-7.50	-1,334.06	1,334.08	1,320.94	13.14	101.544	
2,000.00	2,000.00	1,990.00	1,990.00	6.95	6.91	-90.32	-7.50	-1,334.06	1,334.08	1,320.22	13.85	96.289 CC, ES	
2,100.00	2,099.98	2,089.98	2,089.98	7.29	7.27	134.93	-7.50	-1,334.06	1,335.31	1,320.75	14.56	91.735	
2,200.00	2,199.84	2,189.84	2,189.84	7.62	7.63	135.04	-7.50	-1,334.06	1,339.01	1,323.77	15.24	87.841	
2,300.00	2,299.45	2,263.61	2,263.61	7.95	7.88	135.12	-7.85	-1,334.67	1,346.06	1,330.23	15.83	85.035	
2,400.00	2,398.70	2,334.02	2,333.97	8.30	8.12	135.16	-9.07	-1,336.77	1,357.71	1,341.31	16.40	82.811	
2,500.00	2,497.47	2,400.00	2,399.84	8.65	8.34	135.15	-10.99	-1,340.10	1,373.93	1,356.99	16.94	81.122	
2,600.00	2,595.62	2,472.63	2,472.21	9.01	8.59	135.14	-13.99	-1,345.28	1,394.66	1,377.16	17.50	79.674	
2,700.00	2,693.44	2,540.74	2,539.93	9.39	8.82	135.40	-17.63	-1,351.58	1,418.65	1,400.60	18.05	78.583	
2,800.00	2,791.25	2,600.00	2,598.70	9.77	9.02	135.59	-21.45	-1,358.20	1,444.67	1,426.11	18.56	77.851	
2,900.00	2,889.07	2,675.19	2,673.01	10.17	9.29	135.79	-27.18	-1,368.10	1,472.57	1,453.43	19.14	76.949	
3,000.00	2,886.88	2,741.40	2,738.19	10.57	9.53	135.93	-33.03	-1,378.22	1,502.41	1,482.73	19.67	76.371	
3,100.00	3,084.70	2,809.97	2,805.37	10.99	9.78	136.04	-39.87	-1,390.05	1,534.09	1,513.87	20.22	75.870	
3,200.00	3,182.51	2,904.51	2,897.85	11.41	10.13	136.16	-49.70	-1,407.07	1,566.52	1,545.60	20.92	74.889	
3,300.00	3,280.33	2,999.05	2,990.33	11.83	10.50	136.28	-59.54	-1,424.09	1,598.95	1,577.32	21.62	73.942	
3,400.00	3,378.14	3,093.60	3,082.81	12.26	10.87	136.39	-69.38	-1,441.11	1,631.39	1,609.05	22.34	73.028	
3,500.00	3,475.96	3,188.14	3,175.28	12.69	11.25	136.50	-79.21	-1,458.13	1,663.83	1,640.77	23.06	72.148	
3,600.00	3,573.77	3,282.69	3,267.77	13.13	11.64	136.64	-89.05	-1,475.14	1,696.27	1,672.48	23.79	71.302	
3,700.00	3,671.97	3,377.72	3,360.72	13.57	12.03	137.14	-98.94	-1,492.25	1,727.35	1,702.83	24.52	70.445	
3,800.00	3,770.78	3,473.52	3,454.43	13.98	12.44	137.52	-108.90	-1,509.50	1,755.99	1,730.74	25.25	69.541	
3,900.00	3,870.05	3,569.98	3,548.78	14.38	12.85	137.77	-118.94	-1,526.86	1,782.16	1,756.18	25.98	68.597	
4,000.00	3,969.69	3,666.97	3,643.65	14.75	13.27	137.92	-129.03	-1,544.32	1,805.84	1,779.13	26.71	67.620	
4,100.00	4,069.56	3,764.39	3,738.94	15.11	13.69	137.96	-139.17	-1,561.85	1,827.02	1,799.59	27.43	66.616	
4,200.00	4,169.54	3,862.10	3,834.52	15.44	14.12	-87.34	-149.33	-1,579.44	1,845.70	1,817.57	28.14	65.596	
4,300.00	4,269.54	3,959.92	3,930.20	15.77	14.55	-87.68	-159.51	-1,597.05	1,863.35	1,834.50	28.85	64.592	
4,400.00	4,369.54	4,057.73	4,025.87	16.10	14.99	-88.02	-169.69	-1,614.66	1,881.05	1,851.49	29.56	63.635	
4,500.00	4,469.54	4,155.55	4,121.55	16.43	15.42	-88.35	-179.87	-1,632.26	1,898.82	1,868.55	30.27	62.721	
4,600.00	4,569.54	4,253.36	4,217.23	16.76	15.86	-88.67	-190.04	-1,649.87	1,916.65	1,885.66	30.99	61.848	
4,700.00	4,669.54	4,351.18	4,312.90	17.09	16.31	-88.99	-200.22	-1,667.48	1,934.54	1,902.83	31.71	61.014	
4,800.00	4,769.54	4,448.99	4,408.58	17.43	16.75	-89.31	-210.40	-1,685.09	1,952.49	1,920.06	32.42	60.216	
4,900.00	4,869.54	4,546.93	4,503.13	17.76	17.63	-89.85	-228.57	-1,716.53	1,968.77	1,935.03	33.73	58.368	
5,000.00	4,969.54	4,644.12	4,648.81	18.10	18.60	-90.24	-241.86	-1,739.52	1,978.10	1,942.95	35.15	56.280	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 503H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,069.54	5,104.98	5,059.54	18.43	19.32	-90.32	-244.84	-1,744.68	1,980.17	1,943.93	36.23	54.649	
5,200.00	5,169.54	5,204.98	5,159.54	18.77	19.64	-90.32	-244.84	-1,744.68	1,980.17	1,943.26	36.91	53.646	
5,300.00	5,269.54	5,304.98	5,259.54	19.11	19.96	-90.32	-244.84	-1,744.68	1,980.17	1,942.58	37.59	52.678	
5,400.00	5,369.54	5,404.98	5,359.54	19.45	20.28	-90.32	-244.84	-1,744.68	1,980.17	1,941.90	38.27	51.742	
5,500.00	5,469.54	5,504.98	5,459.54	19.79	20.61	-90.32	-244.84	-1,744.68	1,980.17	1,941.22	38.95	50.837	
5,600.00	5,569.54	5,604.98	5,559.54	20.13	20.93	-90.32	-244.84	-1,744.68	1,980.17	1,940.53	39.63	49.961	
5,700.00	5,669.54	5,704.98	5,659.54	20.47	21.26	-90.32	-244.84	-1,744.68	1,980.17	1,939.85	40.32	49.114	
5,800.00	5,769.54	5,804.98	5,759.54	20.81	21.58	-90.32	-244.84	-1,744.68	1,980.17	1,939.17	41.00	48.293	
5,900.00	5,869.54	5,904.98	5,859.54	21.15	21.91	-90.32	-244.84	-1,744.68	1,980.17	1,938.48	41.69	47.499	
6,000.00	5,969.54	6,004.98	5,959.54	21.49	22.24	-90.32	-244.84	-1,744.68	1,980.17	1,937.79	42.38	46.728	
6,100.00	6,069.54	6,104.98	6,059.54	21.83	22.57	-90.32	-244.84	-1,744.68	1,980.17	1,937.10	43.06	45.982	
6,200.00	6,169.54	6,204.98	6,159.54	22.18	22.90	-90.32	-244.84	-1,744.68	1,980.17	1,936.42	43.75	45.258	
6,300.00	6,269.54	6,304.98	6,259.54	22.52	23.23	-90.32	-244.84	-1,744.68	1,980.17	1,935.73	44.44	44.555	
6,400.00	6,369.54	6,404.98	6,359.54	22.87	23.56	-90.32	-244.84	-1,744.68	1,980.17	1,935.04	45.13	43.874	
6,500.00	6,469.54	6,504.98	6,459.54	23.21	23.90	-90.32	-244.84	-1,744.68	1,980.17	1,934.34	45.83	43.211	
6,600.00	6,569.54	6,604.98	6,559.54	23.56	24.23	-90.32	-244.84	-1,744.68	1,980.17	1,933.65	46.52	42.568	
6,700.00	6,669.54	6,704.98	6,659.54	23.90	24.57	-90.32	-244.84	-1,744.68	1,980.17	1,932.96	47.21	41.944	
6,800.00	6,769.54	6,804.98	6,759.54	24.25	24.90	-90.32	-244.84	-1,744.68	1,980.17	1,932.27	47.90	41.336	
6,900.00	6,869.54	6,904.98	6,859.54	24.59	25.24	-90.32	-244.84	-1,744.68	1,980.17	1,931.57	48.60	40.746	
7,000.00	6,969.54	7,004.98	6,959.54	24.94	25.57	-90.32	-244.84	-1,744.68	1,980.17	1,930.88	49.29	40.171	
7,100.00	7,069.54	7,104.98	7,059.54	25.29	25.91	-90.32	-244.84	-1,744.68	1,980.17	1,930.18	49.99	39.612	
7,200.00	7,169.54	7,204.98	7,159.54	25.63	26.25	-90.32	-244.84	-1,744.68	1,980.17	1,929.48	50.69	39.068	
7,300.00	7,269.54	7,304.98	7,259.54	25.98	26.59	-90.32	-244.84	-1,744.68	1,980.17	1,928.79	51.38	38.538	
7,400.00	7,369.54	7,404.98	7,359.54	26.33	26.92	-90.32	-244.84	-1,744.68	1,980.17	1,928.09	52.08	38.022	
7,500.00	7,469.54	7,504.98	7,459.54	26.68	27.26	-90.32	-244.84	-1,744.68	1,980.17	1,927.39	52.78	37.519	
7,600.00	7,569.54	7,604.98	7,559.54	27.03	27.60	-90.32	-244.84	-1,744.68	1,980.17	1,926.69	53.48	37.029	
7,700.00	7,669.54	7,704.98	7,659.54	27.37	27.94	-90.32	-244.84	-1,744.68	1,980.17	1,925.99	54.17	36.552	
7,800.00	7,769.54	7,804.98	7,759.54	27.72	28.28	-90.32	-244.84	-1,744.68	1,980.17	1,925.30	54.87	36.086	
7,900.00	7,869.54	7,904.98	7,859.54	28.07	28.62	-90.32	-244.84	-1,744.68	1,980.17	1,924.60	55.57	35.631	
8,000.00	7,969.54	8,004.98	7,959.54	28.42	28.97	-90.32	-244.84	-1,744.68	1,980.17	1,923.90	56.27	35.188	
8,100.00	8,069.54	8,104.98	8,059.54	28.77	29.31	-90.32	-244.84	-1,744.68	1,980.17	1,923.19	56.97	34.755	
8,200.00	8,169.54	8,204.98	8,159.54	29.12	29.65	-90.32	-244.84	-1,744.68	1,980.17	1,922.49	57.68	34.333	
8,300.00	8,269.54	8,304.98	8,259.54	29.47	29.99	-90.32	-244.84	-1,744.68	1,980.17	1,921.79	58.38	33.920	
8,400.00	8,369.54	8,404.98	8,359.54	29.82	30.34	-90.32	-244.84	-1,744.68	1,980.17	1,921.09	59.08	33.518	
8,500.00	8,469.54	8,504.98	8,459.54	30.17	30.68	-90.32	-244.84	-1,744.68	1,980.17	1,920.39	59.78	33.124	
8,600.00	8,569.54	8,604.98	8,559.54	30.52	31.02	-90.32	-244.84	-1,744.68	1,980.17	1,919.69	60.48	32.739	
8,700.00	8,669.54	8,704.98	8,659.54	30.87	31.37	-90.32	-244.84	-1,744.68	1,980.17	1,918.98	61.19	32.363	
8,800.00	8,769.54	8,804.98	8,759.54	31.22	31.71	-90.32	-244.84	-1,744.68	1,980.17	1,918.28	61.89	31.995	
8,900.00	8,869.54	8,904.98	8,859.54	31.57	32.06	-90.32	-244.84	-1,744.68	1,980.17	1,917.58	62.59	31.636	
9,000.00	8,969.54	9,004.98	8,959.54	31.93	32.40	-90.32	-244.84	-1,744.68	1,980.17	1,916.87	63.30	31.284	
9,100.00	9,069.54	9,104.98	9,059.54	32.28	32.75	-90.32	-244.84	-1,744.68	1,980.17	1,916.17	64.00	30.940	
9,200.00	9,169.54	9,204.98	9,159.54	32.63	33.09	-90.32	-244.84	-1,744.68	1,980.17	1,915.46	64.70	30.603	
9,300.00	9,269.54	9,304.98	9,259.54	32.98	33.44	-90.32	-244.84	-1,744.68	1,980.17	1,914.76	65.41	30.273	
9,400.00	9,369.54	9,404.98	9,359.54	33.33	33.78	-90.32	-244.84	-1,744.68	1,980.17	1,914.05	66.11	29.951	
9,500.00	9,469.54	9,504.98	9,459.54	33.68	34.13	-90.32	-244.84	-1,744.68	1,980.17	1,913.35	66.82	29.635	
9,600.00	9,569.54	9,604.98	9,559.54	34.04	34.48	-90.32	-244.84	-1,744.68	1,980.17	1,912.64	67.52	29.325	
9,700.00	9,669.54	9,704.98	9,659.54	34.39	34.82	-90.32	-244.84	-1,744.68	1,980.17	1,911.94	68.23	29.022	
9,800.00	9,769.54	9,804.98	9,759.54	34.74	35.17	-90.32	-244.84	-1,744.68	1,980.17	1,911.23	68.94	28.725	
9,900.00	9,869.54	9,904.98	9,859.54	35.09	35.52	-90.32	-244.84	-1,744.68	1,980.17	1,910.53	69.64	28.433	
9,906.99	9,876.53	9,911.97	9,866.53	35.12	35.54	-90.32	-244.84	-1,744.68	1,980.17	1,910.48	69.69	28.413	
10,000.00	9,969.54	10,004.68	9,959.18	35.45	35.86	-90.26	-242.64	-1,744.69	1,980.17	1,909.83	70.34	28.150	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 503H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD						Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,069.54	10,101.18	10,054.14	35.80	36.17	-89.78	-226.16	-1,744.80	1,980.28	1,909.27	71.01	27.887		
10,200.00	10,169.54	10,189.93	10,137.91	36.15	36.42	-88.94	-197.15	-1,744.99	1,980.91	1,909.28	71.63	27.656		
10,300.00	10,269.54	10,268.18	10,207.30	36.51	36.61	-87.90	-161.10	-1,745.23	1,982.71	1,910.53	72.18	27.469		
10,400.00	10,369.54	10,335.32	10,262.45	36.86	36.75	-86.80	-122.88	-1,745.49	1,986.42	1,913.75	72.67	27.336		
10,500.00	10,469.54	10,392.07	10,305.31	37.21	36.84	-85.73	-85.72	-1,745.73	1,992.69	1,919.61	73.07	27.270		
10,600.00	10,569.54	10,439.79	10,338.37	37.57	36.91	-84.74	-51.32	-1,745.96	2,002.05	1,928.66	73.38	27.282		
10,700.00	10,669.54	10,479.96	10,363.89	37.92	36.95	-83.86	-20.31	-1,746.17	2,014.89	1,941.29	73.59	27.379		
10,800.00	10,769.54	10,513.92	10,383.73	38.27	36.99	-83.07	7.24	-1,746.35	2,031.46	1,957.76	73.70	27.564		
10,900.00	10,869.54	10,550.00	10,402.98	38.63	37.02	-82.20	37.75	-1,746.55	2,051.94	1,978.21	73.74	27.828		
11,000.00	10,969.45	10,568.70	10,412.19	38.98	37.03	-79.99	54.02	-1,746.66	2,075.92	2,002.31	73.61	28.201		
11,100.00	11,067.64	10,600.00	10,426.41	39.30	37.05	-76.77	81.90	-1,746.84	2,101.00	2,027.54	73.46	28.602		
11,200.00	11,161.16	10,627.77	10,437.73	39.59	37.06	-73.77	107.26	-1,747.01	2,125.76	2,052.54	73.22	29.032		
11,300.00	11,247.17	10,650.00	10,445.90	39.83	37.07	-71.10	127.93	-1,747.15	2,149.18	2,076.24	72.93	29.468		
11,400.00	11,323.06	10,700.00	10,461.31	40.03	37.10	-68.41	175.48	-1,747.47	2,170.10	2,097.31	72.79	29.814		
11,500.00	11,386.52	10,729.22	10,468.37	40.18	37.13	-66.45	203.83	-1,747.65	2,187.81	2,115.22	72.59	30.138		
11,600.00	11,435.62	10,750.00	10,472.51	40.33	37.16	-64.99	224.19	-1,747.79	2,201.77	2,129.31	72.46	30.387		
11,700.00	11,468.88	10,800.00	10,479.42	40.54	37.28	-63.88	273.70	-1,748.12	2,211.02	2,138.46	72.56	30.473		
11,800.00	11,485.28	10,850.00	10,481.99	40.77	37.42	-63.35	323.61	-1,748.45	2,215.73	2,142.95	72.78	30.445		
11,900.00	11,486.77	10,903.01	10,481.77	41.03	37.58	-63.32	376.62	-1,748.80	2,216.10	2,142.96	73.15	30.296		
12,000.00	11,486.33	11,003.00	10,481.26	41.36	37.94	-63.32	476.61	-1,749.46	2,216.14	2,142.38	73.76	30.045		
12,100.00	11,485.90	11,103.00	10,480.76	41.74	38.37	-63.32	576.61	-1,750.13	2,216.17	2,141.68	74.49	29.751		
12,200.00	11,485.46	11,203.00	10,480.25	42.19	38.85	-63.32	676.60	-1,750.79	2,216.20	2,140.86	75.33	29.418		
12,300.00	11,485.02	11,303.00	10,479.75	42.70	39.40	-63.31	776.60	-1,751.45	2,216.23	2,139.94	76.29	29.050		
12,400.00	11,484.59	11,403.00	10,479.24	43.26	40.01	-63.31	876.60	-1,752.12	2,216.26	2,138.90	77.35	28.651		
12,500.00	11,484.15	11,503.00	10,478.74	43.88	40.67	-63.31	976.59	-1,752.78	2,216.29	2,137.77	78.52	28.225		
12,600.00	11,483.71	11,603.00	10,478.23	44.55	41.39	-63.31	1,076.59	-1,753.44	2,216.32	2,136.53	79.79	27.779		
12,700.00	11,483.27	11,703.00	10,477.73	45.27	42.16	-63.31	1,176.58	-1,754.11	2,216.35	2,135.21	81.14	27.314		
12,800.00	11,482.83	11,803.00	10,477.22	46.04	42.98	-63.31	1,276.58	-1,754.77	2,216.38	2,133.79	82.59	26.837		
12,900.00	11,482.39	11,903.00	10,476.72	46.85	43.84	-63.31	1,376.58	-1,755.44	2,216.41	2,132.29	84.12	26.349		
13,000.00	11,481.95	12,003.00	10,476.21	47.71	44.75	-63.30	1,476.57	-1,756.10	2,216.44	2,130.71	85.73	25.855		
13,100.00	11,481.52	12,103.00	10,475.71	48.61	45.71	-63.30	1,576.57	-1,756.76	2,216.47	2,129.05	87.41	25.357		
13,200.00	11,481.08	12,203.00	10,475.20	49.55	46.70	-63.30	1,676.57	-1,757.43	2,216.50	2,127.33	89.17	24.858		
13,300.00	11,480.64	12,303.00	10,474.70	50.52	47.72	-63.30	1,776.56	-1,758.09	2,216.52	2,125.53	90.99	24.360		
13,400.00	11,480.20	12,403.00	10,474.19	51.53	48.78	-63.30	1,876.56	-1,758.76	2,216.55	2,123.68	92.88	23.866		
13,500.00	11,479.75	12,503.00	10,473.69	52.57	49.88	-63.30	1,976.55	-1,759.42	2,216.58	2,121.76	94.82	23.377		
13,600.00	11,479.31	12,603.00	10,473.19	53.65	51.00	-63.29	2,076.55	-1,760.09	2,216.61	2,119.79	96.82	22.894		
13,700.00	11,478.87	12,703.00	10,472.68	54.75	52.15	-63.29	2,176.55	-1,760.75	2,216.64	2,117.77	98.87	22.420		
13,800.00	11,478.43	12,803.00	10,472.18	55.88	53.33	-63.29	2,276.54	-1,761.42	2,216.67	2,115.70	100.97	21.954		
13,900.00	11,477.99	12,903.00	10,471.68	57.03	54.54	-63.29	2,376.54	-1,762.08	2,216.69	2,113.58	103.11	21.497		
14,000.00	11,477.55	13,003.00	10,471.17	58.21	55.76	-63.29	2,476.53	-1,762.75	2,216.72	2,111.42	105.30	21.051		
14,100.00	11,477.11	13,103.00	10,470.67	59.41	57.01	-63.29	2,576.53	-1,763.41	2,216.75	2,109.22	107.53	20.615		
14,200.00	11,476.66	13,203.00	10,470.17	60.64	58.28	-63.29	2,676.53	-1,764.08	2,216.78	2,106.98	109.80	20.190		
14,300.00	11,476.22	13,303.00	10,469.66	61.88	59.57	-63.29	2,776.52	-1,764.74	2,216.80	2,104.71	112.10	19.776		
14,400.00	11,475.78	13,403.00	10,469.16	63.14	60.87	-63.28	2,876.52	-1,765.41	2,216.83	2,102.40	114.43	19.373		
14,500.00	11,475.34	13,502.99	10,468.66	64.42	62.19	-63.28	2,976.51	-1,766.07	2,216.86	2,100.06	116.80	18.980		
14,600.00	11,474.89	13,602.99	10,468.16	65.72	63.53	-63.28	3,076.51	-1,766.74	2,216.88	2,097.69	119.19	18.599		
14,700.00	11,474.45	13,702.99	10,467.65	67.03	64.88	-63.28	3,176.51	-1,767.41	2,216.91	2,095.29	121.61	18.229		
14,800.00	11,474.00	13,802.99	10,467.15	68.36	66.25	-63.28	3,276.50	-1,768.07	2,216.93	2,092.87	124.06	17.870		
14,900.00	11,473.56	13,902.99	10,466.65	69.70	67.63	-63.28	3,376.50	-1,768.74	2,216.96	2,090.43	126.53	17.521		
15,000.00	11,473.12	14,002.99	10,466.15	71.06	69.02	-63.28	3,476.50	-1,769.40	2,216.99	2,087.96	129.03	17.182		
15,100.00	11,472.67	14,102.99	10,465.65	72.43	70.42	-63.27	3,576.49	-1,770.07	2,217.01	2,085.47	131.54	16.854		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 503H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)			Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
15,200.00	11,472.23	14,202.99	10,465.15	73.81	71.84	-63.27	3,676.49	-1,770.74	2,217.04	2,082.96	134.08	16.535		
15,300.00	11,471.78	14,302.99	10,464.64	75.20	73.26	-63.27	3,776.48	-1,771.40	2,217.06	2,080.43	136.64	16.226		
15,400.00	11,471.34	14,402.99	10,464.14	76.60	74.69	-63.27	3,876.48	-1,772.07	2,217.09	2,077.88	139.21	15.926		
15,500.00	11,470.89	14,502.99	10,463.64	78.01	76.14	-63.27	3,976.48	-1,772.73	2,217.11	2,075.31	141.80	15.635		
15,600.00	11,470.44	14,602.99	10,463.14	79.43	77.59	-63.27	4,076.47	-1,773.40	2,217.14	2,072.73	144.41	15.353		
15,700.00	11,470.00	14,702.99	10,462.64	80.86	79.05	-63.27	4,176.47	-1,774.07	2,217.16	2,070.13	147.03	15.080		
15,800.00	11,469.55	14,802.99	10,462.14	82.30	80.51	-63.27	4,276.46	-1,774.73	2,217.19	2,067.52	149.66	14.815		
15,900.00	11,469.10	14,902.99	10,461.64	83.74	81.99	-63.26	4,376.46	-1,775.40	2,217.21	2,064.90	152.31	14.557		
16,000.00	11,468.66	15,002.99	10,461.14	85.20	83.47	-63.26	4,476.46	-1,776.07	2,217.23	2,062.26	154.97	14.307		
16,100.00	11,468.21	15,102.99	10,460.64	86.66	84.95	-63.26	4,576.45	-1,776.73	2,217.26	2,059.61	157.64	14.065		
16,200.00	11,467.76	15,202.99	10,460.14	88.13	86.45	-63.26	4,676.45	-1,777.40	2,217.28	2,056.95	160.33	13.829		
16,300.00	11,467.32	15,302.99	10,459.64	89.60	87.95	-63.26	4,776.44	-1,778.07	2,217.30	2,054.28	163.03	13.601		
16,400.00	11,466.87	15,402.99	10,459.14	91.08	89.45	-63.26	4,876.44	-1,778.74	2,217.33	2,051.59	165.73	13.379		
16,500.00	11,466.42	15,502.99	10,458.64	92.57	90.96	-63.26	4,976.44	-1,779.40	2,217.35	2,048.90	168.45	13.163		
16,600.00	11,465.97	15,602.99	10,458.14	94.06	92.47	-63.26	5,076.43	-1,780.07	2,217.37	2,046.20	171.17	12.954		
16,700.00	11,465.52	15,702.99	10,457.64	95.56	93.99	-63.25	5,176.43	-1,780.74	2,217.40	2,043.49	173.91	12.750		
16,800.00	11,465.07	15,802.99	10,457.14	97.06	95.52	-63.25	5,276.43	-1,781.41	2,217.42	2,040.77	176.65	12.553		
16,900.00	11,464.62	15,902.99	10,456.64	98.57	97.05	-63.25	5,376.42	-1,782.07	2,217.44	2,038.04	179.40	12.360		
17,000.00	11,464.17	16,002.99	10,456.14	100.08	98.58	-63.25	5,476.42	-1,782.74	2,217.46	2,035.30	182.16	12.173		
17,100.00	11,463.72	16,102.98	10,455.64	101.60	100.12	-63.25	5,576.41	-1,783.41	2,217.48	2,032.56	184.92	11.991		
17,200.00	11,463.27	16,202.98	10,455.14	103.12	101.66	-63.25	5,676.41	-1,784.08	2,217.51	2,029.81	187.69	11.814		
17,300.00	11,462.82	16,302.98	10,454.65	104.65	103.20	-63.25	5,776.41	-1,784.75	2,217.53	2,027.06	190.47	11.642		
17,400.00	11,462.37	16,402.98	10,454.15	106.18	104.75	-63.25	5,876.40	-1,785.41	2,217.55	2,024.29	193.26	11.475		
17,500.00	11,461.92	16,502.98	10,453.65	107.71	106.30	-63.25	5,976.40	-1,786.08	2,217.57	2,021.52	196.05	11.312		
17,600.00	11,461.47	16,602.98	10,453.15	109.25	107.85	-63.24	6,076.39	-1,786.75	2,217.59	2,018.75	198.84	11.153		
17,700.00	11,461.02	16,702.98	10,452.65	110.79	109.41	-63.24	6,176.39	-1,787.42	2,217.61	2,015.97	201.64	10.998		
17,800.00	11,460.57	16,802.98	10,452.15	112.33	110.97	-63.24	6,276.39	-1,788.09	2,217.63	2,013.19	204.45	10.847		
17,900.00	11,460.12	16,902.98	10,451.66	113.88	112.53	-63.24	6,376.38	-1,788.76	2,217.65	2,010.40	207.26	10.700		
18,000.00	11,459.66	17,002.98	10,451.16	115.43	114.10	-63.24	6,476.38	-1,789.42	2,217.67	2,007.60	210.07	10.557		
18,100.00	11,459.21	17,102.98	10,450.66	116.98	115.66	-63.24	6,576.38	-1,790.09	2,217.69	2,004.80	212.89	10.417		
18,200.00	11,458.76	17,202.98	10,450.16	118.54	117.23	-63.24	6,676.37	-1,790.76	2,217.71	2,002.00	215.71	10.281		
18,300.00	11,458.31	17,302.98	10,449.67	120.09	118.81	-63.24	6,776.37	-1,791.43	2,217.73	1,999.19	218.54	10.148		
18,400.00	11,457.85	17,402.98	10,449.17	121.66	120.38	-63.24	6,876.36	-1,792.10	2,217.75	1,996.38	221.37	10.018		
18,500.00	11,457.40	17,502.98	10,448.67	123.22	121.96	-63.23	6,976.36	-1,792.77	2,217.77	1,993.56	224.21	9.892		
18,600.00	11,456.95	17,602.98	10,448.18	124.78	123.54	-63.23	7,076.36	-1,793.44	2,217.79	1,990.75	227.05	9.768		
18,700.00	11,456.49	17,702.98	10,447.68	126.35	125.12	-63.23	7,176.35	-1,794.11	2,217.81	1,987.92	229.89	9.647		
18,800.00	11,456.04	17,802.98	10,447.18	127.92	126.70	-63.23	7,276.35	-1,794.78	2,217.83	1,985.10	232.73	9.530		
18,900.00	11,455.58	17,902.98	10,446.69	129.50	128.29	-63.23	7,376.34	-1,795.45	2,217.85	1,982.27	235.58	9.414		
19,000.00	11,455.13	18,002.98	10,446.19	131.07	129.87	-63.23	7,476.34	-1,796.12	2,217.87	1,979.44	238.43	9.302		
19,100.00	11,454.67	18,102.98	10,445.69	132.65	131.46	-63.23	7,576.34	-1,796.79	2,217.88	1,976.60	241.28	9.192		
19,200.00	11,454.22	18,202.98	10,445.20	134.22	133.05	-63.23	7,676.33	-1,797.45	2,217.90	1,973.76	244.14	9.085		
19,300.00	11,453.76	18,302.98	10,444.70	135.80	134.64	-63.23	7,776.33	-1,798.12	2,217.92	1,970.92	247.00	8.980		
19,400.00	11,453.31	18,402.98	10,444.21	137.39	136.23	-63.23	7,876.33	-1,798.79	2,217.94	1,968.08	249.86	8.877		
19,500.00	11,452.85	18,502.98	10,443.71	138.97	137.83	-63.23	7,976.32	-1,799.46	2,217.96	1,965.23	252.72	8.776		
19,600.00	11,452.39	18,602.98	10,443.22	140.56	139.43	-63.22	8,076.32	-1,800.13	2,217.97	1,962.39	255.59	8.678		
19,700.00	11,451.94	18,702.97	10,442.72	142.14	141.02	-63.22	8,176.31	-1,800.81	2,217.99	1,959.54	258.45	8.582		
19,800.00	11,451.48	18,802.97	10,442.23	143.73	142.62	-63.22	8,276.31	-1,801.48	2,218.01	1,956.68	261.32	8.488		
19,900.00	11,451.02	18,902.97	10,441.73	145.32	144.22	-63.22	8,376.31	-1,802.15	2,218.02	1,953.83	264.20	8.395		
20,000.00	11,450.57	19,002.97	10,441.24	146.91	145.82	-63.22	8,476.30	-1,802.82	2,218.04	1,950.97	267.07	8.305		
20,100.00	11,450.11	19,102.97	10,440.74	148.51	147.43	-63.22	8,576.30	-1,803.49	2,218.06	1,948.12	269.94	8.217		
20,200.00	11,449.65	19,202.97	10,440.25	150.10	149.03	-63.22	8,676.29	-1,804.16	2,218.07	1,945.26	272.82	8.130		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 503H - ORIGINAL WELLBORE - PROPOSAL #2											Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD		Reference Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,300.00	11,449.19	19,302.97	10,439.75	151.70	150.63	-63.22	8,776.29	-1,804.83	2,218.09	1,942.39	275.70	8.045	
20,400.00	11,448.73	19,402.97	10,439.26	153.29	152.24	-63.22	8,876.29	-1,805.50	2,218.11	1,939.53	278.57	7.962	
20,500.00	11,448.27	19,502.97	10,438.76	154.89	153.85	-63.22	8,976.28	-1,806.17	2,218.12	1,936.67	281.46	7.881	
20,600.00	11,447.82	19,602.97	10,438.27	156.49	155.46	-63.22	9,076.28	-1,806.84	2,218.14	1,933.80	284.34	7.801	
20,700.00	11,447.36	19,702.97	10,437.78	158.09	157.06	-63.22	9,176.28	-1,807.51	2,218.15	1,930.93	287.22	7.723	
20,800.00	11,446.90	19,802.97	10,437.28	159.70	158.67	-63.21	9,276.27	-1,808.18	2,218.17	1,928.06	290.10	7.646	
20,900.00	11,446.44	19,902.97	10,436.79	161.30	160.29	-63.21	9,376.27	-1,808.85	2,218.18	1,925.19	292.99	7.571	
21,000.00	11,445.98	20,002.97	10,436.29	162.90	161.90	-63.21	9,476.26	-1,809.53	2,218.20	1,922.32	295.88	7.497	
21,100.00	11,445.52	20,102.97	10,435.80	164.51	163.51	-63.21	9,576.26	-1,810.20	2,218.21	1,919.45	298.77	7.425	
21,200.00	11,445.06	20,202.97	10,435.31	166.11	165.12	-63.21	9,676.26	-1,810.87	2,218.23	1,916.57	301.65	7.354	
21,300.00	11,444.60	20,302.97	10,434.82	167.72	166.74	-63.21	9,776.25	-1,811.54	2,218.24	1,913.70	304.54	7.284	
21,400.00	11,444.14	20,402.97	10,434.32	169.33	168.35	-63.21	9,876.25	-1,812.21	2,218.25	1,910.82	307.44	7.215	
21,500.00	11,443.67	20,502.97	10,433.83	170.94	169.97	-63.21	9,976.24	-1,812.88	2,218.27	1,907.94	310.33	7.148	
21,600.00	11,443.21	20,602.97	10,433.34	172.55	171.59	-63.21	10,076.24	-1,813.56	2,218.28	1,905.06	313.22	7.082	
21,700.00	11,442.75	20,702.97	10,432.84	174.16	173.20	-63.21	10,176.24	-1,814.23	2,218.30	1,902.18	316.11	7.017	
21,800.00	11,442.29	20,802.97	10,432.35	175.77	174.82	-63.21	10,276.23	-1,814.90	2,218.31	1,899.31	319.00	6.954	
21,862.35	11,442.00	20,865.31	10,432.05	176.77	175.83	-63.21	10,338.58	-1,815.32	2,218.32	1,897.51	320.81	6.915 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-90.31	-6.89	-1,259.06	1,259.11				
100.00	100.00	90.00	90.00	0.13	0.12	-90.31	-6.89	-1,259.06	1,259.07	1,258.82	0.26	4,929.595	
200.00	200.00	190.00	190.00	0.49	0.46	-90.31	-6.89	-1,259.06	1,259.07	1,258.12	0.95	1,325.411	
300.00	300.00	290.00	290.00	0.85	0.82	-90.31	-6.89	-1,259.06	1,259.07	1,257.41	1.67	755.342	
400.00	400.00	390.00	390.00	1.21	1.17	-90.31	-6.89	-1,259.06	1,259.07	1,256.69	2.38	528.172	
500.00	500.00	490.00	490.00	1.57	1.53	-90.31	-6.89	-1,259.06	1,259.07	1,255.97	3.10	406.051	
600.00	600.00	590.00	590.00	1.93	1.89	-90.31	-6.89	-1,259.06	1,259.07	1,255.26	3.82	329.797	
700.00	700.00	690.00	690.00	2.29	2.25	-90.31	-6.89	-1,259.06	1,259.07	1,254.54	4.53	277.655	
800.00	800.00	790.00	790.00	2.64	2.61	-90.31	-6.89	-1,259.06	1,259.07	1,253.82	5.25	239.750	
900.00	900.00	890.00	890.00	3.00	2.97	-90.31	-6.89	-1,259.06	1,259.07	1,253.11	5.97	210.951	
1,000.00	1,000.00	990.00	990.00	3.36	3.32	-90.31	-6.89	-1,259.06	1,259.07	1,252.39	6.69	188.329	
1,100.00	1,100.00	1,090.00	1,090.00	3.72	3.68	-90.31	-6.89	-1,259.06	1,259.07	1,251.67	7.40	170.089	
1,200.00	1,200.00	1,190.00	1,190.00	4.08	4.04	-90.31	-6.89	-1,259.06	1,259.07	1,250.96	8.12	155.070	
1,300.00	1,300.00	1,290.00	1,290.00	4.44	4.40	-90.31	-6.89	-1,259.06	1,259.07	1,250.24	8.84	142.488	
1,400.00	1,400.00	1,390.00	1,390.00	4.79	4.76	-90.31	-6.89	-1,259.06	1,259.07	1,249.52	9.55	131.795	
1,500.00	1,500.00	1,490.00	1,490.00	5.15	5.12	-90.31	-6.89	-1,259.06	1,259.07	1,248.80	10.27	122.595	
1,600.00	1,600.00	1,590.00	1,590.00	5.51	5.48	-90.31	-6.89	-1,259.06	1,259.07	1,248.09	10.99	114.595	
1,700.00	1,700.00	1,690.00	1,690.00	5.87	5.83	-90.31	-6.89	-1,259.06	1,259.07	1,247.37	11.70	107.576	
1,800.00	1,800.00	1,790.00	1,790.00	6.23	6.19	-90.31	-6.89	-1,259.06	1,259.07	1,246.65	12.42	101.366	
1,900.00	1,900.00	1,890.00	1,890.00	6.59	6.55	-90.31	-6.89	-1,259.06	1,259.07	1,245.94	13.14	95.835	
2,000.00	2,000.00	1,990.00	1,990.00	6.95	6.91	-90.31	-6.89	-1,259.06	1,259.07	1,245.22	13.85	90.876	
2,100.00	2,099.98	2,140.81	2,140.76	7.29	7.43	134.91	-8.85	-1,256.20	1,258.49	1,243.79	14.70	85.593	
2,200.00	2,199.84	2,297.09	2,296.56	7.62	7.95	134.90	-15.61	-1,246.37	1,255.91	1,240.39	15.52	80.935	
2,300.00	2,299.45	2,452.95	2,451.07	7.95	8.49	134.88	-27.12	-1,229.60	1,251.32	1,235.01	16.31	76.698	
2,400.00	2,398.70	2,608.16	2,603.60	8.30	9.06	134.83	-43.30	-1,206.04	1,244.75	1,227.66	17.10	72.801	
2,500.00	2,497.47	2,705.06	2,698.39	8.65	9.42	134.88	-54.70	-1,189.45	1,238.67	1,220.88	17.79	69.634	
2,600.00	2,595.62	2,804.98	2,796.12	9.01	9.81	135.01	-66.46	-1,172.32	1,235.04	1,216.54	18.50	66.770	
2,700.00	2,693.44	2,904.91	2,893.87	9.39	10.21	135.14	-78.23	-1,155.20	1,232.64	1,213.42	19.22	64.135	
2,800.00	2,791.25	3,004.84	2,991.61	9.77	10.62	135.27	-89.99	-1,138.07	1,230.26	1,210.30	19.95	61.655	
2,900.00	2,889.07	3,104.77	3,089.36	10.17	11.04	135.41	-101.75	-1,120.95	1,227.88	1,207.18	20.70	59.321	
3,000.00	2,886.88	3,204.70	3,187.11	10.57	11.46	135.54	-113.52	-1,103.82	1,225.50	1,204.05	21.45	57.126	
3,100.00	3,084.70	3,304.63	3,284.85	10.99	11.88	135.68	-125.28	-1,086.69	1,223.14	1,200.92	22.21	55.060	
3,200.00	3,182.51	3,404.56	3,382.60	11.41	12.31	135.81	-137.04	-1,069.57	1,220.78	1,197.79	22.98	53.115	
3,300.00	3,280.33	3,504.49	3,480.35	11.83	12.75	135.95	-148.81	-1,052.44	1,218.42	1,194.67	23.76	51.283	
3,400.00	3,378.14	3,604.42	3,578.09	12.26	13.19	136.09	-160.57	-1,035.31	1,216.08	1,191.54	24.54	49.555	
3,500.00	3,475.96	3,704.35	3,675.84	12.69	13.63	136.22	-172.33	-1,018.19	1,213.74	1,188.41	25.33	47.925	
3,600.00	3,573.77	3,804.28	3,773.59	13.13	14.08	136.36	-184.09	-1,001.06	1,211.40	1,185.29	26.12	46.385	
3,700.00	3,671.97	3,904.19	3,871.31	13.57	14.53	136.38	-195.85	-983.94	1,207.64	1,180.73	26.91	44.883	
3,800.00	3,770.78	4,000.00	3,965.05	13.98	14.97	136.26	-207.09	-967.58	1,201.43	1,173.75	27.68	43.397	
3,900.00	3,870.05	4,071.47	4,035.24	14.38	15.28	136.08	-214.72	-956.48	1,194.24	1,165.84	28.40	42.056	
4,000.00	3,969.69	4,145.54	4,108.30	14.75	15.60	135.86	-221.57	-946.49	1,186.70	1,157.61	29.09	40.796	
4,100.00	4,069.56	4,219.72	4,181.77	15.11	15.90	135.60	-227.37	-938.06	1,178.81	1,149.05	29.76	39.617	
4,200.00	4,169.54	4,300.00	4,261.55	15.44	16.22	-89.94	-232.42	-930.71	1,170.62	1,140.20	30.41	38.489	
4,300.00	4,269.54	4,368.59	4,329.89	15.77	16.48	-90.10	-235.73	-925.88	1,163.47	1,132.46	31.01	37.522	
4,400.00	4,369.54	4,443.44	4,404.60	16.10	16.75	-90.23	-238.29	-922.16	1,158.50	1,126.90	31.61	36.655	
4,500.00	4,469.54	4,518.48	4,479.59	16.43	17.01	-90.30	-239.74	-920.04	1,155.69	1,123.51	32.19	35.908	
4,600.00	4,569.54	4,598.43	4,559.54	16.76	17.27	-90.32	-240.10	-919.52	1,154.99	1,122.23	32.77	35.250	
4,700.00	4,669.54	4,698.43	4,659.54	17.09	17.59	-90.32	-240.10	-919.52	1,154.99	1,121.55	33.44	34.541	
4,800.00	4,769.54	4,798.43	4,759.54	17.43	17.92	-90.32	-240.10	-919.52	1,154.99	1,120.88	34.11	33.858	
4,900.00	4,869.54	4,898.43	4,859.54	17.76	18.24	-90.32	-240.10	-919.52	1,154.99	1,120.20	34.79	33.200	
5,000.00	4,969.54	4,998.43	4,959.54	18.10	18.57	-90.32	-240.10	-919.52	1,154.99	1,119.53	35.47	32.566	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #2											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
Depth	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
5,100.00	5,069.54	5,098.43	5,059.54	18.43	18.89	-90.32	-240.10	-919.52	1,154.99	1,118.85	36.15	31.954
5,200.00	5,169.54	5,198.43	5,159.54	18.77	19.22	-90.32	-240.10	-919.52	1,154.99	1,118.17	36.83	31.364
5,300.00	5,269.54	5,298.43	5,259.54	19.11	19.55	-90.32	-240.10	-919.52	1,154.99	1,117.49	37.51	30.793
5,400.00	5,369.54	5,398.43	5,359.54	19.45	19.88	-90.32	-240.10	-919.52	1,154.99	1,116.80	38.19	30.242
5,500.00	5,469.54	5,498.43	5,459.54	19.79	20.21	-90.32	-240.10	-919.52	1,154.99	1,116.12	38.88	29.710
5,600.00	5,569.54	5,598.43	5,559.54	20.13	20.54	-90.32	-240.10	-919.52	1,154.99	1,115.43	39.56	29.195
5,700.00	5,669.54	5,698.43	5,659.54	20.47	20.88	-90.32	-240.10	-919.52	1,154.99	1,114.75	40.25	28.697
5,800.00	5,769.54	5,798.43	5,759.54	20.81	21.21	-90.32	-240.10	-919.52	1,154.99	1,114.06	40.94	28.215
5,900.00	5,869.54	5,898.43	5,859.54	21.15	21.55	-90.32	-240.10	-919.52	1,154.99	1,113.37	41.62	27.748
6,000.00	5,969.54	5,998.43	5,959.54	21.49	21.88	-90.32	-240.10	-919.52	1,154.99	1,112.68	42.31	27.296
6,100.00	6,069.54	6,098.43	6,059.54	21.83	22.22	-90.32	-240.10	-919.52	1,154.99	1,111.99	43.00	26.858
6,200.00	6,169.54	6,198.43	6,159.54	22.18	22.55	-90.32	-240.10	-919.52	1,154.99	1,111.30	43.70	26.433
6,300.00	6,269.54	6,298.43	6,259.54	22.52	22.89	-90.32	-240.10	-919.52	1,154.99	1,110.61	44.39	26.020
6,400.00	6,369.54	6,398.43	6,359.54	22.87	23.23	-90.32	-240.10	-919.52	1,154.99	1,109.91	45.08	25.620
6,500.00	6,469.54	6,498.43	6,459.54	23.21	23.57	-90.32	-240.10	-919.52	1,154.99	1,109.22	45.77	25.232
6,600.00	6,569.54	6,598.43	6,559.54	23.56	23.91	-90.32	-240.10	-919.52	1,154.99	1,108.52	46.47	24.855
6,700.00	6,669.54	6,698.43	6,659.54	23.90	24.25	-90.32	-240.10	-919.52	1,154.99	1,107.83	47.16	24.489
6,800.00	6,769.54	6,798.43	6,759.54	24.25	24.59	-90.32	-240.10	-919.52	1,154.99	1,107.13	47.86	24.133
6,900.00	6,869.54	6,898.43	6,859.54	24.59	24.93	-90.32	-240.10	-919.52	1,154.99	1,106.44	48.56	23.787
7,000.00	6,969.54	6,998.43	6,959.54	24.94	25.27	-90.32	-240.10	-919.52	1,154.99	1,105.74	49.25	23.450
7,100.00	7,069.54	7,098.43	7,059.54	25.29	25.61	-90.32	-240.10	-919.52	1,154.99	1,105.04	49.95	23.123
7,200.00	7,169.54	7,198.43	7,159.54	25.63	25.95	-90.32	-240.10	-919.52	1,154.99	1,104.34	50.65	22.804
7,300.00	7,269.54	7,298.43	7,259.54	25.98	26.30	-90.32	-240.10	-919.52	1,154.99	1,103.65	51.35	22.494
7,400.00	7,369.54	7,398.43	7,359.54	26.33	26.64	-90.32	-240.10	-919.52	1,154.99	1,102.95	52.05	22.192
7,500.00	7,469.54	7,498.43	7,459.54	26.68	26.98	-90.32	-240.10	-919.52	1,154.99	1,102.25	52.75	21.897
7,600.00	7,569.54	7,598.43	7,559.54	27.03	27.33	-90.32	-240.10	-919.52	1,154.99	1,101.55	53.45	21.611
7,700.00	7,669.54	7,698.43	7,659.54	27.37	27.67	-90.32	-240.10	-919.52	1,154.99	1,100.85	54.15	21.331
7,800.00	7,769.54	7,798.43	7,759.54	27.72	28.01	-90.32	-240.10	-919.52	1,154.99	1,100.15	54.85	21.058
7,900.00	7,869.54	7,898.43	7,859.54	28.07	28.36	-90.32	-240.10	-919.52	1,154.99	1,099.45	55.55	20.793
8,000.00	7,969.54	7,998.43	7,959.54	28.42	28.70	-90.32	-240.10	-919.52	1,154.99	1,098.74	56.25	20.533
8,100.00	8,069.54	8,098.43	8,059.54	28.77	29.05	-90.32	-240.10	-919.52	1,154.99	1,098.04	56.95	20.280
8,200.00	8,169.54	8,198.43	8,159.54	29.12	29.40	-90.32	-240.10	-919.52	1,154.99	1,097.34	57.65	20.033
8,300.00	8,269.54	8,298.43	8,259.54	29.47	29.74	-90.32	-240.10	-919.52	1,154.99	1,096.64	58.36	19.792
8,400.00	8,369.54	8,398.43	8,359.54	29.82	30.09	-90.32	-240.10	-919.52	1,154.99	1,095.93	59.06	19.556
8,500.00	8,469.54	8,498.43	8,459.54	30.17	30.44	-90.32	-240.10	-919.52	1,154.99	1,095.23	59.76	19.326
8,600.00	8,569.54	8,598.43	8,559.54	30.52	30.78	-90.32	-240.10	-919.52	1,154.99	1,094.53	60.47	19.101
8,700.00	8,669.54	8,698.43	8,659.54	30.87	31.13	-90.32	-240.10	-919.52	1,154.99	1,093.82	61.17	18.881
8,800.00	8,769.54	8,798.43	8,759.54	31.22	31.48	-90.32	-240.10	-919.52	1,154.99	1,093.12	61.88	18.666
8,900.00	8,869.54	8,898.43	8,859.54	31.57	31.82	-90.32	-240.10	-919.52	1,154.99	1,092.41	62.58	18.456
9,000.00	8,969.54	8,998.43	8,959.54	31.93	32.17	-90.32	-240.10	-919.52	1,154.99	1,091.71	63.29	18.251
9,100.00	9,069.54	9,098.43	9,059.54	32.28	32.52	-90.32	-240.10	-919.52	1,154.99	1,091.00	63.99	18.049
9,200.00	9,169.54	9,198.43	9,159.54	32.63	32.87	-90.32	-240.10	-919.52	1,154.99	1,090.30	64.70	17.853
9,300.00	9,269.54	9,298.43	9,259.54	32.98	33.22	-90.32	-240.10	-919.52	1,154.99	1,089.59	65.40	17.660
9,400.00	9,369.54	9,398.43	9,359.54	33.33	33.57	-90.32	-240.10	-919.52	1,154.99	1,088.89	66.11	17.471
9,500.00	9,469.54	9,498.43	9,459.54	33.68	33.92	-90.32	-240.10	-919.52	1,154.99	1,088.18	66.81	17.287
9,600.00	9,569.54	9,598.43	9,559.54	34.04	34.27	-90.32	-240.10	-919.52	1,154.99	1,087.47	67.52	17.106
9,700.00	9,669.54	9,698.43	9,659.54	34.39	34.62	-90.32	-240.10	-919.52	1,154.99	1,086.77	68.23	16.929
9,800.00	9,769.54	9,798.43	9,759.54	34.74	34.96	-90.32	-240.10	-919.52	1,154.99	1,086.06	68.93	16.755
9,805.64	9,775.18	9,804.07	9,765.18	34.76	34.98	-90.32	-240.10	-919.52	1,154.99	1,086.02	68.97	16.745 CC
9,900.00	9,869.54	9,898.08	9,859.08	35.09	35.31	-90.16	-236.95	-919.54	1,155.00	1,085.37	69.63	16.588
10,000.00	9,969.54	9,994.11	9,953.29	35.45	35.61	-89.27	-218.95	-919.66	1,155.23	1,084.96	70.27	16.441 ES

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	10,069.54	10,081.97	10,035.77	35.80	35.86	-87.78	-188.91	-919.86	1,156.43	1,085.61	70.81	16.331	
10,200.00	10,169.54	10,159.16	10,103.71	36.15	36.05	-85.98	-152.39	-920.10	1,159.76	1,088.51	71.24	16.279	
10,300.00	10,269.54	10,225.24	10,157.52	36.51	36.19	-84.10	-114.11	-920.35	1,166.45	1,094.92	71.53	16.308	
10,400.00	10,369.54	10,281.03	10,199.28	36.86	36.28	-82.29	-77.14	-920.60	1,177.56	1,105.94	71.61	16.443	
10,500.00	10,469.54	10,327.93	10,231.46	37.21	36.35	-80.64	-43.04	-920.82	1,193.88	1,122.40	71.48	16.702	
10,600.00	10,569.54	10,367.41	10,256.31	37.57	36.40	-79.17	-12.38	-921.03	1,215.88	1,144.77	71.12	17.097	
10,700.00	10,669.54	10,400.00	10,275.20	37.92	36.43	-77.91	14.17	-921.20	1,243.79	1,173.26	70.52	17.636	
10,800.00	10,769.54	10,429.23	10,290.83	38.27	36.46	-76.74	38.87	-921.37	1,277.58	1,207.82	69.76	18.314	
10,900.00	10,869.54	10,450.00	10,301.16	38.63	36.48	-75.90	56.89	-921.49	1,317.09	1,248.29	68.80	19.144	
11,000.00	10,969.45	10,475.74	10,313.05	38.98	36.49	-71.82	79.71	-921.64	1,361.32	1,293.50	67.82	20.073	
11,100.00	11,067.64	10,500.00	10,323.30	39.30	36.51	-66.30	101.70	-921.78	1,406.05	1,339.28	66.77	21.059	
11,200.00	11,161.16	10,528.26	10,334.06	39.59	36.52	-61.20	127.82	-921.96	1,449.03	1,383.28	65.75	22.038	
11,300.00	11,247.17	10,550.00	10,341.45	39.83	36.53	-56.97	148.27	-922.09	1,488.72	1,424.01	64.71	23.004	
11,400.00	11,323.06	10,600.00	10,355.48	40.03	36.61	-53.02	196.24	-922.41	1,523.69	1,459.66	64.03	23.795	
11,500.00	11,386.52	10,621.40	10,360.19	40.18	36.67	-50.37	217.12	-922.55	1,552.70	1,489.45	63.25	24.549	
11,600.00	11,435.62	10,650.00	10,365.26	40.33	36.74	-48.34	245.26	-922.73	1,575.15	1,512.42	62.73	25.110	
11,700.00	11,468.88	10,700.00	10,370.74	40.54	36.89	-46.92	294.94	-923.06	1,590.39	1,527.85	62.54	25.430	
11,800.00	11,485.28	10,722.32	10,371.79	40.77	36.95	-46.33	317.24	-923.21	1,597.69	1,535.20	62.49	25.567	
11,900.00	11,486.77	10,790.09	10,371.90	41.03	37.16	-46.27	385.00	-923.66	1,598.36	1,535.56	62.80	25.453	
12,000.00	11,486.33	10,890.09	10,371.71	41.36	37.53	-46.28	485.00	-924.32	1,598.19	1,534.91	63.28	25.255	
12,100.00	11,485.90	10,990.09	10,371.51	41.74	37.96	-46.28	584.99	-924.99	1,598.02	1,534.15	63.87	25.020	
12,200.00	11,485.46	11,090.08	10,371.32	42.19	38.46	-46.29	684.99	-925.65	1,597.85	1,533.29	64.56	24.750	
12,300.00	11,485.02	11,190.08	10,371.13	42.70	39.01	-46.30	784.98	-926.32	1,597.68	1,532.34	65.34	24.451	
12,400.00	11,484.59	11,290.08	10,370.94	43.26	39.63	-46.30	884.98	-926.98	1,597.51	1,531.29	66.22	24.124	
12,500.00	11,484.15	11,390.07	10,370.74	43.88	40.31	-46.31	984.97	-927.64	1,597.35	1,530.16	67.19	23.774	
12,600.00	11,483.71	11,490.07	10,370.55	44.55	41.03	-46.31	1,084.97	-928.31	1,597.18	1,528.93	68.24	23.404	
12,700.00	11,483.27	11,590.07	10,370.36	45.27	41.82	-46.32	1,184.96	-928.97	1,597.01	1,527.63	69.38	23.019	
12,800.00	11,482.83	11,690.07	10,370.16	46.04	42.65	-46.33	1,284.96	-929.63	1,596.84	1,526.25	70.59	22.621	
12,900.00	11,482.39	11,790.06	10,369.97	46.85	43.52	-46.33	1,384.95	-930.30	1,596.67	1,524.79	71.87	22.215	
13,000.00	11,481.95	11,890.06	10,369.78	47.71	44.44	-46.34	1,484.94	-930.96	1,596.50	1,523.27	73.23	21.802	
13,100.00	11,481.52	11,990.06	10,369.58	48.61	45.41	-46.35	1,584.94	-931.63	1,596.33	1,521.68	74.65	21.385	
13,200.00	11,481.08	12,090.05	10,369.39	49.55	46.41	-46.35	1,684.93	-932.29	1,596.16	1,520.03	76.13	20.967	
13,300.00	11,480.64	12,190.05	10,369.20	50.52	47.45	-46.36	1,784.93	-932.95	1,595.99	1,518.32	77.67	20.549	
13,400.00	11,480.20	12,290.05	10,369.00	51.53	48.52	-46.37	1,884.92	-933.62	1,595.82	1,516.56	79.26	20.134	
13,500.00	11,479.75	12,390.04	10,368.81	52.57	49.62	-46.37	1,984.92	-934.28	1,595.65	1,514.74	80.91	19.722	
13,600.00	11,479.31	12,490.04	10,368.61	53.65	50.76	-46.38	2,084.91	-934.95	1,595.48	1,512.88	82.60	19.316	
13,700.00	11,478.87	12,590.04	10,368.42	54.75	51.92	-46.39	2,184.91	-935.61	1,595.31	1,510.97	84.33	18.916	
13,800.00	11,478.43	12,690.04	10,368.22	55.88	53.11	-46.39	2,284.90	-936.28	1,595.14	1,509.02	86.11	18.523	
13,900.00	11,477.99	12,790.03	10,368.03	57.03	54.32	-46.40	2,384.90	-936.94	1,594.97	1,507.03	87.94	18.138	
14,000.00	11,477.55	12,890.03	10,367.83	58.21	55.55	-46.40	2,484.89	-937.61	1,594.80	1,505.01	89.79	17.761	
14,100.00	11,477.11	12,990.03	10,367.64	59.41	56.81	-46.41	2,584.89	-938.27	1,594.63	1,502.94	91.68	17.393	
14,200.00	11,476.66	13,090.02	10,367.44	60.64	58.09	-46.42	2,684.88	-938.94	1,594.46	1,500.85	93.61	17.034	
14,300.00	11,476.22	13,190.02	10,367.25	61.88	59.38	-46.42	2,784.88	-939.60	1,594.29	1,498.73	95.56	16.684	
14,400.00	11,475.78	13,290.02	10,367.05	63.14	60.69	-46.43	2,884.87	-940.27	1,594.12	1,496.57	97.54	16.343	
14,500.00	11,475.34	13,390.02	10,366.85	64.42	62.02	-46.44	2,984.87	-940.93	1,593.95	1,494.39	99.55	16.011	
14,600.00	11,474.89	13,490.01	10,366.66	65.72	63.37	-46.44	3,084.86	-941.60	1,593.78	1,492.19	101.59	15.689	
14,700.00	11,474.45	13,590.01	10,366.46	67.03	64.73	-46.45	3,184.85	-942.26	1,593.60	1,489.96	103.64	15.376	
14,800.00	11,474.00	13,690.01	10,366.27	68.36	66.10	-46.46	3,284.85	-942.93	1,593.43	1,487.71	105.72	15.072	
14,900.00	11,473.56	13,790.00	10,366.07	69.70	67.49	-46.46	3,384.84	-943.60	1,593.26	1,485.44	107.82	14.777	
15,000.00	11,473.12	13,890.00	10,365.87	71.06	68.88	-46.47	3,484.84	-944.26	1,593.09	1,483.15	109.94	14.490	
15,100.00	11,472.67	13,990.00	10,365.68	72.43	70.29	-46.48	3,584.83	-944.93	1,592.92	1,480.84	112.08	14.212	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error:		0.00 usft	
Measured	Reference	Measured	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
15,200.00	11,472.23	14,090.00	10,365.48	73.81	71.71	-46.48	3,684.83	-945.59	1,592.75	1,478.51	114.24	13.943		
15,300.00	11,471.78	14,189.99	10,365.28	75.20	73.14	-46.49	3,784.82	-946.26	1,592.58	1,476.17	116.41	13.681		
15,400.00	11,471.34	14,289.99	10,365.08	76.60	74.58	-46.49	3,884.82	-946.92	1,592.41	1,473.82	118.59	13.428		
15,500.00	11,470.89	14,389.99	10,364.89	78.01	76.02	-46.50	3,984.81	-947.59	1,592.24	1,471.45	120.79	13.182		
15,600.00	11,470.44	14,489.98	10,364.69	79.43	77.48	-46.51	4,084.81	-948.26	1,592.07	1,469.06	123.00	12.943		
15,700.00	11,470.00	14,589.98	10,364.49	80.86	78.94	-46.51	4,184.80	-948.92	1,591.89	1,466.67	125.23	12.712		
15,800.00	11,469.55	14,689.98	10,364.29	82.30	80.42	-46.52	4,284.80	-949.59	1,591.72	1,464.26	127.47	12.487		
15,900.00	11,469.10	14,789.97	10,364.09	83.74	81.89	-46.53	4,384.79	-950.26	1,591.55	1,461.84	129.72	12.270		
16,000.00	11,468.66	14,889.97	10,363.90	85.20	83.38	-46.53	4,484.79	-950.92	1,591.38	1,459.41	131.97	12.058		
16,100.00	11,468.21	14,989.97	10,363.70	86.66	84.87	-46.54	4,584.78	-951.59	1,591.21	1,456.97	134.24	11.853		
16,200.00	11,467.76	15,089.97	10,363.50	88.13	86.37	-46.55	4,684.77	-952.26	1,591.04	1,454.52	136.52	11.654		
16,300.00	11,467.32	15,189.96	10,363.30	89.60	87.87	-46.55	4,784.77	-952.92	1,590.87	1,452.06	138.81	11.461		
16,400.00	11,466.87	15,289.96	10,363.10	91.08	89.38	-46.56	4,884.76	-953.59	1,590.69	1,449.59	141.10	11.273		
16,500.00	11,466.42	15,389.96	10,362.90	92.57	90.89	-46.57	4,984.76	-954.26	1,590.52	1,447.12	143.40	11.091		
16,600.00	11,465.97	15,489.95	10,362.70	94.06	92.41	-46.57	5,084.75	-954.92	1,590.35	1,444.64	145.71	10.914		
16,700.00	11,465.52	15,589.95	10,362.50	95.56	93.93	-46.58	5,184.75	-955.59	1,590.18	1,442.15	148.03	10.742		
16,800.00	11,465.07	15,689.95	10,362.31	97.06	95.46	-46.59	5,284.74	-956.26	1,590.01	1,439.66	150.35	10.575		
16,900.00	11,464.62	15,789.95	10,362.11	98.57	96.99	-46.59	5,384.74	-956.92	1,589.83	1,437.15	152.68	10.413		
17,000.00	11,464.17	15,889.94	10,361.91	100.08	98.53	-46.60	5,484.73	-957.59	1,589.66	1,434.65	155.02	10.255		
17,100.00	11,463.72	15,989.94	10,361.71	101.60	100.07	-46.60	5,584.73	-958.26	1,589.49	1,432.14	157.35	10.101		
17,200.00	11,463.27	16,089.94	10,361.51	103.12	101.61	-46.61	5,684.72	-958.93	1,589.32	1,429.62	159.70	9.952		
17,300.00	11,462.82	16,189.93	10,361.31	104.65	103.16	-46.62	5,784.72	-959.59	1,589.15	1,427.09	162.05	9.806		
17,400.00	11,462.37	16,289.93	10,361.11	106.18	104.71	-46.62	5,884.71	-960.26	1,588.97	1,424.57	164.40	9.665		
17,500.00	11,461.92	16,389.93	10,360.90	107.71	106.26	-46.63	5,984.71	-960.93	1,588.80	1,422.04	166.76	9.527		
17,600.00	11,461.47	16,489.93	10,360.70	109.25	107.82	-46.64	6,084.70	-961.60	1,588.63	1,419.50	169.13	9.393		
17,700.00	11,461.02	16,589.92	10,360.50	110.79	109.38	-46.64	6,184.69	-962.27	1,588.46	1,416.96	171.49	9.262		
17,800.00	11,460.57	16,689.92	10,360.30	112.33	110.94	-46.65	6,284.69	-962.93	1,588.28	1,414.42	173.87	9.135		
17,900.00	11,460.12	16,789.92	10,360.10	113.88	112.50	-46.66	6,384.68	-963.60	1,588.11	1,411.87	176.24	9.011		
18,000.00	11,459.66	16,889.91	10,359.90	115.43	114.07	-46.66	6,484.68	-964.27	1,587.94	1,409.32	178.62	8.890		
18,100.00	11,459.21	16,989.91	10,359.70	116.98	115.64	-46.67	6,584.67	-964.94	1,587.76	1,406.77	181.00	8.772		
18,200.00	11,458.76	17,089.91	10,359.50	118.54	117.21	-46.68	6,684.67	-965.61	1,587.59	1,404.21	183.38	8.657		
18,300.00	11,458.31	17,189.91	10,359.30	120.09	118.79	-46.68	6,784.66	-966.28	1,587.42	1,401.66	185.76	8.545		
18,400.00	11,457.85	17,289.90	10,359.09	121.66	120.36	-46.69	6,884.66	-966.94	1,587.25	1,399.09	188.15	8.436		
18,500.00	11,457.40	17,389.90	10,358.89	123.22	121.94	-46.70	6,984.65	-967.61	1,587.07	1,396.53	190.54	8.329		
18,600.00	11,456.95	17,489.90	10,358.69	124.78	123.52	-46.70	7,084.65	-968.28	1,586.90	1,393.96	192.94	8.225		
18,700.00	11,456.49	17,589.89	10,358.49	126.35	125.11	-46.71	7,184.64	-968.95	1,586.73	1,391.40	195.33	8.123		
18,800.00	11,456.04	17,689.89	10,358.28	127.92	126.69	-46.72	7,284.64	-969.62	1,586.55	1,388.83	197.73	8.024		
18,900.00	11,455.58	17,789.89	10,358.08	129.50	128.28	-46.72	7,384.63	-970.29	1,586.38	1,386.25	200.13	7.927		
19,000.00	11,455.13	17,889.88	10,357.88	131.07	129.87	-46.73	7,484.63	-970.96	1,586.21	1,383.68	202.52	7.832		
19,100.00	11,454.67	17,989.88	10,357.68	132.65	131.46	-46.74	7,584.62	-971.63	1,586.03	1,381.11	204.93	7.740		
19,200.00	11,454.22	18,089.88	10,357.47	134.22	133.05	-46.74	7,684.61	-972.29	1,585.86	1,378.53	207.33	7.649		
19,300.00	11,453.76	18,189.88	10,357.27	135.80	134.64	-46.75	7,784.61	-972.96	1,585.69	1,375.95	209.73	7.560		
19,400.00	11,453.31	18,289.87	10,357.07	137.39	136.23	-46.76	7,884.60	-973.63	1,585.51	1,373.37	212.14	7.474		
19,500.00	11,452.85	18,389.87	10,356.86	138.97	137.83	-46.76	7,984.60	-974.30	1,585.34	1,370.79	214.54	7.389		
19,600.00	11,452.39	18,489.87	10,356.66	140.56	139.43	-46.77	8,084.59	-974.97	1,585.17	1,368.21	216.95	7.306		
19,700.00	11,451.94	18,589.86	10,356.46	142.14	141.03	-46.78	8,184.59	-975.64	1,584.99	1,365.63	219.36	7.225		
19,800.00	11,451.48	18,689.86	10,356.25	143.73	142.63	-46.78	8,284.58	-976.31	1,584.82	1,363.05	221.77	7.146		
19,900.00	11,451.02	18,789.86	10,356.05	145.32	144.23	-46.79	8,384.58	-976.98	1,584.64	1,360.46	224.18	7.069		
20,000.00	11,450.57	18,889.86	10,355.84	146.91	145.83	-46.80	8,484.57	-977.65	1,584.47	1,357.88	226.59	6.993		
20,100.00	11,450.11	18,989.85	10,355.64	148.51	147.44	-46.80	8,584.57	-978.32	1,584.30	1,355.29	229.00	6.918		
20,200.00	11,449.65	19,089.85	10,355.43	150.10	149.04	-46.81	8,684.56	-978.99	1,584.12	1,352.70	231.42	6.845		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #2											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)		
									Minimum Separation (usft)	Separation Factor		
20,300.00	11,449.19	19,189.85	10,355.23	151.70	150.65	-46.82	8,784.56	-979.66	1,583.95	1,350.12	233.83	6.774
20,400.00	11,448.73	19,289.84	10,355.02	153.29	152.25	-46.82	8,884.55	-980.33	1,583.77	1,347.53	236.24	6.704
20,500.00	11,448.27	19,389.84	10,354.82	154.89	153.86	-46.83	8,984.54	-981.00	1,583.60	1,344.94	238.66	6.635
20,600.00	11,447.82	19,489.84	10,354.61	156.49	155.47	-46.84	9,084.54	-981.67	1,583.43	1,342.36	241.07	6.568
20,700.00	11,447.36	19,589.84	10,354.41	158.09	157.08	-46.84	9,184.53	-982.34	1,583.25	1,339.77	243.48	6.502
20,800.00	11,446.90	19,689.83	10,354.20	159.70	158.69	-46.85	9,284.53	-983.01	1,583.08	1,337.18	245.90	6.438
20,900.00	11,446.44	19,789.83	10,354.00	161.30	160.30	-46.86	9,384.52	-983.68	1,582.90	1,334.59	248.32	6.375
21,000.00	11,445.98	19,889.83	10,353.79	162.90	161.92	-46.86	9,484.52	-984.35	1,582.73	1,332.00	250.73	6.313
21,100.00	11,445.52	19,989.82	10,353.59	164.51	163.53	-46.87	9,584.51	-985.02	1,582.55	1,329.41	253.14	6.252
21,200.00	11,445.06	20,089.82	10,353.38	166.11	165.15	-46.88	9,684.51	-985.69	1,582.38	1,326.82	255.56	6.192
21,300.00	11,444.60	20,189.82	10,353.17	167.72	166.76	-46.88	9,784.50	-986.36	1,582.20	1,324.23	257.97	6.133
21,400.00	11,444.14	20,289.81	10,352.97	169.33	168.38	-46.89	9,884.50	-987.04	1,582.03	1,321.64	260.39	6.076
21,500.00	11,443.67	20,389.81	10,352.76	170.94	170.00	-46.90	9,984.49	-987.71	1,581.85	1,319.05	262.80	6.019
21,600.00	11,443.21	20,489.81	10,352.55	172.55	171.61	-46.90	10,084.49	-988.38	1,581.68	1,316.46	265.22	5.964
21,700.00	11,442.75	20,589.81	10,352.35	174.16	173.23	-46.91	10,184.48	-989.05	1,581.50	1,313.87	267.63	5.909
21,800.00	11,442.29	20,689.80	10,352.14	175.77	174.85	-46.92	10,284.47	-989.72	1,581.33	1,311.28	270.05	5.856
21,862.35	11,442.00	20,752.15	10,352.01	176.77	175.86	-46.92	10,346.82	-990.14	1,581.22	1,309.67	271.55	5.823 SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-90.23	-0.10	-25.00	25.00				
100.00	100.00	100.00	100.00	0.13	0.13	-90.23	-0.10	-25.00	25.00	24.73	0.27	92.992	
200.00	200.00	200.00	200.00	0.49	0.49	-90.23	-0.10	-25.00	25.00	24.02	0.99	25.361	
300.00	300.00	300.00	300.00	0.85	0.85	-90.23	-0.10	-25.00	25.00	23.30	1.70	14.683	
400.00	400.00	400.00	400.00	1.21	1.21	-90.23	-0.10	-25.00	25.00	22.58	2.42	10.332	
500.00	500.00	500.00	500.00	1.57	1.57	-90.23	-0.10	-25.00	25.00	21.86	3.14	7.971	
600.00	600.00	600.00	600.00	1.93	1.93	-90.23	-0.10	-25.00	25.00	21.15	3.85	6.488	
700.00	700.00	700.00	700.00	2.29	2.29	-90.23	-0.10	-25.00	25.00	20.43	4.57	5.470	
800.00	800.00	800.00	800.00	2.64	2.64	-90.23	-0.10	-25.00	25.00	19.71	5.29	4.728	
900.00	900.00	900.00	900.00	3.00	3.00	-90.23	-0.10	-25.00	25.00	19.00	6.00	4.164	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.23	-0.10	-25.00	25.00	18.28	6.72	3.720	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.23	-0.10	-25.00	25.00	17.56	7.44	3.361	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-90.23	-0.10	-25.00	25.00	16.85	8.16	3.066	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-90.23	-0.10	-25.00	25.00	16.13	8.87	2.818	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.23	-0.10	-25.00	25.00	15.41	9.59	2.607	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-90.23	-0.10	-25.00	25.00	14.70	10.31	2.426	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-90.23	-0.10	-25.00	25.00	13.98	11.02	2.268	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-90.23	-0.10	-25.00	25.00	13.26	11.74	2.130	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-90.23	-0.10	-25.00	25.00	12.54	12.46	2.007	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-90.23	-0.10	-25.00	25.00	11.83	13.17	1.898	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-90.23	-0.10	-25.00	25.00	11.11	13.89	1.800 CC, ES, SF	
2,100.00	2,099.98	2,099.98	2,099.98	7.29	7.30	137.67	-0.10	-25.00	26.26	11.67	14.59	1.800	
2,200.00	2,199.84	2,199.84	2,199.84	7.62	7.66	144.29	-0.10	-25.00	30.34	15.06	15.28	1.986	
2,300.00	2,299.45	2,299.45	2,299.45	7.95	8.02	151.95	-0.10	-25.00	37.76	21.80	15.97	2.365	
2,400.00	2,398.70	2,398.70	2,398.70	8.30	8.37	158.60	-0.10	-25.00	48.87	32.21	16.66	2.933	
2,500.00	2,497.47	2,497.89	2,497.87	8.65	8.71	162.17	-1.70	-25.48	63.37	46.04	17.33	3.656	
2,600.00	2,595.62	2,596.86	2,596.70	9.01	9.03	162.64	-6.58	-26.92	80.62	62.64	17.99	4.482	
2,700.00	2,693.44	2,695.73	2,695.21	9.39	9.36	161.35	-14.72	-29.33	98.88	80.23	18.65	5.301	
2,800.00	2,791.25	2,794.58	2,793.34	9.77	9.69	158.78	-26.11	-32.71	116.68	97.36	19.33	6.037	
2,900.00	2,889.07	2,893.18	2,890.75	10.17	10.02	155.43	-40.70	-37.03	134.36	114.34	20.02	6.712	
3,000.00	2,986.88	2,991.29	2,987.11	10.57	10.36	151.60	-58.40	-42.27	152.31	131.59	20.72	7.350	
3,100.00	3,084.70	3,089.02	3,082.70	10.99	10.71	147.93	-77.87	-48.03	170.89	149.44	21.45	7.968	
3,200.00	3,182.51	3,186.75	3,178.29	11.41	11.08	144.97	-97.35	-53.80	190.02	167.83	22.18	8.565	
3,300.00	3,280.33	3,284.47	3,273.88	11.83	11.45	142.56	-116.84	-59.57	209.54	186.61	22.94	9.136	
3,400.00	3,378.14	3,382.20	3,369.47	12.26	11.83	140.56	-136.32	-65.34	229.37	205.67	23.70	9.678	
3,500.00	3,475.96	3,479.93	3,465.06	12.69	12.21	138.88	-155.80	-71.11	249.42	224.95	24.48	10.191	
3,600.00	3,573.77	3,577.65	3,560.65	13.13	12.60	137.46	-175.28	-76.88	269.65	244.39	25.26	10.674	
3,700.00	3,671.97	3,678.14	3,659.29	13.57	13.01	136.52	-193.67	-82.33	288.18	262.11	26.07	11.053	
3,800.00	3,770.78	3,779.61	3,759.51	13.98	13.41	135.85	-208.85	-86.82	303.42	276.55	26.87	11.292	
3,900.00	3,870.05	3,881.87	3,861.01	14.38	13.80	135.39	-220.70	-90.33	315.29	287.63	27.65	11.401	
4,000.00	3,969.69	3,984.71	3,963.48	14.75	14.18	135.09	-229.11	-92.82	323.72	295.30	28.41	11.393	
4,100.00	4,069.56	4,087.95	4,066.59	15.11	14.55	134.95	-234.00	-94.27	328.67	299.52	29.15	11.277	
4,200.00	4,169.54	4,190.92	4,169.54	15.44	14.90	-90.30	-235.35	-94.67	330.14	300.29	29.85	11.061	
4,300.00	4,269.54	4,290.92	4,269.54	15.77	15.24	-90.30	-235.35	-94.67	330.14	299.62	30.52	10.817	
4,400.00	4,369.54	4,390.92	4,369.54	16.10	15.58	-90.30	-235.35	-94.67	330.14	298.94	31.20	10.583	
4,500.00	4,469.54	4,490.92	4,469.54	16.43	15.92	-90.30	-235.35	-94.67	330.14	298.26	31.87	10.358	
4,600.00	4,569.54	4,590.92	4,569.54	16.76	16.26	-90.30	-235.35	-94.67	330.14	297.58	32.55	10.142	
4,700.00	4,669.54	4,690.92	4,669.54	17.09	16.60	-90.30	-235.35	-94.67	330.14	296.90	33.23	9.934	
4,800.00	4,769.54	4,790.92	4,769.54	17.43	16.94	-90.30	-235.35	-94.67	330.14	296.22	33.92	9.734	
4,900.00	4,869.54	4,890.92	4,869.54	17.76	17.28	-90.30	-235.35	-94.67	330.14	295.54	34.60	9.542	
5,000.00	4,969.54	4,990.92	4,969.54	18.10	17.63	-90.30	-235.35	-94.67	330.14	294.85	35.28	9.357	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
5,100.00	5,069.54	5,090.92	5,069.54	18.43	17.97	-90.30	-235.35	-94.67	330.14	294.17	35.97	9.178	
5,200.00	5,169.54	5,190.92	5,169.54	18.77	18.32	-90.30	-235.35	-94.67	330.14	293.48	36.66	9.006	
5,300.00	5,269.54	5,290.92	5,269.54	19.11	18.66	-90.30	-235.35	-94.67	330.14	292.79	37.35	8.840	
5,400.00	5,369.54	5,390.92	5,369.54	19.45	19.01	-90.30	-235.35	-94.67	330.14	292.10	38.04	8.680	
5,500.00	5,469.54	5,490.92	5,469.54	19.79	19.35	-90.30	-235.35	-94.67	330.14	291.41	38.73	8.525	
5,600.00	5,569.54	5,590.92	5,569.54	20.13	19.70	-90.30	-235.35	-94.67	330.14	290.72	39.42	8.375	
5,700.00	5,669.54	5,690.92	5,669.54	20.47	20.05	-90.30	-235.35	-94.67	330.14	290.03	40.11	8.231	
5,800.00	5,769.54	5,790.92	5,769.54	20.81	20.40	-90.30	-235.35	-94.67	330.14	289.33	40.80	8.091	
5,900.00	5,869.54	5,890.92	5,869.54	21.15	20.74	-90.30	-235.35	-94.67	330.14	288.64	41.50	7.956	
6,000.00	5,969.54	5,990.92	5,969.54	21.49	21.09	-90.30	-235.35	-94.67	330.14	287.94	42.19	7.825	
6,100.00	6,069.54	6,090.92	6,069.54	21.83	21.44	-90.30	-235.35	-94.67	330.14	287.25	42.89	7.698	
6,200.00	6,169.54	6,190.92	6,169.54	22.18	21.79	-90.30	-235.35	-94.67	330.14	286.55	43.58	7.575	
6,300.00	6,269.54	6,290.92	6,269.54	22.52	22.14	-90.30	-235.35	-94.67	330.14	285.85	44.28	7.456	
6,400.00	6,369.54	6,390.92	6,369.54	22.87	22.49	-90.30	-235.35	-94.67	330.14	285.16	44.98	7.340	
6,500.00	6,469.54	6,490.92	6,469.54	23.21	22.84	-90.30	-235.35	-94.67	330.14	284.46	45.68	7.228	
6,600.00	6,569.54	6,590.92	6,569.54	23.56	23.19	-90.30	-235.35	-94.67	330.14	283.76	46.38	7.119	
6,700.00	6,669.54	6,690.92	6,669.54	23.90	23.54	-90.30	-235.35	-94.67	330.14	283.06	47.07	7.013	
6,800.00	6,769.54	6,790.92	6,769.54	24.25	23.89	-90.30	-235.35	-94.67	330.14	282.36	47.77	6.910	
6,900.00	6,869.54	6,890.92	6,869.54	24.59	24.24	-90.30	-235.35	-94.67	330.14	281.66	48.47	6.811	
7,000.00	6,969.54	6,990.92	6,969.54	24.94	24.59	-90.30	-235.35	-94.67	330.14	280.96	49.18	6.713	
7,100.00	7,069.54	7,090.92	7,069.54	25.29	24.94	-90.30	-235.35	-94.67	330.14	280.26	49.88	6.619	
7,200.00	7,169.54	7,190.92	7,169.54	25.63	25.29	-90.30	-235.35	-94.67	330.14	279.56	50.58	6.527	
7,300.00	7,269.54	7,290.92	7,269.54	25.98	25.64	-90.30	-235.35	-94.67	330.14	278.86	51.28	6.438	
7,400.00	7,369.54	7,390.92	7,369.54	26.33	26.00	-90.30	-235.35	-94.67	330.14	278.15	51.98	6.351	
7,500.00	7,469.54	7,490.92	7,469.54	26.68	26.35	-90.30	-235.35	-94.67	330.14	277.45	52.69	6.266	
7,600.00	7,569.54	7,590.92	7,569.54	27.03	26.70	-90.30	-235.35	-94.67	330.14	276.75	53.39	6.184	
7,700.00	7,669.54	7,690.92	7,669.54	27.37	27.05	-90.30	-235.35	-94.67	330.14	276.04	54.09	6.103	
7,800.00	7,769.54	7,790.92	7,769.54	27.72	27.40	-90.30	-235.35	-94.67	330.14	275.34	54.80	6.025	
7,900.00	7,869.54	7,890.92	7,869.54	28.07	27.76	-90.30	-235.35	-94.67	330.14	274.64	55.50	5.948	
8,000.00	7,969.54	7,990.92	7,969.54	28.42	28.11	-90.30	-235.35	-94.67	330.14	273.93	56.21	5.874	
8,100.00	8,069.54	8,090.92	8,069.54	28.77	28.46	-90.30	-235.35	-94.67	330.14	273.23	56.91	5.801	
8,200.00	8,169.54	8,190.92	8,169.54	29.12	28.82	-90.30	-235.35	-94.67	330.14	272.52	57.62	5.730	
8,300.00	8,269.54	8,290.92	8,269.54	29.47	29.17	-90.30	-235.35	-94.67	330.14	271.81	58.32	5.661	
8,400.00	8,369.54	8,390.92	8,369.54	29.82	29.52	-90.30	-235.35	-94.67	330.14	271.11	59.03	5.593	
8,500.00	8,469.54	8,490.92	8,469.54	30.17	29.88	-90.30	-235.35	-94.67	330.14	270.40	59.73	5.527	
8,600.00	8,569.54	8,590.92	8,569.54	30.52	30.23	-90.30	-235.35	-94.67	330.14	269.70	60.44	5.462	
8,700.00	8,669.54	8,690.92	8,669.54	30.87	30.58	-90.30	-235.35	-94.67	330.14	268.99	61.15	5.399	
8,800.00	8,769.54	8,790.92	8,769.54	31.22	30.94	-90.30	-235.35	-94.67	330.14	268.28	61.85	5.338	
8,900.00	8,869.54	8,890.92	8,869.54	31.57	31.29	-90.30	-235.35	-94.67	330.14	267.58	62.56	5.277	
9,000.00	8,969.54	8,990.92	8,969.54	31.93	31.64	-90.30	-235.35	-94.67	330.14	266.87	63.27	5.218	
9,100.00	9,069.54	9,090.92	9,069.54	32.28	32.00	-90.30	-235.35	-94.67	330.14	266.16	63.97	5.160	
9,200.00	9,169.54	9,190.92	9,169.54	32.63	32.35	-90.30	-235.35	-94.67	330.14	265.45	64.68	5.104	
9,300.00	9,269.54	9,290.92	9,269.54	32.98	32.71	-90.30	-235.35	-94.67	330.14	264.75	65.39	5.049	
9,400.00	9,369.54	9,390.92	9,369.54	33.33	33.06	-90.30	-235.35	-94.67	330.14	264.04	66.10	4.995	
9,500.00	9,469.54	9,490.92	9,469.54	33.68	33.42	-90.30	-235.35	-94.67	330.14	263.33	66.81	4.942	
9,600.00	9,569.54	9,590.92	9,569.54	34.04	33.77	-90.30	-235.35	-94.67	330.14	262.62	67.51	4.890	
9,700.00	9,669.54	9,690.92	9,669.54	34.39	34.13	-90.30	-235.35	-94.67	330.14	261.91	68.22	4.839	
9,800.00	9,769.54	9,790.92	9,769.54	34.74	34.48	-90.30	-235.35	-94.67	330.14	261.20	68.93	4.789	
9,900.00	9,869.54	9,890.92	9,869.54	35.09	34.83	-90.30	-235.35	-94.67	330.14	260.50	69.64	4.741	
9,910.26	9,879.81	9,901.19	9,879.81	35.13	34.87	-90.30	-235.35	-94.67	330.14	260.42	69.71	4.736	
10,000.00	9,969.54	9,990.90	9,969.51	35.45	35.19	-90.23	-234.98	-94.67	330.14	259.79	70.35	4.693	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
10,100.00	10,069.54	10,089.09	10,066.87	35.80	35.52	-88.17	-223.11	-94.75	330.39	259.38	71.01	4.653
10,200.00	10,169.54	10,180.75	10,154.68	36.15	35.80	-83.70	-197.18	-94.92	332.72	261.19	71.54	4.651
10,300.00	10,269.54	10,262.43	10,228.57	36.51	36.02	-77.86	-162.54	-95.15	340.65	269.00	71.65	4.754
10,400.00	10,369.54	10,332.95	10,287.86	36.86	36.20	-71.73	-124.44	-95.41	357.87	286.93	70.94	5.045
10,500.00	10,469.54	10,392.72	10,334.13	37.21	36.34	-66.06	-86.65	-95.66	386.76	317.55	69.21	5.588
10,600.00	10,569.54	10,450.00	10,374.55	37.57	36.47	-60.49	-46.10	-95.93	427.80	360.73	67.07	6.378
10,700.00	10,669.54	10,485.26	10,397.35	37.92	36.55	-57.11	-19.20	-96.10	479.60	415.59	64.01	7.493
10,800.00	10,769.54	10,520.93	10,418.68	38.27	36.63	-53.78	9.38	-96.29	540.58	479.20	61.39	8.806
10,900.00	10,869.54	10,550.00	10,434.72	38.63	36.70	-51.16	33.61	-96.45	608.83	549.81	59.02	10.315
11,000.00	10,969.45	10,578.23	10,449.10	38.98	36.76	-44.16	57.90	-96.62	681.53	624.43	57.10	11.936
11,100.00	11,067.64	10,600.00	10,459.36	39.30	36.81	-36.61	77.10	-96.74	751.16	696.06	55.10	13.633
11,200.00	11,161.16	10,650.00	10,480.13	39.59	36.93	-30.23	122.57	-97.04	815.00	760.92	54.09	15.068
11,300.00	11,247.17	10,672.70	10,488.23	39.83	36.99	-26.46	143.77	-97.19	871.45	819.09	52.36	16.643
11,400.00	11,323.06	10,700.00	10,496.85	40.03	37.06	-23.66	169.67	-97.36	919.93	868.95	50.98	18.045
11,500.00	11,386.52	10,750.00	10,509.40	40.18	37.18	-21.47	218.05	-97.68	959.36	909.13	50.24	19.096
11,600.00	11,435.62	10,779.61	10,514.82	40.33	37.26	-20.16	247.15	-97.87	989.21	939.82	49.38	20.032
11,700.00	11,468.88	10,816.50	10,519.47	40.54	37.36	-19.32	283.75	-98.11	1,009.16	960.21	48.94	20.619
11,800.00	11,485.28	10,850.00	10,521.64	40.77	37.45	-18.93	317.17	-98.34	1,018.91	970.07	48.84	20.861
11,900.00	11,486.77	10,921.56	10,521.81	41.03	37.66	-18.89	388.72	-98.81	1,019.88	970.78	49.10	20.770
12,000.00	11,486.33	11,021.56	10,521.41	41.36	38.01	-18.89	488.72	-99.47	1,019.85	970.38	49.47	20.617
12,100.00	11,485.90	11,121.56	10,521.00	41.74	38.43	-18.89	588.72	-100.14	1,019.82	969.92	49.89	20.440
12,200.00	11,485.46	11,221.56	10,520.60	42.19	38.92	-18.89	688.71	-100.80	1,019.78	969.40	50.38	20.241
12,300.00	11,485.02	11,321.56	10,520.20	42.70	39.47	-18.89	788.71	-101.46	1,019.75	968.82	50.93	20.024
12,400.00	11,484.59	11,421.56	10,519.80	43.26	40.08	-18.89	888.71	-102.13	1,019.71	968.18	51.53	19.789
12,500.00	11,484.15	11,521.56	10,519.40	43.88	40.74	-18.89	988.70	-102.79	1,019.68	967.49	52.19	19.539
12,600.00	11,483.71	11,621.56	10,519.00	44.55	41.47	-18.89	1,088.70	-103.45	1,019.64	966.75	52.90	19.276
12,700.00	11,483.27	11,721.56	10,518.60	45.27	42.24	-18.89	1,188.70	-104.12	1,019.61	965.95	53.66	19.001
12,800.00	11,482.83	11,821.56	10,518.19	46.04	43.07	-18.89	1,288.69	-104.78	1,019.57	965.10	54.47	18.718
12,900.00	11,482.39	11,921.56	10,517.79	46.85	43.94	-18.89	1,388.69	-105.44	1,019.54	964.21	55.32	18.428
13,000.00	11,481.95	12,021.56	10,517.39	47.71	44.86	-18.89	1,488.69	-106.11	1,019.50	963.28	56.22	18.133
13,100.00	11,481.52	12,121.56	10,516.99	48.61	45.81	-18.89	1,588.69	-106.77	1,019.46	962.30	57.17	17.833
13,200.00	11,481.08	12,221.56	10,516.59	49.55	46.81	-18.90	1,688.68	-107.43	1,019.43	961.28	58.15	17.531
13,300.00	11,480.64	12,321.56	10,516.19	50.52	47.84	-18.90	1,788.68	-108.10	1,019.39	960.22	59.17	17.229
13,400.00	11,480.20	12,421.56	10,515.79	51.53	48.91	-18.90	1,888.68	-108.76	1,019.35	959.13	60.22	16.927
13,500.00	11,479.75	12,521.56	10,515.38	52.57	50.01	-18.90	1,988.67	-109.42	1,019.32	958.01	61.31	16.626
13,600.00	11,479.31	12,621.56	10,514.98	53.65	51.14	-18.90	2,088.67	-110.08	1,019.28	956.85	62.43	16.327
13,700.00	11,478.87	12,721.56	10,514.58	54.75	52.30	-18.90	2,188.67	-110.75	1,019.24	955.66	63.58	16.031
13,800.00	11,478.43	12,821.56	10,514.18	55.88	53.49	-18.90	2,288.66	-111.41	1,019.20	954.45	64.75	15.739
13,900.00	11,477.99	12,921.56	10,513.78	57.03	54.69	-18.90	2,388.66	-112.07	1,019.16	953.21	65.96	15.452
14,000.00	11,477.55	13,021.56	10,513.38	58.21	55.93	-18.90	2,488.66	-112.74	1,019.12	951.94	67.19	15.169
14,100.00	11,477.11	13,121.56	10,512.98	59.41	57.18	-18.90	2,588.66	-113.40	1,019.09	950.65	68.44	14.890
14,200.00	11,476.66	13,221.56	10,512.57	60.64	58.45	-18.90	2,688.65	-114.06	1,019.05	949.33	69.71	14.618
14,300.00	11,476.22	13,321.56	10,512.17	61.88	59.74	-18.90	2,788.65	-114.73	1,019.01	948.00	71.01	14.350
14,400.00	11,475.78	13,421.56	10,511.77	63.14	61.05	-18.90	2,888.65	-115.39	1,018.97	946.64	72.32	14.089
14,500.00	11,475.34	13,521.56	10,511.37	64.42	62.38	-18.90	2,988.64	-116.05	1,018.93	945.27	73.66	13.833
14,600.00	11,474.89	13,621.56	10,510.97	65.72	63.72	-18.90	3,088.64	-116.72	1,018.89	943.88	75.01	13.584
14,700.00	11,474.45	13,721.56	10,510.57	67.03	65.08	-18.90	3,188.64	-117.38	1,018.85	942.47	76.38	13.340
14,800.00	11,474.00	13,821.56	10,510.17	68.36	66.45	-18.91	3,288.63	-118.04	1,018.80	941.05	77.76	13.102
14,900.00	11,473.56	13,921.56	10,509.76	69.70	67.83	-18.91	3,388.63	-118.71	1,018.76	939.61	79.16	12.870
15,000.00	11,473.12	14,021.56	10,509.36	71.06	69.23	-18.91	3,488.63	-119.37	1,018.72	938.15	80.57	12.644
15,100.00	11,472.67	14,121.56	10,508.96	72.43	70.63	-18.91	3,588.63	-120.03	1,018.68	936.69	81.99	12.424

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,200.00	11,472.23	14,221.56	10,508.56	73.81	72.05	-18.91	3,688.62	-120.70	1,018.64	935.21	83.43	12.210	
15,300.00	11,471.78	14,321.56	10,508.16	75.20	73.48	-18.91	3,788.62	-121.36	1,018.59	933.72	84.87	12.001	
15,400.00	11,471.34	14,421.56	10,507.76	76.60	74.91	-18.91	3,888.62	-122.02	1,018.55	932.22	86.33	11.798	
15,500.00	11,470.89	14,521.56	10,507.36	78.01	76.36	-18.91	3,988.61	-122.69	1,018.51	930.71	87.80	11.600	
15,600.00	11,470.44	14,621.56	10,506.95	79.43	77.81	-18.91	4,088.61	-123.35	1,018.47	929.19	89.28	11.408	
15,700.00	11,470.00	14,721.56	10,506.55	80.86	79.27	-18.91	4,188.61	-124.01	1,018.42	927.66	90.77	11.220	
15,800.00	11,469.55	14,821.56	10,506.15	82.30	80.74	-18.91	4,288.60	-124.68	1,018.38	926.12	92.26	11.038	
15,900.00	11,469.10	14,921.56	10,505.75	83.74	82.22	-18.91	4,388.60	-125.34	1,018.33	924.57	93.77	10.860	
16,000.00	11,468.66	15,021.56	10,505.35	85.20	83.70	-18.91	4,488.60	-126.00	1,018.29	923.01	95.28	10.687	
16,100.00	11,468.21	15,121.56	10,504.95	86.66	85.19	-18.91	4,588.60	-126.67	1,018.25	921.45	96.80	10.519	
16,200.00	11,467.76	15,221.56	10,504.55	88.13	86.68	-18.91	4,688.59	-127.33	1,018.20	919.88	98.32	10.356	
16,300.00	11,467.32	15,321.56	10,504.14	89.60	88.18	-18.91	4,788.59	-127.99	1,018.16	918.30	99.86	10.196	
16,400.00	11,466.87	15,421.56	10,503.74	91.08	89.69	-18.92	4,888.59	-128.66	1,018.11	916.72	101.39	10.041	
16,500.00	11,466.42	15,521.56	10,503.34	92.57	91.20	-18.92	4,988.58	-129.32	1,018.06	915.13	102.94	9.890	
16,600.00	11,465.97	15,621.56	10,502.94	94.06	92.72	-18.92	5,088.58	-129.98	1,018.02	913.53	104.49	9.743	
16,700.00	11,465.52	15,721.56	10,502.54	95.56	94.24	-18.92	5,188.58	-130.64	1,017.97	911.93	106.04	9.600	
16,800.00	11,465.07	15,821.56	10,502.14	97.06	95.77	-18.92	5,288.57	-131.31	1,017.93	910.32	107.60	9.460	
16,900.00	11,464.62	15,921.56	10,501.74	98.57	97.30	-18.92	5,388.57	-131.97	1,017.88	908.71	109.17	9.324	
17,000.00	11,464.17	16,021.56	10,501.33	100.08	98.83	-18.92	5,488.57	-132.63	1,017.83	907.10	110.74	9.192	
17,100.00	11,463.72	16,121.56	10,500.93	101.60	100.37	-18.92	5,588.57	-133.30	1,017.78	905.47	112.31	9.062	
17,200.00	11,463.27	16,221.56	10,500.53	103.12	101.91	-18.92	5,688.56	-133.96	1,017.74	903.85	113.89	8.937	
17,300.00	11,462.82	16,321.56	10,500.13	104.65	103.46	-18.92	5,788.56	-134.62	1,017.69	902.22	115.47	8.814	
17,400.00	11,462.37	16,421.56	10,499.73	106.18	105.01	-18.92	5,888.56	-135.29	1,017.64	900.59	117.05	8.694	
17,500.00	11,461.92	16,521.56	10,499.33	107.71	106.56	-18.92	5,988.55	-135.95	1,017.59	898.95	118.64	8.577	
17,600.00	11,461.47	16,621.56	10,498.93	109.25	108.11	-18.92	6,088.55	-136.61	1,017.54	897.31	120.23	8.463	
17,700.00	11,461.02	16,721.56	10,498.52	110.79	109.67	-18.92	6,188.55	-137.28	1,017.49	895.67	121.82	8.352	
17,800.00	11,460.57	16,821.56	10,498.12	112.33	111.23	-18.92	6,288.54	-137.94	1,017.45	894.03	123.42	8.244	
17,900.00	11,460.12	16,921.56	10,497.72	113.88	112.80	-18.92	6,388.54	-138.60	1,017.40	892.38	125.02	8.138	
18,000.00	11,459.66	17,021.56	10,497.32	115.43	114.36	-18.93	6,488.54	-139.27	1,017.35	890.73	126.62	8.035	
18,100.00	11,459.21	17,121.56	10,496.92	116.98	115.93	-18.93	6,588.53	-139.93	1,017.30	889.07	128.22	7.934	
18,200.00	11,458.76	17,221.56	10,496.52	118.54	117.50	-18.93	6,688.53	-140.59	1,017.25	887.42	129.83	7.835	
18,300.00	11,458.31	17,321.56	10,496.12	120.09	119.08	-18.93	6,788.53	-141.26	1,017.19	885.75	131.44	7.739	
18,400.00	11,457.85	17,421.56	10,495.71	121.66	120.65	-18.93	6,888.53	-141.92	1,017.14	884.09	133.05	7.645	
18,500.00	11,457.40	17,521.56	10,495.31	123.22	122.23	-18.93	6,988.52	-142.58	1,017.09	882.43	134.66	7.553	
18,600.00	11,456.95	17,621.56	10,494.91	124.78	123.81	-18.93	7,088.52	-143.25	1,017.04	880.76	136.28	7.463	
18,700.00	11,456.49	17,721.56	10,494.51	126.35	125.39	-18.93	7,188.52	-143.91	1,016.99	879.09	137.89	7.375	
18,800.00	11,456.04	17,821.56	10,494.11	127.92	126.97	-18.93	7,288.51	-144.57	1,016.94	877.42	139.51	7.289	
18,900.00	11,455.58	17,921.56	10,493.71	129.50	128.56	-18.93	7,388.51	-145.24	1,016.88	875.75	141.13	7.205	
19,000.00	11,455.13	18,021.56	10,493.31	131.07	130.15	-18.93	7,488.51	-145.90	1,016.83	874.08	142.75	7.123	
19,100.00	11,454.67	18,121.56	10,492.90	132.65	131.74	-18.93	7,588.50	-146.56	1,016.78	872.40	144.37	7.043	
19,200.00	11,454.22	18,221.56	10,492.50	134.22	133.33	-18.93	7,688.50	-147.23	1,016.73	870.73	146.00	6.964	
19,300.00	11,453.76	18,321.56	10,492.10	135.80	134.92	-18.93	7,788.50	-147.89	1,016.67	869.05	147.63	6.887	
19,400.00	11,453.31	18,421.56	10,491.70	137.39	136.51	-18.93	7,888.50	-148.55	1,016.62	867.37	149.25	6.811	
19,500.00	11,452.85	18,521.56	10,491.30	138.97	138.11	-18.93	7,988.49	-149.22	1,016.57	865.69	150.88	6.738	
19,600.00	11,452.39	18,621.56	10,490.90	140.56	139.71	-18.94	8,088.49	-149.88	1,016.51	864.00	152.51	6.665	
19,700.00	11,451.94	18,721.56	10,490.50	142.14	141.30	-18.94	8,188.49	-150.54	1,016.46	862.32	154.14	6.595	
19,800.00	11,451.48	18,821.56	10,490.09	143.73	142.90	-18.94	8,288.48	-151.20	1,016.40	860.63	155.77	6.525	
19,900.00	11,451.02	18,921.56	10,489.69	145.32	144.50	-18.94	8,388.48	-151.87	1,016.35	858.95	157.40	6.457	
20,000.00	11,450.57	19,021.56	10,489.29	146.91	146.11	-18.94	8,488.48	-152.53	1,016.29	857.26	159.03	6.391	
20,100.00	11,450.11	19,121.56	10,488.89	148.51	147.71	-18.94	8,588.47	-153.19	1,016.24	855.57	160.66	6.325	
20,200.00	11,449.65	19,221.56	10,488.49	150.10	149.31	-18.94	8,688.47	-153.86	1,016.18	853.88	162.30	6.261	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,300.00	11,449.19	19,321.56	10,488.09	151.70	150.92	-18.94	8,788.47	-154.52	1,016.12	852.19	163.93	6.198	
20,400.00	11,448.73	19,421.56	10,487.69	153.29	152.53	-18.94	8,888.47	-155.18	1,016.07	850.50	165.57	6.137	
20,500.00	11,448.27	19,521.56	10,487.28	154.89	154.13	-18.94	8,988.46	-155.85	1,016.01	848.81	167.20	6.076	
20,600.00	11,447.82	19,621.56	10,486.88	156.49	155.74	-18.94	9,088.46	-156.51	1,015.95	847.11	168.84	6.017	
20,700.00	11,447.36	19,721.56	10,486.48	158.09	157.35	-18.94	9,188.46	-157.17	1,015.90	845.42	170.48	5.959	
20,800.00	11,446.90	19,821.56	10,486.08	159.70	158.96	-18.94	9,288.45	-157.84	1,015.84	843.72	172.11	5.902	
20,900.00	11,446.44	19,921.56	10,485.68	161.30	160.57	-18.94	9,388.45	-158.50	1,015.78	842.03	173.75	5.846	
21,000.00	11,445.98	20,021.56	10,485.28	162.90	162.19	-18.94	9,488.45	-159.16	1,015.72	840.33	175.39	5.791	
21,100.00	11,445.52	20,121.56	10,484.88	164.51	163.80	-18.94	9,588.44	-159.83	1,015.66	838.64	177.03	5.737	
21,200.00	11,445.06	20,221.56	10,484.47	166.11	165.41	-18.95	9,688.44	-160.49	1,015.61	836.94	178.67	5.684	
21,300.00	11,444.60	20,321.56	10,484.07	167.72	167.03	-18.95	9,788.44	-161.15	1,015.55	835.24	180.31	5.632	
21,400.00	11,444.14	20,421.56	10,483.67	169.33	168.64	-18.95	9,888.44	-161.82	1,015.49	833.54	181.95	5.581	
21,500.00	11,443.67	20,521.56	10,483.27	170.94	170.26	-18.95	9,988.43	-162.48	1,015.43	831.84	183.59	5.531	
21,600.00	11,443.21	20,621.56	10,482.87	172.55	171.88	-18.95	10,088.43	-163.14	1,015.37	830.14	185.23	5.482	
21,700.00	11,442.75	20,721.56	10,482.47	174.16	173.50	-18.95	10,188.43	-163.81	1,015.31	828.44	186.87	5.433	
21,800.00	11,442.29	20,822.44	10,482.11	175.77	175.13	-18.95	10,289.30	-164.57	1,015.23	826.71	188.52	5.385	
21,862.35	11,442.00	20,884.78	10,482.01	176.77	176.14	-18.97	10,351.64	-165.23	1,015.14	825.56	189.57	5.355	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.00	0.00	4.00	4.00	0.00	0.01	86.17	98.51	1,469.86	1,473.16				
100.00	100.00	104.00	104.00	0.13	0.15	86.17	98.51	1,469.86	1,473.16	1,472.88	0.28	5,201.974	
200.00	200.00	204.00	204.00	0.49	0.51	86.17	98.51	1,469.86	1,473.16	1,472.16	1.00	1,472.962	
300.00	300.00	304.00	304.00	0.85	0.87	86.17	98.51	1,469.86	1,473.16	1,471.44	1.72	857.947	
400.00	400.00	404.00	404.00	1.21	1.22	86.17	98.51	1,469.86	1,473.16	1,470.73	2.43	605.238	
500.00	500.00	504.00	504.00	1.57	1.58	86.17	98.51	1,469.86	1,473.16	1,470.01	3.15	467.527	
600.00	600.00	604.00	604.00	1.93	1.94	86.17	98.51	1,469.86	1,473.16	1,469.29	3.87	380.868	
700.00	700.00	704.00	704.00	2.29	2.30	86.17	98.51	1,469.86	1,473.16	1,468.58	4.58	321.311	
800.00	800.00	804.00	804.00	2.64	2.66	86.17	98.51	1,469.86	1,473.16	1,467.86	5.30	277.861	
900.00	900.00	904.00	904.00	3.00	3.02	86.17	98.51	1,469.86	1,473.16	1,467.14	6.02	244.763	
1,000.00	1,000.00	1,004.00	1,004.00	3.36	3.38	86.17	98.51	1,469.86	1,473.16	1,466.43	6.74	218.710	
1,100.00	1,100.00	1,104.00	1,104.00	3.72	3.73	86.17	98.51	1,469.86	1,473.16	1,465.71	7.45	197.670	
1,200.00	1,200.00	1,204.00	1,204.00	4.08	4.09	86.17	98.51	1,469.86	1,473.16	1,464.99	8.17	180.323	
1,300.00	1,300.00	1,304.00	1,304.00	4.44	4.45	86.17	98.51	1,469.86	1,473.16	1,464.28	8.89	165.775	
1,400.00	1,400.00	1,404.00	1,404.00	4.79	4.81	86.17	98.51	1,469.86	1,473.16	1,463.56	9.60	153.399	
1,500.00	1,500.00	1,504.00	1,504.00	5.15	5.17	86.17	98.51	1,469.86	1,473.16	1,462.84	10.32	142.743	
1,600.00	1,600.00	1,604.00	1,604.00	5.51	5.53	86.17	98.51	1,469.86	1,473.16	1,462.12	11.04	133.471	
1,700.00	1,700.00	1,704.00	1,704.00	5.87	5.88	86.17	98.51	1,469.86	1,473.16	1,461.41	11.75	125.330	
1,800.00	1,800.00	1,804.00	1,804.00	6.23	6.24	86.17	98.51	1,469.86	1,473.16	1,460.69	12.47	118.125	
1,900.00	1,900.00	1,904.00	1,904.00	6.59	6.60	86.17	98.51	1,469.86	1,473.16	1,459.97	13.19	111.703	
2,000.00	2,000.00	2,004.00	2,004.00	6.95	6.96	86.17	98.51	1,469.86	1,473.16	1,459.26	13.91	105.944	
2,100.00	2,099.98	2,103.98	2,103.98	7.29	7.32	-48.68	98.51	1,469.86	1,472.01	1,457.40	14.61	100.779	
2,200.00	2,199.84	2,207.11	2,207.11	7.62	7.69	-48.89	98.51	1,469.86	1,468.55	1,453.25	15.30	95.956	
2,300.00	2,299.45	2,391.10	2,390.96	7.95	8.31	-49.39	95.31	1,464.36	1,459.73	1,443.49	16.24	89.903	
2,400.00	2,398.70	2,572.12	2,571.07	8.30	8.93	-50.02	86.38	1,449.00	1,442.99	1,425.88	17.11	84.344	
2,500.00	2,497.47	2,748.31	2,744.97	8.65	9.55	-50.79	72.22	1,424.64	1,418.59	1,400.66	17.93	79.125	
2,600.00	2,595.62	2,866.39	2,860.56	9.01	9.99	-51.59	60.12	1,403.81	1,388.10	1,369.47	18.63	74.502	
2,700.00	2,693.44	2,960.95	2,953.05	9.39	10.35	-51.91	50.24	1,386.81	1,356.38	1,337.08	19.31	70.254	
2,800.00	2,791.25	3,055.50	3,045.54	9.77	10.72	-52.25	40.36	1,369.81	1,324.70	1,304.71	19.99	66.264	
2,900.00	2,889.07	3,150.06	3,138.03	10.17	11.10	-52.60	30.48	1,352.82	1,293.06	1,272.38	20.69	62.508	
3,000.00	2,886.88	3,244.61	3,230.52	10.57	11.48	-52.97	20.60	1,335.82	1,261.47	1,240.08	21.39	58.972	
3,100.00	3,084.70	3,339.16	3,323.01	10.99	11.87	-53.36	10.72	1,318.82	1,229.93	1,207.82	22.10	55.641	
3,200.00	3,182.51	3,433.72	3,415.49	11.41	12.27	-53.76	0.84	1,301.83	1,198.44	1,175.61	22.83	52.503	
3,300.00	3,280.33	3,528.27	3,507.98	11.83	12.67	-54.19	-9.04	1,284.83	1,167.01	1,143.46	23.56	49.543	
3,400.00	3,378.14	3,622.83	3,600.47	12.26	13.07	-54.65	-18.92	1,267.83	1,135.64	1,111.35	24.29	46.751	
3,500.00	3,475.96	3,717.38	3,692.96	12.69	13.48	-55.13	-28.80	1,250.84	1,104.35	1,079.31	25.03	44.115	
3,600.00	3,573.77	3,811.94	3,785.45	13.13	13.90	-55.60	-38.67	1,233.84	1,073.13	1,047.34	25.78	41.624	
3,700.00	3,671.97	3,906.98	3,878.41	13.57	14.31	-55.52	-48.60	1,216.76	1,043.04	1,016.51	26.53	39.316	
3,800.00	3,770.78	4,002.79	3,972.13	13.98	14.74	-55.34	-58.61	1,199.54	1,014.89	987.61	27.27	37.214	
3,900.00	3,870.05	4,099.25	4,066.48	14.38	15.17	-55.04	-68.69	1,182.20	988.66	960.65	28.01	35.301	
4,000.00	3,969.69	4,196.25	4,161.36	14.75	15.61	-54.60	-78.83	1,164.76	964.37	935.64	28.73	33.564	
4,100.00	4,069.56	4,293.67	4,256.65	15.11	16.05	-54.03	-89.01	1,147.25	942.05	912.60	29.45	31.989	
4,200.00	4,169.54	4,391.38	4,352.23	15.44	16.49	81.45	-99.22	1,129.68	921.76	891.61	30.15	30.569	
4,300.00	4,269.54	4,489.20	4,447.91	15.77	16.94	81.94	-109.43	1,112.10	902.40	871.55	30.86	29.245	
4,400.00	4,369.54	4,587.01	4,543.59	16.10	17.39	82.44	-119.65	1,094.52	883.12	851.55	31.56	27.979	
4,500.00	4,469.54	4,684.83	4,639.26	16.43	17.84	82.97	-129.87	1,076.94	863.90	831.62	32.27	26.767	
4,600.00	4,569.54	4,782.64	4,734.94	16.76	18.29	83.52	-140.09	1,059.35	844.75	811.76	32.99	25.607	
4,700.00	4,669.54	4,880.46	4,830.62	17.09	18.74	84.10	-150.31	1,041.77	825.69	791.98	33.71	24.495	
4,800.00	4,769.54	4,978.27	4,926.30	17.43	19.20	84.70	-160.53	1,024.19	806.71	772.27	34.43	23.430	
4,900.00	4,869.54	5,076.09	5,021.97	17.76	19.66	85.34	-170.75	1,006.61	787.82	752.66	35.16	22.408	
5,000.00	4,969.54	5,173.90	5,117.65	18.10	20.11	86.00	-180.97	989.02	769.03	733.14	35.89	21.428	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,069.54	5,271.72	5,213.33	18.43	20.57	86.70	-191.19	971.44	750.34	713.72	36.62	20.488		
5,200.00	5,169.54	5,364.15	5,303.76	18.77	21.01	87.39	-200.80	954.91	731.88	694.50	37.38	19.580		
5,300.00	5,269.54	5,444.41	5,382.62	19.11	21.37	87.95	-208.31	942.00	715.36	677.20	38.16	18.747		
5,400.00	5,369.54	5,525.47	5,462.65	19.45	21.72	88.44	-214.76	930.90	701.38	662.47	38.91	18.023		
5,500.00	5,469.54	5,600.00	5,536.53	19.79	22.03	88.84	-219.68	922.43	689.99	650.35	39.65	17.404		
5,600.00	5,569.54	5,689.47	5,625.52	20.13	22.38	89.21	-224.31	914.46	681.05	640.69	40.36	16.876		
5,700.00	5,669.54	5,772.17	5,707.99	20.47	22.68	89.46	-227.35	909.23	674.68	633.64	41.03	16.442		
5,800.00	5,769.54	5,855.14	5,790.89	20.81	22.97	89.62	-229.20	906.05	670.83	629.15	41.68	16.094		
5,900.00	5,869.54	5,940.50	5,876.23	21.15	23.25	89.67	-229.84	904.95	669.51	627.20	42.31	15.825		
5,934.25	5,903.80	5,972.06	5,907.80	21.27	23.35	89.67	-229.84	904.95	669.51	626.98	42.53	15.744		
6,000.00	5,969.54	6,037.81	5,973.54	21.49	23.55	89.67	-229.84	904.95	669.51	626.54	42.97	15.581		
6,100.00	6,069.54	6,137.81	6,073.54	21.83	23.86	89.67	-229.84	904.95	669.51	625.86	43.64	15.340		
6,200.00	6,169.54	6,237.81	6,173.54	22.18	24.17	89.67	-229.84	904.95	669.51	625.19	44.32	15.106		
6,300.00	6,269.54	6,337.81	6,273.54	22.52	24.48	89.67	-229.84	904.95	669.51	624.51	45.00	14.879		
6,400.00	6,369.54	6,437.81	6,373.54	22.87	24.79	89.67	-229.84	904.95	669.51	623.83	45.68	14.658		
6,500.00	6,469.54	6,537.81	6,473.54	23.21	25.11	89.67	-229.84	904.95	669.51	623.15	46.35	14.443		
6,600.00	6,569.54	6,637.81	6,573.54	23.56	25.42	89.67	-229.84	904.95	669.51	622.47	47.04	14.234		
6,700.00	6,669.54	6,737.81	6,673.54	23.90	25.74	89.67	-229.84	904.95	669.51	621.79	47.72	14.031		
6,800.00	6,769.54	6,837.81	6,773.54	24.25	26.06	89.67	-229.84	904.95	669.51	621.11	48.40	13.833		
6,900.00	6,869.54	6,937.81	6,873.54	24.59	26.38	89.67	-229.84	904.95	669.51	620.42	49.08	13.640		
7,000.00	6,969.54	7,037.81	6,973.54	24.94	26.70	89.67	-229.84	904.95	669.51	619.74	49.77	13.452		
7,100.00	7,069.54	7,137.81	7,073.54	25.29	27.02	89.67	-229.84	904.95	669.51	619.05	50.45	13.270		
7,200.00	7,169.54	7,237.81	7,173.54	25.63	27.34	89.67	-229.84	904.95	669.51	618.36	51.14	13.091		
7,300.00	7,269.54	7,337.81	7,273.54	25.98	27.66	89.67	-229.84	904.95	669.51	617.68	51.83	12.918		
7,400.00	7,369.54	7,437.81	7,373.54	26.33	27.98	89.67	-229.84	904.95	669.51	616.99	52.52	12.749		
7,500.00	7,469.54	7,537.81	7,473.54	26.68	28.31	89.67	-229.84	904.95	669.51	616.30	53.20	12.584		
7,600.00	7,569.54	7,637.81	7,573.54	27.03	28.63	89.67	-229.84	904.95	669.51	615.61	53.89	12.423		
7,700.00	7,669.54	7,737.81	7,673.54	27.37	28.96	89.67	-229.84	904.95	669.51	614.92	54.58	12.265		
7,800.00	7,769.54	7,837.81	7,773.54	27.72	29.29	89.67	-229.84	904.95	669.51	614.23	55.28	12.112		
7,900.00	7,869.54	7,937.81	7,873.54	28.07	29.61	89.67	-229.84	904.95	669.51	613.54	55.97	11.962		
8,000.00	7,969.54	8,037.81	7,973.54	28.42	29.94	89.67	-229.84	904.95	669.51	612.85	56.66	11.816		
8,100.00	8,069.54	8,137.81	8,073.54	28.77	30.27	89.67	-229.84	904.95	669.51	612.15	57.35	11.674		
8,200.00	8,169.54	8,237.81	8,173.54	29.12	30.60	89.67	-229.84	904.95	669.51	611.46	58.05	11.534		
8,300.00	8,269.54	8,337.81	8,273.54	29.47	30.93	89.67	-229.84	904.95	669.51	610.77	58.74	11.398		
8,400.00	8,369.54	8,437.81	8,373.54	29.82	31.26	89.67	-229.84	904.95	669.51	610.07	59.43	11.265		
8,500.00	8,469.54	8,537.81	8,473.54	30.17	31.59	89.67	-229.84	904.95	669.51	609.38	60.13	11.134		
8,600.00	8,569.54	8,637.81	8,573.54	30.52	31.92	89.67	-229.84	904.95	669.51	608.68	60.82	11.007		
8,700.00	8,669.54	8,737.81	8,673.54	30.87	32.26	89.67	-229.84	904.95	669.51	607.98	61.52	10.883		
8,800.00	8,769.54	8,837.81	8,773.54	31.22	32.59	89.67	-229.84	904.95	669.51	607.29	62.22	10.761		
8,900.00	8,869.54	8,937.81	8,873.54	31.57	32.92	89.67	-229.84	904.95	669.51	606.59	62.91	10.642		
9,000.00	8,969.54	9,037.81	8,973.54	31.93	33.26	89.67	-229.84	904.95	669.51	605.89	63.61	10.525		
9,100.00	9,069.54	9,137.81	9,073.54	32.28	33.59	89.67	-229.84	904.95	669.51	605.20	64.31	10.411		
9,200.00	9,169.54	9,237.81	9,173.54	32.63	33.93	89.67	-229.84	904.95	669.51	604.50	65.01	10.299		
9,300.00	9,269.54	9,337.81	9,273.54	32.98	34.26	89.67	-229.84	904.95	669.51	603.80	65.71	10.189		
9,400.00	9,369.54	9,437.81	9,373.54	33.33	34.60	89.67	-229.84	904.95	669.51	603.10	66.41	10.082		
9,500.00	9,469.54	9,537.81	9,473.54	33.68	34.93	89.67	-229.84	904.95	669.51	602.40	67.10	9.977		
9,600.00	9,569.54	9,637.81	9,573.54	34.04	35.27	89.67	-229.84	904.95	669.51	601.70	67.80	9.874		
9,700.00	9,669.54	9,737.81	9,673.54	34.39	35.61	89.67	-229.84	904.95	669.51	601.00	68.50	9.773		
9,800.00	9,769.54	9,837.81	9,773.54	34.74	35.95	89.67	-229.84	904.95	669.51	600.30	69.20	9.674		
9,900.00	9,869.54	9,937.81	9,873.54	35.09	36.28	89.67	-229.84	904.95	669.51	599.60	69.91	9.577		
10,000.00	9,969.54	10,037.81	9,973.54	35.45	36.62	89.67	-229.84	904.95	669.51	598.90	70.61	9.482		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	10,069.54	10,137.81	10,073.54	35.80	36.96	89.67	-229.84	904.95	669.51	598.20	71.31	9.389	
10,200.00	10,169.54	10,237.81	10,173.54	36.15	37.30	89.67	-229.84	904.95	669.51	597.50	72.01	9.297	
10,300.00	10,269.54	10,337.81	10,273.54	36.51	37.64	89.67	-229.84	904.95	669.51	596.79	72.71	9.208	
10,400.00	10,369.54	10,437.81	10,373.54	36.86	37.98	89.67	-229.84	904.95	669.51	596.09	73.41	9.120	
10,500.00	10,469.54	10,537.81	10,473.54	37.21	38.32	89.67	-229.84	904.95	669.51	595.39	74.12	9.033	
10,600.00	10,569.54	10,637.81	10,573.54	37.57	38.66	89.67	-229.84	904.95	669.51	594.69	74.82	8.948	
10,700.00	10,669.54	10,737.81	10,673.54	37.92	39.00	89.67	-229.84	904.95	669.51	593.98	75.52	8.865	
10,800.00	10,769.54	10,837.81	10,773.54	38.27	39.34	89.67	-229.84	904.95	669.51	593.28	76.23	8.783	
10,876.32	10,845.86	10,914.14	10,849.86	38.54	39.60	89.62	-229.21	904.95	669.51	592.74	76.76	8.722	CC
10,900.00	10,869.54	10,937.74	10,873.40	38.63	39.68	89.48	-227.62	904.94	669.51	592.59	76.92	8.704	
11,000.00	10,969.45	11,035.22	10,969.32	38.98	39.98	88.63	-210.85	904.83	669.70	592.15	77.55	8.635	
11,100.00	11,067.64	11,130.01	11,058.55	39.30	40.23	87.31	-179.20	904.62	670.26	592.16	78.10	8.582	
11,200.00	11,161.16	11,222.61	11,139.52	39.59	40.43	86.07	-134.50	904.32	671.11	592.55	78.56	8.543	
11,300.00	11,247.17	11,313.34	11,210.88	39.83	40.57	84.96	-78.62	903.95	672.15	593.22	78.93	8.516	
11,400.00	11,323.06	11,400.00	11,270.00	40.03	40.67	84.01	-15.36	903.53	673.25	594.04	79.21	8.499	
11,500.00	11,386.52	11,490.45	11,320.80	40.18	40.72	83.19	59.36	903.04	674.30	594.81	79.49	8.483	
11,600.00	11,435.62	11,577.44	11,357.99	40.33	40.74	82.57	137.90	902.52	675.19	595.45	79.74	8.467	
11,700.00	11,468.88	11,663.75	11,382.73	40.54	40.74	82.16	220.51	901.97	675.84	595.81	80.03	8.445	
11,800.00	11,485.28	11,750.00	11,394.78	40.77	40.74	81.95	305.82	901.40	676.17	595.80	80.37	8.413	
11,900.00	11,486.77	11,843.48	11,396.03	41.03	40.83	81.95	399.27	900.78	676.18	595.36	80.82	8.367	
12,000.00	11,486.33	11,943.48	11,396.08	41.36	41.08	81.99	499.27	900.12	676.11	594.71	81.40	8.306	
12,100.00	11,485.90	12,043.47	11,396.13	41.74	41.42	82.03	599.27	899.46	676.04	593.93	82.11	8.234	
12,200.00	11,485.46	12,143.47	11,396.18	42.19	41.84	82.07	699.26	898.79	675.97	593.03	82.94	8.150	
12,300.00	11,485.02	12,243.47	11,396.24	42.70	42.31	82.11	799.26	898.13	675.91	592.01	83.90	8.056	
12,400.00	11,484.59	12,343.47	11,396.29	43.26	42.85	82.15	899.25	897.47	675.84	590.87	84.97	7.954	
12,500.00	11,484.15	12,443.47	11,396.34	43.88	43.44	82.19	999.25	896.81	675.77	589.62	86.15	7.844	
12,600.00	11,483.71	12,543.46	11,396.39	44.55	44.08	82.23	1,099.24	896.14	675.71	588.27	87.44	7.727	
12,700.00	11,483.27	12,643.46	11,396.44	45.27	44.77	82.27	1,199.24	895.48	675.65	586.81	88.84	7.605	
12,800.00	11,482.83	12,743.46	11,396.50	46.04	45.51	82.32	1,299.24	894.82	675.58	585.25	90.33	7.479	
12,900.00	11,482.39	12,843.46	11,396.55	46.85	46.29	82.36	1,399.23	894.16	675.52	583.60	91.92	7.349	
13,000.00	11,481.95	12,943.46	11,396.60	47.71	47.13	82.40	1,499.23	893.49	675.46	581.86	93.60	7.217	
13,100.00	11,481.52	13,043.45	11,396.65	48.61	48.00	82.44	1,599.22	892.83	675.39	580.04	95.36	7.083	
13,200.00	11,481.08	13,143.45	11,396.70	49.55	48.91	82.48	1,699.22	892.17	675.33	578.14	97.20	6.948	
13,300.00	11,480.64	13,243.45	11,396.76	50.52	49.86	82.52	1,799.22	891.51	675.27	576.16	99.11	6.813	
13,400.00	11,480.20	13,343.45	11,396.81	51.53	50.85	82.56	1,899.21	890.85	675.21	574.11	101.10	6.679	
13,500.00	11,479.75	13,443.45	11,396.86	52.57	51.87	82.61	1,999.21	890.19	675.15	572.00	103.15	6.545	
13,600.00	11,479.31	13,543.44	11,396.91	53.65	52.92	82.65	2,099.20	889.52	675.09	569.82	105.27	6.413	
13,700.00	11,478.87	13,643.44	11,396.96	54.75	54.00	82.69	2,199.20	888.86	675.03	567.59	107.44	6.283	
13,800.00	11,478.43	13,743.44	11,397.01	55.88	55.11	82.73	2,299.19	888.20	674.97	565.29	109.68	6.154	
13,900.00	11,477.99	13,843.44	11,397.06	57.03	56.25	82.77	2,399.19	887.54	674.91	562.95	111.96	6.028	
14,000.00	11,477.55	13,943.44	11,397.12	58.21	57.41	82.81	2,499.19	886.88	674.86	560.56	114.30	5.904	
14,100.00	11,477.11	14,043.43	11,397.17	59.41	58.59	82.85	2,599.18	886.22	674.80	558.12	116.68	5.784	
14,200.00	11,476.66	14,143.43	11,397.22	60.64	59.80	82.90	2,699.18	885.56	674.74	555.64	119.10	5.665	
14,300.00	11,476.22	14,243.43	11,397.27	61.88	61.03	82.94	2,799.17	884.90	674.69	553.12	121.57	5.550	
14,400.00	11,475.78	14,343.43	11,397.32	63.14	62.28	82.98	2,899.17	884.24	674.63	550.56	124.07	5.437	
14,500.00	11,475.34	14,443.43	11,397.37	64.42	63.55	83.02	2,999.17	883.58	674.58	547.96	126.61	5.328	
14,600.00	11,474.89	14,543.42	11,397.42	65.72	64.83	83.06	3,099.16	882.92	674.52	545.33	129.19	5.221	
14,700.00	11,474.45	14,643.42	11,397.47	67.03	66.13	83.10	3,199.16	882.26	674.47	542.67	131.80	5.117	
14,800.00	11,474.00	14,743.42	11,397.52	68.36	67.45	83.15	3,299.15	881.60	674.41	539.98	134.44	5.017	
14,900.00	11,473.56	14,843.42	11,397.58	69.70	68.78	83.19	3,399.15	880.94	674.36	537.26	137.10	4.919	
15,000.00	11,473.12	14,943.42	11,397.63	71.06	70.12	83.23	3,499.14	880.28	674.31	534.51	139.80	4.823	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,100.00	11,472.67	15,043.41	11,397.68	72.43	71.48	83.27	3,599.14	879.62	674.26	531.74	142.52	4.731	
15,200.00	11,472.23	15,143.41	11,397.73	73.81	72.85	83.31	3,699.14	878.96	674.21	528.94	145.26	4.641	
15,300.00	11,471.78	15,243.41	11,397.78	75.20	74.23	83.36	3,799.13	878.30	674.15	526.12	148.03	4.554	
15,400.00	11,471.34	15,343.41	11,397.83	76.60	75.62	83.40	3,899.13	877.64	674.10	523.28	150.82	4.470	
15,500.00	11,470.89	15,443.41	11,397.88	78.01	77.03	83.44	3,999.12	876.98	674.06	520.42	153.63	4.387	
15,600.00	11,470.44	15,543.40	11,397.93	79.43	78.44	83.48	4,099.12	876.32	674.01	517.55	156.46	4.308	
15,700.00	11,470.00	15,643.40	11,397.98	80.86	79.86	83.52	4,199.11	875.66	673.96	514.65	159.31	4.231	
15,800.00	11,469.55	15,743.40	11,398.03	82.30	81.29	83.57	4,299.11	875.00	673.91	511.74	162.17	4.155	
15,900.00	11,469.10	15,843.40	11,398.08	83.74	82.73	83.61	4,399.11	874.35	673.86	508.81	165.06	4.083	
16,000.00	11,468.66	15,943.40	11,398.13	85.20	84.18	83.65	4,499.10	873.69	673.82	505.86	167.95	4.012	
16,100.00	11,468.21	16,043.39	11,398.18	86.66	85.63	83.69	4,599.10	873.03	673.77	502.90	170.86	3.943	
16,200.00	11,467.76	16,143.39	11,398.23	88.13	87.10	83.73	4,699.09	872.37	673.72	499.93	173.79	3.877	
16,300.00	11,467.32	16,243.39	11,398.28	89.60	88.57	83.78	4,799.09	871.71	673.68	496.95	176.73	3.812	
16,400.00	11,466.87	16,343.39	11,398.33	91.08	90.04	83.82	4,899.09	871.05	673.63	493.95	179.68	3.749	
16,500.00	11,466.42	16,443.39	11,398.38	92.57	91.52	83.86	4,999.08	870.39	673.59	490.94	182.65	3.688	
16,600.00	11,465.97	16,543.38	11,398.43	94.06	93.01	83.90	5,099.08	869.74	673.55	487.92	185.63	3.629	
16,700.00	11,465.52	16,643.38	11,398.48	95.56	94.50	83.95	5,199.07	869.08	673.50	484.89	188.61	3.571	
16,800.00	11,465.07	16,743.38	11,398.53	97.06	96.00	83.99	5,299.07	868.42	673.46	481.85	191.61	3.515	
16,900.00	11,464.62	16,843.38	11,398.58	98.57	97.50	84.03	5,399.06	867.76	673.42	478.80	194.62	3.460	
17,000.00	11,464.17	16,943.38	11,398.63	100.08	99.01	84.07	5,499.06	867.11	673.38	475.74	197.64	3.407	
17,100.00	11,463.72	17,043.37	11,398.68	101.60	100.53	84.11	5,599.06	866.45	673.34	472.67	200.67	3.355	
17,200.00	11,463.27	17,143.37	11,398.73	103.12	102.04	84.16	5,699.05	865.79	673.30	469.59	203.71	3.305	
17,300.00	11,462.82	17,243.37	11,398.78	104.65	103.56	84.20	5,799.05	865.13	673.26	466.51	206.75	3.256	
17,400.00	11,462.37	17,343.37	11,398.83	106.18	105.09	84.24	5,899.04	864.48	673.22	463.41	209.80	3.209	
17,500.00	11,461.92	17,443.37	11,398.88	107.71	106.62	84.28	5,999.04	863.82	673.18	460.31	212.87	3.162	
17,600.00	11,461.47	17,543.36	11,398.93	109.25	108.15	84.33	6,099.04	863.16	673.14	457.20	215.94	3.117	
17,700.00	11,461.02	17,643.36	11,398.98	110.79	109.69	84.37	6,199.03	862.51	673.10	454.09	219.01	3.073	
17,800.00	11,460.57	17,743.36	11,399.03	112.33	111.23	84.41	6,299.03	861.85	673.07	450.97	222.09	3.031	
17,900.00	11,460.12	17,843.36	11,399.08	113.88	112.77	84.45	6,399.02	861.19	673.03	447.84	225.18	2.989	
18,000.00	11,459.66	17,943.36	11,399.13	115.43	114.32	84.50	6,499.02	860.54	672.99	444.71	228.28	2.948	
18,100.00	11,459.21	18,043.35	11,399.18	116.98	115.87	84.54	6,599.01	859.88	672.96	441.57	231.38	2.908	
18,200.00	11,458.76	18,143.35	11,399.23	118.54	117.42	84.58	6,699.01	859.22	672.92	438.43	234.49	2.870	
18,300.00	11,458.31	18,243.35	11,399.28	120.09	118.98	84.63	6,799.01	858.57	672.89	435.28	237.61	2.832	
18,400.00	11,457.85	18,343.35	11,399.33	121.66	120.54	84.67	6,899.00	857.91	672.85	432.13	240.72	2.795	
18,500.00	11,457.40	18,443.35	11,399.38	123.22	122.10	84.71	6,999.00	857.26	672.82	428.97	243.85	2.759	
18,600.00	11,456.95	18,543.34	11,399.43	124.78	123.66	84.75	7,098.99	856.60	672.79	425.81	246.98	2.724	
18,700.00	11,456.49	18,643.34	11,399.47	126.35	125.23	84.80	7,198.99	855.95	672.76	422.64	250.11	2.690	
18,800.00	11,456.04	18,743.34	11,399.52	127.92	126.79	84.84	7,298.98	855.29	672.73	419.47	253.25	2.656	
18,900.00	11,455.58	18,843.34	11,399.57	129.50	128.36	84.88	7,398.98	854.63	672.69	416.30	256.40	2.624	
19,000.00	11,455.13	18,943.34	11,399.62	131.07	129.94	84.92	7,498.98	853.98	672.66	413.12	259.55	2.592	
19,100.00	11,454.67	19,043.33	11,399.67	132.65	131.51	84.97	7,598.97	853.32	672.63	409.93	262.70	2.560	
19,200.00	11,454.22	19,143.33	11,399.72	134.22	133.09	85.01	7,698.97	852.67	672.61	406.75	265.86	2.530	
19,300.00	11,453.76	19,243.33	11,399.77	135.80	134.67	85.05	7,798.96	852.01	672.58	403.56	269.02	2.500	
19,400.00	11,453.31	19,343.33	11,399.82	137.39	136.25	85.10	7,898.96	851.36	672.55	400.37	272.18	2.471	
19,500.00	11,452.85	19,443.33	11,399.86	138.97	137.83	85.14	7,998.96	850.70	672.52	397.17	275.35	2.442	
19,600.00	11,452.39	19,543.32	11,399.91	140.56	139.41	85.18	8,098.95	850.05	672.49	393.97	278.53	2.414	
19,700.00	11,451.94	19,643.32	11,399.96	142.14	141.00	85.23	8,198.95	849.39	672.47	390.77	281.70	2.387	
19,800.00	11,451.48	19,743.32	11,400.01	143.73	142.58	85.27	8,298.94	848.74	672.44	387.56	284.88	2.360	
19,900.00	11,451.02	19,843.32	11,400.06	145.32	144.17	85.31	8,398.94	848.09	672.42	384.35	288.06	2.334	
20,000.00	11,450.57	19,943.31	11,400.11	146.91	145.76	85.35	8,498.93	847.43	672.39	381.14	291.25	2.309	
20,100.00	11,450.11	20,043.31	11,400.16	148.51	147.35	85.40	8,598.93	846.78	672.37	377.93	294.44	2.284	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
20,200.00	11,449.65	20,143.31	11,400.20	150.10	148.95	85.44	8,698.93	846.12	672.34	374.71	297.63	2.259
20,300.00	11,449.19	20,243.31	11,400.25	151.70	150.54	85.48	8,798.92	845.47	672.32	371.50	300.83	2.235
20,400.00	11,448.73	20,343.31	11,400.30	153.29	152.14	85.53	8,898.92	844.82	672.30	368.28	304.02	2.211
20,500.00	11,448.27	20,443.30	11,400.35	154.89	153.73	85.57	8,998.91	844.16	672.28	365.05	307.22	2.188
20,600.00	11,447.82	20,543.30	11,400.40	156.49	155.33	85.61	9,098.91	843.51	672.26	361.83	310.43	2.166
20,700.00	11,447.36	20,643.30	11,400.45	158.09	156.93	85.66	9,198.90	842.86	672.24	358.60	313.63	2.143
20,800.00	11,446.90	20,743.30	11,400.49	159.70	158.53	85.70	9,298.90	842.20	672.22	355.37	316.84	2.122
20,900.00	11,446.44	20,843.30	11,400.54	161.30	160.13	85.74	9,398.90	841.55	672.20	352.14	320.05	2.100
21,000.00	11,445.98	20,943.29	11,400.59	162.90	161.73	85.79	9,498.89	840.90	672.18	348.91	323.27	2.079
21,100.00	11,445.52	21,043.29	11,400.64	164.51	163.34	85.83	9,598.89	840.24	672.16	345.68	326.48	2.059
21,200.00	11,445.06	21,143.29	11,400.69	166.11	164.94	85.87	9,698.88	839.59	672.14	342.44	329.70	2.039
21,300.00	11,444.60	21,243.29	11,400.73	167.72	166.55	85.92	9,798.88	838.94	672.12	339.20	332.92	2.019
21,400.00	11,444.14	21,343.29	11,400.78	169.33	168.16	85.96	9,898.88	838.28	672.11	335.96	336.14	1.999
21,500.00	11,443.67	21,443.28	11,400.83	170.94	169.76	86.00	9,998.87	837.63	672.09	332.72	339.37	1.980
21,600.00	11,443.21	21,543.28	11,400.88	172.55	171.37	86.05	10,098.87	836.98	672.07	329.48	342.60	1.962
21,700.00	11,442.75	21,643.28	11,400.92	174.16	172.98	86.09	10,198.86	836.33	672.06	326.23	345.82	1.943
21,800.00	11,442.29	21,743.28	11,400.97	175.77	174.59	86.13	10,298.86	835.68	672.05	322.99	349.06	1.925
21,861.70	11,442.00	21,804.32	11,401.00	176.76	175.58	86.16	10,359.90	835.28	672.04	321.00	351.03	1.914
21,862.35	11,442.00	21,804.32	11,401.00	176.77	175.58	86.16	10,359.90	835.28	672.04	321.00	351.04	1.914 ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-90.32	-7.30	-1,309.06	1,309.11						
100.00	100.00	90.00	90.00	0.13	0.12	-90.32	-7.30	-1,309.06	1,309.08	1,308.82	0.26	5,125.367			
200.00	200.00	190.00	190.00	0.49	0.46	-90.32	-7.30	-1,309.06	1,309.08	1,308.13	0.95	1,378.048			
300.00	300.00	290.00	290.00	0.85	0.82	-90.32	-7.30	-1,309.06	1,309.08	1,307.41	1.67	785.339			
400.00	400.00	390.00	390.00	1.21	1.17	-90.32	-7.30	-1,309.06	1,309.08	1,306.69	2.38	549.147			
500.00	500.00	490.00	490.00	1.57	1.53	-90.32	-7.30	-1,309.06	1,309.08	1,305.98	3.10	422.177			
600.00	600.00	590.00	590.00	1.93	1.89	-90.32	-7.30	-1,309.06	1,309.08	1,305.26	3.82	342.895			
700.00	700.00	690.00	690.00	2.29	2.25	-90.32	-7.30	-1,309.06	1,309.08	1,304.54	4.53	288.682			
800.00	800.00	790.00	790.00	2.64	2.61	-90.32	-7.30	-1,309.06	1,309.08	1,303.83	5.25	249.272			
900.00	900.00	890.00	890.00	3.00	2.97	-90.32	-7.30	-1,309.06	1,309.08	1,303.11	5.97	219.329			
1,000.00	1,000.00	990.00	990.00	3.36	3.32	-90.32	-7.30	-1,309.06	1,309.08	1,302.39	6.69	195.809			
1,100.00	1,100.00	1,090.00	1,090.00	3.72	3.68	-90.32	-7.30	-1,309.06	1,309.08	1,301.67	7.40	176.844			
1,200.00	1,200.00	1,190.00	1,190.00	4.08	4.04	-90.32	-7.30	-1,309.06	1,309.08	1,300.96	8.12	161.229			
1,300.00	1,300.00	1,290.00	1,290.00	4.44	4.40	-90.32	-7.30	-1,309.06	1,309.08	1,300.24	8.84	148.147			
1,400.00	1,400.00	1,390.00	1,390.00	4.79	4.76	-90.32	-7.30	-1,309.06	1,309.08	1,299.52	9.55	137.029			
1,500.00	1,500.00	1,490.00	1,490.00	5.15	5.12	-90.32	-7.30	-1,309.06	1,309.08	1,298.81	10.27	127.463			
1,600.00	1,600.00	1,590.00	1,590.00	5.51	5.48	-90.32	-7.30	-1,309.06	1,309.08	1,298.09	10.99	119.146			
1,700.00	1,700.00	1,690.00	1,690.00	5.87	5.83	-90.32	-7.30	-1,309.06	1,309.08	1,297.37	11.70	111.848			
1,800.00	1,800.00	1,790.00	1,790.00	6.23	6.19	-90.32	-7.30	-1,309.06	1,309.08	1,296.66	12.42	105.392			
1,900.00	1,900.00	1,890.00	1,890.00	6.59	6.55	-90.32	-7.30	-1,309.06	1,309.08	1,295.94	13.14	99.641			
2,000.00	2,000.00	1,990.00	1,990.00	6.95	6.91	-90.32	-7.30	-1,309.06	1,309.08	1,295.22	13.85	94.485 CC, ES			
2,100.00	2,099.98	2,089.98	2,089.98	7.29	7.27	134.94	-7.30	-1,309.06	1,310.31	1,295.75	14.56	90.018			
2,200.00	2,199.84	2,189.84	2,189.84	7.62	7.63	135.05	-7.30	-1,309.06	1,314.01	1,298.77	15.24	86.201			
2,300.00	2,299.45	2,289.45	2,289.45	7.95	7.98	135.23	-7.30	-1,309.06	1,320.20	1,304.27	15.93	82.859			
2,400.00	2,398.70	2,388.70	2,388.70	8.30	8.34	135.47	-7.30	-1,309.06	1,328.90	1,312.28	16.62	79.934			
2,500.00	2,497.47	2,462.34	2,462.34	8.65	8.59	135.64	-7.64	-1,309.65	1,340.97	1,323.75	17.22	77.881			
2,600.00	2,595.62	2,532.06	2,532.02	9.01	8.83	135.75	-8.80	-1,311.70	1,357.66	1,339.87	17.79	76.312			
2,700.00	2,693.44	2,600.00	2,599.84	9.39	9.06	136.08	-10.74	-1,315.13	1,377.70	1,359.35	18.35	75.082			
2,800.00	2,791.25	2,669.89	2,669.49	9.77	9.29	136.38	-13.57	-1,320.10	1,399.81	1,380.90	18.91	74.012			
2,900.00	2,889.07	2,738.08	2,737.30	10.17	9.53	136.63	-17.14	-1,326.39	1,423.95	1,404.48	19.47	73.144			
3,000.00	2,986.88	2,800.00	2,798.70	10.57	9.74	136.82	-21.06	-1,333.30	1,450.08	1,430.09	19.99	72.543			
3,100.00	3,084.70	2,872.70	2,870.56	10.99	9.99	137.00	-26.51	-1,342.90	1,478.11	1,457.55	20.56	71.887			
3,200.00	3,182.51	2,939.00	2,935.82	11.41	10.23	137.13	-32.25	-1,353.02	1,508.04	1,486.94	21.10	71.473			
3,300.00	3,280.33	3,006.57	3,002.04	11.83	10.48	137.22	-38.87	-1,364.69	1,539.82	1,518.18	21.64	71.152			
3,400.00	3,378.14	3,101.08	3,094.49	12.26	10.83	137.32	-48.57	-1,381.78	1,572.38	1,550.04	22.34	70.373			
3,500.00	3,475.96	3,195.59	3,186.94	12.69	11.19	137.42	-58.27	-1,398.87	1,604.95	1,581.90	23.05	69.618			
3,600.00	3,573.77	3,290.10	3,279.39	13.13	11.56	137.55	-67.97	-1,415.96	1,637.52	1,613.75	23.77	68.887			
3,700.00	3,671.97	3,385.10	3,372.31	13.57	11.94	138.03	-77.72	-1,433.13	1,668.71	1,644.21	24.49	68.133			
3,800.00	3,770.78	3,480.88	3,465.99	13.98	12.33	138.39	-87.55	-1,450.45	1,697.42	1,672.20	25.21	67.324			
3,900.00	3,870.05	3,577.32	3,560.33	14.38	12.72	138.63	-97.45	-1,467.89	1,723.62	1,697.69	25.93	66.464			
4,000.00	3,969.69	3,674.30	3,655.19	14.75	13.13	138.76	-107.40	-1,485.43	1,747.31	1,720.65	26.65	65.563			
4,100.00	4,069.56	3,771.71	3,750.47	15.11	13.54	138.78	-117.40	-1,503.04	1,768.46	1,741.09	27.36	64.626			
4,200.00	4,169.54	3,869.42	3,846.04	15.44	13.95	-86.54	-127.43	-1,520.71	1,787.09	1,759.02	28.07	63.665			
4,300.00	4,269.54	3,967.24	3,941.72	15.77	14.38	-86.90	-137.46	-1,538.39	1,804.67	1,775.89	28.78	62.716			
4,400.00	4,369.54	4,065.05	4,037.40	16.10	14.80	-87.25	-147.50	-1,556.08	1,822.31	1,792.83	29.48	61.809			
4,500.00	4,469.54	4,162.87	4,133.08	16.43	15.23	-87.59	-157.54	-1,573.77	1,840.02	1,809.83	30.19	60.943			
4,600.00	4,569.54	4,304.96	4,272.29	16.76	15.85	-88.06	-171.59	-1,598.52	1,857.37	1,826.19	31.18	59.572			
4,700.00	4,669.54	4,528.80	4,493.80	17.09	16.76	-88.57	-187.28	-1,626.16	1,869.56	1,837.00	32.56	57.412			
4,800.00	4,769.54	4,756.32	4,720.80	17.43	17.59	-88.80	-194.43	-1,638.77	1,875.04	1,841.23	33.80	55.469			
4,900.00	4,869.54	4,895.07	4,859.54	17.76	18.06	-88.81	-194.84	-1,639.49	1,875.35	1,840.73	34.62	54.169			
5,000.00	4,969.54	4,995.07	4,959.54	18.10	18.39	-88.81	-194.84	-1,639.49	1,875.35	1,840.05	35.30	53.122			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
5,100.00	5,069.54	5,095.07	5,059.54	18.43	18.72	-88.81	-194.84	-1,639.49	1,875.35	1,839.36	35.99	52.113	
5,200.00	5,169.54	5,195.07	5,159.54	18.77	19.05	-88.81	-194.84	-1,639.49	1,875.35	1,838.68	36.67	51.140	
5,300.00	5,269.54	5,295.07	5,259.54	19.11	19.38	-88.81	-194.84	-1,639.49	1,875.35	1,837.99	37.36	50.201	
5,400.00	5,369.54	5,395.07	5,359.54	19.45	19.72	-88.81	-194.84	-1,639.49	1,875.35	1,837.30	38.04	49.294	
5,500.00	5,469.54	5,495.07	5,459.54	19.79	20.05	-88.81	-194.84	-1,639.49	1,875.35	1,836.62	38.73	48.419	
5,600.00	5,569.54	5,595.07	5,559.54	20.13	20.39	-88.81	-194.84	-1,639.49	1,875.35	1,835.93	39.42	47.572	
5,700.00	5,669.54	5,695.07	5,659.54	20.47	20.72	-88.81	-194.84	-1,639.49	1,875.35	1,835.24	40.11	46.754	
5,800.00	5,769.54	5,795.07	5,759.54	20.81	21.06	-88.81	-194.84	-1,639.49	1,875.35	1,834.55	40.80	45.962	
5,900.00	5,869.54	5,895.07	5,859.54	21.15	21.40	-88.81	-194.84	-1,639.49	1,875.35	1,833.85	41.49	45.195	
6,000.00	5,969.54	5,995.07	5,959.54	21.49	21.74	-88.81	-194.84	-1,639.49	1,875.35	1,833.16	42.19	44.453	
6,100.00	6,069.54	6,095.07	6,059.54	21.83	22.08	-88.81	-194.84	-1,639.49	1,875.35	1,832.47	42.88	43.734	
6,200.00	6,169.54	6,195.07	6,159.54	22.18	22.42	-88.81	-194.84	-1,639.49	1,875.35	1,831.77	43.58	43.037	
6,300.00	6,269.54	6,295.07	6,259.54	22.52	22.76	-88.81	-194.84	-1,639.49	1,875.35	1,831.08	44.27	42.361	
6,400.00	6,369.54	6,395.07	6,359.54	22.87	23.10	-88.81	-194.84	-1,639.49	1,875.35	1,830.38	44.97	41.706	
6,500.00	6,469.54	6,495.07	6,459.54	23.21	23.44	-88.81	-194.84	-1,639.49	1,875.35	1,829.69	45.66	41.070	
6,600.00	6,569.54	6,595.07	6,559.54	23.56	23.78	-88.81	-194.84	-1,639.49	1,875.35	1,828.99	46.36	40.452	
6,700.00	6,669.54	6,695.07	6,659.54	23.90	24.12	-88.81	-194.84	-1,639.49	1,875.35	1,828.29	47.06	39.853	
6,800.00	6,769.54	6,795.07	6,759.54	24.25	24.47	-88.81	-194.84	-1,639.49	1,875.35	1,827.59	47.76	39.270	
6,900.00	6,869.54	6,895.07	6,859.54	24.59	24.81	-88.81	-194.84	-1,639.49	1,875.35	1,826.89	48.45	38.704	
7,000.00	6,969.54	6,995.07	6,959.54	24.94	25.15	-88.81	-194.84	-1,639.49	1,875.35	1,826.19	49.15	38.153	
7,100.00	7,069.54	7,095.07	7,059.54	25.29	25.50	-88.81	-194.84	-1,639.49	1,875.35	1,825.49	49.85	37.618	
7,200.00	7,169.54	7,195.07	7,159.54	25.63	25.84	-88.81	-194.84	-1,639.49	1,875.35	1,824.79	50.55	37.096	
7,300.00	7,269.54	7,295.07	7,259.54	25.98	26.19	-88.81	-194.84	-1,639.49	1,875.35	1,824.09	51.25	36.589	
7,400.00	7,369.54	7,395.07	7,359.54	26.33	26.53	-88.81	-194.84	-1,639.49	1,875.35	1,823.39	51.96	36.096	
7,500.00	7,469.54	7,495.07	7,459.54	26.68	26.88	-88.81	-194.84	-1,639.49	1,875.35	1,822.69	52.66	35.615	
7,600.00	7,569.54	7,595.07	7,559.54	27.03	27.22	-88.81	-194.84	-1,639.49	1,875.35	1,821.99	53.36	35.146	
7,700.00	7,669.54	7,695.07	7,659.54	27.37	27.57	-88.81	-194.84	-1,639.49	1,875.35	1,821.29	54.06	34.689	
7,800.00	7,769.54	7,795.07	7,759.54	27.72	27.92	-88.81	-194.84	-1,639.49	1,875.35	1,820.58	54.76	34.244	
7,900.00	7,869.54	7,895.07	7,859.54	28.07	28.26	-88.81	-194.84	-1,639.49	1,875.35	1,819.88	55.47	33.810	
8,000.00	7,969.54	7,995.07	7,959.54	28.42	28.61	-88.81	-194.84	-1,639.49	1,875.35	1,819.18	56.17	33.387	
8,100.00	8,069.54	8,095.07	8,059.54	28.77	28.96	-88.81	-194.84	-1,639.49	1,875.35	1,818.47	56.87	32.974	
8,200.00	8,169.54	8,195.07	8,159.54	29.12	29.31	-88.81	-194.84	-1,639.49	1,875.35	1,817.77	57.58	32.570	
8,300.00	8,269.54	8,295.07	8,259.54	29.47	29.65	-88.81	-194.84	-1,639.49	1,875.35	1,817.07	58.28	32.177	
8,400.00	8,369.54	8,395.07	8,359.54	29.82	30.00	-88.81	-194.84	-1,639.49	1,875.35	1,816.36	58.99	31.792	
8,500.00	8,469.54	8,495.07	8,459.54	30.17	30.35	-88.81	-194.84	-1,639.49	1,875.35	1,815.66	59.69	31.417	
8,600.00	8,569.54	8,595.07	8,559.54	30.52	30.70	-88.81	-194.84	-1,639.49	1,875.35	1,814.95	60.40	31.050	
8,700.00	8,669.54	8,695.07	8,659.54	30.87	31.05	-88.81	-194.84	-1,639.49	1,875.35	1,814.24	61.10	30.691	
8,800.00	8,769.54	8,795.07	8,759.54	31.22	31.40	-88.81	-194.84	-1,639.49	1,875.35	1,813.54	61.81	30.341	
8,900.00	8,869.54	8,895.07	8,859.54	31.57	31.75	-88.81	-194.84	-1,639.49	1,875.35	1,812.83	62.52	29.998	
9,000.00	8,969.54	8,995.07	8,959.54	31.93	32.10	-88.81	-194.84	-1,639.49	1,875.35	1,812.13	63.22	29.663	
9,100.00	9,069.54	9,095.07	9,059.54	32.28	32.44	-88.81	-194.84	-1,639.49	1,875.35	1,811.42	63.93	29.335	
9,200.00	9,169.54	9,195.07	9,159.54	32.63	32.79	-88.81	-194.84	-1,639.49	1,875.35	1,810.71	64.64	29.014	
9,300.00	9,269.54	9,295.07	9,259.54	32.98	33.14	-88.81	-194.84	-1,639.49	1,875.35	1,810.01	65.34	28.700	
9,400.00	9,369.54	9,395.07	9,359.54	33.33	33.50	-88.81	-194.84	-1,639.49	1,875.35	1,809.30	66.05	28.393	
9,500.00	9,469.54	9,495.07	9,459.54	33.68	33.85	-88.81	-194.84	-1,639.49	1,875.35	1,808.59	66.76	28.092	
9,600.00	9,569.54	9,595.07	9,559.54	34.04	34.20	-88.81	-194.84	-1,639.49	1,875.35	1,807.88	67.46	27.797	
9,700.00	9,669.54	9,695.07	9,659.54	34.39	34.55	-88.81	-194.84	-1,639.49	1,875.35	1,807.18	68.17	27.509	
9,800.00	9,769.54	9,795.07	9,759.54	34.74	34.90	-88.81	-194.84	-1,639.49	1,875.35	1,806.47	68.88	27.226	
9,900.00	9,869.54	9,895.07	9,859.54	35.09	35.25	-88.81	-194.84	-1,639.49	1,875.35	1,805.76	69.59	26.949	
10,000.00	9,969.54	9,995.07	9,959.54	35.45	35.60	-88.81	-194.84	-1,639.49	1,875.35	1,805.05	70.30	26.677	
10,100.00	10,069.54	10,095.07	10,059.54	35.80	35.95	-88.81	-194.84	-1,639.49	1,875.35	1,804.34	71.01	26.411	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #2											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	Warning
10,200.00	10,169.54	10,195.07	10,159.54	36.15	36.30	-88.81	-194.84	-1,639.49	1,875.35	1,803.63	71.71	26.150
10,300.00	10,269.54	10,295.07	10,259.54	36.51	36.65	-88.81	-194.84	-1,639.49	1,875.35	1,802.92	72.42	25.894
10,400.00	10,369.54	10,395.07	10,359.54	36.86	37.01	-88.81	-194.84	-1,639.49	1,875.35	1,802.22	73.13	25.643
10,500.00	10,469.54	10,495.07	10,459.54	37.21	37.36	-88.81	-194.84	-1,639.49	1,875.35	1,801.51	73.84	25.397
10,600.00	10,569.54	10,595.07	10,559.54	37.57	37.71	-88.81	-194.84	-1,639.49	1,875.35	1,800.80	74.55	25.155
10,700.00	10,669.54	10,695.07	10,659.54	37.92	38.06	-88.81	-194.84	-1,639.49	1,875.35	1,800.09	75.26	24.918
10,708.08	10,677.62	10,703.15	10,667.62	37.95	38.09	-88.81	-194.84	-1,639.49	1,875.35	1,800.03	75.32	24.899
10,800.00	10,769.54	10,788.03	10,752.51	38.27	38.39	-88.81	-194.68	-1,639.51	1,875.39	1,799.44	75.95	24.694
10,900.00	10,869.54	10,850.00	10,814.26	38.63	38.60	-88.66	-189.93	-1,640.18	1,876.69	1,800.19	76.50	24.531
11,000.00	10,969.45	10,916.79	10,879.81	38.98	38.82	-87.76	-177.45	-1,641.93	1,879.82	1,802.78	77.04	24.399
11,100.00	11,067.64	10,979.70	10,939.82	39.30	39.02	-87.09	-158.87	-1,644.54	1,884.32	1,806.81	77.51	24.310
11,200.00	11,161.16	11,050.00	11,003.99	39.59	39.22	-86.44	-130.54	-1,648.52	1,889.94	1,811.98	77.96	24.243
11,300.00	11,247.17	11,100.00	11,047.26	39.83	39.35	-85.82	-105.76	-1,652.01	1,896.41	1,818.15	78.26	24.233
11,400.00	11,323.06	11,167.24	11,101.69	40.03	39.50	-85.28	-66.73	-1,657.49	1,903.59	1,824.97	78.61	24.214
11,500.00	11,386.52	11,229.92	11,147.95	40.18	39.62	-84.79	-24.90	-1,663.37	1,911.32	1,832.37	78.95	24.209
11,600.00	11,435.62	11,300.00	11,193.87	40.33	39.74	-84.44	27.47	-1,670.73	1,919.47	1,840.13	79.34	24.193
11,700.00	11,468.88	11,350.00	11,222.50	40.54	39.81	-84.02	68.04	-1,676.43	1,927.89	1,848.21	79.68	24.196
11,800.00	11,485.28	11,421.27	11,256.92	40.77	39.91	-83.87	129.79	-1,685.11	1,936.51	1,856.35	80.15	24.160
11,900.00	11,486.77	11,487.77	11,281.82	41.03	40.04	-84.20	190.81	-1,693.69	1,945.55	1,864.90	80.64	24.125
12,000.00	11,486.33	11,559.34	11,300.46	41.36	40.23	-84.78	259.20	-1,703.30	1,956.14	1,874.95	81.20	24.091
12,100.00	11,485.90	11,634.83	11,310.63	41.74	40.46	-85.11	333.21	-1,713.70	1,968.14	1,886.33	81.81	24.059
12,200.00	11,485.46	11,723.41	11,312.29	42.19	40.75	-85.20	420.89	-1,726.02	1,981.14	1,898.63	82.52	24.009
12,300.00	11,485.02	12,086.31	11,314.30	42.70	42.37	-85.36	782.46	-1,751.65	1,986.84	1,902.29	84.54	23.501
12,400.00	11,484.59	12,186.31	11,314.86	43.26	42.93	-85.39	882.45	-1,752.31	1,986.76	1,901.10	85.66	23.193
12,500.00	11,484.15	12,286.31	11,315.41	43.88	43.55	-85.42	982.45	-1,752.98	1,986.68	1,899.79	86.89	22.864
12,600.00	11,483.71	12,386.30	11,315.96	44.55	44.22	-85.45	1,082.44	-1,753.65	1,986.61	1,898.38	88.23	22.517
12,700.00	11,483.27	12,486.30	11,316.51	45.27	44.93	-85.47	1,182.43	-1,754.31	1,986.53	1,896.86	89.67	22.154
12,800.00	11,482.83	12,586.29	11,317.06	46.04	45.70	-85.50	1,282.42	-1,754.98	1,986.45	1,895.25	91.20	21.780
12,900.00	11,482.39	12,686.29	11,317.61	46.85	46.52	-85.53	1,382.41	-1,755.65	1,986.38	1,893.55	92.83	21.398
13,000.00	11,481.95	12,786.28	11,318.16	47.71	47.37	-85.56	1,482.40	-1,756.31	1,986.30	1,891.76	94.55	21.008
13,100.00	11,481.52	12,886.28	11,318.71	48.61	48.27	-85.59	1,582.39	-1,756.98	1,986.23	1,889.88	96.35	20.615
13,200.00	11,481.08	12,986.27	11,319.26	49.55	49.21	-85.62	1,682.39	-1,757.64	1,986.16	1,887.93	98.22	20.220
13,300.00	11,480.64	13,086.27	11,319.81	50.52	50.18	-85.64	1,782.38	-1,758.31	1,986.08	1,885.90	100.18	19.826
13,400.00	11,480.20	13,186.26	11,320.36	51.53	51.19	-85.67	1,882.37	-1,758.98	1,986.01	1,883.81	102.20	19.433
13,500.00	11,479.75	13,286.26	11,320.91	52.57	52.23	-85.70	1,982.36	-1,759.64	1,985.94	1,881.65	104.29	19.043
13,600.00	11,479.31	13,386.25	11,321.47	53.65	53.31	-85.73	2,082.35	-1,760.31	1,985.86	1,879.43	106.43	18.658
13,700.00	11,478.87	13,486.25	11,322.02	54.75	54.41	-85.76	2,182.34	-1,760.98	1,985.79	1,877.15	108.64	18.278
13,800.00	11,478.43	13,586.24	11,322.57	55.88	55.54	-85.79	2,282.33	-1,761.64	1,985.72	1,874.81	110.90	17.905
13,900.00	11,477.99	13,686.24	11,323.12	57.03	56.70	-85.82	2,382.33	-1,762.31	1,985.65	1,872.43	113.22	17.538
14,000.00	11,477.55	13,786.23	11,323.67	58.21	57.88	-85.84	2,482.32	-1,762.97	1,985.58	1,870.00	115.58	17.179
14,100.00	11,477.11	13,886.23	11,324.22	59.41	59.08	-85.87	2,582.31	-1,763.64	1,985.51	1,867.52	117.99	16.828
14,200.00	11,476.66	13,986.22	11,324.77	60.64	60.30	-85.90	2,682.30	-1,764.31	1,985.43	1,865.00	120.44	16.485
14,300.00	11,476.22	14,086.22	11,325.32	61.88	61.55	-85.93	2,782.29	-1,764.97	1,985.36	1,862.43	122.93	16.150
14,400.00	11,475.78	14,186.21	11,325.87	63.14	62.81	-85.96	2,882.28	-1,765.64	1,985.30	1,859.84	125.46	15.824
14,500.00	11,475.34	14,286.21	11,326.42	64.42	64.09	-85.99	2,982.27	-1,766.31	1,985.23	1,857.20	128.02	15.507
14,600.00	11,474.89	14,386.20	11,326.97	65.72	65.39	-86.02	3,082.26	-1,766.97	1,985.16	1,854.54	130.62	15.198
14,700.00	11,474.45	14,486.20	11,327.52	67.03	66.70	-86.04	3,182.26	-1,767.64	1,985.09	1,851.84	133.25	14.897
14,800.00	11,474.00	14,586.19	11,328.08	68.36	68.03	-86.07	3,282.25	-1,768.30	1,985.02	1,849.11	135.91	14.605
14,900.00	11,473.56	14,686.19	11,328.63	69.70	69.38	-86.10	3,382.24	-1,768.97	1,984.95	1,846.36	138.60	14.322
15,000.00	11,473.12	14,786.18	11,329.18	71.06	70.73	-86.13	3,482.23	-1,769.64	1,984.89	1,843.58	141.31	14.046
15,100.00	11,472.67	14,886.18	11,329.73	72.43	72.10	-86.16	3,582.22	-1,770.30	1,984.82	1,840.77	144.05	13.779

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #2											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
Depth	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
15,200.00	11,472.23	14,986.17	11,330.28	73.81	73.48	-86.19	3,682.21	-1,770.97	1,984.75	1,837.94	146.81	13.519
15,300.00	11,471.78	15,086.17	11,330.83	75.20	74.87	-86.22	3,782.20	-1,771.64	1,984.69	1,835.09	149.60	13.267
15,400.00	11,471.34	15,186.16	11,331.38	76.60	76.28	-86.25	3,882.19	-1,772.30	1,984.62	1,832.22	152.40	13.022
15,500.00	11,470.89	15,286.16	11,331.93	78.01	77.69	-86.27	3,982.19	-1,772.97	1,984.56	1,829.33	155.23	12.785
15,600.00	11,470.44	15,386.15	11,332.48	79.43	79.11	-86.30	4,082.18	-1,773.63	1,984.49	1,826.42	158.07	12.554
15,700.00	11,470.00	15,486.15	11,333.03	80.86	80.54	-86.33	4,182.17	-1,774.30	1,984.43	1,823.49	160.94	12.331
15,800.00	11,469.55	15,586.14	11,333.58	82.30	81.98	-86.36	4,282.16	-1,774.97	1,984.36	1,820.55	163.82	12.113
15,900.00	11,469.10	15,686.14	11,334.14	83.74	83.43	-86.39	4,382.15	-1,775.63	1,984.30	1,817.59	166.71	11.903
16,000.00	11,468.66	15,786.13	11,334.69	85.20	84.88	-86.42	4,482.14	-1,776.30	1,984.23	1,814.61	169.62	11.698
16,100.00	11,468.21	15,886.13	11,335.24	86.66	86.34	-86.45	4,582.13	-1,776.97	1,984.17	1,811.62	172.55	11.499
16,200.00	11,467.76	15,986.12	11,335.79	88.13	87.81	-86.48	4,682.13	-1,777.63	1,984.11	1,808.62	175.49	11.306
16,300.00	11,467.32	16,086.12	11,336.34	89.60	89.29	-86.50	4,782.12	-1,778.30	1,984.05	1,805.61	178.44	11.119
16,400.00	11,466.87	16,186.11	11,336.89	91.08	90.77	-86.53	4,882.11	-1,778.96	1,983.99	1,802.58	181.41	10.937
16,500.00	11,466.42	16,286.11	11,337.44	92.57	92.26	-86.56	4,982.10	-1,779.63	1,983.92	1,799.54	184.38	10.760
16,600.00	11,465.97	16,386.10	11,337.99	94.06	93.75	-86.59	5,082.09	-1,780.30	1,983.86	1,796.49	187.37	10.588
16,700.00	11,465.52	16,486.10	11,338.54	95.56	95.25	-86.62	5,182.08	-1,780.96	1,983.80	1,793.43	190.37	10.421
16,800.00	11,465.07	16,586.09	11,339.09	97.06	96.75	-86.65	5,282.07	-1,781.63	1,983.74	1,790.36	193.38	10.258
16,900.00	11,464.62	16,686.09	11,339.64	98.57	98.26	-86.68	5,382.06	-1,782.29	1,983.68	1,787.28	196.40	10.100
17,000.00	11,464.17	16,786.08	11,340.19	100.08	99.78	-86.71	5,482.06	-1,782.96	1,983.62	1,784.20	199.43	9.947
17,100.00	11,463.72	16,886.08	11,340.75	101.60	101.29	-86.73	5,582.05	-1,783.63	1,983.56	1,781.10	202.46	9.797
17,200.00	11,463.27	16,986.07	11,341.30	103.12	102.82	-86.76	5,682.04	-1,784.29	1,983.51	1,777.99	205.51	9.652
17,300.00	11,462.82	17,086.07	11,341.85	104.65	104.34	-86.79	5,782.03	-1,784.96	1,983.45	1,774.88	208.56	9.510
17,400.00	11,462.37	17,186.06	11,342.40	106.18	105.87	-86.82	5,882.02	-1,785.63	1,983.39	1,771.76	211.63	9.372
17,500.00	11,461.92	17,286.06	11,342.95	107.71	107.41	-86.85	5,982.01	-1,786.29	1,983.33	1,768.63	214.70	9.238
17,600.00	11,461.47	17,386.05	11,343.50	109.25	108.94	-86.88	6,082.00	-1,786.96	1,983.27	1,765.50	217.77	9.107
17,700.00	11,461.02	17,486.05	11,344.05	110.79	110.48	-86.91	6,181.99	-1,787.62	1,983.22	1,762.36	220.86	8.980
17,800.00	11,460.57	17,586.04	11,344.60	112.33	112.03	-86.94	6,281.99	-1,788.29	1,983.16	1,759.21	223.95	8.855
17,900.00	11,460.12	17,686.04	11,345.15	113.88	113.58	-86.97	6,381.98	-1,788.96	1,983.11	1,756.06	227.05	8.734
18,000.00	11,459.66	17,786.03	11,345.70	115.43	115.13	-87.00	6,481.97	-1,789.62	1,983.05	1,752.90	230.15	8.616
18,100.00	11,459.21	17,886.03	11,346.25	116.98	116.68	-87.02	6,581.96	-1,790.29	1,983.00	1,749.74	233.26	8.501
18,200.00	11,458.76	17,986.02	11,346.80	118.54	118.24	-87.05	6,681.95	-1,790.96	1,982.94	1,746.57	236.37	8.389
18,300.00	11,458.31	18,086.02	11,347.36	120.09	119.79	-87.08	6,781.94	-1,791.62	1,982.89	1,743.39	239.49	8.280
18,400.00	11,457.85	18,186.01	11,347.91	121.66	121.36	-87.11	6,881.93	-1,792.29	1,982.83	1,740.22	242.62	8.173
18,500.00	11,457.40	18,286.01	11,348.46	123.22	122.92	-87.14	6,981.92	-1,792.95	1,982.78	1,737.03	245.75	8.068
18,600.00	11,456.95	18,386.00	11,349.01	124.78	124.49	-87.17	7,081.92	-1,793.62	1,982.73	1,733.84	248.88	7.967
18,700.00	11,456.49	18,486.00	11,349.56	126.35	126.05	-87.20	7,181.91	-1,794.29	1,982.67	1,730.65	252.02	7.867
18,800.00	11,456.04	18,585.99	11,350.11	127.92	127.62	-87.23	7,281.90	-1,794.95	1,982.62	1,727.46	255.17	7.770
18,900.00	11,455.58	18,685.99	11,350.66	129.50	129.20	-87.26	7,381.89	-1,795.62	1,982.57	1,724.25	258.31	7.675
19,000.00	11,455.13	18,785.98	11,351.21	131.07	130.77	-87.28	7,481.88	-1,796.29	1,982.52	1,721.05	261.47	7.582
19,100.00	11,454.67	18,885.98	11,351.76	132.65	132.35	-87.31	7,581.87	-1,796.95	1,982.47	1,717.84	264.62	7.492
19,200.00	11,454.22	18,985.97	11,352.31	134.22	133.93	-87.34	7,681.86	-1,797.62	1,982.42	1,714.63	267.78	7.403
19,300.00	11,453.76	19,085.97	11,352.86	135.80	135.51	-87.37	7,781.85	-1,798.28	1,982.37	1,711.42	270.95	7.316
19,400.00	11,453.31	19,185.96	11,353.41	137.39	137.09	-87.40	7,881.84	-1,798.95	1,982.32	1,708.20	274.12	7.232
19,500.00	11,452.85	19,285.96	11,353.97	138.97	138.68	-87.43	7,981.84	-1,799.62	1,982.27	1,704.98	277.29	7.149
19,600.00	11,452.39	19,385.95	11,354.52	140.56	140.26	-87.46	8,081.83	-1,800.28	1,982.22	1,701.75	280.46	7.068
19,700.00	11,451.94	19,485.95	11,355.07	142.14	141.85	-87.49	8,181.82	-1,800.95	1,982.17	1,698.53	283.64	6.988
19,800.00	11,451.48	19,585.94	11,355.62	143.73	143.44	-87.52	8,281.81	-1,801.62	1,982.12	1,695.30	286.82	6.911
19,900.00	11,451.02	19,685.94	11,356.17	145.32	145.03	-87.55	8,381.80	-1,802.28	1,982.07	1,692.07	290.01	6.835
20,000.00	11,450.57	19,785.93	11,356.72	146.91	146.62	-87.58	8,481.79	-1,802.95	1,982.03	1,688.83	293.19	6.760
20,100.00	11,450.11	19,885.93	11,357.27	148.51	148.21	-87.60	8,581.78	-1,803.61	1,981.98	1,685.59	296.38	6.687
20,200.00	11,449.65	19,985.92	11,357.82	150.10	149.81	-87.63	8,681.77	-1,804.28	1,981.93	1,682.36	299.58	6.616

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #2											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
									Minimum Separation (usft)	Separation Factor		
20,300.00	11,449.19	20,085.92	11,358.37	151.70	151.40	-87.66	8,781.77	-1,804.95	1,981.89	1,679.11	302.77	6.546
20,400.00	11,448.73	20,185.91	11,358.92	153.29	153.00	-87.69	8,881.76	-1,805.61	1,981.84	1,675.87	305.97	6.477
20,500.00	11,448.27	20,285.91	11,359.47	154.89	154.60	-87.72	8,981.75	-1,806.28	1,981.80	1,672.62	309.17	6.410
20,600.00	11,447.82	20,385.90	11,360.03	156.49	156.20	-87.75	9,081.74	-1,806.95	1,981.75	1,669.38	312.37	6.344
20,700.00	11,447.36	20,485.90	11,360.58	158.09	157.80	-87.78	9,181.73	-1,807.61	1,981.71	1,666.13	315.58	6.280
20,800.00	11,446.90	20,585.89	11,361.13	159.70	159.40	-87.81	9,281.72	-1,808.28	1,981.66	1,662.87	318.79	6.216
20,900.00	11,446.44	20,685.89	11,361.68	161.30	161.01	-87.84	9,381.71	-1,808.94	1,981.62	1,659.62	322.00	6.154
21,000.00	11,445.98	20,785.88	11,362.23	162.90	162.61	-87.87	9,481.70	-1,809.61	1,981.57	1,656.36	325.21	6.093
21,100.00	11,445.52	20,885.88	11,362.78	164.51	164.21	-87.90	9,581.69	-1,810.28	1,981.53	1,653.11	328.42	6.033
21,200.00	11,445.06	20,985.87	11,363.33	166.11	165.82	-87.93	9,681.69	-1,810.94	1,981.49	1,649.85	331.64	5.975
21,300.00	11,444.60	21,085.87	11,363.88	167.72	167.43	-87.95	9,781.68	-1,811.61	1,981.45	1,646.59	334.86	5.917
21,400.00	11,444.14	21,185.86	11,364.43	169.33	169.04	-87.98	9,881.67	-1,812.27	1,981.41	1,643.33	338.08	5.861
21,500.00	11,443.67	21,285.85	11,364.98	170.94	170.64	-88.01	9,981.66	-1,812.94	1,981.36	1,640.06	341.30	5.805
21,600.00	11,443.21	21,385.85	11,365.53	172.55	172.25	-88.04	10,081.65	-1,813.61	1,981.32	1,636.80	344.52	5.751
21,700.00	11,442.75	21,485.84	11,366.08	174.16	173.87	-88.07	10,181.64	-1,814.27	1,981.28	1,633.53	347.75	5.697
21,800.00	11,442.29	21,585.84	11,366.64	175.77	175.48	-88.10	10,281.63	-1,814.94	1,981.24	1,630.27	350.98	5.645
21,862.35	11,442.00	21,648.18	11,366.98	176.77	176.48	-88.12	10,343.97	-1,815.36	1,981.22	1,628.23	352.99	5.613 SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-90.31	-0.40	-75.00	75.00				
100.00	100.00	100.00	100.00	0.13	0.13	-90.31	-0.40	-75.00	75.00	74.74	0.27	278.978	
200.00	200.00	200.00	200.00	0.49	0.49	-90.31	-0.40	-75.00	75.00	74.02	0.99	76.085	
300.00	300.00	300.00	300.00	0.85	0.85	-90.31	-0.40	-75.00	75.00	73.30	1.70	44.049	
400.00	400.00	400.00	400.00	1.21	1.21	-90.31	-0.40	-75.00	75.00	72.58	2.42	30.998	
500.00	500.00	500.00	500.00	1.57	1.57	-90.31	-0.40	-75.00	75.00	71.87	3.14	23.912	
600.00	600.00	600.00	600.00	1.93	1.93	-90.31	-0.40	-75.00	75.00	71.15	3.85	19.464	
700.00	700.00	700.00	700.00	2.29	2.29	-90.31	-0.40	-75.00	75.00	70.43	4.57	16.410	
800.00	800.00	800.00	800.00	2.64	2.64	-90.31	-0.40	-75.00	75.00	69.72	5.29	14.185	
900.00	900.00	900.00	900.00	3.00	3.00	-90.31	-0.40	-75.00	75.00	69.00	6.00	12.492	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.31	-0.40	-75.00	75.00	68.28	6.72	11.159	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.31	-0.40	-75.00	75.00	67.57	7.44	10.084	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-90.31	-0.40	-75.00	75.00	66.85	8.16	9.197	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-90.31	-0.40	-75.00	75.00	66.13	8.87	8.454	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.31	-0.40	-75.00	75.00	65.42	9.59	7.822	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-90.31	-0.40	-75.00	75.00	64.70	10.31	7.278	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-90.31	-0.40	-75.00	75.00	63.98	11.02	6.804	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-90.31	-0.40	-75.00	75.00	63.26	11.74	6.389	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-90.31	-0.40	-75.00	75.00	62.55	12.46	6.021	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-90.31	-0.40	-75.00	75.00	61.83	13.17	5.693	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-90.31	-0.40	-75.00	75.00	61.11	13.89	5.400 CC, ES	
2,100.00	2,099.98	2,097.80	2,097.78	7.29	7.28	135.08	-1.34	-76.38	77.65	63.09	14.56	5.332	
2,200.00	2,199.84	2,195.19	2,195.04	7.62	7.61	135.52	-4.13	-80.50	85.60	70.40	15.20	5.631	
2,300.00	2,299.45	2,291.76	2,291.26	7.95	7.93	136.07	-8.73	-87.29	98.80	82.97	15.83	6.242	
2,400.00	2,398.70	2,387.13	2,385.95	8.30	8.26	136.59	-15.06	-96.62	117.19	100.75	16.45	7.126	
2,500.00	2,497.47	2,480.92	2,478.67	8.65	8.59	137.01	-23.00	-108.33	140.70	123.64	17.06	8.249	
2,600.00	2,595.62	2,572.80	2,568.99	9.01	8.92	137.29	-32.43	-122.24	169.19	151.53	17.66	9.581	
2,700.00	2,693.44	2,666.38	2,660.55	9.39	9.27	137.72	-43.28	-138.24	200.75	182.43	18.32	10.961	
2,800.00	2,791.25	2,761.22	2,753.32	9.77	9.64	138.02	-54.35	-154.56	232.42	213.42	19.00	12.230	
2,900.00	2,889.07	2,856.07	2,846.10	10.17	10.01	138.25	-65.42	-170.88	264.09	244.39	19.70	13.404	
3,000.00	2,886.88	2,950.92	2,938.87	10.57	10.40	138.43	-76.49	-187.20	295.77	275.36	20.41	14.490	
3,100.00	3,084.70	3,045.76	3,031.65	10.99	10.78	138.57	-87.55	-203.52	327.45	306.32	21.13	15.498	
3,200.00	3,182.51	3,140.61	3,124.42	11.41	11.18	138.69	-98.62	-219.84	359.13	337.27	21.85	16.433	
3,300.00	3,280.33	3,235.46	3,217.19	11.83	11.58	138.79	-109.69	-236.16	390.81	368.22	22.59	17.302	
3,400.00	3,378.14	3,330.30	3,309.97	12.26	11.99	138.88	-120.76	-252.48	422.49	399.17	23.33	18.112	
3,500.00	3,475.96	3,425.15	3,402.74	12.69	12.40	138.95	-131.83	-268.80	454.18	430.10	24.07	18.868	
3,600.00	3,573.77	3,520.00	3,495.52	13.13	12.81	139.04	-142.89	-285.12	485.85	461.03	24.82	19.573	
3,700.00	3,671.97	3,615.30	3,588.74	13.57	13.23	139.36	-154.02	-301.52	516.11	490.54	25.57	20.181	
3,800.00	3,770.78	3,711.33	3,682.67	13.98	13.66	139.40	-165.22	-318.05	543.85	517.52	26.32	20.660	
3,900.00	3,870.05	3,807.96	3,777.19	14.38	14.09	139.20	-176.50	-334.68	569.06	541.99	27.07	21.021	
4,000.00	3,969.69	3,905.08	3,872.18	14.75	14.53	138.78	-187.83	-351.39	591.77	563.96	27.81	21.278	
4,100.00	4,069.56	4,002.57	3,967.54	15.11	14.97	138.17	-199.21	-368.16	612.03	583.49	28.54	21.442	
4,200.00	4,169.54	4,115.84	4,078.60	15.44	15.47	-87.98	-211.70	-386.58	629.04	599.62	29.42	21.384	
4,300.00	4,269.54	4,236.42	4,197.67	15.77	15.98	-88.98	-222.34	-402.28	641.88	611.56	30.32	21.170	
4,400.00	4,369.54	4,358.43	4,318.85	16.10	16.47	-89.70	-230.25	-413.93	651.38	620.19	31.19	20.885	
4,500.00	4,469.54	4,481.42	4,441.51	16.43	16.93	-90.14	-235.27	-421.35	657.41	625.39	32.01	20.535	
4,600.00	4,569.54	4,604.96	4,564.99	16.76	17.35	-90.32	-237.34	-424.40	659.89	627.09	32.79	20.123	
4,700.00	4,669.54	4,709.52	4,669.54	17.09	17.69	-90.33	-237.40	-424.48	659.95	626.48	33.48	19.713	
4,800.00	4,769.54	4,809.52	4,769.54	17.43	18.01	-90.33	-237.40	-424.48	659.95	625.80	34.15	19.324	
4,900.00	4,869.54	4,909.52	4,869.54	17.76	18.33	-90.33	-237.40	-424.48	659.95	625.13	34.83	18.949	
5,000.00	4,969.54	5,009.52	4,969.54	18.10	18.65	-90.33	-237.40	-424.48	659.95	624.45	35.50	18.588	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,069.54	5,109.52	5,069.54	18.43	18.98	-90.33	-237.40	-424.48	659.95	623.77	36.18	18.240		
5,200.00	5,169.54	5,209.52	5,169.54	18.77	19.31	-90.33	-237.40	-424.48	659.95	623.09	36.86	17.903		
5,300.00	5,269.54	5,309.52	5,269.54	19.11	19.63	-90.33	-237.40	-424.48	659.95	622.41	37.54	17.578		
5,400.00	5,369.54	5,409.52	5,369.54	19.45	19.96	-90.33	-237.40	-424.48	659.95	621.73	38.23	17.265		
5,500.00	5,469.54	5,509.52	5,469.54	19.79	20.29	-90.33	-237.40	-424.48	659.95	621.04	38.91	16.961		
5,600.00	5,569.54	5,609.52	5,569.54	20.13	20.62	-90.33	-237.40	-424.48	659.95	620.36	39.59	16.668		
5,700.00	5,669.54	5,709.52	5,669.54	20.47	20.95	-90.33	-237.40	-424.48	659.95	619.67	40.28	16.384		
5,800.00	5,769.54	5,809.52	5,769.54	20.81	21.29	-90.33	-237.40	-424.48	659.95	618.99	40.97	16.109		
5,900.00	5,869.54	5,909.52	5,869.54	21.15	21.62	-90.33	-237.40	-424.48	659.95	618.30	41.66	15.843		
6,000.00	5,969.54	6,009.52	5,969.54	21.49	21.95	-90.33	-237.40	-424.48	659.95	617.61	42.34	15.585		
6,100.00	6,069.54	6,109.52	6,069.54	21.83	22.29	-90.33	-237.40	-424.48	659.95	616.92	43.03	15.335		
6,200.00	6,169.54	6,209.52	6,169.54	22.18	22.62	-90.33	-237.40	-424.48	659.95	616.23	43.73	15.093		
6,300.00	6,269.54	6,309.52	6,269.54	22.52	22.96	-90.33	-237.40	-424.48	659.95	615.54	44.42	14.858		
6,400.00	6,369.54	6,409.52	6,369.54	22.87	23.30	-90.33	-237.40	-424.48	659.95	614.84	45.11	14.630		
6,500.00	6,469.54	6,509.52	6,469.54	23.21	23.63	-90.33	-237.40	-424.48	659.95	614.15	45.80	14.409		
6,600.00	6,569.54	6,609.52	6,569.54	23.56	23.97	-90.33	-237.40	-424.48	659.95	613.46	46.50	14.194		
6,700.00	6,669.54	6,709.52	6,669.54	23.90	24.31	-90.33	-237.40	-424.48	659.95	612.76	47.19	13.985		
6,800.00	6,769.54	6,809.52	6,769.54	24.25	24.65	-90.33	-237.40	-424.48	659.95	612.07	47.89	13.782		
6,900.00	6,869.54	6,909.52	6,869.54	24.59	24.99	-90.33	-237.40	-424.48	659.95	611.37	48.58	13.584		
7,000.00	6,969.54	7,009.52	6,969.54	24.94	25.33	-90.33	-237.40	-424.48	659.95	610.67	49.28	13.392		
7,100.00	7,069.54	7,109.52	7,069.54	25.29	25.67	-90.33	-237.40	-424.48	659.95	609.98	49.98	13.205		
7,200.00	7,169.54	7,209.52	7,169.54	25.63	26.01	-90.33	-237.40	-424.48	659.95	609.28	50.67	13.024		
7,300.00	7,269.54	7,309.52	7,269.54	25.98	26.35	-90.33	-237.40	-424.48	659.95	608.58	51.37	12.847		
7,400.00	7,369.54	7,409.52	7,369.54	26.33	26.70	-90.33	-237.40	-424.48	659.95	607.88	52.07	12.674		
7,500.00	7,469.54	7,509.52	7,469.54	26.68	27.04	-90.33	-237.40	-424.48	659.95	607.18	52.77	12.506		
7,600.00	7,569.54	7,609.52	7,569.54	27.03	27.38	-90.33	-237.40	-424.48	659.95	606.48	53.47	12.343		
7,700.00	7,669.54	7,709.52	7,669.54	27.37	27.73	-90.33	-237.40	-424.48	659.95	605.78	54.17	12.183		
7,800.00	7,769.54	7,809.52	7,769.54	27.72	28.07	-90.33	-237.40	-424.48	659.95	605.08	54.87	12.028		
7,900.00	7,869.54	7,909.52	7,869.54	28.07	28.41	-90.33	-237.40	-424.48	659.95	604.38	55.57	11.876		
8,000.00	7,969.54	8,009.52	7,969.54	28.42	28.76	-90.33	-237.40	-424.48	659.95	603.68	56.27	11.728		
8,100.00	8,069.54	8,109.52	8,069.54	28.77	29.10	-90.33	-237.40	-424.48	659.95	602.98	56.97	11.583		
8,200.00	8,169.54	8,209.52	8,169.54	29.12	29.45	-90.33	-237.40	-424.48	659.95	602.28	57.68	11.442		
8,300.00	8,269.54	8,309.52	8,269.54	29.47	29.79	-90.33	-237.40	-424.48	659.95	601.58	58.38	11.305		
8,400.00	8,369.54	8,409.52	8,369.54	29.82	30.14	-90.33	-237.40	-424.48	659.95	600.87	59.08	11.170		
8,500.00	8,469.54	8,509.52	8,469.54	30.17	30.49	-90.33	-237.40	-424.48	659.95	600.17	59.78	11.039		
8,600.00	8,569.54	8,609.52	8,569.54	30.52	30.83	-90.33	-237.40	-424.48	659.95	599.47	60.49	10.911		
8,700.00	8,669.54	8,709.52	8,669.54	30.87	31.18	-90.33	-237.40	-424.48	659.95	598.76	61.19	10.785		
8,800.00	8,769.54	8,809.52	8,769.54	31.22	31.53	-90.33	-237.40	-424.48	659.95	598.06	61.90	10.662		
8,900.00	8,869.54	8,909.52	8,869.54	31.57	31.87	-90.33	-237.40	-424.48	659.95	597.35	62.60	10.542		
9,000.00	8,969.54	9,009.52	8,969.54	31.93	32.22	-90.33	-237.40	-424.48	659.95	596.65	63.30	10.425		
9,100.00	9,069.54	9,109.52	9,069.54	32.28	32.57	-90.33	-237.40	-424.48	659.95	595.94	64.01	10.310		
9,200.00	9,169.54	9,209.52	9,169.54	32.63	32.92	-90.33	-237.40	-424.48	659.95	595.24	64.71	10.198		
9,300.00	9,269.54	9,309.52	9,269.54	32.98	33.26	-90.33	-237.40	-424.48	659.95	594.53	65.42	10.088		
9,400.00	9,369.54	9,409.52	9,369.54	33.33	33.61	-90.33	-237.40	-424.48	659.95	593.83	66.13	9.980		
9,500.00	9,469.54	9,509.52	9,469.54	33.68	33.96	-90.33	-237.40	-424.48	659.95	593.12	66.83	9.875		
9,600.00	9,569.54	9,609.52	9,569.54	34.04	34.31	-90.33	-237.40	-424.48	659.95	592.42	67.54	9.772		
9,700.00	9,669.54	9,709.52	9,669.54	34.39	34.66	-90.33	-237.40	-424.48	659.95	591.71	68.24	9.670		
9,800.00	9,769.54	9,809.52	9,769.54	34.74	35.01	-90.33	-237.40	-424.48	659.95	591.00	68.95	9.571		
9,900.00	9,869.54	9,909.52	9,869.54	35.09	35.36	-90.33	-237.40	-424.48	659.95	590.30	69.66	9.474		
10,000.00	9,969.54	10,009.52	9,969.54	35.45	35.71	-90.33	-237.40	-424.48	659.95	589.59	70.37	9.379		
10,100.00	10,069.54	10,109.52	10,069.54	35.80	36.06	-90.33	-237.40	-424.48	659.95	588.88	71.07	9.286		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD				Reference		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0.00 usft	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance				Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,200.00	10,169.54	10,209.52	10,169.54	36.15	36.41	-90.33	-237.40	-424.48	659.95	588.17	71.78	9.194			
10,300.00	10,269.54	10,309.52	10,269.54	36.51	36.76	-90.33	-237.40	-424.48	659.95	587.47	72.49	9.104			
10,400.00	10,369.54	10,409.52	10,369.54	36.86	37.11	-90.33	-237.40	-424.48	659.95	586.76	73.20	9.016			
10,500.00	10,469.54	10,509.52	10,469.54	37.21	37.46	-90.33	-237.40	-424.48	659.95	586.05	73.90	8.930			
10,600.00	10,569.54	10,609.52	10,569.54	37.57	37.81	-90.33	-237.40	-424.48	659.95	585.34	74.61	8.845			
10,700.00	10,669.54	10,709.52	10,669.54	37.92	38.16	-90.33	-237.40	-424.48	659.95	584.63	75.32	8.762			
10,800.00	10,769.54	10,809.52	10,769.54	38.27	38.51	-90.33	-237.40	-424.48	659.95	583.93	76.03	8.680			
10,807.28	10,776.82	10,816.79	10,776.82	38.30	38.53	-90.33	-237.40	-424.48	659.95	583.87	76.08	8.675			
10,900.00	10,869.54	10,908.80	10,868.51	38.63	38.85	-89.78	-231.14	-424.52	659.99	583.27	76.73	8.602			
11,000.00	10,969.45	11,003.94	10,961.02	38.98	39.15	-87.69	-209.38	-424.67	660.52	583.14	77.38	8.536			
11,100.00	11,067.64	11,095.68	11,045.64	39.30	39.40	-85.91	-174.19	-424.90	661.71	583.77	77.94	8.490			
11,200.00	11,161.16	11,184.80	11,121.45	39.59	39.60	-84.26	-127.51	-425.21	663.39	584.99	78.40	8.462			
11,300.00	11,247.17	11,271.76	11,187.58	39.83	39.75	-82.79	-71.18	-425.59	665.35	586.60	78.75	8.449			
11,400.00	11,323.06	11,356.95	11,243.38	40.03	39.87	-81.51	-6.91	-426.01	667.39	588.38	79.01	8.447			
11,500.00	11,386.52	11,440.76	11,288.39	40.18	39.94	-80.47	63.69	-426.48	669.30	590.08	79.22	8.448			
11,600.00	11,435.62	11,523.53	11,322.28	40.33	39.98	-79.67	139.13	-426.98	670.89	591.46	79.44	8.446			
11,700.00	11,468.88	11,605.58	11,344.80	40.54	40.10	-79.14	217.96	-427.50	672.02	592.32	79.70	8.432			
11,800.00	11,485.28	11,687.22	11,355.82	40.77	40.31	-78.88	298.78	-428.04	672.58	592.53	80.05	8.402			
11,900.00	11,486.77	11,779.26	11,357.16	41.03	40.57	-78.89	390.79	-428.65	672.56	592.02	80.54	8.351			
12,000.00	11,486.33	11,879.26	11,357.46	41.36	40.91	-78.95	490.79	-429.31	672.42	591.24	81.18	8.283			
12,100.00	11,485.90	11,979.26	11,357.76	41.74	41.30	-79.01	590.78	-429.98	672.28	590.34	81.94	8.205			
12,200.00	11,485.46	12,079.25	11,358.05	42.19	41.76	-79.07	690.77	-430.64	672.14	589.32	82.82	8.116			
12,300.00	11,485.02	12,179.25	11,358.35	42.70	42.27	-79.14	790.77	-431.30	672.00	588.18	83.82	8.017			
12,400.00	11,484.59	12,279.25	11,358.65	43.26	42.84	-79.20	890.76	-431.97	671.86	586.93	84.93	7.910			
12,500.00	11,484.15	12,379.24	11,358.95	43.88	43.46	-79.26	990.76	-432.63	671.73	585.57	86.16	7.797			
12,600.00	11,483.71	12,479.24	11,359.24	44.55	44.13	-79.32	1,090.75	-433.30	671.59	584.10	87.49	7.677			
12,700.00	11,483.27	12,579.24	11,359.54	45.27	44.85	-79.38	1,190.74	-433.96	671.45	582.54	88.91	7.552			
12,800.00	11,482.83	12,679.23	11,359.84	46.04	45.63	-79.44	1,290.74	-434.62	671.32	580.88	90.44	7.423			
12,900.00	11,482.39	12,779.23	11,360.13	46.85	46.44	-79.50	1,390.73	-435.29	671.18	579.13	92.06	7.291			
13,000.00	11,481.95	12,879.23	11,360.43	47.71	47.31	-79.57	1,490.73	-435.95	671.05	577.29	93.76	7.157			
13,100.00	11,481.52	12,979.22	11,360.73	48.61	48.21	-79.63	1,590.72	-436.62	670.92	575.37	95.54	7.022			
13,200.00	11,481.08	13,079.22	11,361.03	49.55	49.15	-79.69	1,690.71	-437.28	670.79	573.38	97.41	6.886			
13,300.00	11,480.64	13,179.22	11,361.32	50.52	50.13	-79.75	1,790.71	-437.95	670.65	571.31	99.34	6.751			
13,400.00	11,480.20	13,279.21	11,361.62	51.53	51.14	-79.81	1,890.70	-438.61	670.52	569.18	101.35	6.616			
13,500.00	11,479.75	13,379.21	11,361.92	52.57	52.19	-79.88	1,990.70	-439.28	670.39	566.98	103.42	6.482			
13,600.00	11,479.31	13,479.21	11,362.22	53.65	53.26	-79.94	2,090.69	-439.94	670.26	564.71	105.55	6.350			
13,700.00	11,478.87	13,579.20	11,362.51	54.75	54.37	-80.00	2,190.68	-440.61	670.14	562.40	107.74	6.220			
13,800.00	11,478.43	13,679.20	11,362.81	55.88	55.50	-80.06	2,290.68	-441.27	670.01	560.03	109.98	6.092			
13,900.00	11,477.99	13,779.20	11,363.11	57.03	56.66	-80.13	2,390.67	-441.94	669.88	557.60	112.28	5.966			
14,000.00	11,477.55	13,879.19	11,363.41	58.21	57.84	-80.19	2,490.67	-442.60	669.76	555.13	114.62	5.843			
14,100.00	11,477.11	13,979.19	11,363.71	59.41	59.05	-80.25	2,590.66	-443.27	669.63	552.62	117.01	5.723			
14,200.00	11,476.66	14,079.19	11,364.00	60.64	60.28	-80.31	2,690.65	-443.93	669.51	550.06	119.44	5.605			
14,300.00	11,476.22	14,179.18	11,364.30	61.88	61.52	-80.38	2,790.65	-444.60	669.38	547.47	121.92	5.491			
14,400.00	11,475.78	14,279.18	11,364.60	63.14	62.79	-80.44	2,890.64	-445.27	669.26	544.83	124.43	5.379			
14,500.00	11,475.34	14,379.18	11,364.90	64.42	64.07	-80.50	2,990.64	-445.93	669.14	542.16	126.97	5.270			
14,600.00	11,474.89	14,479.17	11,365.20	65.72	65.37	-80.56	3,090.63	-446.60	669.02	539.46	129.55	5.164			
14,700.00	11,474.45	14,579.17	11,365.49	67.03	66.69	-80.63	3,190.62	-447.26	668.89	536.73	132.16	5.061			
14,800.00	11,474.00	14,679.17	11,365.79	68.36	68.02	-80.69	3,290.62	-447.93	668.77	533.97	134.80	4.961			
14,900.00	11,473.56	14,779.16	11,366.09	69.70	69.37	-80.75	3,390.61	-448.60	668.66	531.18	137.47	4.864			
15,000.00	11,473.12	14,879.16	11,366.39	71.06	70.72	-80.81	3,490.60	-449.26	668.54	528.37	140.17	4.769			
15,100.00	11,472.67	14,979.16	11,366.69	72.43	72.09	-80.88	3,590.60	-449.93	668.42	525.53	142.89	4.678			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,200.00	11,472.23	15,079.15	11,366.99	73.81	73.48	-80.94	3,690.59	-450.60	668.30	522.67	145.64	4.589		
15,300.00	11,471.78	15,179.15	11,367.28	75.20	74.87	-81.00	3,790.59	-451.27	668.19	519.78	148.41	4.502		
15,400.00	11,471.34	15,279.15	11,367.58	76.60	76.27	-81.07	3,890.58	-451.93	668.07	516.88	151.20	4.419		
15,500.00	11,470.89	15,379.14	11,367.88	78.01	77.69	-81.13	3,990.57	-452.60	667.96	513.95	154.01	4.337		
15,600.00	11,470.44	15,479.14	11,368.18	79.43	79.11	-81.19	4,090.57	-453.27	667.84	511.01	156.84	4.258		
15,700.00	11,470.00	15,579.14	11,368.48	80.86	80.54	-81.26	4,190.56	-453.93	667.73	508.05	159.68	4.182		
15,800.00	11,469.55	15,679.13	11,368.78	82.30	81.98	-81.32	4,290.56	-454.60	667.62	505.07	162.55	4.107		
15,900.00	11,469.10	15,779.13	11,369.08	83.74	83.43	-81.38	4,390.55	-455.27	667.51	502.08	165.43	4.035		
16,000.00	11,468.66	15,879.12	11,369.38	85.20	84.89	-81.45	4,490.54	-455.94	667.40	499.07	168.33	3.965		
16,100.00	11,468.21	15,979.12	11,369.68	86.66	86.35	-81.51	4,590.54	-456.61	667.29	496.05	171.24	3.897		
16,200.00	11,467.76	16,079.12	11,369.97	88.13	87.82	-81.57	4,690.53	-457.27	667.18	493.01	174.16	3.831		
16,300.00	11,467.32	16,179.11	11,370.27	89.60	89.30	-81.64	4,790.52	-457.94	667.07	489.97	177.10	3.767		
16,400.00	11,466.87	16,279.11	11,370.57	91.08	90.78	-81.70	4,890.52	-458.61	666.96	486.91	180.06	3.704		
16,500.00	11,466.42	16,379.11	11,370.87	92.57	92.27	-81.76	4,990.51	-459.28	666.85	483.83	183.02	3.644		
16,600.00	11,465.97	16,479.10	11,371.17	94.06	93.76	-81.83	5,090.51	-459.95	666.75	480.75	186.00	3.585		
16,700.00	11,465.52	16,579.10	11,371.47	95.56	95.26	-81.89	5,190.50	-460.62	666.64	477.66	188.99	3.527		
16,800.00	11,465.07	16,679.10	11,371.77	97.06	96.77	-81.95	5,290.49	-461.28	666.54	474.56	191.98	3.472		
16,900.00	11,464.62	16,779.09	11,372.07	98.57	98.28	-82.02	5,390.49	-461.95	666.44	471.44	194.99	3.418		
17,000.00	11,464.17	16,879.09	11,372.37	100.08	99.79	-82.08	5,490.48	-462.62	666.33	468.32	198.01	3.365		
17,100.00	11,463.72	16,979.09	11,372.67	101.60	101.31	-82.14	5,590.48	-463.29	666.23	465.19	201.04	3.314		
17,200.00	11,463.27	17,079.08	11,372.97	103.12	102.83	-82.21	5,690.47	-463.96	666.13	462.05	204.08	3.264		
17,300.00	11,462.82	17,179.08	11,373.27	104.65	104.36	-82.27	5,790.46	-464.63	666.03	458.91	207.12	3.216		
17,400.00	11,462.37	17,279.08	11,373.57	106.18	105.89	-82.34	5,890.46	-465.30	665.93	455.75	210.18	3.168		
17,500.00	11,461.92	17,379.07	11,373.87	107.71	107.43	-82.40	5,990.45	-465.97	665.83	452.59	213.24	3.122		
17,600.00	11,461.47	17,479.07	11,374.17	109.25	108.97	-82.46	6,090.44	-466.64	665.73	449.42	216.31	3.078		
17,700.00	11,461.02	17,579.07	11,374.47	110.79	110.51	-82.53	6,190.44	-467.31	665.64	446.25	219.39	3.034		
17,800.00	11,460.57	17,679.06	11,374.77	112.33	112.05	-82.59	6,290.43	-467.98	665.54	443.07	222.47	2.992		
17,900.00	11,460.12	17,779.06	11,375.07	113.88	113.60	-82.66	6,390.43	-468.65	665.45	439.88	225.57	2.950		
18,000.00	11,459.66	17,879.05	11,375.37	115.43	115.15	-82.72	6,490.42	-469.32	665.35	436.69	228.66	2.910		
18,100.00	11,459.21	17,979.05	11,375.67	116.98	116.70	-82.79	6,590.41	-469.99	665.26	433.49	231.77	2.870		
18,200.00	11,458.76	18,079.05	11,375.97	118.54	118.26	-82.85	6,690.41	-470.66	665.17	430.29	234.88	2.832		
18,300.00	11,458.31	18,179.04	11,376.27	120.09	119.82	-82.91	6,790.40	-471.33	665.07	427.08	238.00	2.794		
18,400.00	11,457.85	18,279.04	11,376.57	121.66	121.38	-82.98	6,890.39	-472.00	664.98	423.86	241.12	2.758		
18,500.00	11,457.40	18,379.04	11,376.87	123.22	122.95	-83.04	6,990.39	-472.67	664.89	420.65	244.25	2.722		
18,600.00	11,456.95	18,479.03	11,377.17	124.78	124.51	-83.11	7,090.38	-473.34	664.80	417.42	247.38	2.687		
18,700.00	11,456.49	18,579.03	11,377.47	126.35	126.08	-83.17	7,190.38	-474.01	664.71	414.20	250.52	2.653		
18,800.00	11,456.04	18,679.03	11,377.77	127.92	127.65	-83.24	7,290.37	-474.68	664.62	410.96	253.66	2.620		
18,900.00	11,455.58	18,779.02	11,378.07	129.50	129.23	-83.30	7,390.36	-475.35	664.54	407.73	256.81	2.588		
19,000.00	11,455.13	18,879.02	11,378.37	131.07	130.80	-83.37	7,490.36	-476.02	664.45	404.49	259.96	2.556		
19,100.00	11,454.67	18,979.02	11,378.67	132.65	132.38	-83.43	7,590.35	-476.69	664.37	401.25	263.12	2.525		
19,200.00	11,454.22	19,079.01	11,378.97	134.22	133.96	-83.50	7,690.34	-477.37	664.28	398.00	266.28	2.495		
19,300.00	11,453.76	19,179.01	11,379.27	135.80	135.54	-83.56	7,790.34	-478.04	664.20	394.75	269.45	2.465		
19,400.00	11,453.31	19,279.01	11,379.57	137.39	137.12	-83.63	7,890.33	-478.71	664.11	391.50	272.62	2.436		
19,500.00	11,452.85	19,379.00	11,379.87	138.97	138.71	-83.69	7,990.33	-479.38	664.03	388.24	275.79	2.408		
19,600.00	11,452.39	19,479.00	11,380.17	140.56	140.30	-83.76	8,090.32	-480.05	663.95	384.98	278.97	2.380		
19,700.00	11,451.94	19,578.99	11,380.48	142.14	141.88	-83.82	8,190.31	-480.72	663.87	381.72	282.15	2.353		
19,800.00	11,451.48	19,678.99	11,380.78	143.73	143.47	-83.89	8,290.31	-481.40	663.79	378.45	285.34	2.326		
19,900.00	11,451.02	19,778.99	11,381.08	145.32	145.06	-83.95	8,390.30	-482.07	663.71	375.18	288.53	2.300		
20,000.00	11,450.57	19,878.98	11,381.38	146.91	146.66	-84.02	8,490.29	-482.74	663.63	371.91	291.72	2.275		
20,100.00	11,450.11	19,978.98	11,381.68	148.51	148.25	-84.08	8,590.29	-483.41	663.56	368.64	294.92	2.250		
20,200.00	11,449.65	20,078.98	11,381.98	150.10	149.84	-84.15	8,690.28	-484.09	663.48	365.37	298.12	2.226		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)		
									Minimum Separation (usft)	Separation Factor		
20,300.00	11,449.19	20,178.97	11,382.28	151.70	151.44	-84.21	8,790.28	-484.76	663.41	362.09	301.32	2.202
20,400.00	11,448.73	20,278.97	11,382.58	153.29	153.04	-84.28	8,890.27	-485.43	663.33	358.81	304.52	2.178
20,500.00	11,448.27	20,378.97	11,382.88	154.89	154.64	-84.34	8,990.26	-486.10	663.26	355.53	307.73	2.155
20,600.00	11,447.82	20,478.96	11,383.19	156.49	156.24	-84.41	9,090.26	-486.78	663.18	352.24	310.94	2.133
20,700.00	11,447.36	20,578.96	11,383.49	158.09	157.84	-84.47	9,190.25	-487.45	663.11	348.95	314.16	2.111
20,800.00	11,446.90	20,678.96	11,383.79	159.70	159.44	-84.54	9,290.24	-488.12	663.04	345.67	317.38	2.089
20,900.00	11,446.44	20,778.95	11,384.09	161.30	161.05	-84.60	9,390.24	-488.80	662.97	342.38	320.60	2.068
21,000.00	11,445.98	20,878.95	11,384.39	162.90	162.65	-84.67	9,490.23	-489.47	662.90	339.08	323.82	2.047
21,100.00	11,445.52	20,978.94	11,384.69	164.51	164.26	-84.74	9,590.23	-490.14	662.83	335.79	327.04	2.027
21,200.00	11,445.06	21,078.94	11,385.00	166.11	165.86	-84.80	9,690.22	-490.82	662.77	332.49	330.27	2.007
21,300.00	11,444.60	21,178.94	11,385.30	167.72	167.47	-84.87	9,790.21	-491.49	662.70	329.20	333.50	1.987
21,400.00	11,444.14	21,278.93	11,385.60	169.33	169.08	-84.93	9,890.21	-492.17	662.63	325.90	336.73	1.968
21,500.00	11,443.67	21,378.93	11,385.90	170.94	170.69	-85.00	9,990.20	-492.84	662.57	322.60	339.97	1.949
21,600.00	11,443.21	21,478.93	11,386.20	172.55	172.30	-85.06	10,090.19	-493.51	662.50	319.30	343.20	1.930
21,700.00	11,442.75	21,578.92	11,386.51	174.16	173.91	-85.13	10,190.19	-494.19	662.44	316.00	346.44	1.912
21,800.00	11,442.29	21,678.92	11,386.81	175.77	175.52	-85.20	10,290.18	-494.86	662.38	312.69	349.69	1.894
21,862.35	11,442.00	21,741.26	11,387.00	176.77	176.53	-85.24	10,352.52	-495.28	662.34	310.63	351.71	1.883 SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	4.00	4.00	0.00	0.01	86.22	98.80	1,494.86	1,498.13				
100.00	100.00	104.00	104.00	0.13	0.15	86.22	98.80	1,494.86	1,498.13	1,497.84	0.28	5,290.126	
200.00	200.00	204.00	204.00	0.49	0.51	86.22	98.80	1,494.86	1,498.13	1,497.13	1.00	1,497.922	
300.00	300.00	304.00	304.00	0.85	0.87	86.22	98.80	1,494.86	1,498.13	1,496.41	1.72	872.485	
400.00	400.00	404.00	404.00	1.21	1.22	86.22	98.80	1,494.86	1,498.13	1,495.69	2.43	615.494	
500.00	500.00	504.00	504.00	1.57	1.58	86.22	98.80	1,494.86	1,498.13	1,494.98	3.15	475.450	
600.00	600.00	604.00	604.00	1.93	1.94	86.22	98.80	1,494.86	1,498.13	1,494.26	3.87	387.322	
700.00	700.00	704.00	704.00	2.29	2.30	86.22	98.80	1,494.86	1,498.13	1,493.54	4.58	326.756	
800.00	800.00	804.00	804.00	2.64	2.66	86.22	98.80	1,494.86	1,498.13	1,492.82	5.30	282.570	
900.00	900.00	904.00	904.00	3.00	3.02	86.22	98.80	1,494.86	1,498.13	1,492.11	6.02	248.910	
1,000.00	1,000.00	1,004.00	1,004.00	3.36	3.38	86.22	98.80	1,494.86	1,498.13	1,491.39	6.74	222.416	
1,100.00	1,100.00	1,104.00	1,104.00	3.72	3.73	86.22	98.80	1,494.86	1,498.13	1,490.67	7.45	201.020	
1,200.00	1,200.00	1,204.00	1,204.00	4.08	4.09	86.22	98.80	1,494.86	1,498.13	1,489.96	8.17	183.379	
1,300.00	1,300.00	1,304.00	1,304.00	4.44	4.45	86.22	98.80	1,494.86	1,498.13	1,489.24	8.89	168.584	
1,400.00	1,400.00	1,404.00	1,404.00	4.79	4.81	86.22	98.80	1,494.86	1,498.13	1,488.52	9.60	155.999	
1,500.00	1,500.00	1,504.00	1,504.00	5.15	5.17	86.22	98.80	1,494.86	1,498.13	1,487.81	10.32	145.162	
1,600.00	1,600.00	1,604.00	1,604.00	5.51	5.53	86.22	98.80	1,494.86	1,498.13	1,487.09	11.04	135.733	
1,700.00	1,700.00	1,704.00	1,704.00	5.87	5.88	86.22	98.80	1,494.86	1,498.13	1,486.37	11.75	127.454	
1,800.00	1,800.00	1,804.00	1,804.00	6.23	6.24	86.22	98.80	1,494.86	1,498.13	1,485.65	12.47	120.127	
1,900.00	1,900.00	1,904.00	1,904.00	6.59	6.60	86.22	98.80	1,494.86	1,498.13	1,484.94	13.19	113.596	
2,000.00	2,000.00	2,004.00	2,004.00	6.95	6.96	86.22	98.80	1,494.86	1,498.13	1,484.22	13.91	107.739	
2,100.00	2,099.98	2,103.98	2,103.98	7.29	7.32	-48.63	98.80	1,494.86	1,496.97	1,482.37	14.61	102.488	
2,200.00	2,199.84	2,203.84	2,203.84	7.62	7.68	-48.83	98.80	1,494.86	1,493.52	1,478.22	15.29	97.655	
2,300.00	2,299.45	2,303.45	2,303.45	7.95	8.03	-49.17	98.80	1,494.86	1,487.79	1,471.80	15.98	93.083	
2,400.00	2,398.70	2,404.90	2,404.90	8.30	8.40	-49.66	98.80	1,494.86	1,479.82	1,463.14	16.68	88.701	
2,500.00	2,497.47	2,583.58	2,583.45	8.65	9.00	-50.59	95.50	1,490.00	1,466.84	1,449.24	17.61	83.316	
2,600.00	2,595.62	2,758.94	2,758.00	9.01	9.59	-51.64	86.18	1,476.29	1,446.47	1,428.00	18.47	78.321	
2,700.00	2,693.44	2,930.16	2,927.14	9.39	10.19	-52.28	71.31	1,454.41	1,419.96	1,400.68	19.28	73.639	
2,800.00	2,791.25	3,055.45	3,049.86	9.77	10.65	-52.67	57.13	1,433.56	1,389.38	1,369.38	20.00	69.455	
2,900.00	2,889.07	3,150.30	3,142.64	10.17	11.01	-52.95	46.05	1,417.25	1,358.40	1,337.71	20.69	65.647	
3,000.00	2,886.88	3,245.15	3,235.41	10.57	11.37	-53.26	34.96	1,400.94	1,327.46	1,306.07	21.39	62.054	
3,100.00	3,084.70	3,340.00	3,328.19	10.99	11.75	-53.58	23.88	1,384.63	1,296.56	1,274.45	22.10	58.665	
3,200.00	3,182.51	3,434.85	3,420.97	11.41	12.13	-53.91	12.79	1,368.32	1,265.69	1,242.87	22.82	55.466	
3,300.00	3,280.33	3,529.70	3,513.75	11.83	12.51	-54.26	1.70	1,352.01	1,234.86	1,211.31	23.55	52.446	
3,400.00	3,378.14	3,624.55	3,606.53	12.26	12.90	-54.62	-9.38	1,335.70	1,204.08	1,179.80	24.28	49.594	
3,500.00	3,475.96	3,719.40	3,699.31	12.69	13.30	-55.01	-20.47	1,319.39	1,173.34	1,148.32	25.02	46.898	
3,600.00	3,573.77	3,814.26	3,792.09	13.13	13.70	-55.38	-31.55	1,303.08	1,142.66	1,116.89	25.77	44.348	
3,700.00	3,671.97	3,909.56	3,885.31	13.57	14.11	-55.21	-42.69	1,286.69	1,113.10	1,086.58	26.51	41.984	
3,800.00	3,770.78	4,005.59	3,979.24	13.98	14.52	-54.95	-53.92	1,270.18	1,085.47	1,058.21	27.25	39.828	
3,900.00	3,870.05	4,102.23	4,073.76	14.38	14.94	-54.56	-65.21	1,253.56	1,059.78	1,031.79	27.99	37.866	
4,000.00	3,969.69	4,199.35	4,168.76	14.75	15.37	-54.06	-76.56	1,236.86	1,036.05	1,007.33	28.71	36.083	
4,100.00	4,069.56	4,296.84	4,264.12	15.11	15.80	-53.43	-87.95	1,220.10	1,014.33	984.90	29.43	34.466	
4,200.00	4,169.54	4,394.57	4,359.72	15.44	16.23	82.10	-99.38	1,203.29	994.68	964.54	30.13	33.008	
4,300.00	4,269.54	4,492.39	4,455.40	15.77	16.67	82.64	-110.81	1,186.47	976.00	945.16	30.84	31.648	
4,400.00	4,369.54	4,590.20	4,551.08	16.10	17.11	83.20	-122.24	1,169.65	957.41	925.87	31.55	30.348	
4,500.00	4,469.54	4,688.02	4,646.76	16.43	17.55	83.78	-133.67	1,152.83	938.92	906.66	32.26	29.104	
4,600.00	4,569.54	4,785.83	4,742.43	16.76	18.00	84.38	-145.11	1,136.01	920.52	887.54	32.98	27.913	
4,700.00	4,669.54	4,883.65	4,838.11	17.09	18.45	85.01	-156.54	1,119.19	902.23	868.53	33.70	26.772	
4,800.00	4,769.54	4,981.46	4,933.79	17.43	18.90	85.67	-167.97	1,102.37	884.04	849.61	34.43	25.679	
4,900.00	4,869.54	5,079.28	5,029.46	17.76	19.35	86.35	-179.40	1,085.55	865.98	830.82	35.16	24.631	
5,000.00	4,969.54	5,177.09	5,125.14	18.10	19.80	87.06	-190.84	1,068.73	848.03	812.14	35.89	23.625	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
5,100.00	5,069.54	5,261.97	5,208.26	18.43	20.18	87.68	-200.49	1,054.53	830.73	794.08	36.65	22.664	
5,200.00	5,169.54	5,341.07	5,286.12	18.77	20.53	88.20	-208.34	1,042.98	815.72	778.31	37.41	21.805	
5,300.00	5,269.54	5,420.90	5,365.06	19.11	20.87	88.66	-215.03	1,033.14	803.13	764.98	38.15	21.054	
5,400.00	5,369.54	5,500.00	5,443.56	19.45	21.19	89.04	-220.44	1,025.18	792.93	754.07	38.86	20.404	
5,500.00	5,469.54	5,582.28	5,525.48	19.79	21.51	89.35	-224.76	1,018.82	785.13	745.57	39.55	19.850	
5,600.00	5,569.54	5,663.58	5,606.60	20.13	21.80	89.57	-227.74	1,014.44	779.70	739.48	40.22	19.387	
5,700.00	5,669.54	5,745.11	5,688.07	20.47	22.08	89.69	-229.43	1,011.96	776.64	735.79	40.85	19.010	
5,800.00	5,769.54	5,830.58	5,773.54	20.81	22.36	89.72	-229.84	1,011.35	775.90	734.42	41.48	18.706	
5,900.00	5,869.54	5,930.58	5,873.54	21.15	22.67	89.72	-229.84	1,011.35	775.90	733.75	42.16	18.406	
6,000.00	5,969.54	6,030.58	5,973.54	21.49	22.99	89.72	-229.84	1,011.35	775.90	733.07	42.83	18.115	
6,100.00	6,069.54	6,130.58	6,073.54	21.83	23.31	89.72	-229.84	1,011.35	775.90	732.39	43.51	17.833	
6,200.00	6,169.54	6,230.58	6,173.54	22.18	23.63	89.72	-229.84	1,011.35	775.90	731.71	44.19	17.558	
6,300.00	6,269.54	6,330.58	6,273.54	22.52	23.95	89.72	-229.84	1,011.35	775.90	731.03	44.87	17.292	
6,400.00	6,369.54	6,430.58	6,373.54	22.87	24.27	89.72	-229.84	1,011.35	775.90	730.35	45.55	17.033	
6,500.00	6,469.54	6,530.58	6,473.54	23.21	24.59	89.72	-229.84	1,011.35	775.90	729.67	46.24	16.782	
6,600.00	6,569.54	6,630.58	6,573.54	23.56	24.91	89.72	-229.84	1,011.35	775.90	728.98	46.92	16.537	
6,700.00	6,669.54	6,730.58	6,673.54	23.90	25.23	89.72	-229.84	1,011.35	775.90	728.30	47.60	16.299	
6,800.00	6,769.54	6,830.58	6,773.54	24.25	25.56	89.72	-229.84	1,011.35	775.90	727.61	48.29	16.068	
6,900.00	6,869.54	6,930.58	6,873.54	24.59	25.88	89.72	-229.84	1,011.35	775.90	726.93	48.98	15.843	
7,000.00	6,969.54	7,030.58	6,973.54	24.94	26.21	89.72	-229.84	1,011.35	775.90	726.24	49.66	15.623	
7,100.00	7,069.54	7,130.58	7,073.54	25.29	26.54	89.72	-229.84	1,011.35	775.90	725.55	50.35	15.410	
7,200.00	7,169.54	7,230.58	7,173.54	25.63	26.86	89.72	-229.84	1,011.35	775.90	724.86	51.04	15.202	
7,300.00	7,269.54	7,330.58	7,273.54	25.98	27.19	89.72	-229.84	1,011.35	775.90	724.17	51.73	14.999	
7,400.00	7,369.54	7,430.58	7,373.54	26.33	27.52	89.72	-229.84	1,011.35	775.90	723.48	52.42	14.801	
7,500.00	7,469.54	7,530.58	7,473.54	26.68	27.85	89.72	-229.84	1,011.35	775.90	722.79	53.11	14.609	
7,600.00	7,569.54	7,630.58	7,573.54	27.03	28.18	89.72	-229.84	1,011.35	775.90	722.10	53.80	14.421	
7,700.00	7,669.54	7,730.58	7,673.54	27.37	28.51	89.72	-229.84	1,011.35	775.90	721.41	54.50	14.238	
7,800.00	7,769.54	7,830.58	7,773.54	27.72	28.85	89.72	-229.84	1,011.35	775.90	720.71	55.19	14.059	
7,900.00	7,869.54	7,930.58	7,873.54	28.07	29.18	89.72	-229.84	1,011.35	775.90	720.02	55.88	13.884	
8,000.00	7,969.54	8,030.58	7,973.54	28.42	29.51	89.72	-229.84	1,011.35	775.90	719.33	56.58	13.714	
8,100.00	8,069.54	8,130.58	8,073.54	28.77	29.85	89.72	-229.84	1,011.35	775.90	718.63	57.27	13.548	
8,200.00	8,169.54	8,230.58	8,173.54	29.12	30.18	89.72	-229.84	1,011.35	775.90	717.94	57.97	13.385	
8,300.00	8,269.54	8,330.58	8,273.54	29.47	30.52	89.72	-229.84	1,011.35	775.90	717.24	58.66	13.226	
8,400.00	8,369.54	8,430.58	8,373.54	29.82	30.85	89.72	-229.84	1,011.35	775.90	716.54	59.36	13.071	
8,500.00	8,469.54	8,530.58	8,473.54	30.17	31.19	89.72	-229.84	1,011.35	775.90	715.85	60.06	12.919	
8,600.00	8,569.54	8,630.58	8,573.54	30.52	31.52	89.72	-229.84	1,011.35	775.90	715.15	60.75	12.771	
8,700.00	8,669.54	8,730.58	8,673.54	30.87	31.86	89.72	-229.84	1,011.35	775.90	714.45	61.45	12.626	
8,800.00	8,769.54	8,830.58	8,773.54	31.22	32.20	89.72	-229.84	1,011.35	775.90	713.75	62.15	12.484	
8,900.00	8,869.54	8,930.58	8,873.54	31.57	32.54	89.72	-229.84	1,011.35	775.90	713.05	62.85	12.346	
9,000.00	8,969.54	9,030.58	8,973.54	31.93	32.87	89.72	-229.84	1,011.35	775.90	712.36	63.55	12.210	
9,100.00	9,069.54	9,130.58	9,073.54	32.28	33.21	89.72	-229.84	1,011.35	775.90	711.66	64.25	12.077	
9,200.00	9,169.54	9,230.58	9,173.54	32.63	33.55	89.72	-229.84	1,011.35	775.90	710.96	64.95	11.947	
9,300.00	9,269.54	9,330.58	9,273.54	32.98	33.89	89.72	-229.84	1,011.35	775.90	710.26	65.65	11.819	
9,400.00	9,369.54	9,430.58	9,373.54	33.33	34.23	89.72	-229.84	1,011.35	775.90	709.56	66.35	11.694	
9,500.00	9,469.54	9,530.58	9,473.54	33.68	34.57	89.72	-229.84	1,011.35	775.90	708.85	67.05	11.572	
9,600.00	9,569.54	9,630.58	9,573.54	34.04	34.91	89.72	-229.84	1,011.35	775.90	708.15	67.75	11.452	
9,700.00	9,669.54	9,730.58	9,673.54	34.39	35.25	89.72	-229.84	1,011.35	775.90	707.45	68.45	11.335	
9,800.00	9,769.54	9,830.58	9,773.54	34.74	35.60	89.72	-229.84	1,011.35	775.90	706.75	69.15	11.220	
9,900.00	9,869.54	9,930.58	9,873.54	35.09	35.94	89.72	-229.84	1,011.35	775.90	706.05	69.86	11.107	
10,000.00	9,969.54	10,030.58	9,973.54	35.45	36.28	89.72	-229.84	1,011.35	775.90	705.35	70.56	10.997	
10,100.00	10,069.54	10,130.58	10,073.54	35.80	36.62	89.72	-229.84	1,011.35	775.90	704.64	71.26	10.888	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error: 0.00 usft		
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,200.00	10,169.54	10,230.58	10,173.54	36.15	36.97	89.72	-229.84	1,011.35	775.90	703.94	71.96	10.782		
10,300.00	10,269.54	10,330.58	10,273.54	36.51	37.31	89.72	-229.84	1,011.35	775.90	703.24	72.67	10.677		
10,400.00	10,369.54	10,430.58	10,373.54	36.86	37.65	89.72	-229.84	1,011.35	775.90	702.53	73.37	10.575		
10,500.00	10,469.54	10,530.58	10,473.54	37.21	38.00	89.72	-229.84	1,011.35	775.90	701.83	74.07	10.475		
10,600.00	10,569.54	10,630.58	10,573.54	37.57	38.34	89.72	-229.84	1,011.35	775.90	701.12	74.78	10.376		
10,700.00	10,669.54	10,730.58	10,673.54	37.92	38.68	89.72	-229.84	1,011.35	775.90	700.42	75.48	10.279		
10,800.00	10,769.54	10,830.58	10,773.54	38.27	39.03	89.72	-229.84	1,011.35	775.90	699.72	76.19	10.184		
10,900.00	10,869.54	10,930.58	10,873.54	38.63	39.37	89.72	-229.84	1,011.35	775.90	699.01	76.89	10.091		
10,901.56	10,871.10	10,932.14	10,875.10	38.63	39.38	90.10	-229.84	1,011.35	775.90	699.00	76.90	10.089		
11,000.00	10,969.45	11,030.50	10,973.45	38.98	39.72	90.30	-229.84	1,011.35	775.91	698.32	77.60	9.999		
11,100.00	11,067.64	11,128.68	11,071.64	39.30	40.06	91.59	-229.84	1,011.35	776.22	697.94	78.28	9.916		
11,200.00	11,161.16	11,236.41	11,179.30	39.59	40.42	94.11	-227.56	1,011.03	777.68	698.70	78.98	9.847		
11,300.00	11,247.17	11,372.49	11,312.13	39.83	40.84	97.30	-199.76	1,007.13	778.20	698.65	79.55	9.783		
11,400.00	11,323.06	11,521.96	11,445.84	40.03	41.21	100.34	-134.56	997.96	776.23	696.51	79.72	9.737		
11,500.00	11,386.52	11,682.70	11,565.42	40.18	41.47	102.93	-28.97	983.13	770.72	691.22	79.51	9.694		
11,600.00	11,435.62	11,849.41	11,653.22	40.33	41.60	104.80	110.69	963.50	760.91	681.61	79.29	9.596		
11,700.00	11,468.88	12,014.71	11,696.69	40.54	41.71	105.75	268.03	941.38	746.72	667.14	79.58	9.383		
11,800.00	11,485.28	12,141.24	11,700.73	40.77	41.97	106.38	393.15	923.80	730.09	649.78	80.30	9.092		
11,900.00	11,486.77	12,226.48	11,700.30	41.03	42.23	107.11	477.61	912.32	717.33	636.59	80.74	8.885		
12,000.00	11,486.33	12,300.00	11,699.93	41.36	42.49	107.27	550.75	904.97	708.37	627.19	81.18	8.726		
12,100.00	11,485.90	12,373.67	11,699.56	41.74	42.78	107.37	624.28	900.42	703.10	621.36	81.74	8.602		
12,200.00	11,485.46	12,449.63	11,699.18	42.19	43.11	107.40	700.22	898.70	701.50	619.11	82.40	8.514		
12,300.00	11,485.02	12,549.63	11,698.68	42.70	43.58	107.39	800.21	898.04	701.49	618.16	83.33	8.418		
12,400.00	11,484.59	12,649.63	11,698.18	43.26	44.10	107.39	900.21	897.39	701.48	617.11	84.37	8.314		
12,500.00	11,484.15	12,749.63	11,697.68	43.88	44.68	107.38	1,000.21	896.73	701.47	615.95	85.52	8.202		
12,600.00	11,483.71	12,849.63	11,697.18	44.55	45.31	107.38	1,100.20	896.07	701.46	614.69	86.77	8.084		
12,700.00	11,483.27	12,949.63	11,696.68	45.27	46.00	107.37	1,200.20	895.42	701.44	613.33	88.11	7.961		
12,800.00	11,482.83	13,049.63	11,696.19	46.04	46.72	107.37	1,300.20	894.76	701.43	611.88	89.55	7.833		
12,900.00	11,482.39	13,149.63	11,695.69	46.85	47.50	107.36	1,400.19	894.10	701.42	610.35	91.08	7.701		
13,000.00	11,481.95	13,249.63	11,695.19	47.71	48.32	107.36	1,500.19	893.45	701.41	608.73	92.69	7.568		
13,100.00	11,481.52	13,349.63	11,694.69	48.61	49.18	107.35	1,600.19	892.79	701.40	607.03	94.37	7.432		
13,200.00	11,481.08	13,449.63	11,694.19	49.55	50.08	107.35	1,700.18	892.13	701.39	605.25	96.14	7.296		
13,300.00	11,480.64	13,549.63	11,693.69	50.52	51.01	107.34	1,800.18	891.48	701.38	603.41	97.97	7.159		
13,400.00	11,480.20	13,649.63	11,693.19	51.53	51.98	107.34	1,900.18	890.82	701.37	601.50	99.88	7.023		
13,500.00	11,479.75	13,749.63	11,692.69	52.57	52.99	107.33	2,000.17	890.16	701.36	599.52	101.84	6.887		
13,600.00	11,479.31	13,849.63	11,692.20	53.65	54.03	107.33	2,100.17	889.51	701.35	597.49	103.87	6.753		
13,700.00	11,478.87	13,949.63	11,691.70	54.75	55.10	107.32	2,200.17	888.85	701.34	595.40	105.95	6.620		
13,800.00	11,478.43	14,049.63	11,691.20	55.88	56.19	107.32	2,300.16	888.19	701.34	593.26	108.08	6.489		
13,900.00	11,477.99	14,149.63	11,690.70	57.03	57.31	107.31	2,400.16	887.54	701.33	591.07	110.26	6.361		
14,000.00	11,477.55	14,249.63	11,690.20	58.21	58.46	107.31	2,500.15	886.88	701.32	588.83	112.49	6.234		
14,100.00	11,477.11	14,349.63	11,689.70	59.41	59.63	107.30	2,600.15	886.22	701.31	586.54	114.77	6.111		
14,200.00	11,476.66	14,449.63	11,689.20	60.64	60.83	107.30	2,700.15	885.57	701.30	584.22	117.08	5.990		
14,300.00	11,476.22	14,549.63	11,688.70	61.88	62.04	107.29	2,800.14	884.91	701.29	581.86	119.43	5.872		
14,400.00	11,475.78	14,649.63	11,688.21	63.14	63.28	107.29	2,900.14	884.26	701.29	579.46	121.82	5.757		
14,500.00	11,475.34	14,749.63	11,687.71	64.42	64.53	107.29	3,000.14	883.60	701.28	577.03	124.25	5.644		
14,600.00	11,474.89	14,849.63	11,687.21	65.72	65.81	107.28	3,100.13	882.94	701.27	574.56	126.70	5.535		
14,700.00	11,474.45	14,949.63	11,686.71	67.03	67.09	107.28	3,200.13	882.29	701.26	572.07	129.19	5.428		
14,800.00	11,474.00	15,049.63	11,686.21	68.36	68.40	107.27	3,300.13	881.63	701.25	569.55	131.71	5.324		
14,900.00	11,473.56	15,149.63	11,685.71	69.70	69.72	107.27	3,400.12	880.97	701.25	567.00	134.25	5.223		
15,000.00	11,473.12	15,249.63	11,685.21	71.06	71.05	107.26	3,500.12	880.32	701.24	564.42	136.82	5.125		
15,100.00	11,472.67	15,349.63	11,684.71	72.43	72.40	107.26	3,600.12	879.66	701.23	561.83	139.41	5.030		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,200.00	11,472.23	15,449.63	11,684.22	73.81	73.76	107.25	3,700.11	879.00	701.23	559.21	142.02	4.937	
15,300.00	11,471.78	15,549.63	11,683.72	75.20	75.13	107.25	3,800.11	878.35	701.22	556.56	144.66	4.848	
15,400.00	11,471.34	15,649.63	11,683.22	76.60	76.51	107.25	3,900.11	877.69	701.21	553.90	147.31	4.760	
15,500.00	11,470.89	15,749.63	11,682.72	78.01	77.90	107.24	4,000.10	877.03	701.21	551.22	149.98	4.675	
15,600.00	11,470.44	15,849.63	11,682.22	79.43	79.31	107.24	4,100.10	876.38	701.20	548.53	152.67	4.593	
15,700.00	11,470.00	15,949.63	11,681.72	80.86	80.72	107.23	4,200.10	875.72	701.20	545.81	155.38	4.513	
15,800.00	11,469.55	16,049.63	11,681.22	82.30	82.14	107.23	4,300.09	875.06	701.19	543.09	158.11	4.435	
15,900.00	11,469.10	16,149.63	11,680.73	83.74	83.57	107.22	4,400.09	874.41	701.19	540.34	160.84	4.359	
16,000.00	11,468.66	16,249.63	11,680.23	85.20	85.01	107.22	4,500.09	873.75	701.18	537.58	163.60	4.286	
16,100.00	11,468.21	16,349.63	11,679.73	86.66	86.46	107.22	4,600.08	873.09	701.17	534.81	166.36	4.215	
16,200.00	11,467.76	16,449.63	11,679.23	88.13	87.91	107.21	4,700.08	872.44	701.17	532.03	169.14	4.146	
16,300.00	11,467.32	16,549.63	11,678.73	89.60	89.37	107.21	4,800.08	871.78	701.16	529.24	171.93	4.078	
16,400.00	11,466.87	16,649.63	11,678.23	91.08	90.84	107.20	4,900.07	871.12	701.16	526.43	174.73	4.013	
16,500.00	11,466.42	16,749.63	11,677.73	92.57	92.31	107.20	5,000.07	870.47	701.16	523.61	177.54	3.949	
16,600.00	11,465.97	16,849.63	11,677.23	94.06	93.79	107.19	5,100.07	869.81	701.15	520.79	180.36	3.887	
16,700.00	11,465.52	16,949.63	11,676.74	95.56	95.28	107.19	5,200.06	869.15	701.15	517.95	183.20	3.827	
16,800.00	11,465.07	17,049.63	11,676.24	97.06	96.77	107.19	5,300.06	868.50	701.14	515.11	186.04	3.769	
16,900.00	11,464.62	17,149.63	11,675.74	98.57	98.27	107.18	5,400.06	867.84	701.14	512.25	188.89	3.712	
17,000.00	11,464.17	17,249.63	11,675.24	100.08	99.77	107.18	5,500.05	867.19	701.14	509.39	191.74	3.657	
17,100.00	11,463.72	17,349.63	11,674.74	101.60	101.28	107.17	5,600.05	866.53	701.13	506.53	194.61	3.603	
17,200.00	11,463.27	17,449.63	11,674.24	103.12	102.79	107.17	5,700.05	865.87	701.13	503.65	197.48	3.550	
17,300.00	11,462.82	17,549.63	11,673.74	104.65	104.30	107.17	5,800.04	865.22	701.13	500.77	200.36	3.499	
17,400.00	11,462.37	17,649.63	11,673.24	106.18	105.82	107.16	5,900.04	864.56	701.12	497.88	203.24	3.450	
17,500.00	11,461.92	17,749.63	11,672.75	107.71	107.35	107.16	6,000.04	863.90	701.12	494.99	206.13	3.401	
17,600.00	11,461.47	17,849.63	11,672.25	109.25	108.87	107.15	6,100.03	863.25	701.12	492.09	209.03	3.354	
17,700.00	11,461.02	17,949.63	11,671.75	110.79	110.41	107.15	6,200.03	862.59	701.12	489.18	211.93	3.308	
17,800.00	11,460.57	18,049.63	11,671.25	112.33	111.94	107.15	6,300.03	861.93	701.11	486.27	214.84	3.263	
17,900.00	11,460.12	18,149.63	11,670.75	113.88	113.48	107.14	6,400.02	861.28	701.11	483.36	217.75	3.220	
18,000.00	11,459.66	18,249.63	11,670.25	115.43	115.02	107.14	6,500.02	860.62	701.11	480.44	220.67	3.177	
18,100.00	11,459.21	18,349.63	11,669.75	116.98	116.57	107.13	6,600.02	859.96	701.11	477.51	223.59	3.136	
18,200.00	11,458.76	18,449.63	11,669.25	118.54	118.11	107.13	6,700.01	859.31	701.11	474.59	226.52	3.095	
18,300.00	11,458.31	18,549.63	11,668.76	120.09	119.66	107.13	6,800.01	858.65	701.10	471.66	229.45	3.056	
18,400.00	11,457.85	18,649.63	11,668.26	121.66	121.22	107.12	6,900.00	857.99	701.10	468.72	232.38	3.017	
18,500.00	11,457.40	18,749.63	11,667.76	123.22	122.77	107.12	7,000.00	857.34	701.10	465.78	235.32	2.979	
18,600.00	11,456.95	18,849.63	11,667.26	124.78	124.33	107.11	7,100.00	856.68	701.10	462.84	238.26	2.943	
18,700.00	11,456.49	18,949.63	11,666.76	126.35	125.89	107.11	7,199.99	856.02	701.10	459.90	241.20	2.907	
18,800.00	11,456.04	19,049.63	11,666.26	127.92	127.46	107.11	7,299.99	855.37	701.10	456.95	244.15	2.872	
18,900.00	11,455.58	19,149.63	11,665.76	129.50	129.02	107.10	7,399.99	854.71	701.10	454.01	247.09	2.837	
19,000.00	11,455.13	19,249.63	11,665.26	131.07	130.59	107.10	7,499.98	854.05	701.10	451.06	250.04	2.804	
19,099.80	11,454.67	19,349.44	11,664.77	132.64	132.16	107.10	7,599.78	853.40	701.10	448.11	252.99	2.771 CC	
19,100.00	11,454.67	19,349.63	11,664.77	132.65	132.16	107.10	7,599.98	853.40	701.10	448.10	253.00	2.771	
19,200.00	11,454.22	19,449.63	11,664.27	134.22	133.73	107.09	7,699.98	852.74	701.10	445.15	255.95	2.739	
19,300.00	11,453.76	19,549.63	11,663.77	135.80	135.31	107.09	7,799.97	852.08	701.10	442.19	258.91	2.708	
19,400.00	11,453.31	19,649.63	11,663.27	137.39	136.89	107.08	7,899.97	851.43	701.10	439.23	261.87	2.677	
19,500.00	11,452.85	19,749.63	11,662.77	138.97	138.46	107.08	7,999.97	850.77	701.10	436.27	264.83	2.647	
19,600.00	11,452.39	19,849.63	11,662.27	140.56	140.04	107.08	8,099.96	850.12	701.10	433.31	267.79	2.618	
19,700.00	11,451.94	19,949.63	11,661.77	142.14	141.63	107.07	8,199.96	849.46	701.10	430.35	270.75	2.589	
19,800.00	11,451.48	20,049.63	11,661.27	143.73	143.21	107.07	8,299.96	848.80	701.10	427.38	273.72	2.561	
19,900.00	11,451.02	20,149.63	11,660.78	145.32	144.79	107.07	8,399.95	848.15	701.10	424.42	276.68	2.534	
20,000.00	11,450.57	20,249.63	11,660.28	146.91	146.38	107.06	8,499.95	847.49	701.11	421.46	279.65	2.507	
20,100.00	11,450.11	20,349.63	11,659.78	148.51	147.97	107.06	8,599.95	846.83	701.11	418.49	282.62	2.481	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Factor
20,200.00	11,449.65	20,449.63	11,659.28	150.10	149.56	107.06	8,699.94	846.18	701.11	415.52	285.59	2.455
20,300.00	11,449.19	20,549.63	11,658.78	151.70	151.15	107.05	8,799.94	845.52	701.11	412.55	288.56	2.430
20,400.00	11,448.73	20,649.63	11,658.28	153.29	152.74	107.05	8,899.94	844.86	701.11	409.59	291.53	2.405
20,500.00	11,448.27	20,749.63	11,657.78	154.89	154.34	107.04	8,999.93	844.21	701.12	406.62	294.50	2.381
20,600.00	11,447.82	20,849.63	11,657.28	156.49	155.93	107.04	9,099.93	843.55	701.12	403.65	297.47	2.357
20,700.00	11,447.36	20,949.63	11,656.79	158.09	157.53	107.04	9,199.93	842.89	701.12	400.68	300.44	2.334
20,800.00	11,446.90	21,049.63	11,656.29	159.70	159.13	107.03	9,299.92	842.24	701.12	397.71	303.41	2.311
20,900.00	11,446.44	21,149.63	11,655.79	161.30	160.72	107.03	9,399.92	841.58	701.13	394.75	306.38	2.288
21,000.00	11,445.98	21,249.63	11,655.29	162.90	162.32	107.03	9,499.92	840.92	701.13	391.78	309.35	2.266
21,100.00	11,445.52	21,349.63	11,654.79	164.51	163.93	107.02	9,599.91	840.27	701.13	388.81	312.32	2.245
21,200.00	11,445.06	21,449.63	11,654.29	166.11	165.53	107.02	9,699.91	839.61	701.14	385.84	315.29	2.224
21,300.00	11,444.60	21,549.63	11,653.79	167.72	167.13	107.02	9,799.91	838.95	701.14	382.88	318.26	2.203
21,400.00	11,444.14	21,649.63	11,653.29	169.33	168.74	107.01	9,899.90	838.30	701.14	379.91	321.23	2.183
21,500.00	11,443.67	21,749.63	11,652.80	170.94	170.34	107.01	9,999.90	837.64	701.15	376.94	324.20	2.163
21,600.00	11,443.21	21,849.63	11,652.30	172.55	171.95	107.01	10,099.90	836.98	701.15	373.98	327.17	2.143
21,700.00	11,442.75	21,949.63	11,651.80	174.16	173.55	107.00	10,199.89	836.33	701.16	371.01	330.14	2.124
21,800.00	11,442.29	22,049.63	11,651.30	175.77	175.16	107.00	10,299.89	835.67	701.16	368.05	333.11	2.105
21,805.69	11,442.26	22,055.32	11,651.27	175.86	175.25	107.00	10,305.58	835.63	701.16	367.88	333.28	2.104
21,862.35	11,442.00	22,109.64	11,651.00	176.77	176.13	107.00	10,359.90	835.28	701.17	366.29	334.88	2.094 ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	4.00	4.00	0.00	0.01	78.86	298.91	1,518.57	1,547.70					
100.00	100.00	104.00	104.00	0.13	0.15	78.86	298.91	1,518.57	1,547.70	1,547.42	0.28	5,465.196		
200.00	200.00	204.00	204.00	0.49	0.51	78.86	298.91	1,518.57	1,547.70	1,546.70	1.00	1,547.494		
300.00	300.00	304.00	304.00	0.85	0.87	78.86	298.91	1,518.57	1,547.70	1,545.99	1.72	901.359		
400.00	400.00	404.00	404.00	1.21	1.22	78.86	298.91	1,518.57	1,547.70	1,545.27	2.43	635.863		
500.00	500.00	504.00	504.00	1.57	1.58	78.86	298.91	1,518.57	1,547.70	1,544.55	3.15	491.184		
600.00	600.00	604.00	604.00	1.93	1.94	78.86	298.91	1,518.57	1,547.70	1,543.84	3.87	400.140		
700.00	700.00	704.00	704.00	2.29	2.30	78.86	298.91	1,518.57	1,547.70	1,543.12	4.58	337.569		
800.00	800.00	804.00	804.00	2.64	2.66	78.86	298.91	1,518.57	1,547.70	1,542.40	5.30	291.921		
900.00	900.00	904.00	904.00	3.00	3.02	78.86	298.91	1,518.57	1,547.70	1,541.69	6.02	257.148		
1,000.00	1,000.00	1,004.00	1,004.00	3.36	3.38	78.86	298.91	1,518.57	1,547.70	1,540.97	6.74	229.777		
1,100.00	1,100.00	1,104.00	1,104.00	3.72	3.73	78.86	298.91	1,518.57	1,547.70	1,540.25	7.45	207.672		
1,200.00	1,200.00	1,204.00	1,204.00	4.08	4.09	78.86	298.91	1,518.57	1,547.70	1,539.54	8.17	189.448		
1,300.00	1,300.00	1,304.00	1,304.00	4.44	4.45	78.86	298.91	1,518.57	1,547.70	1,538.82	8.89	174.163		
1,400.00	1,400.00	1,404.00	1,404.00	4.79	4.81	78.86	298.91	1,518.57	1,547.70	1,538.10	9.60	161.161		
1,500.00	1,500.00	1,504.00	1,504.00	5.15	5.17	78.86	298.91	1,518.57	1,547.70	1,537.38	10.32	149.966		
1,600.00	1,600.00	1,604.00	1,604.00	5.51	5.53	78.86	298.91	1,518.57	1,547.70	1,536.67	11.04	140.224		
1,700.00	1,700.00	1,704.00	1,704.00	5.87	5.88	78.86	298.91	1,518.57	1,547.70	1,535.95	11.75	131.672		
1,800.00	1,800.00	1,804.00	1,804.00	6.23	6.24	78.86	298.91	1,518.57	1,547.70	1,535.23	12.47	124.102		
1,900.00	1,900.00	1,904.00	1,904.00	6.59	6.60	78.86	298.91	1,518.57	1,547.70	1,534.52	13.19	117.356		
2,000.00	2,000.00	2,004.00	2,004.00	6.95	6.96	78.86	298.91	1,518.57	1,547.70	1,533.80	13.91	111.305		
2,100.00	2,099.98	2,103.98	2,103.98	7.29	7.32	-55.98	298.91	1,518.57	1,546.73	1,532.12	14.61	105.894		
2,200.00	2,199.84	2,203.84	2,203.84	7.62	7.68	-56.19	298.91	1,518.57	1,543.80	1,528.51	15.29	100.943		
2,300.00	2,299.45	2,303.45	2,303.45	7.95	8.03	-56.54	298.91	1,518.57	1,538.96	1,522.98	15.98	96.282		
2,400.00	2,398.70	2,402.70	2,402.70	8.30	8.39	-57.03	298.91	1,518.57	1,532.25	1,515.58	16.68	91.875		
2,500.00	2,497.47	2,501.47	2,501.47	8.65	8.74	-57.67	298.91	1,518.57	1,523.74	1,506.36	17.38	87.690		
2,600.00	2,595.62	2,599.62	2,599.62	9.01	9.09	-58.45	298.91	1,518.57	1,513.51	1,495.43	18.08	83.699		
2,700.00	2,693.44	2,718.88	2,718.85	9.39	9.50	-59.17	296.46	1,518.29	1,501.86	1,483.01	18.85	79.686		
2,800.00	2,791.25	2,839.12	2,838.85	9.77	9.89	-59.73	289.00	1,517.45	1,488.93	1,469.33	19.60	75.956		
2,900.00	2,889.07	2,959.85	2,958.90	10.17	10.28	-60.12	276.48	1,516.05	1,474.62	1,454.25	20.37	72.403		
3,000.00	2,986.88	3,080.63	3,078.38	10.57	10.69	-60.34	258.94	1,514.08	1,458.85	1,437.71	21.14	69.009		
3,100.00	3,084.70	3,201.04	3,196.64	10.99	11.10	-60.36	236.49	1,511.56	1,441.60	1,419.68	21.92	65.757		
3,200.00	3,182.51	3,299.21	3,292.67	11.41	11.45	-60.31	216.20	1,509.29	1,423.62	1,400.95	22.67	62.802		
3,300.00	3,280.33	3,397.57	3,388.88	11.83	11.81	-60.25	195.88	1,507.01	1,405.64	1,382.21	23.43	60.000		
3,400.00	3,378.14	3,495.93	3,485.09	12.26	12.18	-60.20	175.56	1,504.73	1,387.66	1,363.46	24.20	57.344		
3,500.00	3,475.96	3,594.30	3,581.30	12.69	12.56	-60.14	155.23	1,502.45	1,369.69	1,344.70	24.98	54.827		
3,600.00	3,573.77	3,692.66	3,677.51	13.13	12.95	-60.06	134.91	1,500.17	1,351.71	1,325.94	25.77	52.443		
3,700.00	3,671.97	3,791.15	3,773.85	13.57	13.34	-59.62	114.56	1,497.89	1,334.72	1,308.15	26.57	50.236		
3,800.00	3,770.78	3,889.78	3,870.33	13.98	13.74	-59.08	94.18	1,495.60	1,319.49	1,292.13	27.36	48.233		
3,900.00	3,870.05	3,988.43	3,966.82	14.38	14.14	-58.44	73.80	1,493.31	1,306.08	1,277.94	28.14	46.421		
4,000.00	3,969.69	4,086.98	4,063.22	14.75	14.55	-57.70	53.44	1,491.03	1,294.57	1,265.67	28.90	44.789		
4,100.00	4,069.56	4,185.31	4,159.40	15.11	14.96	-56.86	33.12	1,488.75	1,285.07	1,255.41	29.66	43.326		
4,200.00	4,169.54	4,283.31	4,255.26	15.44	15.38	78.85	12.87	1,486.48	1,277.69	1,247.29	30.40	42.024		
4,300.00	4,269.54	4,381.12	4,350.94	15.77	15.79	79.73	-7.34	1,484.21	1,271.45	1,240.31	31.14	40.824		
4,400.00	4,369.54	4,478.94	4,446.61	16.10	16.22	80.61	-27.55	1,481.94	1,265.52	1,233.63	31.89	39.683		
4,500.00	4,469.54	4,576.75	4,542.29	16.43	16.64	81.50	-47.76	1,479.68	1,259.90	1,227.26	32.64	38.597		
4,600.00	4,569.54	4,674.57	4,637.97	16.76	17.07	82.40	-67.97	1,477.41	1,254.61	1,221.21	33.40	37.563		
4,700.00	4,669.54	4,772.38	4,733.64	17.09	17.50	83.31	-88.18	1,475.14	1,249.64	1,215.47	34.16	36.581		
4,800.00	4,769.54	4,870.20	4,829.32	17.43	17.93	84.22	-108.39	1,472.88	1,244.99	1,210.06	34.93	35.645		
4,900.00	4,869.54	4,968.01	4,925.00	17.76	18.37	85.14	-128.60	1,470.61	1,240.68	1,204.98	35.70	34.756		
5,000.00	4,969.54	5,065.83	5,020.68	18.10	18.81	86.06	-148.81	1,468.34	1,236.70	1,200.23	36.47	33.909		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,069.54	5,161.85	5,114.62	18.43	19.24	86.97	-168.54	1,466.13	1,233.07	1,195.83	37.24	33.112		
5,200.00	5,169.54	5,253.83	5,205.04	18.77	19.64	87.75	-185.33	1,464.25	1,230.14	1,192.15	37.99	32.384		
5,300.00	5,269.54	5,346.83	5,296.95	19.11	20.03	88.40	-199.36	1,462.67	1,227.91	1,189.19	38.72	31.713		
5,400.00	5,369.54	5,440.66	5,390.11	19.45	20.40	88.92	-210.50	1,461.42	1,226.29	1,186.85	39.44	31.094		
5,500.00	5,469.54	5,535.14	5,484.23	19.79	20.76	89.30	-218.65	1,460.51	1,225.19	1,185.04	40.14	30.522		
5,600.00	5,569.54	5,630.06	5,579.00	20.13	21.10	89.54	-223.73	1,459.94	1,224.53	1,183.70	40.83	29.993		
5,700.00	5,669.54	5,725.21	5,674.13	20.47	21.42	89.63	-225.68	1,459.72	1,224.28	1,182.79	41.49	29.505		
5,738.00	5,707.54	5,762.62	5,711.54	20.60	21.54	89.63	-225.71	1,459.72	1,224.28	1,182.54	41.75	29.327		
5,800.00	5,769.54	5,824.62	5,773.54	20.81	21.73	89.63	-225.71	1,459.72	1,224.28	1,182.13	42.16	29.042		
5,900.00	5,869.54	5,924.62	5,873.54	21.15	22.05	89.63	-225.71	1,459.72	1,224.28	1,181.46	42.82	28.592		
6,000.00	5,969.54	6,024.62	5,973.54	21.49	22.37	89.63	-225.71	1,459.72	1,224.28	1,180.80	43.48	28.155		
6,100.00	6,069.54	6,124.62	6,073.54	21.83	22.69	89.63	-225.71	1,459.72	1,224.28	1,180.13	44.15	27.730		
6,200.00	6,169.54	6,224.62	6,173.54	22.18	23.01	89.63	-225.71	1,459.72	1,224.28	1,179.46	44.82	27.317		
6,300.00	6,269.54	6,324.62	6,273.54	22.52	23.33	89.63	-225.71	1,459.72	1,224.28	1,178.79	45.49	26.915		
6,400.00	6,369.54	6,424.62	6,373.54	22.87	23.65	89.63	-225.71	1,459.72	1,224.28	1,178.12	46.16	26.524		
6,500.00	6,469.54	6,524.62	6,473.54	23.21	23.98	89.63	-225.71	1,459.72	1,224.28	1,177.45	46.83	26.143		
6,600.00	6,569.54	6,624.62	6,573.54	23.56	24.30	89.63	-225.71	1,459.72	1,224.28	1,176.78	47.50	25.772		
6,700.00	6,669.54	6,724.62	6,673.54	23.90	24.63	89.63	-225.71	1,459.72	1,224.28	1,176.10	48.18	25.412		
6,800.00	6,769.54	6,824.62	6,773.54	24.25	24.95	89.63	-225.71	1,459.72	1,224.28	1,175.43	48.85	25.060		
6,900.00	6,869.54	6,924.62	6,873.54	24.59	25.28	89.63	-225.71	1,459.72	1,224.28	1,174.75	49.53	24.718		
7,000.00	6,969.54	7,024.62	6,973.54	24.94	25.61	89.63	-225.71	1,459.72	1,224.28	1,174.07	50.21	24.384		
7,100.00	7,069.54	7,124.62	7,073.54	25.29	25.94	89.63	-225.71	1,459.72	1,224.28	1,173.39	50.89	24.058		
7,200.00	7,169.54	7,224.62	7,173.54	25.63	26.27	89.63	-225.71	1,459.72	1,224.28	1,172.71	51.57	23.741		
7,300.00	7,269.54	7,324.62	7,273.54	25.98	26.60	89.63	-225.71	1,459.72	1,224.28	1,172.03	52.25	23.432		
7,400.00	7,369.54	7,424.62	7,373.54	26.33	26.93	89.63	-225.71	1,459.72	1,224.28	1,171.35	52.93	23.130		
7,500.00	7,469.54	7,524.62	7,473.54	26.68	27.26	89.63	-225.71	1,459.72	1,224.28	1,170.67	53.61	22.835		
7,600.00	7,569.54	7,624.62	7,573.54	27.03	27.60	89.63	-225.71	1,459.72	1,224.28	1,169.98	54.30	22.548		
7,700.00	7,669.54	7,724.62	7,673.54	27.37	27.93	89.63	-225.71	1,459.72	1,224.28	1,169.30	54.98	22.267		
7,800.00	7,769.54	7,824.62	7,773.54	27.72	28.26	89.63	-225.71	1,459.72	1,224.28	1,168.61	55.67	21.993		
7,900.00	7,869.54	7,924.62	7,873.54	28.07	28.60	89.63	-225.71	1,459.72	1,224.28	1,167.93	56.35	21.725		
8,000.00	7,969.54	8,024.62	7,973.54	28.42	28.93	89.63	-225.71	1,459.72	1,224.28	1,167.24	57.04	21.463		
8,100.00	8,069.54	8,124.62	8,073.54	28.77	29.27	89.63	-225.71	1,459.72	1,224.28	1,166.55	57.73	21.208		
8,200.00	8,169.54	8,224.62	8,173.54	29.12	29.61	89.63	-225.71	1,459.72	1,224.28	1,165.86	58.42	20.958		
8,300.00	8,269.54	8,324.62	8,273.54	29.47	29.94	89.63	-225.71	1,459.72	1,224.28	1,165.18	59.11	20.713		
8,400.00	8,369.54	8,424.62	8,373.54	29.82	30.28	89.63	-225.71	1,459.72	1,224.28	1,164.49	59.80	20.475		
8,500.00	8,469.54	8,524.62	8,473.54	30.17	30.62	89.63	-225.71	1,459.72	1,224.28	1,163.80	60.49	20.241		
8,600.00	8,569.54	8,624.62	8,573.54	30.52	30.95	89.63	-225.71	1,459.72	1,224.28	1,163.10	61.18	20.012		
8,700.00	8,669.54	8,724.62	8,673.54	30.87	31.29	89.63	-225.71	1,459.72	1,224.28	1,162.41	61.87	19.789		
8,800.00	8,769.54	8,824.62	8,773.54	31.22	31.63	89.63	-225.71	1,459.72	1,224.28	1,161.72	62.56	19.570		
8,900.00	8,869.54	8,924.62	8,873.54	31.57	31.97	89.63	-225.71	1,459.72	1,224.28	1,161.03	63.25	19.355		
9,000.00	8,969.54	9,024.62	8,973.54	31.93	32.31	89.63	-225.71	1,459.72	1,224.28	1,160.34	63.95	19.146		
9,100.00	9,069.54	9,124.62	9,073.54	32.28	32.65	89.63	-225.71	1,459.72	1,224.28	1,159.64	64.64	18.940		
9,200.00	9,169.54	9,224.62	9,173.54	32.63	32.99	89.63	-225.71	1,459.72	1,224.28	1,158.95	65.33	18.739		
9,300.00	9,269.54	9,324.62	9,273.54	32.98	33.33	89.63	-225.71	1,459.72	1,224.28	1,158.25	66.03	18.542		
9,400.00	9,369.54	9,424.62	9,373.54	33.33	33.68	89.63	-225.71	1,459.72	1,224.28	1,157.56	66.72	18.349		
9,500.00	9,469.54	9,524.62	9,473.54	33.68	34.02	89.63	-225.71	1,459.72	1,224.28	1,156.86	67.42	18.159		
9,600.00	9,569.54	9,624.62	9,573.54	34.04	34.36	89.63	-225.71	1,459.72	1,224.28	1,156.17	68.11	17.974		
9,700.00	9,669.54	9,724.62	9,673.54	34.39	34.70	89.63	-225.71	1,459.72	1,224.28	1,155.47	68.81	17.792		
9,800.00	9,769.54	9,824.62	9,773.54	34.74	35.04	89.63	-225.71	1,459.72	1,224.28	1,154.77	69.51	17.614		
9,900.00	9,869.54	9,924.62	9,873.54	35.09	35.39	89.63	-225.71	1,459.72	1,224.28	1,154.08	70.20	17.439		
10,000.00	9,969.54	10,024.62	9,973.54	35.45	35.73	89.63	-225.71	1,459.72	1,224.28	1,153.38	70.90	17.267		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:							Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside					Minimum	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	(usft)	(usft)			
10,100.00	10,069.54	10,124.62	10,073.54	35.80	36.07	89.63	-225.71	1,459.72	1,224.28	1,152.68	71.60	17.099		
10,200.00	10,169.54	10,224.62	10,173.54	36.15	36.42	89.63	-225.71	1,459.72	1,224.28	1,151.98	72.30	16.934		
10,300.00	10,269.54	10,324.62	10,273.54	36.51	36.76	89.63	-225.71	1,459.72	1,224.28	1,151.28	73.00	16.772		
10,400.00	10,369.54	10,424.62	10,373.54	36.86	37.11	89.63	-225.71	1,459.72	1,224.28	1,150.58	73.70	16.612		
10,500.00	10,469.54	10,524.62	10,473.54	37.21	37.45	89.63	-225.71	1,459.72	1,224.28	1,149.89	74.40	16.456		
10,600.00	10,569.54	10,624.62	10,573.54	37.57	37.80	89.63	-225.71	1,459.72	1,224.28	1,149.19	75.10	16.303		
10,700.00	10,669.54	10,724.62	10,673.54	37.92	38.14	89.63	-225.71	1,459.72	1,224.28	1,148.49	75.80	16.152		
10,800.00	10,769.54	10,824.62	10,773.54	38.27	38.49	89.63	-225.71	1,459.72	1,224.28	1,147.79	76.50	16.004		
10,900.00	10,869.54	10,924.62	10,873.54	38.63	38.83	89.63	-225.71	1,459.72	1,224.28	1,147.08	77.20	15.859		
10,900.00	10,869.54	10,924.62	10,873.54	38.63	38.83	89.63	-225.71	1,459.72	1,224.28	1,147.08	77.20	15.859	CC	
11,000.00	10,969.45	11,018.36	10,967.28	38.98	39.16	90.09	-225.28	1,459.77	1,224.36	1,146.49	77.87	15.723		
11,100.00	11,067.64	11,100.00	11,048.35	39.30	39.41	90.24	-216.39	1,460.89	1,225.80	1,147.35	78.45	15.625		
11,200.00	11,161.16	11,175.80	11,121.79	39.59	39.62	90.33	-197.99	1,463.22	1,229.06	1,150.13	78.93	15.571		
11,300.00	11,247.17	11,255.85	11,195.96	39.83	39.81	90.38	-168.30	1,466.97	1,234.15	1,154.78	79.37	15.550		
11,400.00	11,323.06	11,337.21	11,266.34	40.03	39.97	90.40	-127.93	1,472.07	1,240.99	1,161.23	79.76	15.559		
11,500.00	11,386.52	11,420.27	11,331.50	40.18	40.10	90.37	-76.94	1,478.51	1,249.50	1,169.37	80.13	15.593		
11,600.00	11,435.62	11,505.49	11,389.92	40.33	40.22	90.31	-15.49	1,486.27	1,259.53	1,179.04	80.49	15.648		
11,700.00	11,468.88	11,593.44	11,439.89	40.54	40.33	90.23	56.20	1,495.33	1,270.90	1,190.05	80.85	15.719		
11,800.00	11,485.28	11,684.76	11,479.46	40.77	40.43	90.14	137.76	1,505.63	1,283.36	1,202.16	81.20	15.804		
11,900.00	11,486.77	11,780.84	11,506.45	41.03	40.54	90.67	229.12	1,517.17	1,296.60	1,215.04	81.56	15.898		
12,000.00	11,486.33	11,883.32	11,517.86	41.36	40.67	91.18	330.02	1,529.92	1,309.99	1,227.99	81.99	15.977		
12,100.00	11,485.90	11,983.23	11,517.49	41.74	40.82	91.17	429.14	1,542.44	1,323.18	1,240.64	82.54	16.031		
12,200.00	11,485.46	12,240.41	11,515.90	42.19	41.51	91.14	685.56	1,559.43	1,330.42	1,246.79	83.63	15.908		
12,300.00	11,485.02	12,358.62	11,515.17	42.70	41.97	91.13	803.77	1,558.81	1,330.46	1,245.88	84.58	15.730		
12,400.00	11,484.59	12,458.62	11,514.55	43.26	42.42	91.12	903.76	1,558.14	1,330.45	1,244.87	85.59	15.545		
12,500.00	11,484.15	12,558.62	11,513.93	43.88	42.92	91.11	1,003.76	1,557.48	1,330.45	1,243.74	86.71	15.343		
12,600.00	11,483.71	12,658.62	11,513.32	44.55	43.49	91.10	1,103.76	1,556.82	1,330.45	1,242.50	87.95	15.128		
12,700.00	11,483.27	12,758.62	11,512.70	45.27	44.11	91.10	1,203.75	1,556.15	1,330.44	1,241.15	89.29	14.900		
12,800.00	11,482.83	12,858.62	11,512.08	46.04	44.79	91.09	1,303.75	1,555.49	1,330.44	1,239.71	90.73	14.664		
12,900.00	11,482.39	12,958.62	11,511.46	46.85	45.51	91.08	1,403.74	1,554.82	1,330.44	1,238.17	92.27	14.419		
13,000.00	11,481.95	13,058.62	11,510.84	47.71	46.28	91.07	1,503.74	1,554.16	1,330.43	1,236.54	93.90	14.169		
13,100.00	11,481.52	13,158.62	11,510.22	48.61	47.10	91.06	1,603.73	1,553.50	1,330.43	1,234.82	95.61	13.915		
13,200.00	11,481.08	13,258.62	11,509.60	49.55	47.96	91.06	1,703.73	1,552.83	1,330.43	1,233.01	97.41	13.658		
13,300.00	11,480.64	13,358.62	11,508.98	50.52	48.86	91.05	1,803.73	1,552.17	1,330.42	1,231.13	99.29	13.399		
13,400.00	11,480.20	13,458.62	11,508.36	51.53	49.80	91.04	1,903.72	1,551.50	1,330.42	1,229.18	101.24	13.141		
13,500.00	11,479.75	13,558.62	11,507.75	52.57	50.78	91.03	2,003.72	1,550.84	1,330.42	1,227.16	103.26	12.884		
13,600.00	11,479.31	13,658.62	11,507.13	53.65	51.79	91.03	2,103.71	1,550.18	1,330.42	1,225.07	105.35	12.629		
13,700.00	11,478.87	13,758.62	11,506.51	54.75	52.84	91.02	2,203.71	1,549.51	1,330.41	1,222.92	107.49	12.377		
13,800.00	11,478.43	13,858.62	11,505.89	55.88	53.91	91.01	2,303.70	1,548.85	1,330.41	1,220.71	109.70	12.128		
13,900.00	11,477.99	13,958.62	11,505.27	57.03	55.02	91.00	2,403.70	1,548.18	1,330.41	1,218.45	111.96	11.883		
14,000.00	11,477.55	14,058.62	11,504.65	58.21	56.15	90.99	2,503.70	1,547.52	1,330.41	1,216.14	114.27	11.642		
14,100.00	11,477.11	14,158.62	11,504.03	59.41	57.31	90.99	2,603.69	1,546.85	1,330.41	1,213.77	116.63	11.407		
14,200.00	11,476.66	14,258.62	11,503.41	60.64	58.49	90.98	2,703.69	1,546.19	1,330.40	1,211.37	119.04	11.176		
14,300.00	11,476.22	14,358.62	11,502.79	61.88	59.69	90.97	2,803.68	1,545.53	1,330.40	1,208.92	121.48	10.951		
14,400.00	11,475.78	14,458.62	11,502.17	63.14	60.92	90.96	2,903.68	1,544.86	1,330.40	1,206.43	123.97	10.731		
14,500.00	11,475.34	14,558.62	11,501.56	64.42	62.16	90.96	3,003.67	1,544.20	1,330.40	1,203.90	126.50	10.517		
14,600.00	11,474.89	14,658.62	11,500.94	65.72	63.43	90.95	3,103.67	1,543.53	1,330.40	1,201.34	129.06	10.308		
14,700.00	11,474.45	14,758.62	11,500.32	67.03	64.71	90.94	3,203.67	1,542.87	1,330.40	1,198.74	131.66	10.105		
14,800.00	11,474.00	14,858.62	11,499.70	68.36	66.01	90.93	3,303.66	1,542.21	1,330.40	1,196.11	134.28	9.907		
14,900.00	11,473.56	14,958.62	11,499.08	69.70	67.32	90.93	3,403.66	1,541.54	1,330.39	1,193.45	136.94	9.715		
15,000.00	11,473.12	15,058.62	11,498.46	71.06	68.65	90.92	3,503.65	1,540.88	1,330.39	1,190.77	139.62	9.528		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD				Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,100.00	11,472.67	15,158.62	11,497.84	72.43	69.99	90.91	3,603.65	1,540.21	1,330.39	1,188.06	142.34	9.347			
15,200.00	11,472.23	15,258.62	11,497.22	73.81	71.35	90.90	3,703.64	1,539.55	1,330.39	1,185.32	145.07	9.171			
15,300.00	11,471.78	15,358.62	11,496.60	75.20	72.72	90.90	3,803.64	1,538.89	1,330.39	1,182.56	147.83	8.999			
15,400.00	11,471.34	15,458.62	11,495.99	76.60	74.10	90.89	3,903.64	1,538.22	1,330.39	1,179.78	150.61	8.833			
15,500.00	11,470.89	15,558.62	11,495.37	78.01	75.49	90.88	4,003.63	1,537.56	1,330.39	1,176.97	153.42	8.672			
15,600.00	11,470.44	15,658.62	11,494.75	79.43	76.89	90.87	4,103.63	1,536.89	1,330.39	1,174.15	156.24	8.515			
15,698.76	11,470.00	15,757.38	11,494.14	80.84	78.29	90.87	4,202.38	1,536.24	1,330.39	1,171.34	159.05	8.365			
15,700.00	11,470.00	15,758.62	11,494.13	80.86	78.30	90.87	4,203.62	1,536.23	1,330.39	1,171.31	159.08	8.363			
15,800.00	11,469.55	15,858.62	11,493.51	82.30	79.72	90.86	4,303.62	1,535.56	1,330.39	1,168.45	161.94	8.215			
15,900.00	11,469.10	15,958.62	11,492.89	83.74	81.16	90.85	4,403.61	1,534.90	1,330.39	1,165.57	164.82	8.072			
16,000.00	11,468.66	16,058.62	11,492.27	85.20	82.59	90.84	4,503.61	1,534.24	1,330.39	1,162.68	167.71	7.932			
16,100.00	11,468.21	16,158.62	11,491.65	86.66	84.04	90.84	4,603.61	1,533.57	1,330.39	1,159.77	170.62	7.797			
16,200.00	11,467.76	16,258.62	11,491.03	88.13	85.50	90.83	4,703.60	1,532.91	1,330.39	1,156.85	173.55	7.666			
16,300.00	11,467.32	16,358.62	11,490.42	89.60	86.96	90.82	4,803.60	1,532.24	1,330.39	1,153.91	176.48	7.538			
16,400.00	11,466.87	16,458.62	11,489.80	91.08	88.43	90.82	4,903.59	1,531.58	1,330.39	1,150.96	179.43	7.414			
16,500.00	11,466.42	16,558.62	11,489.18	92.57	89.90	90.81	5,003.59	1,530.92	1,330.40	1,148.00	182.40	7.294			
16,600.00	11,465.97	16,658.62	11,488.56	94.06	91.38	90.80	5,103.58	1,530.25	1,330.40	1,145.03	185.37	7.177			
16,700.00	11,465.52	16,758.62	11,487.94	95.56	92.87	90.79	5,203.58	1,529.59	1,330.40	1,142.04	188.36	7.063			
16,800.00	11,465.07	16,858.62	11,487.32	97.06	94.36	90.79	5,303.58	1,528.92	1,330.40	1,139.05	191.35	6.953			
16,900.00	11,464.62	16,958.62	11,486.70	98.57	95.86	90.78	5,403.57	1,528.26	1,330.40	1,136.04	194.36	6.845			
17,000.00	11,464.17	17,058.62	11,486.08	100.08	97.36	90.77	5,503.57	1,527.60	1,330.40	1,133.03	197.38	6.740			
17,100.00	11,463.72	17,158.62	11,485.46	101.60	98.87	90.76	5,603.56	1,526.93	1,330.40	1,130.00	200.40	6.639			
17,200.00	11,463.27	17,258.62	11,484.84	103.12	100.38	90.76	5,703.56	1,526.27	1,330.41	1,126.97	203.44	6.540			
17,300.00	11,462.82	17,358.62	11,484.23	104.65	101.90	90.75	5,803.55	1,525.60	1,330.41	1,123.93	206.48	6.443			
17,400.00	11,462.37	17,458.62	11,483.61	106.18	103.42	90.74	5,903.55	1,524.94	1,330.41	1,120.88	209.53	6.349			
17,500.00	11,461.92	17,558.62	11,482.99	107.71	104.95	90.73	6,003.55	1,524.28	1,330.41	1,117.82	212.59	6.258			
17,600.00	11,461.47	17,658.62	11,482.37	109.25	106.48	90.73	6,103.54	1,523.61	1,330.41	1,114.76	215.66	6.169			
17,700.00	11,461.02	17,758.62	11,481.75	110.79	108.01	90.72	6,203.54	1,522.95	1,330.42	1,111.68	218.73	6.082			
17,800.00	11,460.57	17,858.62	11,481.13	112.33	109.55	90.71	6,303.53	1,522.28	1,330.42	1,108.60	221.81	5.998			
17,900.00	11,460.12	17,958.62	11,480.51	113.88	111.09	90.71	6,403.53	1,521.62	1,330.42	1,105.52	224.90	5.916			
18,000.00	11,459.66	18,058.62	11,479.89	115.43	112.63	90.70	6,503.52	1,520.95	1,330.42	1,102.43	228.00	5.835			
18,100.00	11,459.21	18,158.62	11,479.27	116.98	114.18	90.69	6,603.52	1,520.29	1,330.43	1,099.33	231.10	5.757			
18,200.00	11,458.76	18,258.62	11,478.66	118.54	115.73	90.68	6,703.52	1,519.63	1,330.43	1,096.23	234.20	5.681			
18,300.00	11,458.31	18,358.62	11,478.04	120.09	117.28	90.68	6,803.51	1,518.96	1,330.43	1,093.12	237.31	5.606			
18,400.00	11,457.85	18,458.61	11,477.42	121.66	118.84	90.67	6,903.51	1,518.30	1,330.44	1,090.01	240.43	5.534			
18,500.00	11,457.40	18,558.61	11,476.80	123.22	120.40	90.66	7,003.50	1,517.63	1,330.44	1,086.89	243.55	5.463			
18,600.00	11,456.95	18,658.61	11,476.18	124.78	121.96	90.66	7,103.50	1,516.97	1,330.44	1,083.76	246.68	5.393			
18,700.00	11,456.49	18,758.61	11,475.56	126.35	123.52	90.65	7,203.50	1,516.31	1,330.45	1,080.63	249.81	5.326			
18,800.00	11,456.04	18,858.61	11,474.94	127.92	125.09	90.64	7,303.49	1,515.64	1,330.45	1,077.50	252.95	5.260			
18,900.00	11,455.58	18,958.61	11,474.32	129.50	126.66	90.63	7,403.49	1,514.98	1,330.45	1,074.36	256.09	5.195			
19,000.00	11,455.13	19,058.61	11,473.70	131.07	128.23	90.63	7,503.48	1,514.31	1,330.46	1,071.22	259.24	5.132			
19,100.00	11,454.67	19,158.61	11,473.08	132.65	129.80	90.62	7,603.48	1,513.65	1,330.46	1,068.08	262.38	5.071			
19,200.00	11,454.22	19,258.61	11,472.47	134.22	131.37	90.61	7,703.47	1,512.99	1,330.47	1,064.93	265.54	5.010			
19,300.00	11,453.76	19,358.61	11,471.85	135.80	132.95	90.61	7,803.47	1,512.32	1,330.47	1,061.77	268.70	4.952			
19,400.00	11,453.31	19,458.61	11,471.23	137.39	134.53	90.60	7,903.47	1,511.66	1,330.47	1,058.62	271.86	4.894			
19,500.00	11,452.85	19,558.61	11,470.61	138.97	136.11	90.59	8,003.46	1,510.99	1,330.48	1,055.46	275.02	4.838			
19,600.00	11,452.39	19,658.61	11,469.99	140.56	137.69	90.59	8,103.46	1,510.33	1,330.48	1,052.29	278.19	4.783			
19,700.00	11,451.94	19,758.61	11,469.37	142.14	139.27	90.58	8,203.45	1,509.66	1,330.49	1,049.13	281.36	4.729			
19,800.00	11,451.48	19,858.61	11,468.75	143.73	140.86	90.57	8,303.45	1,509.00	1,330.49	1,045.96	284.54	4.676			
19,900.00	11,451.02	19,958.61	11,468.13	145.32	142.45	90.56	8,403.44	1,508.34	1,330.50	1,042.78	287.71	4.624			
20,000.00	11,450.57	20,058.61	11,467.51	146.91	144.04	90.56	8,503.44	1,507.67	1,330.50	1,039.61	290.89	4.574			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD						Rule Assigned:					Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,100.00	11,450.11	20,158.61	11,466.90	148.51	145.63	90.55	8,603.44	1,507.01	1,330.51	1,036.43	294.08	4.524		
20,200.00	11,449.65	20,258.61	11,466.28	150.10	147.22	90.54	8,703.43	1,506.34	1,330.51	1,033.25	297.27	4.476		
20,300.00	11,449.19	20,358.61	11,465.66	151.70	148.81	90.54	8,803.43	1,505.68	1,330.52	1,030.06	300.45	4.428		
20,400.00	11,448.73	20,458.61	11,465.04	153.29	150.41	90.53	8,903.42	1,505.02	1,330.52	1,026.88	303.65	4.382		
20,500.00	11,448.27	20,558.61	11,464.42	154.89	152.00	90.52	9,003.42	1,504.35	1,330.53	1,023.69	306.84	4.336		
20,600.00	11,447.82	20,658.61	11,463.80	156.49	153.60	90.52	9,103.41	1,503.69	1,330.53	1,020.50	310.04	4.292		
20,700.00	11,447.36	20,758.61	11,463.18	158.09	155.20	90.51	9,203.41	1,503.02	1,330.54	1,017.30	313.24	4.248		
20,800.00	11,446.90	20,858.61	11,462.56	159.70	156.80	90.50	9,303.41	1,502.36	1,330.55	1,014.11	316.44	4.205		
20,900.00	11,446.44	20,958.61	11,461.94	161.30	158.40	90.50	9,403.40	1,501.70	1,330.55	1,010.91	319.64	4.163		
21,000.00	11,445.98	21,058.61	11,461.33	162.90	160.00	90.49	9,503.40	1,501.03	1,330.56	1,007.71	322.85	4.121		
21,100.00	11,445.52	21,158.61	11,460.71	164.51	161.60	90.48	9,603.39	1,500.37	1,330.57	1,004.51	326.06	4.081		
21,200.00	11,445.06	21,258.61	11,460.09	166.11	163.21	90.47	9,703.39	1,499.70	1,330.57	1,001.30	329.27	4.041		
21,300.00	11,444.60	21,358.61	11,459.47	167.72	164.81	90.47	9,803.38	1,499.04	1,330.58	998.10	332.48	4.002		
21,400.00	11,444.14	21,458.61	11,458.85	169.33	166.42	90.46	9,903.38	1,498.37	1,330.58	994.89	335.70	3.964		
21,500.00	11,443.67	21,558.61	11,458.23	170.94	168.02	90.45	10,003.38	1,497.71	1,330.59	991.68	338.91	3.926		
21,600.00	11,443.21	21,658.61	11,457.61	172.55	169.63	90.45	10,103.37	1,497.05	1,330.60	988.47	342.13	3.889		
21,700.00	11,442.75	21,758.61	11,456.99	174.16	171.24	90.44	10,203.37	1,496.38	1,330.61	985.25	345.35	3.853		
21,800.00	11,442.29	21,858.61	11,456.37	175.77	172.85	90.43	10,303.36	1,495.72	1,330.61	982.04	348.57	3.817		
21,804.66	11,442.27	21,863.27	11,456.34	175.84	172.93	90.43	10,308.02	1,495.69	1,330.61	981.89	348.72	3.816		
21,862.35	11,442.00	21,918.92	11,456.00	176.77	173.82	90.43	10,363.67	1,495.32	1,330.62	980.06	350.56	3.796 ES, SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-81.30	192.91	-1,260.35	1,275.07				
100.00	100.00	90.00	90.00	0.13	0.12	-81.30	192.91	-1,260.35	1,275.03	1,274.78	0.26	4,992.073	
200.00	200.00	190.00	190.00	0.49	0.46	-81.30	192.91	-1,260.35	1,275.03	1,274.08	0.95	1,342.210	
300.00	300.00	290.00	290.00	0.85	0.82	-81.30	192.91	-1,260.35	1,275.03	1,273.37	1.67	764.915	
400.00	400.00	390.00	390.00	1.21	1.17	-81.30	192.91	-1,260.35	1,275.03	1,272.65	2.38	534.866	
500.00	500.00	490.00	490.00	1.57	1.53	-81.30	192.91	-1,260.35	1,275.03	1,271.93	3.10	411.197	
600.00	600.00	590.00	590.00	1.93	1.89	-81.30	192.91	-1,260.35	1,275.03	1,271.21	3.82	333.977	
700.00	700.00	690.00	690.00	2.29	2.25	-81.30	192.91	-1,260.35	1,275.03	1,270.50	4.53	281.174	
800.00	800.00	790.00	790.00	2.64	2.61	-81.30	192.91	-1,260.35	1,275.03	1,269.78	5.25	242.789	
900.00	900.00	890.00	890.00	3.00	2.97	-81.30	192.91	-1,260.35	1,275.03	1,269.06	5.97	213.625	
1,000.00	1,000.00	990.00	990.00	3.36	3.32	-81.30	192.91	-1,260.35	1,275.03	1,268.35	6.69	190.716	
1,100.00	1,100.00	1,090.00	1,090.00	3.72	3.68	-81.30	192.91	-1,260.35	1,275.03	1,267.63	7.40	172.245	
1,200.00	1,200.00	1,190.00	1,190.00	4.08	4.04	-81.30	192.91	-1,260.35	1,275.03	1,266.91	8.12	157.036	
1,300.00	1,300.00	1,290.00	1,290.00	4.44	4.40	-81.30	192.91	-1,260.35	1,275.03	1,266.20	8.84	144.294	
1,400.00	1,400.00	1,390.00	1,390.00	4.79	4.76	-81.30	192.91	-1,260.35	1,275.03	1,265.48	9.55	133.466	
1,500.00	1,500.00	1,490.00	1,490.00	5.15	5.12	-81.30	192.91	-1,260.35	1,275.03	1,264.76	10.27	124.149	
1,600.00	1,600.00	1,590.00	1,590.00	5.51	5.48	-81.30	192.91	-1,260.35	1,275.03	1,264.04	10.99	116.048	
1,700.00	1,700.00	1,690.00	1,690.00	5.87	5.83	-81.30	192.91	-1,260.35	1,275.03	1,263.33	11.70	108.939	
1,800.00	1,800.00	1,790.00	1,790.00	6.23	6.19	-81.30	192.91	-1,260.35	1,275.03	1,262.61	12.42	102.651	
1,900.00	1,900.00	1,890.00	1,890.00	6.59	6.55	-81.30	192.91	-1,260.35	1,275.03	1,261.89	13.14	97.049	
2,000.00	2,000.00	1,990.00	1,990.00	6.95	6.91	-81.30	192.91	-1,260.35	1,275.03	1,261.18	13.85	92.027 CC, ES	
2,100.00	2,099.98	2,089.98	2,089.98	7.29	7.27	143.95	192.91	-1,260.35	1,276.44	1,261.89	14.56	87.691	
2,200.00	2,199.84	2,189.84	2,189.84	7.62	7.63	144.04	192.91	-1,260.35	1,280.68	1,265.44	15.24	84.014	
2,300.00	2,299.45	2,289.45	2,289.45	7.95	7.98	144.19	192.91	-1,260.35	1,287.75	1,271.82	15.93	80.824	
2,400.00	2,398.70	2,388.70	2,388.70	8.30	8.34	144.38	192.91	-1,260.35	1,297.67	1,281.05	16.62	78.062	
2,500.00	2,497.47	2,487.47	2,487.47	8.65	8.69	144.63	192.91	-1,260.35	1,310.46	1,293.14	17.32	75.677	
2,600.00	2,595.62	2,585.62	2,585.62	9.01	9.04	144.92	192.91	-1,260.35	1,326.14	1,308.13	18.01	73.628	
2,700.00	2,693.44	2,683.44	2,683.44	9.39	9.40	145.43	192.91	-1,260.35	1,343.33	1,324.62	18.71	71.801	
2,800.00	2,791.25	2,781.25	2,781.25	9.77	9.75	145.92	192.91	-1,260.35	1,360.62	1,341.21	19.41	70.096	
2,900.00	2,889.07	2,879.07	2,879.07	10.17	10.10	146.40	192.91	-1,260.35	1,378.01	1,357.89	20.12	68.499	
3,000.00	2,886.88	2,876.88	2,876.88	10.57	10.45	146.87	192.91	-1,260.35	1,395.49	1,374.66	20.83	67.003	
3,100.00	3,084.70	3,060.56	3,060.56	10.99	10.74	147.24	192.42	-1,260.77	1,413.43	1,391.95	21.48	65.815	
3,200.00	3,182.51	3,139.84	3,139.78	11.41	11.00	147.51	190.33	-1,262.59	1,432.68	1,410.58	22.10	64.835	
3,300.00	3,280.33	3,218.96	3,218.74	11.83	11.26	147.69	186.59	-1,265.83	1,453.23	1,430.52	22.71	63.986	
3,400.00	3,378.14	3,300.00	3,299.45	12.26	11.53	147.79	181.05	-1,270.63	1,475.04	1,451.71	23.33	63.214	
3,500.00	3,475.96	3,376.27	3,375.19	12.69	11.79	147.81	174.26	-1,276.51	1,498.10	1,474.16	23.94	62.586	
3,600.00	3,573.77	3,454.24	3,452.33	13.13	12.05	147.77	165.74	-1,283.88	1,522.37	1,497.83	24.55	62.017	
3,700.00	3,671.97	3,531.87	3,528.82	13.57	12.32	147.88	155.69	-1,292.59	1,546.26	1,521.10	25.15	61.472	
3,800.00	3,770.78	3,611.58	3,606.95	13.98	12.60	147.84	143.77	-1,302.92	1,568.52	1,542.75	25.77	60.874	
3,900.00	3,870.05	3,708.86	3,702.10	14.38	12.95	147.62	128.48	-1,316.16	1,588.44	1,561.97	26.47	60.002	
4,000.00	3,969.69	3,806.44	3,797.55	14.75	13.31	147.32	113.14	-1,329.44	1,605.57	1,578.38	27.18	59.066	
4,100.00	4,069.56	3,904.19	3,893.17	15.11	13.68	146.93	97.78	-1,342.74	1,619.92	1,592.03	27.89	58.079	
4,200.00	4,169.54	4,002.01	3,988.85	15.44	14.05	-78.77	82.41	-1,356.06	1,631.55	1,602.95	28.60	57.052	
4,300.00	4,269.54	4,099.83	4,084.53	15.77	14.43	-79.39	67.03	-1,369.37	1,642.11	1,612.81	29.31	56.035	
4,400.00	4,369.54	4,197.64	4,180.21	16.10	14.82	-80.00	51.66	-1,382.69	1,652.87	1,622.85	30.02	55.063	
4,500.00	4,469.54	4,295.46	4,275.88	16.43	15.21	-80.61	36.29	-1,396.00	1,663.81	1,633.08	30.73	54.135	
4,600.00	4,569.54	4,393.27	4,371.56	16.76	15.61	-81.20	20.91	-1,409.32	1,674.94	1,643.49	31.45	53.249	
4,700.00	4,669.54	4,491.09	4,467.24	17.09	16.01	-81.79	5.54	-1,422.63	1,686.25	1,654.08	32.18	52.403	
4,800.00	4,769.54	4,588.90	4,562.92	17.43	16.42	-82.37	-9.83	-1,435.94	1,697.75	1,664.84	32.91	51.595	
4,900.00	4,869.54	4,686.72	4,658.59	17.76	16.83	-82.95	-25.20	-1,449.26	1,709.42	1,675.78	33.63	50.824	
5,000.00	4,969.54	4,784.53	4,754.27	18.10	17.25	-83.51	-40.58	-1,462.57	1,721.26	1,686.89	34.37	50.086	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,100.00	5,069.54	4,882.35	4,849.95	18.43	17.66	-84.07	-55.95	-1,475.89	1,733.27	1,698.17	35.10	49.381	
5,200.00	5,169.54	4,980.16	4,945.63	18.77	18.08	-84.62	-71.32	-1,489.20	1,745.44	1,709.61	35.83	48.708	
5,300.00	5,269.54	5,077.98	5,041.30	19.11	18.51	-85.17	-86.69	-1,502.51	1,757.78	1,721.21	36.57	48.064	
5,400.00	5,369.54	5,175.79	5,136.98	19.45	18.94	-85.70	-102.07	-1,515.83	1,770.27	1,732.96	37.31	47.449	
5,500.00	5,469.54	5,273.61	5,232.66	19.79	19.37	-86.23	-117.44	-1,529.14	1,782.92	1,744.87	38.05	46.860	
5,600.00	5,569.54	5,371.42	5,328.33	20.13	19.80	-86.75	-132.81	-1,542.46	1,795.72	1,756.93	38.79	46.295	
5,700.00	5,669.54	5,469.24	5,424.01	20.47	20.23	-87.27	-148.19	-1,555.77	1,808.67	1,769.14	39.53	45.755	
5,800.00	5,769.54	5,567.05	5,519.69	20.81	20.67	-87.78	-163.56	-1,569.09	1,821.76	1,781.49	40.27	45.238	
5,900.00	5,869.54	5,664.87	5,615.37	21.15	21.11	-88.28	-178.93	-1,582.40	1,835.00	1,793.99	41.01	44.742	
6,000.00	5,969.54	5,762.68	5,711.04	21.49	21.55	-88.77	-194.30	-1,595.71	1,848.38	1,806.62	41.76	44.267	
6,100.00	6,069.54	5,917.44	5,863.03	21.83	22.23	-89.46	-216.29	-1,614.76	1,860.70	1,817.86	42.85	43.427	
6,200.00	6,169.54	6,090.20	6,034.25	22.18	22.93	-90.00	-233.53	-1,629.69	1,869.35	1,825.39	43.96	42.522	
6,300.00	6,269.54	6,265.12	6,208.69	22.52	23.58	-90.29	-243.00	-1,637.89	1,874.07	1,829.07	44.99	41.653	
6,400.00	6,369.54	6,416.00	6,359.54	22.87	24.08	-90.34	-244.84	-1,639.48	1,874.98	1,829.13	45.85	40.893	
6,500.00	6,469.54	6,516.00	6,459.54	23.21	24.40	-90.34	-244.84	-1,639.48	1,874.98	1,828.45	46.53	40.298	
6,600.00	6,569.54	6,616.00	6,559.54	23.56	24.72	-90.34	-244.84	-1,639.48	1,874.98	1,827.77	47.20	39.720	
6,700.00	6,669.54	6,716.00	6,659.54	23.90	25.04	-90.34	-244.84	-1,639.48	1,874.98	1,827.09	47.88	39.157	
6,800.00	6,769.54	6,816.00	6,759.54	24.25	25.37	-90.34	-244.84	-1,639.48	1,874.98	1,826.42	48.56	38.610	
6,900.00	6,869.54	6,916.00	6,859.54	24.59	25.69	-90.34	-244.84	-1,639.48	1,874.98	1,825.73	49.24	38.076	
7,000.00	6,969.54	7,016.00	6,959.54	24.94	26.02	-90.34	-244.84	-1,639.48	1,874.98	1,825.05	49.92	37.556	
7,100.00	7,069.54	7,116.00	7,059.54	25.29	26.34	-90.34	-244.84	-1,639.48	1,874.98	1,824.37	50.61	37.050	
7,200.00	7,169.54	7,216.00	7,159.54	25.63	26.67	-90.34	-244.84	-1,639.48	1,874.98	1,823.69	51.29	36.556	
7,300.00	7,269.54	7,316.00	7,259.54	25.98	27.00	-90.34	-244.84	-1,639.48	1,874.98	1,823.00	51.97	36.075	
7,400.00	7,369.54	7,416.00	7,359.54	26.33	27.32	-90.34	-244.84	-1,639.48	1,874.98	1,822.32	52.66	35.605	
7,500.00	7,469.54	7,516.00	7,459.54	26.68	27.65	-90.34	-244.84	-1,639.48	1,874.98	1,821.63	53.35	35.147	
7,600.00	7,569.54	7,616.00	7,559.54	27.03	27.98	-90.34	-244.84	-1,639.48	1,874.98	1,820.94	54.03	34.701	
7,700.00	7,669.54	7,716.00	7,659.54	27.37	28.31	-90.34	-244.84	-1,639.48	1,874.98	1,820.26	54.72	34.265	
7,800.00	7,769.54	7,816.00	7,759.54	27.72	28.64	-90.34	-244.84	-1,639.48	1,874.98	1,819.57	55.41	33.839	
7,900.00	7,869.54	7,916.00	7,859.54	28.07	28.98	-90.34	-244.84	-1,639.48	1,874.98	1,818.88	56.10	33.423	
8,000.00	7,969.54	8,016.00	7,959.54	28.42	29.31	-90.34	-244.84	-1,639.48	1,874.98	1,818.19	56.79	33.017	
8,100.00	8,069.54	8,116.00	8,059.54	28.77	29.64	-90.34	-244.84	-1,639.48	1,874.98	1,817.50	57.48	32.621	
8,200.00	8,169.54	8,216.00	8,159.54	29.12	29.98	-90.34	-244.84	-1,639.48	1,874.98	1,816.81	58.17	32.233	
8,300.00	8,269.54	8,316.00	8,259.54	29.47	30.31	-90.34	-244.84	-1,639.48	1,874.98	1,816.12	58.86	31.855	
8,400.00	8,369.54	8,416.00	8,359.54	29.82	30.64	-90.34	-244.84	-1,639.48	1,874.98	1,815.42	59.55	31.484	
8,500.00	8,469.54	8,516.00	8,459.54	30.17	30.98	-90.34	-244.84	-1,639.48	1,874.98	1,814.73	60.25	31.122	
8,600.00	8,569.54	8,616.00	8,559.54	30.52	31.32	-90.34	-244.84	-1,639.48	1,874.98	1,814.04	60.94	30.768	
8,700.00	8,669.54	8,716.00	8,659.54	30.87	31.65	-90.34	-244.84	-1,639.48	1,874.98	1,813.34	61.63	30.422	
8,800.00	8,769.54	8,816.00	8,759.54	31.22	31.99	-90.34	-244.84	-1,639.48	1,874.98	1,812.65	62.33	30.083	
8,900.00	8,869.54	8,916.00	8,859.54	31.57	32.33	-90.34	-244.84	-1,639.48	1,874.98	1,811.96	63.02	29.751	
9,000.00	8,969.54	9,016.00	8,959.54	31.93	32.66	-90.34	-244.84	-1,639.48	1,874.98	1,811.26	63.72	29.426	
9,100.00	9,069.54	9,116.00	9,059.54	32.28	33.00	-90.34	-244.84	-1,639.48	1,874.98	1,810.56	64.41	29.108	
9,200.00	9,169.54	9,216.00	9,159.54	32.63	33.34	-90.34	-244.84	-1,639.48	1,874.98	1,809.87	65.11	28.797	
9,300.00	9,269.54	9,316.00	9,259.54	32.98	33.68	-90.34	-244.84	-1,639.48	1,874.98	1,809.17	65.81	28.492	
9,400.00	9,369.54	9,416.00	9,359.54	33.33	34.02	-90.34	-244.84	-1,639.48	1,874.98	1,808.47	66.50	28.194	
9,500.00	9,469.54	9,516.00	9,459.54	33.68	34.36	-90.34	-244.84	-1,639.48	1,874.98	1,807.78	67.20	27.901	
9,600.00	9,569.54	9,616.00	9,559.54	34.04	34.70	-90.34	-244.84	-1,639.48	1,874.98	1,807.08	67.90	27.614	
9,700.00	9,669.54	9,716.00	9,659.54	34.39	35.04	-90.34	-244.84	-1,639.48	1,874.98	1,806.38	68.60	27.333	
9,800.00	9,769.54	9,816.00	9,759.54	34.74	35.38	-90.34	-244.84	-1,639.48	1,874.98	1,805.68	69.30	27.057	
9,900.00	9,869.54	9,916.00	9,859.54	35.09	35.72	-90.34	-244.84	-1,639.48	1,874.98	1,804.98	70.00	26.787	
10,000.00	9,969.54	10,016.00	9,959.54	35.45	36.06	-90.34	-244.84	-1,639.48	1,874.98	1,804.28	70.70	26.522	
10,100.00	10,069.54	10,116.00	10,059.54	35.80	36.41	-90.34	-244.84	-1,639.48	1,874.98	1,803.58	71.39	26.262	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD							Rule Assigned:						Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,169.54	10,216.00	10,159.54	36.15	36.75	-90.34	-244.84	-1,639.48	1,874.98	1,802.88	72.10	26.007	
10,300.00	10,269.54	10,316.00	10,259.54	36.51	37.09	-90.34	-244.84	-1,639.48	1,874.98	1,802.18	72.80	25.757	
10,400.00	10,369.54	10,416.00	10,359.54	36.86	37.43	-90.34	-244.84	-1,639.48	1,874.98	1,801.48	73.50	25.511	
10,500.00	10,469.54	10,516.00	10,459.54	37.21	37.78	-90.34	-244.84	-1,639.48	1,874.98	1,800.78	74.20	25.270	
10,600.00	10,569.54	10,616.00	10,559.54	37.57	38.12	-90.34	-244.84	-1,639.48	1,874.98	1,800.08	74.90	25.033	
10,700.00	10,669.54	10,716.00	10,659.54	37.92	38.46	-90.34	-244.84	-1,639.48	1,874.98	1,799.38	75.60	24.801	
10,800.00	10,769.54	10,816.00	10,759.54	38.27	38.81	-90.34	-244.84	-1,639.48	1,874.98	1,798.68	76.30	24.573	
10,900.00	10,869.54	10,916.00	10,859.54	38.63	39.15	-90.34	-244.84	-1,639.48	1,874.98	1,797.97	77.00	24.349	
10,950.69	10,920.21	10,966.67	10,910.21	38.80	39.33	-90.00	-244.84	-1,639.48	1,874.98	1,797.62	77.36	24.238	
11,000.00	10,969.45	11,015.92	10,959.45	38.98	39.50	-90.04	-244.84	-1,639.48	1,874.98	1,797.28	77.70	24.130	
11,003.34	10,972.77	11,019.23	10,962.77	38.99	39.51	-90.05	-244.84	-1,639.48	1,874.98	1,797.25	77.72	24.124	
11,100.00	11,067.64	11,110.50	11,054.04	39.30	39.82	-90.55	-244.84	-1,639.48	1,875.08	1,796.74	78.35	23.932	
11,200.00	11,161.16	11,182.64	11,125.99	39.59	40.06	-91.05	-240.35	-1,640.12	1,876.42	1,797.55	78.87	23.792	
11,300.00	11,247.17	11,250.00	11,192.17	39.83	40.27	-91.41	-228.11	-1,641.84	1,879.86	1,800.54	79.32	23.701	
11,400.00	11,323.06	11,326.98	11,265.40	40.03	40.47	-91.75	-204.82	-1,645.11	1,885.46	1,805.71	79.74	23.644	
11,500.00	11,386.52	11,400.00	11,331.38	40.18	40.64	-91.91	-173.94	-1,649.45	1,893.27	1,813.14	80.13	23.628	
11,600.00	11,435.62	11,482.26	11,400.25	40.33	40.79	-92.05	-129.54	-1,655.69	1,903.25	1,822.74	80.51	23.641	
11,700.00	11,468.88	11,566.37	11,463.31	40.54	40.91	-92.07	-74.53	-1,663.42	1,915.28	1,834.42	80.86	23.686	
11,800.00	11,485.28	11,656.84	11,521.27	40.77	40.99	-92.05	-5.86	-1,673.07	1,929.16	1,847.96	81.20	23.758	
11,900.00	11,486.77	11,757.40	11,572.00	41.03	41.03	-92.80	79.97	-1,685.13	1,944.44	1,862.91	81.54	23.848	
12,000.00	11,486.33	11,876.25	11,611.34	41.36	41.03	-93.96	190.81	-1,700.71	1,959.77	1,877.81	81.96	23.911	
12,100.00	11,485.90	12,008.21	11,626.99	41.74	41.09	-94.40	320.27	-1,718.91	1,973.90	1,891.36	82.54	23.915	
12,200.00	11,485.46	12,371.70	11,626.63	42.19	42.30	-94.36	681.90	-1,751.81	1,986.92	1,902.84	84.07	23.633	
12,300.00	11,485.02	12,471.70	11,626.53	42.70	42.75	-94.37	781.89	-1,752.47	1,986.94	1,901.94	85.00	23.377	
12,400.00	11,484.59	12,571.70	11,626.43	43.26	43.25	-94.38	881.89	-1,753.13	1,986.96	1,900.92	86.03	23.096	
12,500.00	11,484.15	12,671.70	11,626.33	43.88	43.80	-94.39	981.89	-1,753.79	1,986.98	1,899.80	87.18	22.792	
12,600.00	11,483.71	12,771.70	11,626.23	44.55	44.41	-94.40	1,081.89	-1,754.44	1,986.99	1,898.56	88.43	22.468	
12,700.00	11,483.27	12,871.70	11,626.13	45.27	45.06	-94.41	1,181.88	-1,755.10	1,987.01	1,897.22	89.80	22.128	
12,800.00	11,482.83	12,971.70	11,626.03	46.04	45.77	-94.42	1,281.88	-1,755.76	1,987.03	1,895.78	91.25	21.775	
12,900.00	11,482.39	13,071.70	11,625.93	46.85	46.52	-94.43	1,381.88	-1,756.42	1,987.05	1,894.24	92.81	21.410	
13,000.00	11,481.95	13,171.70	11,625.83	47.71	47.32	-94.44	1,481.87	-1,757.07	1,987.07	1,892.62	94.45	21.038	
13,100.00	11,481.52	13,271.70	11,625.73	48.61	48.16	-94.45	1,581.87	-1,757.73	1,987.09	1,890.91	96.18	20.659	
13,200.00	11,481.08	13,371.70	11,625.63	49.55	49.04	-94.46	1,681.87	-1,758.39	1,987.11	1,889.12	97.99	20.278	
13,300.00	11,480.64	13,471.70	11,625.53	50.52	49.96	-94.47	1,781.87	-1,759.05	1,987.13	1,887.25	99.88	19.895	
13,400.00	11,480.20	13,571.70	11,625.43	51.53	50.91	-94.48	1,881.86	-1,759.70	1,987.15	1,885.31	101.84	19.512	
13,500.00	11,479.75	13,671.70	11,625.33	52.57	51.90	-94.49	1,981.86	-1,760.36	1,987.17	1,883.30	103.87	19.132	
13,600.00	11,479.31	13,771.69	11,625.23	53.65	52.93	-94.50	2,081.86	-1,761.02	1,987.19	1,881.23	105.96	18.754	
13,700.00	11,478.87	13,871.69	11,625.13	54.75	53.98	-94.51	2,181.86	-1,761.68	1,987.21	1,879.10	108.11	18.381	
13,800.00	11,478.43	13,971.69	11,625.03	55.88	55.07	-94.52	2,281.85	-1,762.34	1,987.23	1,876.91	110.32	18.013	
13,900.00	11,477.99	14,071.69	11,624.93	57.03	56.18	-94.53	2,381.85	-1,762.99	1,987.25	1,874.67	112.58	17.651	
14,000.00	11,477.55	14,171.69	11,624.83	58.21	57.32	-94.54	2,481.85	-1,763.65	1,987.27	1,872.37	114.90	17.296	
14,100.00	11,477.11	14,271.69	11,624.73	59.41	58.48	-94.55	2,581.84	-1,764.31	1,987.29	1,870.03	117.26	16.948	
14,200.00	11,476.66	14,371.69	11,624.63	60.64	59.67	-94.56	2,681.84	-1,764.97	1,987.31	1,867.65	119.66	16.608	
14,300.00	11,476.22	14,471.69	11,624.54	61.88	60.88	-94.57	2,781.84	-1,765.62	1,987.33	1,865.22	122.11	16.275	
14,400.00	11,475.78	14,571.69	11,624.44	63.14	62.10	-94.58	2,881.84	-1,766.28	1,987.35	1,862.75	124.59	15.951	
14,500.00	11,475.34	14,671.69	11,624.34	64.42	63.35	-94.59	2,981.83	-1,766.94	1,987.37	1,860.25	127.12	15.634	
14,600.00	11,474.89	14,771.69	11,624.24	65.72	64.62	-94.60	3,081.83	-1,767.60	1,987.39	1,857.71	129.68	15.326	
14,700.00	11,474.45	14,871.69	11,624.14	67.03	65.90	-94.61	3,181.83	-1,768.25	1,987.41	1,855.14	132.27	15.026	
14,800.00	11,474.00	14,971.69	11,624.04	68.36	67.20	-94.62	3,281.82	-1,768.91	1,987.43	1,852.53	134.89	14.734	
14,900.00	11,473.56	15,071.69	11,623.94	69.70	68.52	-94.63	3,381.82	-1,769.57	1,987.44	1,849.90	137.54	14.450	
15,000.00	11,473.12	15,171.69	11,623.84	71.06	69.85	-94.64	3,481.82	-1,770.23	1,987.46	1,847.24	140.22	14.174	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,100.00	11,472.67	15,271.69	11,623.74	72.43	71.19	-94.65	3,581.82	-1,770.88	1,987.48	1,844.56	142.93	13.906		
15,200.00	11,472.23	15,371.69	11,623.64	73.81	72.54	-94.66	3,681.81	-1,771.54	1,987.50	1,841.85	145.66	13.645		
15,300.00	11,471.78	15,471.68	11,623.54	75.20	73.91	-94.67	3,781.81	-1,772.20	1,987.52	1,839.11	148.41	13.392		
15,400.00	11,471.34	15,571.68	11,623.44	76.60	75.29	-94.68	3,881.81	-1,772.86	1,987.54	1,836.36	151.18	13.146		
15,500.00	11,470.89	15,671.68	11,623.34	78.01	76.68	-94.69	3,981.80	-1,773.52	1,987.56	1,833.58	153.98	12.908		
15,600.00	11,470.44	15,771.68	11,623.24	79.43	78.08	-94.70	4,081.80	-1,774.17	1,987.58	1,830.78	156.80	12.676		
15,700.00	11,470.00	15,871.68	11,623.14	80.86	79.49	-94.71	4,181.80	-1,774.83	1,987.60	1,827.97	159.63	12.451		
15,800.00	11,469.55	15,971.68	11,623.04	82.30	80.91	-94.72	4,281.80	-1,775.49	1,987.62	1,825.14	162.48	12.233		
15,900.00	11,469.10	16,071.68	11,622.94	83.74	82.34	-94.73	4,381.79	-1,776.15	1,987.64	1,822.29	165.35	12.021		
16,000.00	11,468.66	16,171.68	11,622.84	85.20	83.78	-94.74	4,481.79	-1,776.80	1,987.66	1,819.42	168.23	11.815		
16,100.00	11,468.21	16,271.68	11,622.74	86.66	85.23	-94.75	4,581.79	-1,777.46	1,987.68	1,816.54	171.13	11.615		
16,200.00	11,467.76	16,371.68	11,622.64	88.13	86.68	-94.76	4,681.79	-1,778.12	1,987.70	1,813.65	174.05	11.421		
16,300.00	11,467.32	16,471.68	11,622.54	89.60	88.14	-94.77	4,781.78	-1,778.78	1,987.72	1,810.74	176.97	11.232		
16,400.00	11,466.87	16,571.68	11,622.44	91.08	89.61	-94.78	4,881.78	-1,779.43	1,987.73	1,807.82	179.91	11.048		
16,500.00	11,466.42	16,671.68	11,622.34	92.57	91.08	-94.79	4,981.78	-1,780.09	1,987.75	1,804.89	182.86	10.870		
16,600.00	11,465.97	16,771.68	11,622.24	94.06	92.56	-94.80	5,081.77	-1,780.75	1,987.77	1,801.95	185.83	10.697		
16,700.00	11,465.52	16,871.68	11,622.15	95.56	94.04	-94.81	5,181.77	-1,781.41	1,987.79	1,798.99	188.80	10.529		
16,800.00	11,465.07	16,971.68	11,622.05	97.06	95.53	-94.82	5,281.77	-1,782.06	1,987.81	1,796.03	191.79	10.365		
16,900.00	11,464.62	17,071.68	11,621.95	98.57	97.03	-94.83	5,381.77	-1,782.72	1,987.83	1,793.05	194.78	10.206		
17,000.00	11,464.17	17,171.67	11,621.85	100.08	98.53	-94.84	5,481.76	-1,783.38	1,987.85	1,790.06	197.79	10.051		
17,100.00	11,463.72	17,271.67	11,621.75	101.60	100.04	-94.85	5,581.76	-1,784.04	1,987.87	1,787.07	200.80	9.900		
17,200.00	11,463.27	17,371.67	11,621.65	103.12	101.55	-94.86	5,681.76	-1,784.69	1,987.89	1,784.07	203.82	9.753		
17,300.00	11,462.82	17,471.67	11,621.55	104.65	103.06	-94.87	5,781.75	-1,785.35	1,987.91	1,781.05	206.85	9.610		
17,400.00	11,462.37	17,571.67	11,621.45	106.18	104.58	-94.88	5,881.75	-1,786.01	1,987.93	1,778.03	209.89	9.471		
17,500.00	11,461.92	17,671.67	11,621.35	107.71	106.11	-94.89	5,981.75	-1,786.67	1,987.95	1,775.01	212.94	9.336		
17,600.00	11,461.47	17,771.67	11,621.25	109.25	107.64	-94.90	6,081.75	-1,787.33	1,987.96	1,771.97	215.99	9.204		
17,700.00	11,461.02	17,871.67	11,621.15	110.79	109.17	-94.91	6,181.74	-1,787.98	1,987.98	1,768.93	219.05	9.075		
17,800.00	11,460.57	17,971.67	11,621.05	112.33	110.70	-94.92	6,281.74	-1,788.64	1,988.00	1,765.88	222.12	8.950		
17,900.00	11,460.12	18,071.67	11,620.95	113.88	112.24	-94.93	6,381.74	-1,789.30	1,988.02	1,762.83	225.20	8.828		
18,000.00	11,459.66	18,171.67	11,620.85	115.43	113.78	-94.94	6,481.73	-1,789.96	1,988.04	1,759.77	228.28	8.709		
18,100.00	11,459.21	18,271.67	11,620.75	116.98	115.33	-94.95	6,581.73	-1,790.61	1,988.06	1,756.70	231.36	8.593		
18,200.00	11,458.76	18,371.67	11,620.65	118.54	116.88	-94.96	6,681.73	-1,791.27	1,988.08	1,753.63	234.45	8.480		
18,300.00	11,458.31	18,471.67	11,620.55	120.09	118.43	-94.97	6,781.73	-1,791.93	1,988.10	1,750.55	237.55	8.369		
18,400.00	11,457.85	18,571.67	11,620.45	121.66	119.98	-94.98	6,881.72	-1,792.59	1,988.12	1,747.47	240.65	8.261		
18,500.00	11,457.40	18,671.67	11,620.35	123.22	121.54	-94.99	6,981.72	-1,793.24	1,988.14	1,744.38	243.76	8.156		
18,600.00	11,456.95	18,771.66	11,620.25	124.78	123.10	-95.00	7,081.72	-1,793.90	1,988.16	1,741.28	246.87	8.053		
18,700.00	11,456.49	18,871.66	11,620.15	126.35	124.66	-95.01	7,181.71	-1,794.56	1,988.18	1,738.18	249.99	7.953		
18,800.00	11,456.04	18,971.66	11,620.05	127.92	126.22	-95.02	7,281.71	-1,795.22	1,988.19	1,735.08	253.11	7.855		
18,900.00	11,455.58	19,071.66	11,619.95	129.50	127.79	-95.03	7,381.71	-1,795.87	1,988.21	1,731.98	256.24	7.759		
19,000.00	11,455.13	19,171.66	11,619.85	131.07	129.36	-95.04	7,481.71	-1,796.53	1,988.23	1,728.86	259.37	7.666		
19,100.00	11,454.67	19,271.66	11,619.76	132.65	130.93	-95.05	7,581.70	-1,797.19	1,988.25	1,725.75	262.50	7.574		
19,200.00	11,454.22	19,371.66	11,619.66	134.22	132.50	-95.06	7,681.70	-1,797.85	1,988.27	1,722.63	265.64	7.485		
19,300.00	11,453.76	19,471.66	11,619.56	135.80	134.07	-95.07	7,781.70	-1,798.50	1,988.29	1,719.51	268.78	7.397		
19,400.00	11,453.31	19,571.66	11,619.46	137.39	135.65	-95.08	7,881.69	-1,799.16	1,988.31	1,716.38	271.92	7.312		
19,500.00	11,452.85	19,671.66	11,619.36	138.97	137.23	-95.09	7,981.69	-1,799.82	1,988.33	1,713.25	275.07	7.228		
19,600.00	11,452.39	19,771.66	11,619.26	140.56	138.81	-95.10	8,081.69	-1,800.48	1,988.35	1,710.12	278.22	7.147		
19,700.00	11,451.94	19,871.66	11,619.16	142.14	140.39	-95.11	8,181.69	-1,801.14	1,988.37	1,706.99	281.38	7.067		
19,800.00	11,451.48	19,971.66	11,619.06	143.73	141.98	-95.12	8,281.68	-1,801.79	1,988.38	1,703.85	284.54	6.988		
19,900.00	11,451.02	20,071.66	11,618.96	145.32	143.56	-95.13	8,381.68	-1,802.45	1,988.40	1,700.71	287.70	6.911		
20,000.00	11,450.57	20,171.66	11,618.86	146.91	145.15	-95.14	8,481.68	-1,803.11	1,988.42	1,697.56	290.86	6.836		
20,100.00	11,450.11	20,271.66	11,618.76	148.51	146.74	-95.15	8,581.67	-1,803.77	1,988.44	1,694.41	294.03	6.763		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #2											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
20,200.00	11,449.65	20,371.65	11,618.66	150.10	148.33	-95.17	8,681.67	-1,804.42	1,988.46	1,691.26	297.20	6.691
20,300.00	11,449.19	20,471.65	11,618.56	151.70	149.92	-95.18	8,781.67	-1,805.08	1,988.48	1,688.11	300.37	6.620
20,400.00	11,448.73	20,571.65	11,618.46	153.29	151.51	-95.19	8,881.67	-1,805.74	1,988.50	1,684.95	303.54	6.551
20,500.00	11,448.27	20,671.65	11,618.36	154.89	153.11	-95.20	8,981.66	-1,806.40	1,988.52	1,681.80	306.72	6.483
20,600.00	11,447.82	20,771.65	11,618.26	156.49	154.70	-95.21	9,081.66	-1,807.05	1,988.54	1,678.64	309.90	6.417
20,700.00	11,447.36	20,871.65	11,618.16	158.09	156.30	-95.22	9,181.66	-1,807.71	1,988.56	1,675.48	313.08	6.352
20,800.00	11,446.90	20,971.65	11,618.06	159.70	157.90	-95.23	9,281.65	-1,808.37	1,988.57	1,672.31	316.26	6.288
20,900.00	11,446.44	21,071.65	11,617.96	161.30	159.50	-95.24	9,381.65	-1,809.03	1,988.59	1,669.14	319.45	6.225
21,000.00	11,445.98	21,171.65	11,617.86	162.90	161.10	-95.25	9,481.65	-1,809.68	1,988.61	1,665.98	322.64	6.164
21,100.00	11,445.52	21,271.65	11,617.76	164.51	162.70	-95.26	9,581.65	-1,810.34	1,988.63	1,662.81	325.83	6.103
21,200.00	11,445.06	21,371.65	11,617.66	166.11	164.30	-95.27	9,681.64	-1,811.00	1,988.65	1,659.63	329.02	6.044
21,300.00	11,444.60	21,471.65	11,617.56	167.72	165.90	-95.28	9,781.64	-1,811.66	1,988.67	1,656.46	332.21	5.986
21,400.00	11,444.14	21,571.65	11,617.46	169.33	167.51	-95.29	9,881.64	-1,812.32	1,988.69	1,653.28	335.41	5.929
21,500.00	11,443.67	21,671.65	11,617.36	170.94	169.12	-95.30	9,981.63	-1,812.97	1,988.71	1,650.10	338.60	5.873
21,600.00	11,443.21	21,771.65	11,617.27	172.55	170.72	-95.31	10,081.63	-1,813.63	1,988.73	1,646.92	341.80	5.818
21,700.00	11,442.75	21,871.64	11,617.17	174.16	172.33	-95.32	10,181.63	-1,814.29	1,988.74	1,643.74	345.00	5.764
21,800.00	11,442.29	21,971.64	11,617.07	175.77	173.94	-95.33	10,281.63	-1,814.95	1,988.76	1,640.56	348.20	5.712
21,862.35	11,442.00	22,033.99	11,617.00	176.77	174.94	-95.34	10,343.97	-1,815.36	1,988.78	1,638.58	350.20	5.679 SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-90.32	-7.20	-1,284.06	1,284.11				
100.00	100.00	90.00	90.00	0.13	0.12	-90.32	-7.20	-1,284.06	1,284.08	1,283.82	0.26	5,027.481	
200.00	200.00	190.00	190.00	0.49	0.46	-90.32	-7.20	-1,284.06	1,284.08	1,283.13	0.95	1,351.730	
300.00	300.00	290.00	290.00	0.85	0.82	-90.32	-7.20	-1,284.06	1,284.08	1,282.41	1.67	770.341	
400.00	400.00	390.00	390.00	1.21	1.17	-90.32	-7.20	-1,284.06	1,284.08	1,281.69	2.38	538.659	
500.00	500.00	490.00	490.00	1.57	1.53	-90.32	-7.20	-1,284.06	1,284.08	1,280.97	3.10	414.114	
600.00	600.00	590.00	590.00	1.93	1.89	-90.32	-7.20	-1,284.06	1,284.08	1,280.26	3.82	336.346	
700.00	700.00	690.00	690.00	2.29	2.25	-90.32	-7.20	-1,284.06	1,284.08	1,279.54	4.53	283.169	
800.00	800.00	790.00	790.00	2.64	2.61	-90.32	-7.20	-1,284.06	1,284.08	1,278.82	5.25	244.511	
900.00	900.00	890.00	890.00	3.00	2.97	-90.32	-7.20	-1,284.06	1,284.08	1,278.11	5.97	215.140	
1,000.00	1,000.00	990.00	990.00	3.36	3.32	-90.32	-7.20	-1,284.06	1,284.08	1,277.39	6.69	192.069	
1,100.00	1,100.00	1,090.00	1,090.00	3.72	3.68	-90.32	-7.20	-1,284.06	1,284.08	1,276.67	7.40	173.467	
1,200.00	1,200.00	1,190.00	1,190.00	4.08	4.04	-90.32	-7.20	-1,284.06	1,284.08	1,275.96	8.12	158.149	
1,300.00	1,300.00	1,290.00	1,290.00	4.44	4.40	-90.32	-7.20	-1,284.06	1,284.08	1,275.24	8.84	145.318	
1,400.00	1,400.00	1,390.00	1,390.00	4.79	4.76	-90.32	-7.20	-1,284.06	1,284.08	1,274.52	9.55	134.412	
1,500.00	1,500.00	1,490.00	1,490.00	5.15	5.12	-90.32	-7.20	-1,284.06	1,284.08	1,273.81	10.27	125.029	
1,600.00	1,600.00	1,590.00	1,590.00	5.51	5.48	-90.32	-7.20	-1,284.06	1,284.08	1,273.09	10.99	116.871	
1,700.00	1,700.00	1,690.00	1,690.00	5.87	5.83	-90.32	-7.20	-1,284.06	1,284.08	1,272.37	11.70	109.712	
1,800.00	1,800.00	1,790.00	1,790.00	6.23	6.19	-90.32	-7.20	-1,284.06	1,284.08	1,271.65	12.42	103.379	
1,900.00	1,900.00	1,890.00	1,890.00	6.59	6.55	-90.32	-7.20	-1,284.06	1,284.08	1,270.94	13.14	97.738	
2,000.00	2,000.00	1,990.00	1,990.00	6.95	6.91	-90.32	-7.20	-1,284.06	1,284.08	1,270.22	13.85	92.680 CC	
2,100.00	2,099.98	2,089.98	2,089.98	7.29	7.27	134.94	-7.20	-1,284.06	1,285.31	1,270.75	14.56	88.300	
2,200.00	2,199.84	2,189.84	2,189.84	7.62	7.63	135.05	-7.20	-1,284.06	1,289.01	1,273.77	15.24	84.561	
2,300.00	2,299.45	2,326.71	2,326.67	7.95	8.09	135.26	-9.33	-1,282.24	1,293.91	1,277.88	16.04	80.685	
2,400.00	2,398.70	2,468.31	2,467.91	8.30	8.56	135.41	-16.75	-1,275.91	1,298.12	1,281.30	16.82	77.180	
2,500.00	2,497.47	2,610.31	2,608.91	8.65	9.04	135.49	-29.51	-1,265.01	1,301.59	1,283.98	17.60	73.951	
2,600.00	2,595.62	2,752.59	2,749.17	9.01	9.54	135.50	-47.61	-1,249.57	1,304.30	1,285.91	18.39	70.930	
2,700.00	2,693.44	2,866.70	2,860.86	9.39	9.96	135.45	-65.37	-1,234.41	1,305.74	1,286.61	19.13	68.258	
2,800.00	2,791.25	2,966.68	2,958.66	9.77	10.34	135.40	-81.18	-1,220.92	1,306.99	1,287.14	19.86	65.822	
2,900.00	2,889.07	3,066.67	3,056.46	10.17	10.73	135.35	-96.99	-1,207.43	1,308.25	1,287.65	20.60	63.514	
3,000.00	2,886.88	3,166.65	3,154.26	10.57	11.12	135.30	-112.81	-1,193.93	1,309.51	1,288.16	21.35	61.332	
3,100.00	3,084.70	3,266.64	3,252.06	10.99	11.53	135.25	-128.62	-1,180.44	1,310.77	1,288.65	22.12	59.268	
3,200.00	3,182.51	3,366.62	3,349.86	11.41	11.94	135.20	-144.43	-1,166.94	1,312.03	1,289.14	22.89	57.317	
3,300.00	3,280.33	3,466.61	3,447.66	11.83	12.35	135.15	-160.24	-1,153.45	1,313.29	1,289.62	23.68	55.471	
3,400.00	3,378.14	3,566.59	3,545.46	12.26	12.78	135.09	-176.06	-1,139.95	1,314.55	1,290.09	24.47	53.726	
3,500.00	3,475.96	3,666.58	3,643.26	12.69	13.20	135.04	-191.87	-1,126.46	1,315.82	1,290.55	25.27	52.076	
3,600.00	3,573.77	3,745.98	3,721.10	13.13	13.54	135.03	-203.81	-1,116.27	1,317.78	1,291.76	26.01	50.661	
3,700.00	3,671.97	3,822.98	3,796.96	13.57	13.86	135.08	-213.82	-1,107.72	1,320.07	1,293.34	26.73	49.377	
3,800.00	3,770.78	3,900.00	3,873.17	13.98	14.17	135.09	-222.29	-1,100.50	1,321.64	1,294.20	27.44	48.169	
3,900.00	3,870.05	3,976.94	3,949.58	14.38	14.47	135.09	-229.19	-1,094.61	1,322.47	1,294.36	28.11	47.039	
4,000.00	3,969.69	4,053.93	4,026.24	14.75	14.76	135.06	-234.52	-1,090.06	1,322.58	1,293.81	28.77	45.976	
4,100.00	4,069.56	4,130.93	4,103.08	15.11	15.04	135.00	-238.29	-1,086.84	1,321.95	1,292.56	29.39	44.973	
4,200.00	4,169.54	4,200.00	4,172.09	15.44	15.29	-90.29	-240.34	-1,085.10	1,320.63	1,290.67	29.96	44.077	
4,300.00	4,269.54	4,287.46	4,259.54	15.77	15.58	-90.32	-241.12	-1,084.43	1,319.91	1,289.32	30.58	43.157	
4,400.00	4,369.54	4,387.46	4,359.54	16.10	15.91	-90.32	-241.12	-1,084.43	1,319.91	1,288.65	31.26	42.228	
4,500.00	4,469.54	4,487.46	4,459.54	16.43	16.25	-90.32	-241.12	-1,084.43	1,319.91	1,287.98	31.93	41.337	
4,600.00	4,569.54	4,587.46	4,559.54	16.76	16.58	-90.32	-241.12	-1,084.43	1,319.91	1,287.30	32.61	40.479	
4,700.00	4,669.54	4,687.46	4,659.54	17.09	16.92	-90.32	-241.12	-1,084.43	1,319.91	1,286.62	33.28	39.655	
4,800.00	4,769.54	4,787.46	4,759.54	17.43	17.25	-90.32	-241.12	-1,084.43	1,319.91	1,285.94	33.96	38.862	
4,900.00	4,869.54	4,887.46	4,859.54	17.76	17.59	-90.32	-241.12	-1,084.43	1,319.91	1,285.26	34.65	38.098	
5,000.00	4,969.54	4,987.46	4,959.54	18.10	17.93	-90.32	-241.12	-1,084.43	1,319.91	1,284.58	35.33	37.362	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,069.54	5,087.46	5,059.54	18.43	18.27	-90.32	-241.12	-1,084.43	1,319.91	1,283.89	36.01	36.652	
5,200.00	5,169.54	5,187.46	5,159.54	18.77	18.60	-90.32	-241.12	-1,084.43	1,319.91	1,283.21	36.70	35.968	
5,300.00	5,269.54	5,287.46	5,259.54	19.11	18.94	-90.32	-241.12	-1,084.43	1,319.91	1,282.52	37.38	35.308	
5,400.00	5,369.54	5,387.46	5,359.54	19.45	19.29	-90.32	-241.12	-1,084.43	1,319.91	1,281.84	38.07	34.670	
5,500.00	5,469.54	5,487.46	5,459.54	19.79	19.63	-90.32	-241.12	-1,084.43	1,319.91	1,281.15	38.76	34.054	
5,600.00	5,569.54	5,587.46	5,559.54	20.13	19.97	-90.32	-241.12	-1,084.43	1,319.91	1,280.46	39.45	33.459	
5,700.00	5,669.54	5,687.46	5,659.54	20.47	20.31	-90.32	-241.12	-1,084.43	1,319.91	1,279.77	40.14	32.884	
5,800.00	5,769.54	5,787.46	5,759.54	20.81	20.65	-90.32	-241.12	-1,084.43	1,319.91	1,279.08	40.83	32.327	
5,900.00	5,869.54	5,887.46	5,859.54	21.15	21.00	-90.32	-241.12	-1,084.43	1,319.91	1,278.38	41.52	31.788	
6,000.00	5,969.54	5,987.46	5,959.54	21.49	21.34	-90.32	-241.12	-1,084.43	1,319.91	1,277.69	42.22	31.266	
6,100.00	6,069.54	6,087.46	6,059.54	21.83	21.69	-90.32	-241.12	-1,084.43	1,319.91	1,277.00	42.91	30.761	
6,200.00	6,169.54	6,187.46	6,159.54	22.18	22.03	-90.32	-241.12	-1,084.43	1,319.91	1,276.30	43.60	30.271	
6,300.00	6,269.54	6,287.46	6,259.54	22.52	22.38	-90.32	-241.12	-1,084.43	1,319.91	1,275.61	44.30	29.796	
6,400.00	6,369.54	6,387.46	6,359.54	22.87	22.72	-90.32	-241.12	-1,084.43	1,319.91	1,274.91	44.99	29.335	
6,500.00	6,469.54	6,487.46	6,459.54	23.21	23.07	-90.32	-241.12	-1,084.43	1,319.91	1,274.22	45.69	28.887	
6,600.00	6,569.54	6,587.46	6,559.54	23.56	23.41	-90.32	-241.12	-1,084.43	1,319.91	1,273.52	46.39	28.453	
6,700.00	6,669.54	6,687.46	6,659.54	23.90	23.76	-90.32	-241.12	-1,084.43	1,319.91	1,272.82	47.09	28.032	
6,800.00	6,769.54	6,787.46	6,759.54	24.25	24.11	-90.32	-241.12	-1,084.43	1,319.91	1,272.12	47.78	27.622	
6,900.00	6,869.54	6,887.46	6,859.54	24.59	24.46	-90.32	-241.12	-1,084.43	1,319.91	1,271.42	48.48	27.224	
7,000.00	6,969.54	6,987.46	6,959.54	24.94	24.80	-90.32	-241.12	-1,084.43	1,319.91	1,270.72	49.18	26.837	
7,100.00	7,069.54	7,087.46	7,059.54	25.29	25.15	-90.32	-241.12	-1,084.43	1,319.91	1,270.02	49.88	26.460	
7,200.00	7,169.54	7,187.46	7,159.54	25.63	25.50	-90.32	-241.12	-1,084.43	1,319.91	1,269.32	50.58	26.094	
7,300.00	7,269.54	7,287.46	7,259.54	25.98	25.85	-90.32	-241.12	-1,084.43	1,319.91	1,268.62	51.28	25.737	
7,400.00	7,369.54	7,387.46	7,359.54	26.33	26.20	-90.32	-241.12	-1,084.43	1,319.91	1,267.92	51.99	25.390	
7,500.00	7,469.54	7,487.46	7,459.54	26.68	26.55	-90.32	-241.12	-1,084.43	1,319.91	1,267.22	52.69	25.052	
7,600.00	7,569.54	7,587.46	7,559.54	27.03	26.90	-90.32	-241.12	-1,084.43	1,319.91	1,266.52	53.39	24.722	
7,700.00	7,669.54	7,687.46	7,659.54	27.37	27.25	-90.32	-241.12	-1,084.43	1,319.91	1,265.81	54.09	24.401	
7,800.00	7,769.54	7,787.46	7,759.54	27.72	27.60	-90.32	-241.12	-1,084.43	1,319.91	1,265.11	54.79	24.088	
7,900.00	7,869.54	7,887.46	7,859.54	28.07	27.95	-90.32	-241.12	-1,084.43	1,319.91	1,264.41	55.50	23.783	
8,000.00	7,969.54	7,987.46	7,959.54	28.42	28.30	-90.32	-241.12	-1,084.43	1,319.91	1,263.70	56.20	23.485	
8,100.00	8,069.54	8,087.46	8,059.54	28.77	28.65	-90.32	-241.12	-1,084.43	1,319.91	1,263.00	56.91	23.195	
8,200.00	8,169.54	8,187.46	8,159.54	29.12	29.00	-90.32	-241.12	-1,084.43	1,319.91	1,262.30	57.61	22.911	
8,300.00	8,269.54	8,287.46	8,259.54	29.47	29.35	-90.32	-241.12	-1,084.43	1,319.91	1,261.59	58.31	22.634	
8,400.00	8,369.54	8,387.46	8,359.54	29.82	29.70	-90.32	-241.12	-1,084.43	1,319.91	1,260.89	59.02	22.364	
8,500.00	8,469.54	8,487.46	8,459.54	30.17	30.05	-90.32	-241.12	-1,084.43	1,319.91	1,260.18	59.72	22.100	
8,600.00	8,569.54	8,587.46	8,559.54	30.52	30.40	-90.32	-241.12	-1,084.43	1,319.91	1,259.48	60.43	21.842	
8,700.00	8,669.54	8,687.46	8,659.54	30.87	30.76	-90.32	-241.12	-1,084.43	1,319.91	1,258.77	61.14	21.590	
8,800.00	8,769.54	8,787.46	8,759.54	31.22	31.11	-90.32	-241.12	-1,084.43	1,319.91	1,258.06	61.84	21.343	
8,900.00	8,869.54	8,887.46	8,859.54	31.57	31.46	-90.32	-241.12	-1,084.43	1,319.91	1,257.36	62.55	21.102	
9,000.00	8,969.54	8,987.46	8,959.54	31.93	31.81	-90.32	-241.12	-1,084.43	1,319.91	1,256.65	63.25	20.867	
9,100.00	9,069.54	9,087.46	9,059.54	32.28	32.16	-90.32	-241.12	-1,084.43	1,319.91	1,255.95	63.96	20.636	
9,200.00	9,169.54	9,187.46	9,159.54	32.63	32.52	-90.32	-241.12	-1,084.43	1,319.91	1,255.24	64.67	20.411	
9,300.00	9,269.54	9,287.46	9,259.54	32.98	32.87	-90.32	-241.12	-1,084.43	1,319.91	1,254.53	65.38	20.190	
9,400.00	9,369.54	9,387.46	9,359.54	33.33	33.22	-90.32	-241.12	-1,084.43	1,319.91	1,253.82	66.08	19.974	
9,500.00	9,469.54	9,487.46	9,459.54	33.68	33.57	-90.32	-241.12	-1,084.43	1,319.91	1,253.12	66.79	19.762	
9,600.00	9,569.54	9,587.46	9,559.54	34.04	33.93	-90.32	-241.12	-1,084.43	1,319.91	1,252.41	67.50	19.555	
9,700.00	9,669.54	9,687.46	9,659.54	34.39	34.28	-90.32	-241.12	-1,084.43	1,319.91	1,251.70	68.21	19.352	
9,800.00	9,769.54	9,787.46	9,759.54	34.74	34.63	-90.32	-241.12	-1,084.43	1,319.91	1,250.99	68.91	19.153	
9,900.00	9,869.54	9,887.46	9,859.54	35.09	34.99	-90.32	-241.12	-1,084.43	1,319.91	1,250.28	69.62	18.958	
10,000.00	9,969.54	9,987.46	9,959.54	35.45	35.34	-90.32	-241.12	-1,084.43	1,319.91	1,249.58	70.33	18.767	
10,100.00	10,069.54	10,087.46	10,059.54	35.80	35.69	-90.32	-241.12	-1,084.43	1,319.91	1,248.87	71.04	18.580	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD							Rule Assigned:						Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,169.54	10,187.46	10,159.54	36.15	36.05	-90.32	-241.12	-1,084.43	1,319.91	1,248.16	71.75	18.396	
10,300.00	10,269.54	10,287.46	10,259.54	36.51	36.40	-90.32	-241.12	-1,084.43	1,319.91	1,247.45	72.46	18.216	
10,400.00	10,369.54	10,387.46	10,359.54	36.86	36.75	-90.32	-241.12	-1,084.43	1,319.91	1,246.74	73.17	18.040	
10,500.00	10,469.54	10,487.46	10,459.54	37.21	37.11	-90.32	-241.12	-1,084.43	1,319.91	1,246.03	73.88	17.867	
10,600.00	10,569.54	10,587.46	10,559.54	37.57	37.46	-90.32	-241.12	-1,084.43	1,319.91	1,245.32	74.58	17.697	
10,700.00	10,669.54	10,687.46	10,659.54	37.92	37.82	-90.32	-241.12	-1,084.43	1,319.91	1,244.61	75.29	17.530	
10,800.00	10,769.54	10,787.46	10,759.54	38.27	38.17	-90.32	-241.12	-1,084.43	1,319.91	1,243.90	76.00	17.366	
10,900.00	10,869.54	10,887.46	10,859.54	38.63	38.52	-90.32	-241.12	-1,084.43	1,319.91	1,243.19	76.71	17.206	
11,000.00	10,969.45	10,987.04	10,958.87	38.98	38.87	-89.82	-235.53	-1,084.46	1,319.91	1,242.51	77.41	17.052	
11,100.00	11,067.64	11,085.86	11,055.05	39.30	39.18	-89.63	-213.42	-1,084.61	1,319.93	1,241.89	78.04	16.914	
11,200.00	11,161.16	11,184.00	11,145.41	39.59	39.46	-89.46	-175.44	-1,084.86	1,319.96	1,241.36	78.61	16.792	
11,300.00	11,247.17	11,281.52	11,227.49	39.83	39.69	-89.31	-122.99	-1,085.21	1,320.00	1,240.88	79.12	16.684	
11,400.00	11,323.06	11,378.52	11,299.14	40.03	39.88	-89.18	-57.78	-1,085.64	1,320.04	1,240.45	79.59	16.586	
11,500.00	11,386.52	11,475.07	11,358.53	40.18	40.04	-89.07	18.19	-1,086.15	1,320.08	1,240.05	80.03	16.494	
11,600.00	11,435.62	11,571.27	11,404.20	40.33	40.22	-88.99	102.74	-1,086.71	1,320.11	1,239.64	80.47	16.404	
11,700.00	11,468.88	11,667.24	11,435.05	40.54	40.43	-88.93	193.49	-1,087.31	1,320.13	1,239.21	80.92	16.314	
11,800.00	11,485.28	11,763.08	11,450.32	40.77	40.65	-88.91	287.99	-1,087.93	1,320.14	1,238.75	81.39	16.220	
11,900.00	11,486.77	11,861.09	11,451.84	41.03	40.92	-88.92	385.96	-1,088.58	1,320.14	1,238.24	81.90	16.119	
12,000.00	11,486.33	11,961.09	11,451.54	41.36	41.24	-88.92	485.95	-1,089.25	1,320.14	1,237.60	82.54	15.995	
12,100.00	11,485.90	12,061.09	11,451.25	41.74	41.62	-88.93	585.95	-1,089.91	1,320.14	1,236.84	83.29	15.849	
12,200.00	11,485.46	12,161.08	11,450.95	42.19	42.07	-88.94	685.94	-1,090.57	1,320.13	1,235.96	84.18	15.683	
12,300.00	11,485.02	12,261.08	11,450.65	42.70	42.58	-88.94	785.94	-1,091.24	1,320.13	1,234.95	85.18	15.498	
12,400.00	11,484.59	12,361.08	11,450.36	43.26	43.14	-88.95	885.93	-1,091.90	1,320.13	1,233.83	86.30	15.297	
12,500.00	11,484.15	12,461.08	11,450.06	43.88	43.76	-88.95	985.93	-1,092.57	1,320.13	1,232.60	87.53	15.082	
12,600.00	11,483.71	12,561.08	11,449.76	44.55	44.43	-88.96	1,085.92	-1,093.23	1,320.12	1,231.26	88.86	14.855	
12,700.00	11,483.27	12,661.07	11,449.46	45.27	45.15	-88.97	1,185.92	-1,093.89	1,320.12	1,229.82	90.30	14.619	
12,800.00	11,482.83	12,761.07	11,449.17	46.04	45.92	-88.97	1,285.92	-1,094.56	1,320.12	1,228.28	91.84	14.374	
12,900.00	11,482.39	12,861.07	11,448.87	46.85	46.74	-88.98	1,385.91	-1,095.22	1,320.12	1,226.65	93.46	14.124	
13,000.00	11,481.95	12,961.07	11,448.57	47.71	47.60	-88.99	1,485.91	-1,095.89	1,320.12	1,224.94	95.18	13.870	
13,100.00	11,481.52	13,061.07	11,448.28	48.61	48.50	-88.99	1,585.90	-1,096.55	1,320.11	1,223.14	96.98	13.613	
13,200.00	11,481.08	13,161.07	11,447.98	49.55	49.44	-89.00	1,685.90	-1,097.22	1,320.11	1,221.26	98.85	13.354	
13,300.00	11,480.64	13,261.06	11,447.68	50.52	50.41	-89.00	1,785.89	-1,097.88	1,320.11	1,219.30	100.80	13.096	
13,400.00	11,480.20	13,361.06	11,447.38	51.53	51.42	-89.01	1,885.89	-1,098.55	1,320.11	1,217.28	102.82	12.838	
13,500.00	11,479.75	13,461.06	11,447.09	52.57	52.47	-89.02	1,985.88	-1,099.21	1,320.11	1,215.20	104.91	12.583	
13,600.00	11,479.31	13,561.06	11,446.79	53.65	53.54	-89.02	2,085.88	-1,099.88	1,320.10	1,213.05	107.06	12.331	
13,700.00	11,478.87	13,661.06	11,446.49	54.75	54.64	-89.03	2,185.88	-1,100.54	1,320.10	1,210.84	109.26	12.082	
13,800.00	11,478.43	13,761.05	11,446.19	55.88	55.78	-89.03	2,285.87	-1,101.21	1,320.10	1,208.58	111.52	11.837	
13,900.00	11,477.99	13,861.05	11,445.89	57.03	56.93	-89.04	2,385.87	-1,101.88	1,320.10	1,206.26	113.83	11.597	
14,000.00	11,477.55	13,961.05	11,445.60	58.21	58.11	-89.05	2,485.86	-1,102.54	1,320.10	1,203.90	116.20	11.361	
14,100.00	11,477.11	14,061.05	11,445.30	59.41	59.32	-89.05	2,585.86	-1,103.21	1,320.10	1,201.49	118.60	11.131	
14,200.00	11,476.66	14,161.05	11,445.00	60.64	60.54	-89.06	2,685.85	-1,103.87	1,320.09	1,199.04	121.05	10.905	
14,300.00	11,476.22	14,261.04	11,444.70	61.88	61.79	-89.07	2,785.85	-1,104.54	1,320.09	1,196.55	123.54	10.686	
14,400.00	11,475.78	14,361.04	11,444.40	63.14	63.05	-89.07	2,885.84	-1,105.21	1,320.09	1,194.02	126.07	10.471	
14,500.00	11,475.34	14,461.04	11,444.11	64.42	64.33	-89.08	2,985.84	-1,105.87	1,320.09	1,191.46	128.63	10.263	
14,600.00	11,474.89	14,561.04	11,443.81	65.72	65.63	-89.08	3,085.83	-1,106.54	1,320.09	1,188.86	131.23	10.060	
14,700.00	11,474.45	14,661.04	11,443.51	67.03	66.95	-89.09	3,185.83	-1,107.21	1,320.09	1,186.23	133.85	9.862	
14,800.00	11,474.00	14,761.04	11,443.21	68.36	68.27	-89.10	3,285.83	-1,107.87	1,320.09	1,183.57	136.51	9.670	
14,900.00	11,473.56	14,861.03	11,442.91	69.70	69.62	-89.10	3,385.82	-1,108.54	1,320.09	1,180.89	139.20	9.484	
15,000.00	11,473.12	14,961.03	11,442.62	71.06	70.97	-89.11	3,485.82	-1,109.21	1,320.08	1,178.17	141.91	9.302	
15,100.00	11,472.67	15,061.03	11,442.32	72.43	72.34	-89.12	3,585.81	-1,109.88	1,320.08	1,175.44	144.65	9.126	
15,200.00	11,472.23	15,161.03	11,442.02	73.81	73.72	-89.12	3,685.81	-1,110.54	1,320.08	1,172.67	147.41	8.955	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #2													Offset Site Error: 0.00 usft	
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error: 0.00 usft			
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Offset		+N/-S	+E/-W	Between	Ellipses				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	(usft)	Separation	Factor		
						(°)					(usft)			
15,300.00	11,471.78	15,261.03	11,441.72	75.20	75.12	-89.13	3,785.80	-1,111.21	1,320.08	1,169.89	150.19	8.789		
15,400.00	11,471.34	15,361.02	11,441.42	76.60	76.52	-89.14	3,885.80	-1,111.88	1,320.08	1,167.08	153.00	8.628		
15,500.00	11,470.89	15,461.02	11,441.12	78.01	77.93	-89.14	3,985.79	-1,112.55	1,320.08	1,164.26	155.82	8.472		
15,600.00	11,470.44	15,561.02	11,440.82	79.43	79.35	-89.15	4,085.79	-1,113.22	1,320.08	1,161.41	158.66	8.320		
15,700.00	11,470.00	15,661.02	11,440.53	80.86	80.78	-89.15	4,185.78	-1,113.88	1,320.08	1,158.55	161.53	8.173		
15,800.00	11,469.55	15,761.02	11,440.23	82.30	82.22	-89.16	4,285.78	-1,114.55	1,320.08	1,155.67	164.40	8.029		
15,900.00	11,469.10	15,861.02	11,439.93	83.74	83.67	-89.17	4,385.78	-1,115.22	1,320.08	1,152.78	167.30	7.891		
16,000.00	11,468.66	15,961.01	11,439.63	85.20	85.13	-89.17	4,485.77	-1,115.89	1,320.08	1,149.87	170.21	7.756		
16,100.00	11,468.21	16,061.01	11,439.33	86.66	86.59	-89.18	4,585.77	-1,116.56	1,320.08	1,146.94	173.13	7.625		
16,200.00	11,467.76	16,161.01	11,439.03	88.13	88.06	-89.19	4,685.76	-1,117.23	1,320.08	1,144.00	176.07	7.497		
16,300.00	11,467.32	16,261.01	11,438.73	89.60	89.53	-89.19	4,785.76	-1,117.90	1,320.07	1,141.05	179.02	7.374		
16,400.00	11,466.87	16,361.01	11,438.43	91.08	91.01	-89.20	4,885.75	-1,118.57	1,320.07	1,138.09	181.99	7.254		
16,500.00	11,466.42	16,461.00	11,438.13	92.57	92.50	-89.21	4,985.75	-1,119.23	1,320.07	1,135.11	184.96	7.137		
16,600.00	11,465.97	16,561.00	11,437.83	94.06	94.00	-89.21	5,085.74	-1,119.90	1,320.07	1,132.13	187.95	7.024		
16,700.00	11,465.52	16,661.00	11,437.53	95.56	95.49	-89.22	5,185.74	-1,120.57	1,320.07	1,129.13	190.95	6.913		
16,800.00	11,465.07	16,761.00	11,437.24	97.06	97.00	-89.23	5,285.73	-1,121.24	1,320.07	1,126.12	193.95	6.806		
16,900.00	11,464.62	16,861.00	11,436.94	98.57	98.51	-89.23	5,385.73	-1,121.91	1,320.07	1,123.10	196.97	6.702		
17,000.00	11,464.17	16,960.99	11,436.64	100.08	100.02	-89.24	5,485.73	-1,122.58	1,320.07	1,120.08	200.00	6.600		
17,038.95	11,464.00	16,999.95	11,436.52	100.67	100.61	-89.24	5,524.68	-1,122.84	1,320.07	1,118.89	201.18	6.562		
17,100.00	11,463.72	17,060.99	11,436.34	101.60	101.54	-89.25	5,585.72	-1,123.25	1,320.07	1,117.04	203.03	6.502		
17,200.00	11,463.27	17,160.99	11,436.04	103.12	103.06	-89.25	5,685.72	-1,123.92	1,320.07	1,114.00	206.08	6.406		
17,300.00	11,462.82	17,260.99	11,435.74	104.65	104.59	-89.26	5,785.71	-1,124.59	1,320.07	1,110.94	209.13	6.312		
17,400.00	11,462.37	17,360.99	11,435.44	106.18	106.12	-89.26	5,885.71	-1,125.26	1,320.07	1,107.88	212.19	6.221		
17,500.00	11,461.92	17,460.99	11,435.14	107.71	107.65	-89.27	5,985.70	-1,125.93	1,320.07	1,104.81	215.26	6.132		
17,600.00	11,461.47	17,560.98	11,434.84	109.25	109.19	-89.28	6,085.70	-1,126.60	1,320.07	1,101.74	218.33	6.046		
17,700.00	11,461.02	17,660.98	11,434.54	110.79	110.73	-89.28	6,185.69	-1,127.28	1,320.07	1,098.66	221.42	5.962		
17,800.00	11,460.57	17,760.98	11,434.24	112.33	112.27	-89.29	6,285.69	-1,127.95	1,320.08	1,095.57	224.51	5.880		
17,900.00	11,460.12	17,860.98	11,433.94	113.88	113.82	-89.30	6,385.68	-1,128.62	1,320.08	1,092.48	227.60	5.800		
18,000.00	11,459.66	17,960.98	11,433.64	115.43	115.37	-89.30	6,485.68	-1,129.29	1,320.08	1,089.38	230.70	5.722		
18,100.00	11,459.21	18,060.97	11,433.34	116.98	116.92	-89.31	6,585.68	-1,129.96	1,320.08	1,086.27	233.81	5.646		
18,200.00	11,458.76	18,160.97	11,433.04	118.54	118.48	-89.32	6,685.67	-1,130.63	1,320.08	1,083.16	236.92	5.572		
18,300.00	11,458.31	18,260.97	11,432.74	120.09	120.04	-89.32	6,785.67	-1,131.30	1,320.08	1,080.04	240.04	5.499		
18,400.00	11,457.85	18,360.97	11,432.44	121.66	121.60	-89.33	6,885.66	-1,131.98	1,320.08	1,076.92	243.16	5.429		
18,500.00	11,457.40	18,460.97	11,432.14	123.22	123.17	-89.34	6,985.66	-1,132.65	1,320.08	1,073.79	246.29	5.360		
18,600.00	11,456.95	18,560.96	11,431.84	124.78	124.73	-89.34	7,085.65	-1,133.32	1,320.08	1,070.66	249.42	5.293		
18,700.00	11,456.49	18,660.96	11,431.54	126.35	126.30	-89.35	7,185.65	-1,133.99	1,320.08	1,067.52	252.56	5.227		
18,800.00	11,456.04	18,760.96	11,431.24	127.92	127.87	-89.36	7,285.64	-1,134.66	1,320.08	1,064.38	255.70	5.163		
18,900.00	11,455.58	18,860.96	11,430.94	129.50	129.44	-89.36	7,385.64	-1,135.34	1,320.08	1,061.24	258.85	5.100		
19,000.00	11,455.13	18,960.96	11,430.64	131.07	131.02	-89.37	7,485.63	-1,136.01	1,320.08	1,058.09	262.00	5.039		
19,100.00	11,454.67	19,060.96	11,430.33	132.65	132.60	-89.38	7,585.63	-1,136.68	1,320.09	1,054.93	265.15	4.979		
19,200.00	11,454.22	19,160.95	11,430.03	134.22	134.17	-89.38	7,685.63	-1,137.35	1,320.09	1,051.78	268.31	4.920		
19,300.00	11,453.76	19,260.95	11,429.73	135.80	135.76	-89.39	7,785.62	-1,138.03	1,320.09	1,048.62	271.47	4.863		
19,400.00	11,453.31	19,360.95	11,429.43	137.39	137.34	-89.40	7,885.62	-1,138.70	1,320.09	1,045.45	274.64	4.807		
19,500.00	11,452.85	19,460.95	11,429.13	138.97	138.92	-89.40	7,985.61	-1,139.37	1,320.09	1,042.28	277.81	4.752		
19,600.00	11,452.39	19,560.95	11,428.83	140.56	140.51	-89.41	8,085.61	-1,140.05	1,320.09	1,039.11	280.98	4.698		
19,700.00	11,451.94	19,660.94	11,428.53	142.14	142.10	-89.42	8,185.60	-1,140.72	1,320.09	1,035.94	284.15	4.646		
19,800.00	11,451.48	19,760.94	11,428.23	143.73	143.68	-89.42	8,285.60	-1,141.39	1,320.09	1,032.76	287.33	4.594		
19,900.00	11,451.02	19,860.94	11,427.93	145.32	145.28	-89.43	8,385.59	-1,142.07	1,320.10	1,029.58	290.51	4.544		
20,000.00	11,450.57	19,960.94	11,427.63	146.91	146.87	-89.44	8,485.59	-1,142.74	1,320.10	1,026.40	293.70	4.495		
20,100.00	11,450.11	20,060.94	11,427.33	148.51	148.46	-89.45	8,585.58	-1,143.42	1,320.10	1,023.21	296.89	4.447		
20,200.00	11,449.65	20,160.94	11,427.02	150.10	150.06	-89.45	8,685.58	-1,144.09	1,320.10	1,020.03	300.08	4.399		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #2											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
20,300.00	11,449.19	20,260.93	11,426.72	151.70	151.65	-89.46	8,785.57	-1,144.76	1,320.10	1,016.84	303.27	4.353
20,400.00	11,448.73	20,360.93	11,426.42	153.29	153.25	-89.47	8,885.57	-1,145.44	1,320.11	1,013.64	306.46	4.308
20,500.00	11,448.27	20,460.93	11,426.12	154.89	154.85	-89.47	8,985.57	-1,146.11	1,320.11	1,010.45	309.66	4.263
20,600.00	11,447.82	20,560.93	11,425.82	156.49	156.45	-89.48	9,085.56	-1,146.79	1,320.11	1,007.25	312.86	4.219
20,700.00	11,447.36	20,660.93	11,425.52	158.09	158.05	-89.49	9,185.56	-1,147.46	1,320.11	1,004.05	316.06	4.177
20,800.00	11,446.90	20,760.92	11,425.22	159.70	159.65	-89.49	9,285.55	-1,148.14	1,320.11	1,000.85	319.27	4.135
20,900.00	11,446.44	20,860.92	11,424.91	161.30	161.25	-89.50	9,385.55	-1,148.81	1,320.12	997.64	322.47	4.094
21,000.00	11,445.98	20,960.92	11,424.61	162.90	162.86	-89.51	9,485.54	-1,149.49	1,320.12	994.43	325.68	4.053
21,100.00	11,445.52	21,060.92	11,424.31	164.51	164.46	-89.51	9,585.54	-1,150.16	1,320.12	991.22	328.90	4.014
21,200.00	11,445.06	21,160.92	11,424.01	166.11	166.07	-89.52	9,685.53	-1,150.84	1,320.12	988.01	332.11	3.975
21,300.00	11,444.60	21,260.91	11,423.71	167.72	167.68	-89.53	9,785.53	-1,151.51	1,320.12	984.80	335.32	3.937
21,400.00	11,444.14	21,360.91	11,423.41	169.33	169.29	-89.53	9,885.52	-1,152.19	1,320.13	981.59	338.54	3.899
21,500.00	11,443.67	21,460.91	11,423.10	170.94	170.89	-89.54	9,985.52	-1,152.87	1,320.13	978.37	341.76	3.863
21,600.00	11,443.21	21,560.91	11,422.80	172.55	172.51	-89.55	10,085.51	-1,153.54	1,320.13	975.15	344.98	3.827
21,700.00	11,442.75	21,660.91	11,422.50	174.16	174.12	-89.56	10,185.51	-1,154.22	1,320.13	971.93	348.20	3.791
21,800.00	11,442.29	21,760.91	11,422.20	175.77	175.73	-89.56	10,285.51	-1,154.89	1,320.14	968.71	351.43	3.757
21,862.35	11,442.00	21,823.25	11,422.01	176.77	176.73	-89.57	10,347.85	-1,155.32	1,320.14	966.70	353.44	3.735 ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.34	-0.30	-50.00	50.00				
100.00	100.00	100.00	100.00	0.13	0.13	-90.34	-0.30	-50.00	50.00	49.73	0.27	185.986	
200.00	200.00	200.00	200.00	0.49	0.49	-90.34	-0.30	-50.00	50.00	49.02	0.99	50.723	
300.00	300.00	300.00	300.00	0.85	0.85	-90.34	-0.30	-50.00	50.00	48.30	1.70	29.366	
400.00	400.00	400.00	400.00	1.21	1.21	-90.34	-0.30	-50.00	50.00	47.58	2.42	20.665	
500.00	500.00	500.00	500.00	1.57	1.57	-90.34	-0.30	-50.00	50.00	46.87	3.14	15.942	
600.00	600.00	600.00	600.00	1.93	1.93	-90.34	-0.30	-50.00	50.00	46.15	3.85	12.976	
700.00	700.00	700.00	700.00	2.29	2.29	-90.34	-0.30	-50.00	50.00	45.43	4.57	10.940	
800.00	800.00	800.00	800.00	2.64	2.64	-90.34	-0.30	-50.00	50.00	44.72	5.29	9.457	
900.00	900.00	900.00	900.00	3.00	3.00	-90.34	-0.30	-50.00	50.00	44.00	6.00	8.328	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.34	-0.30	-50.00	50.00	43.28	6.72	7.439	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.34	-0.30	-50.00	50.00	42.56	7.44	6.722	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-90.34	-0.30	-50.00	50.00	41.85	8.16	6.131	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-90.34	-0.30	-50.00	50.00	41.13	8.87	5.636	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.34	-0.30	-50.00	50.00	40.41	9.59	5.215	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-90.34	-0.30	-50.00	50.00	39.70	10.31	4.852	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-90.34	-0.30	-50.00	50.00	38.98	11.02	4.536	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-90.34	-0.30	-50.00	50.00	38.26	11.74	4.259	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-90.34	-0.30	-50.00	50.00	37.55	12.46	4.014	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-90.34	-0.30	-50.00	50.00	36.83	13.17	3.796	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-90.34	-0.30	-50.00	50.00	36.11	13.89	3.600 CC, ES	
2,100.00	2,099.98	2,099.98	2,099.98	7.29	7.30	136.24	-0.30	-50.00	51.25	36.66	14.59	3.512	
2,200.00	2,199.84	2,199.84	2,199.84	7.62	7.66	139.95	-0.30	-50.00	55.15	39.87	15.28	3.609	
2,300.00	2,299.45	2,298.09	2,298.07	7.95	8.00	143.78	-1.41	-51.26	63.16	47.21	15.94	3.961	
2,400.00	2,398.70	2,395.70	2,395.54	8.30	8.32	146.05	-4.72	-55.01	76.34	59.74	16.59	4.601	
2,500.00	2,497.47	2,492.30	2,491.79	8.65	8.65	147.04	-10.17	-61.17	94.48	77.25	17.23	5.483	
2,600.00	2,595.62	2,587.56	2,586.38	9.01	8.97	147.20	-17.63	-69.61	117.45	99.58	17.87	6.572	
2,700.00	2,693.44	2,681.53	2,679.27	9.39	9.30	146.80	-27.04	-80.25	143.71	125.21	18.50	7.768	
2,800.00	2,791.25	2,774.39	2,770.55	9.77	9.63	145.68	-38.31	-93.00	171.85	152.73	19.13	8.985	
2,900.00	2,889.07	2,868.86	2,862.98	10.17	9.98	144.32	-51.24	-107.64	201.46	181.67	19.79	10.179	
3,000.00	2,986.88	2,964.25	2,956.29	10.57	10.34	143.28	-64.38	-122.50	231.22	210.73	20.49	11.285	
3,100.00	3,084.70	3,059.65	3,049.60	10.99	10.71	142.47	-77.51	-137.36	261.04	239.84	21.20	12.315	
3,200.00	3,182.51	3,155.04	3,142.91	11.41	11.09	141.83	-90.65	-152.22	290.89	268.97	21.92	13.273	
3,300.00	3,280.33	3,250.44	3,236.22	11.83	11.47	141.31	-103.78	-167.08	320.77	298.12	22.64	14.165	
3,400.00	3,378.14	3,345.83	3,329.53	12.26	11.87	140.88	-116.92	-181.94	350.67	327.29	23.38	14.997	
3,500.00	3,475.96	3,441.23	3,422.84	12.69	12.26	140.51	-130.05	-196.80	380.59	356.46	24.13	15.774	
3,600.00	3,573.77	3,536.62	3,516.15	13.13	12.66	140.23	-143.19	-211.66	410.51	385.63	24.88	16.500	
3,700.00	3,671.97	3,632.42	3,609.85	13.57	13.07	140.16	-156.38	-226.58	438.99	413.36	25.63	17.126	
3,800.00	3,770.78	3,728.85	3,704.18	13.98	13.49	139.83	-169.66	-241.61	464.94	438.55	26.39	17.621	
3,900.00	3,870.05	3,825.80	3,799.01	14.38	13.91	139.27	-183.00	-256.71	488.39	461.25	27.13	17.998	
4,000.00	3,969.69	3,923.63	3,894.70	14.75	14.34	138.48	-196.47	-271.95	509.39	481.50	27.88	18.268	
4,100.00	4,069.56	4,036.34	4,005.40	15.11	14.82	137.48	-210.45	-287.76	526.54	497.76	28.78	18.298	
4,200.00	4,169.54	4,150.76	4,118.56	15.44	15.29	-88.72	-221.68	-300.47	538.48	508.85	29.64	18.170	
4,300.00	4,269.54	4,266.42	4,233.53	15.77	15.75	-89.62	-229.99	-309.87	546.53	516.06	30.47	17.939	
4,400.00	4,369.54	4,382.92	4,349.75	16.10	16.17	-90.16	-235.24	-315.80	551.62	520.36	31.26	17.646	
4,500.00	4,469.54	4,499.87	4,466.64	16.43	16.58	-90.38	-237.35	-318.20	553.68	521.66	32.02	17.293	
4,600.00	4,569.54	4,602.76	4,569.54	16.76	16.91	-90.39	-237.40	-318.25	553.72	521.02	32.70	16.933	
4,700.00	4,669.54	4,702.76	4,669.54	17.09	17.24	-90.39	-237.40	-318.25	553.72	520.35	33.38	16.590	
4,800.00	4,769.54	4,802.76	4,769.54	17.43	17.57	-90.39	-237.40	-318.25	553.72	519.67	34.05	16.261	
4,900.00	4,869.54	4,902.76	4,869.54	17.76	17.90	-90.39	-237.40	-318.25	553.72	518.99	34.73	15.943	
5,000.00	4,969.54	5,002.76	4,969.54	18.10	18.24	-90.39	-237.40	-318.25	553.72	518.31	35.41	15.637	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	Warning
5,100.00	5,069.54	5,102.76	5,069.54	18.43	18.57	-90.39	-237.40	-318.25	553.72	517.63	36.09	15.342
5,200.00	5,169.54	5,202.76	5,169.54	18.77	18.90	-90.39	-237.40	-318.25	553.72	516.95	36.78	15.057
5,300.00	5,269.54	5,302.76	5,269.54	19.11	19.24	-90.39	-237.40	-318.25	553.72	516.27	37.46	14.782
5,400.00	5,369.54	5,402.76	5,369.54	19.45	19.57	-90.39	-237.40	-318.25	553.72	515.58	38.15	14.516
5,500.00	5,469.54	5,502.76	5,469.54	19.79	19.91	-90.39	-237.40	-318.25	553.72	514.89	38.83	14.260
5,600.00	5,569.54	5,602.76	5,569.54	20.13	20.25	-90.39	-237.40	-318.25	553.72	514.21	39.52	14.012
5,700.00	5,669.54	5,702.76	5,669.54	20.47	20.58	-90.39	-237.40	-318.25	553.72	513.52	40.21	13.772
5,800.00	5,769.54	5,802.76	5,769.54	20.81	20.92	-90.39	-237.40	-318.25	553.72	512.83	40.90	13.540
5,900.00	5,869.54	5,902.76	5,869.54	21.15	21.26	-90.39	-237.40	-318.25	553.72	512.14	41.59	13.315
6,000.00	5,969.54	6,002.76	5,969.54	21.49	21.60	-90.39	-237.40	-318.25	553.72	511.45	42.28	13.097
6,100.00	6,069.54	6,102.76	6,069.54	21.83	21.94	-90.39	-237.40	-318.25	553.72	510.75	42.97	12.886
6,200.00	6,169.54	6,202.76	6,169.54	22.18	22.28	-90.39	-237.40	-318.25	553.72	510.06	43.66	12.682
6,300.00	6,269.54	6,302.76	6,269.54	22.52	22.62	-90.39	-237.40	-318.25	553.72	509.37	44.36	12.483
6,400.00	6,369.54	6,402.76	6,369.54	22.87	22.97	-90.39	-237.40	-318.25	553.72	508.67	45.05	12.291
6,500.00	6,469.54	6,502.76	6,469.54	23.21	23.31	-90.39	-237.40	-318.25	553.72	507.98	45.75	12.104
6,600.00	6,569.54	6,602.76	6,569.54	23.56	23.65	-90.39	-237.40	-318.25	553.72	507.28	46.44	11.923
6,700.00	6,669.54	6,702.76	6,669.54	23.90	23.99	-90.39	-237.40	-318.25	553.72	506.59	47.14	11.747
6,800.00	6,769.54	6,802.76	6,769.54	24.25	24.34	-90.39	-237.40	-318.25	553.72	505.89	47.84	11.575
6,900.00	6,869.54	6,902.76	6,869.54	24.59	24.68	-90.39	-237.40	-318.25	553.72	505.19	48.53	11.409
7,000.00	6,969.54	7,002.76	6,969.54	24.94	25.03	-90.39	-237.40	-318.25	553.72	504.49	49.23	11.247
7,100.00	7,069.54	7,102.76	7,069.54	25.29	25.37	-90.39	-237.40	-318.25	553.72	503.79	49.93	11.090
7,200.00	7,169.54	7,202.76	7,169.54	25.63	25.72	-90.39	-237.40	-318.25	553.72	503.10	50.63	10.937
7,300.00	7,269.54	7,302.76	7,269.54	25.98	26.06	-90.39	-237.40	-318.25	553.72	502.40	51.33	10.788
7,400.00	7,369.54	7,402.76	7,369.54	26.33	26.41	-90.39	-237.40	-318.25	553.72	501.70	52.03	10.643
7,500.00	7,469.54	7,502.76	7,469.54	26.68	26.76	-90.39	-237.40	-318.25	553.72	500.99	52.73	10.501
7,600.00	7,569.54	7,602.76	7,569.54	27.03	27.10	-90.39	-237.40	-318.25	553.72	500.29	53.43	10.363
7,700.00	7,669.54	7,702.76	7,669.54	27.37	27.45	-90.39	-237.40	-318.25	553.72	499.59	54.13	10.229
7,800.00	7,769.54	7,802.76	7,769.54	27.72	27.80	-90.39	-237.40	-318.25	553.72	498.89	54.83	10.098
7,900.00	7,869.54	7,902.76	7,869.54	28.07	28.14	-90.39	-237.40	-318.25	553.72	498.19	55.54	9.970
8,000.00	7,969.54	8,002.76	7,969.54	28.42	28.49	-90.39	-237.40	-318.25	553.72	497.49	56.24	9.846
8,100.00	8,069.54	8,102.76	8,069.54	28.77	28.84	-90.39	-237.40	-318.25	553.72	496.78	56.94	9.724
8,200.00	8,169.54	8,202.76	8,169.54	29.12	29.19	-90.39	-237.40	-318.25	553.72	496.08	57.65	9.606
8,300.00	8,269.54	8,302.76	8,269.54	29.47	29.54	-90.39	-237.40	-318.25	553.72	495.38	58.35	9.490
8,400.00	8,369.54	8,402.76	8,369.54	29.82	29.89	-90.39	-237.40	-318.25	553.72	494.67	59.05	9.377
8,500.00	8,469.54	8,502.76	8,469.54	30.17	30.24	-90.39	-237.40	-318.25	553.72	493.97	59.76	9.266
8,600.00	8,569.54	8,602.76	8,569.54	30.52	30.59	-90.39	-237.40	-318.25	553.72	493.26	60.46	9.158
8,700.00	8,669.54	8,702.76	8,669.54	30.87	30.93	-90.39	-237.40	-318.25	553.72	492.56	61.17	9.053
8,800.00	8,769.54	8,802.76	8,769.54	31.22	31.28	-90.39	-237.40	-318.25	553.72	491.85	61.87	8.949
8,900.00	8,869.54	8,902.76	8,869.54	31.57	31.63	-90.39	-237.40	-318.25	553.72	491.15	62.58	8.849
9,000.00	8,969.54	9,002.76	8,969.54	31.93	31.98	-90.39	-237.40	-318.25	553.72	490.44	63.28	8.750
9,100.00	9,069.54	9,102.76	9,069.54	32.28	32.33	-90.39	-237.40	-318.25	553.72	489.74	63.99	8.653
9,200.00	9,169.54	9,202.76	9,169.54	32.63	32.69	-90.39	-237.40	-318.25	553.72	489.03	64.70	8.559
9,300.00	9,269.54	9,302.76	9,269.54	32.98	33.04	-90.39	-237.40	-318.25	553.72	488.32	65.40	8.467
9,400.00	9,369.54	9,402.76	9,369.54	33.33	33.39	-90.39	-237.40	-318.25	553.72	487.62	66.11	8.376
9,500.00	9,469.54	9,502.76	9,469.54	33.68	33.74	-90.39	-237.40	-318.25	553.72	486.91	66.82	8.287
9,600.00	9,569.54	9,602.76	9,569.54	34.04	34.09	-90.39	-237.40	-318.25	553.72	486.20	67.52	8.201
9,700.00	9,669.54	9,702.76	9,669.54	34.39	34.44	-90.39	-237.40	-318.25	553.72	485.50	68.23	8.116
9,800.00	9,769.54	9,802.76	9,769.54	34.74	34.79	-90.39	-237.40	-318.25	553.72	484.79	68.94	8.032
9,900.00	9,869.54	9,902.76	9,869.54	35.09	35.14	-90.39	-237.40	-318.25	553.72	484.08	69.64	7.951
10,000.00	9,969.54	10,002.76	9,969.54	35.45	35.50	-90.39	-237.40	-318.25	553.72	483.37	70.35	7.871
10,100.00	10,069.54	10,102.76	10,069.54	35.80	35.85	-90.39	-237.40	-318.25	553.72	482.66	71.06	7.792

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,200.00	10,169.54	10,202.76	10,169.54	36.15	36.20	-90.39	-237.40	-318.25	553.72	481.96	71.77	7.715		
10,300.00	10,269.54	10,302.76	10,269.54	36.51	36.55	-90.39	-237.40	-318.25	553.72	481.25	72.48	7.640		
10,400.00	10,369.54	10,402.76	10,369.54	36.86	36.90	-90.39	-237.40	-318.25	553.72	480.54	73.19	7.566		
10,500.00	10,469.54	10,502.76	10,469.54	37.21	37.26	-90.39	-237.40	-318.25	553.72	479.83	73.89	7.493		
10,600.00	10,569.54	10,602.76	10,569.54	37.57	37.61	-90.39	-237.40	-318.25	553.72	479.12	74.60	7.422		
10,700.00	10,669.54	10,702.76	10,669.54	37.92	37.96	-90.39	-237.40	-318.25	553.72	478.41	75.31	7.352		
10,800.00	10,769.54	10,802.76	10,769.54	38.27	38.31	-90.39	-237.40	-318.25	553.72	477.70	76.02	7.284		
10,900.00	10,869.54	10,902.76	10,869.54	38.63	38.67	-90.39	-237.40	-318.25	553.72	476.99	76.73	7.216		
10,900.01	10,869.55	10,902.77	10,869.55	38.63	38.67	-90.39	-237.40	-318.25	553.72	476.99	76.73	7.216		
11,000.00	10,969.45	11,002.68	10,969.45	38.98	39.02	-90.28	-237.40	-318.25	553.73	476.30	77.44	7.151		
11,100.00	11,067.64	11,100.86	11,067.64	39.30	39.37	-92.10	-237.40	-318.25	554.12	476.02	78.11	7.094		
11,200.00	11,161.16	11,192.21	11,158.86	39.59	39.68	-94.81	-234.09	-318.72	556.68	477.97	78.71	7.072		
11,300.00	11,247.17	11,285.51	11,250.39	39.83	39.99	-97.37	-216.70	-321.16	563.13	483.86	79.27	7.104		
11,400.00	11,323.06	11,384.21	11,342.75	40.03	40.28	-99.70	-182.58	-325.96	573.46	493.70	79.76	7.190		
11,500.00	11,386.52	11,489.42	11,433.14	40.18	40.53	-101.75	-129.54	-333.41	587.24	507.14	80.10	7.331		
11,600.00	11,435.62	11,602.32	11,517.48	40.33	40.74	-103.44	-55.49	-343.82	603.77	523.54	80.22	7.526		
11,700.00	11,468.88	11,724.01	11,590.09	40.54	40.89	-104.71	40.94	-357.37	622.02	541.88	80.14	7.761		
11,800.00	11,485.28	11,855.18	11,643.46	40.77	41.11	-105.47	159.28	-374.00	640.76	560.77	80.00	8.010		
11,900.00	11,486.77	11,995.90	11,668.98	41.03	41.50	-106.21	295.97	-393.21	658.00	577.88	80.12	8.212		
12,000.00	11,486.33	12,106.59	11,669.76	41.36	41.84	-105.97	405.56	-408.61	671.00	590.21	80.78	8.306		
12,100.00	11,485.90	12,244.29	11,669.30	41.74	42.36	-105.63	542.31	-424.51	681.71	600.00	81.71	8.343		
12,200.00	11,485.46	12,393.12	11,668.81	42.19	43.02	-105.52	690.97	-430.76	685.07	602.31	82.76	8.278		
12,300.00	11,485.02	12,493.12	11,668.48	42.70	43.53	-105.53	790.97	-431.43	685.10	601.38	83.72	8.183		
12,400.00	11,484.59	12,593.12	11,668.15	43.26	44.09	-105.54	890.97	-432.10	685.13	600.34	84.79	8.080		
12,500.00	11,484.15	12,693.12	11,667.82	43.88	44.70	-105.55	990.96	-432.77	685.17	599.20	85.97	7.970		
12,600.00	11,483.71	12,793.12	11,667.49	44.55	45.36	-105.56	1,090.96	-433.44	685.20	597.95	87.25	7.854		
12,700.00	11,483.27	12,893.12	11,667.16	45.27	46.08	-105.57	1,190.96	-434.10	685.23	596.61	88.62	7.732		
12,800.00	11,482.83	12,993.12	11,666.83	46.04	46.84	-105.58	1,290.95	-434.77	685.27	595.18	90.09	7.606		
12,900.00	11,482.39	13,093.12	11,666.51	46.85	47.64	-105.58	1,390.95	-435.44	685.30	593.65	91.65	7.478		
13,000.00	11,481.95	13,193.12	11,666.18	47.71	48.49	-105.59	1,490.95	-436.11	685.33	592.05	93.29	7.347		
13,100.00	11,481.52	13,293.12	11,665.85	48.61	49.38	-105.60	1,590.95	-436.77	685.37	590.36	95.00	7.214		
13,200.00	11,481.08	13,393.12	11,665.52	49.55	50.31	-105.61	1,690.94	-437.44	685.40	588.60	96.80	7.081		
13,300.00	11,480.64	13,493.12	11,665.19	50.52	51.27	-105.62	1,790.94	-438.11	685.43	586.77	98.66	6.947		
13,400.00	11,480.20	13,593.12	11,664.86	51.53	52.27	-105.63	1,890.94	-438.78	685.46	584.87	100.59	6.814		
13,500.00	11,479.75	13,693.12	11,664.53	52.57	53.30	-105.64	1,990.93	-439.45	685.50	582.91	102.59	6.682		
13,600.00	11,479.31	13,793.12	11,664.20	53.65	54.36	-105.65	2,090.93	-440.11	685.53	580.89	104.64	6.551		
13,700.00	11,478.87	13,893.12	11,663.87	54.75	55.46	-105.66	2,190.93	-440.78	685.56	578.81	106.75	6.422		
13,800.00	11,478.43	13,993.12	11,663.54	55.88	56.58	-105.66	2,290.93	-441.45	685.60	576.69	108.91	6.295		
13,900.00	11,477.99	14,093.12	11,663.21	57.03	57.72	-105.67	2,390.92	-442.12	685.63	574.51	111.12	6.170		
14,000.00	11,477.55	14,193.12	11,662.88	58.21	58.89	-105.68	2,490.92	-442.78	685.66	572.29	113.37	6.048		
14,100.00	11,477.11	14,293.12	11,662.56	59.41	60.08	-105.69	2,590.92	-443.45	685.69	570.02	115.67	5.928		
14,200.00	11,476.66	14,393.12	11,662.23	60.64	61.29	-105.70	2,690.91	-444.12	685.73	567.71	118.01	5.811		
14,300.00	11,476.22	14,493.12	11,661.90	61.88	62.53	-105.71	2,790.91	-444.79	685.76	565.37	120.39	5.696		
14,400.00	11,475.78	14,593.12	11,661.57	63.14	63.78	-105.72	2,890.91	-445.46	685.79	562.99	122.81	5.584		
14,500.00	11,475.34	14,693.12	11,661.24	64.42	65.05	-105.73	2,990.91	-446.12	685.83	560.57	125.25	5.475		
14,600.00	11,474.89	14,793.12	11,660.91	65.72	66.34	-105.74	3,090.90	-446.79	685.86	558.13	127.73	5.369		
14,700.00	11,474.45	14,893.12	11,660.58	67.03	67.64	-105.75	3,190.90	-447.46	685.89	555.65	130.24	5.266		
14,800.00	11,474.00	14,993.12	11,660.25	68.36	68.96	-105.76	3,290.90	-448.13	685.93	553.14	132.78	5.166		
14,900.00	11,473.56	15,093.12	11,659.92	69.70	70.29	-105.76	3,390.89	-448.79	685.96	550.61	135.34	5.068		
15,000.00	11,473.12	15,193.12	11,659.59	71.06	71.64	-105.77	3,490.89	-449.46	685.99	548.06	137.93	4.973		
15,100.00	11,472.67	15,293.12	11,659.26	72.43	73.00	-105.78	3,590.89	-450.13	686.02	545.48	140.54	4.881		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD					Rule Assigned:				Offset Well Error:		0.00 usft	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
15,200.00	11,472.23	15,393.12	11,658.93	73.81	74.37	-105.79	3,690.89	-450.80	686.06	542.88	143.18	4.792		
15,300.00	11,471.78	15,493.12	11,658.61	75.20	75.76	-105.80	3,790.88	-451.47	686.09	540.26	145.83	4.705		
15,400.00	11,471.34	15,593.12	11,658.28	76.60	77.15	-105.81	3,890.88	-452.13	686.12	537.62	148.50	4.620		
15,500.00	11,470.89	15,693.12	11,657.95	78.01	78.55	-105.82	3,990.88	-452.80	686.16	534.96	151.20	4.538		
15,600.00	11,470.44	15,793.12	11,657.62	79.43	79.97	-105.83	4,090.87	-453.47	686.19	532.28	153.90	4.459		
15,700.00	11,470.00	15,893.12	11,657.29	80.86	81.39	-105.84	4,190.87	-454.14	686.22	529.59	156.63	4.381		
15,800.00	11,469.55	15,993.12	11,656.96	82.30	82.82	-105.85	4,290.87	-454.80	686.25	526.88	159.37	4.306		
15,900.00	11,469.10	16,093.12	11,656.63	83.74	84.26	-105.86	4,390.87	-455.47	686.29	524.16	162.13	4.233		
16,000.00	11,468.66	16,193.12	11,656.30	85.20	85.71	-105.87	4,490.86	-456.14	686.32	521.43	164.89	4.162		
16,100.00	11,468.21	16,293.12	11,655.97	86.66	87.16	-105.88	4,590.86	-456.81	686.35	518.68	167.67	4.093		
16,200.00	11,467.76	16,393.12	11,655.64	88.13	88.62	-105.89	4,690.86	-457.48	686.39	515.92	170.47	4.026		
16,300.00	11,467.32	16,493.12	11,655.31	89.60	90.09	-105.90	4,790.86	-458.14	686.42	513.15	173.27	3.961		
16,400.00	11,466.87	16,593.12	11,654.98	91.08	91.57	-105.91	4,890.85	-458.81	686.45	510.36	176.09	3.898		
16,500.00	11,466.42	16,693.12	11,654.65	92.57	93.05	-105.91	4,990.85	-459.48	686.48	507.57	178.91	3.837		
16,600.00	11,465.97	16,793.12	11,654.33	94.06	94.54	-105.92	5,090.85	-460.15	686.52	504.77	181.75	3.777		
16,700.00	11,465.52	16,893.12	11,654.00	95.56	96.03	-105.93	5,190.84	-460.81	686.55	501.96	184.59	3.719		
16,800.00	11,465.07	16,993.12	11,653.67	97.06	97.53	-105.94	5,290.84	-461.48	686.58	499.14	187.45	3.663		
16,900.00	11,464.62	17,093.12	11,653.34	98.57	99.03	-105.95	5,390.84	-462.15	686.62	496.31	190.31	3.608		
17,000.00	11,464.17	17,193.12	11,653.01	100.08	100.54	-105.96	5,490.84	-462.82	686.65	493.47	193.17	3.555		
17,100.00	11,463.72	17,293.12	11,652.68	101.60	102.05	-105.97	5,590.83	-463.48	686.68	490.63	196.05	3.503		
17,200.00	11,463.27	17,393.12	11,652.35	103.12	103.57	-105.98	5,690.83	-464.15	686.71	487.78	198.93	3.452		
17,300.00	11,462.82	17,493.12	11,652.02	104.65	105.09	-105.99	5,790.83	-464.82	686.75	484.93	201.82	3.403		
17,400.00	11,462.37	17,593.12	11,651.69	106.18	106.61	-106.00	5,890.82	-465.49	686.78	482.06	204.72	3.355		
17,500.00	11,461.92	17,693.12	11,651.36	107.71	108.14	-106.01	5,990.82	-466.16	686.81	479.20	207.62	3.308		
17,600.00	11,461.47	17,793.12	11,651.03	109.25	109.67	-106.02	6,090.82	-466.82	686.85	476.33	210.52	3.263		
17,700.00	11,461.02	17,893.12	11,650.70	110.79	111.21	-106.03	6,190.82	-467.49	686.88	473.45	213.43	3.218		
17,800.00	11,460.57	17,993.12	11,650.38	112.33	112.75	-106.04	6,290.81	-468.16	686.91	470.57	216.35	3.175		
17,900.00	11,460.12	18,093.12	11,650.05	113.88	114.29	-106.05	6,390.81	-468.83	686.95	467.68	219.27	3.133		
18,000.00	11,459.66	18,193.12	11,649.72	115.43	115.84	-106.06	6,490.81	-469.49	686.98	464.79	222.19	3.092		
18,100.00	11,459.21	18,293.12	11,649.39	116.98	117.39	-106.07	6,590.80	-470.16	687.01	461.89	225.12	3.052		
18,200.00	11,458.76	18,393.12	11,649.06	118.54	118.94	-106.08	6,690.80	-470.83	687.04	459.00	228.05	3.013		
18,300.00	11,458.31	18,493.12	11,648.73	120.09	120.49	-106.09	6,790.80	-471.50	687.08	456.09	230.98	2.975		
18,400.00	11,457.85	18,593.12	11,648.40	121.66	122.05	-106.10	6,890.80	-472.17	687.11	453.19	233.92	2.937		
18,500.00	11,457.40	18,693.12	11,648.07	123.22	123.61	-106.11	6,990.79	-472.83	687.14	450.28	236.86	2.901		
18,600.00	11,456.95	18,793.12	11,647.74	124.78	125.17	-106.12	7,090.79	-473.50	687.18	447.37	239.80	2.866		
18,700.00	11,456.49	18,893.12	11,647.41	126.35	126.74	-106.13	7,190.79	-474.17	687.21	444.46	242.75	2.831		
18,800.00	11,456.04	18,993.12	11,647.08	127.92	128.31	-106.14	7,290.78	-474.84	687.24	441.55	245.70	2.797		
18,900.00	11,455.58	19,093.12	11,646.75	129.50	129.87	-106.15	7,390.78	-475.50	687.27	438.63	248.65	2.764		
19,000.00	11,455.13	19,193.12	11,646.43	131.07	131.45	-106.16	7,490.78	-476.17	687.31	435.71	251.60	2.732		
19,100.00	11,454.67	19,293.12	11,646.10	132.65	133.02	-106.17	7,590.78	-476.84	687.34	432.79	254.55	2.700		
19,200.00	11,454.22	19,393.12	11,645.77	134.22	134.59	-106.18	7,690.77	-477.51	687.37	429.87	257.51	2.669		
19,300.00	11,453.76	19,493.12	11,645.44	135.80	136.17	-106.19	7,790.77	-478.18	687.41	426.94	260.46	2.639		
19,400.00	11,453.31	19,593.12	11,645.11	137.39	137.75	-106.20	7,890.77	-478.84	687.44	424.02	263.42	2.610		
19,500.00	11,452.85	19,693.12	11,644.78	138.97	139.33	-106.21	7,990.76	-479.51	687.47	421.09	266.38	2.581		
19,600.00	11,452.39	19,793.12	11,644.45	140.56	140.92	-106.22	8,090.76	-480.18	687.51	418.17	269.34	2.553		
19,700.00	11,451.94	19,893.12	11,644.12	142.14	142.50	-106.23	8,190.76	-480.85	687.54	415.24	272.30	2.525		
19,800.00	11,451.48	19,993.12	11,643.79	143.73	144.09	-106.24	8,290.76	-481.51	687.57	412.31	275.26	2.498		
19,900.00	11,451.02	20,093.12	11,643.46	145.32	145.67	-106.25	8,390.75	-482.18	687.60	409.38	278.22	2.471		
20,000.00	11,450.57	20,193.12	11,643.13	146.91	147.26	-106.26	8,490.75	-482.85	687.64	406.45	281.18	2.446		
20,100.00	11,450.11	20,293.12	11,642.80	148.51	148.85	-106.27	8,590.75	-483.52	687.67	403.52	284.15	2.420		
20,200.00	11,449.65	20,393.12	11,642.47	150.10	150.45	-106.28	8,690.74	-484.19	687.70	400.59	287.11	2.395		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
20,300.00	11,449.19	20,493.12	11,642.15	151.70	152.04	-106.29	8,790.74	-484.85	687.74	397.66	290.07	2.371
20,400.00	11,448.73	20,593.12	11,641.82	153.29	153.63	-106.30	8,890.74	-485.52	687.77	394.74	293.03	2.347
20,500.00	11,448.27	20,693.12	11,641.49	154.89	155.23	-106.31	8,990.74	-486.19	687.80	391.81	296.00	2.324
20,600.00	11,447.82	20,793.12	11,641.16	156.49	156.83	-106.33	9,090.73	-486.86	687.84	388.88	298.96	2.301
20,700.00	11,447.36	20,893.12	11,640.83	158.09	158.43	-106.34	9,190.73	-487.52	687.87	385.95	301.92	2.278
20,800.00	11,446.90	20,993.12	11,640.50	159.70	160.03	-106.35	9,290.73	-488.19	687.90	383.02	304.88	2.256
20,900.00	11,446.44	21,093.12	11,640.17	161.30	161.63	-106.36	9,390.72	-488.86	687.93	380.09	307.84	2.235
21,000.00	11,445.98	21,193.12	11,639.84	162.90	163.23	-106.37	9,490.72	-489.53	687.97	377.17	310.80	2.214
21,100.00	11,445.52	21,293.12	11,639.51	164.51	164.83	-106.38	9,590.72	-490.20	688.00	374.24	313.76	2.193
21,200.00	11,445.06	21,393.12	11,639.18	166.11	166.44	-106.39	9,690.72	-490.86	688.03	371.32	316.72	2.172
21,300.00	11,444.60	21,493.12	11,638.85	167.72	168.04	-106.40	9,790.71	-491.53	688.07	368.39	319.68	2.152
21,400.00	11,444.14	21,593.12	11,638.52	169.33	169.65	-106.41	9,890.71	-492.20	688.10	365.47	322.63	2.133
21,500.00	11,443.67	21,693.12	11,638.20	170.94	171.25	-106.42	9,990.71	-492.87	688.13	362.55	325.59	2.114
21,600.00	11,443.21	21,793.12	11,637.87	172.55	172.86	-106.43	10,090.70	-493.53	688.17	359.63	328.54	2.095
21,700.00	11,442.75	21,893.12	11,637.54	174.16	174.47	-106.44	10,190.70	-494.20	688.20	356.71	331.49	2.076
21,800.00	11,442.29	21,993.12	11,637.21	175.77	176.08	-106.45	10,290.70	-494.87	688.23	353.79	334.44	2.058
21,862.35	11,442.00	22,055.46	11,637.00	176.77	177.08	-106.46	10,353.04	-495.29	688.25	351.97	336.28	2.047 SF

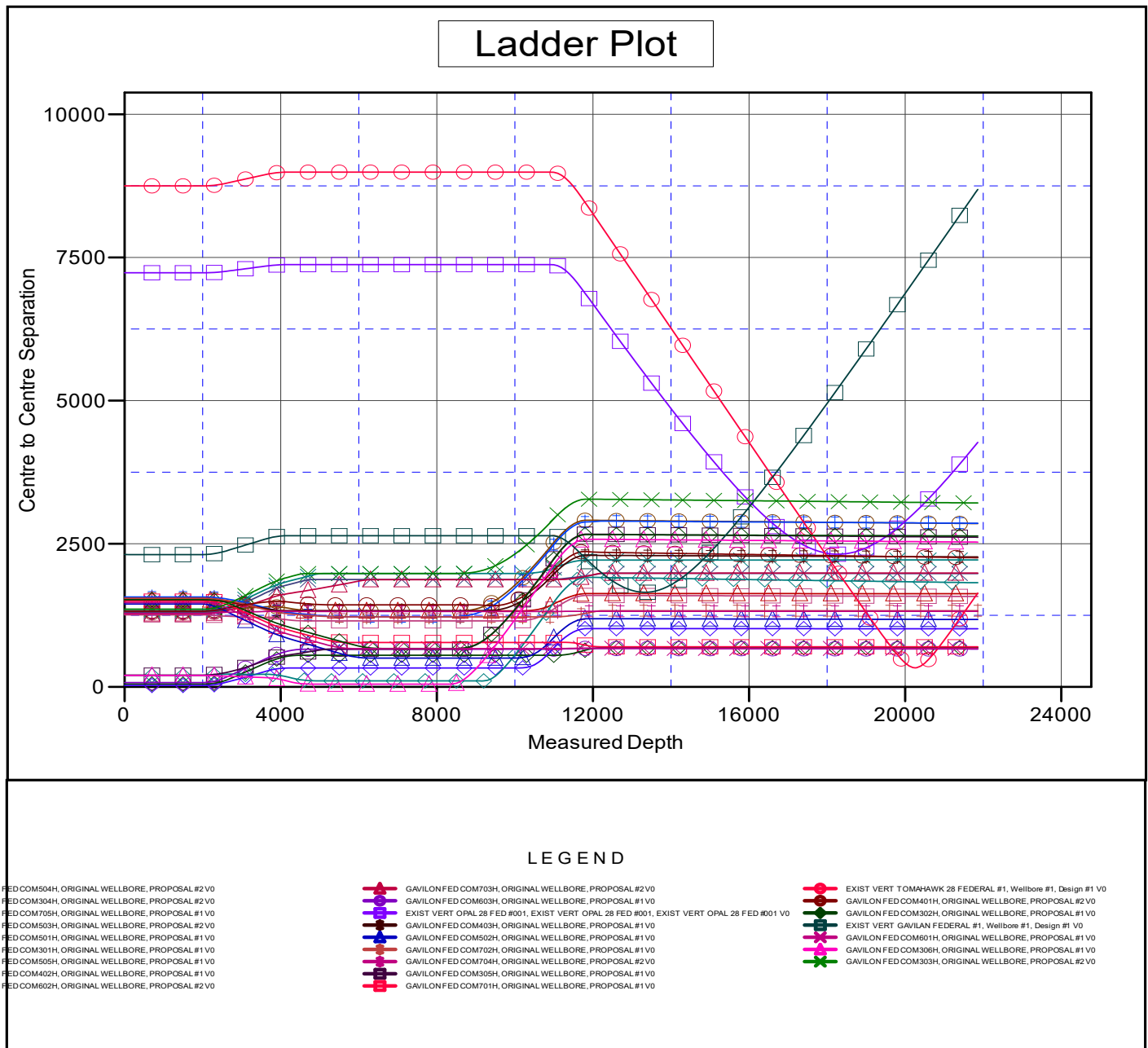
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	MD Reference:	KB EST 25' @ 3692.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	GAVILON FED COM 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB EST 25' @ 3692.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: GAVILON FED COM 706H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.36°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	ASCENT ENERGY	Local Co-ordinate Reference:	Well GAVILON FED COM 706H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	TVD Reference:	KB EST 25' @ 3692.00usft
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Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB EST 25' @ 3692.00usft

Offset Depths are relative to Offset Datum

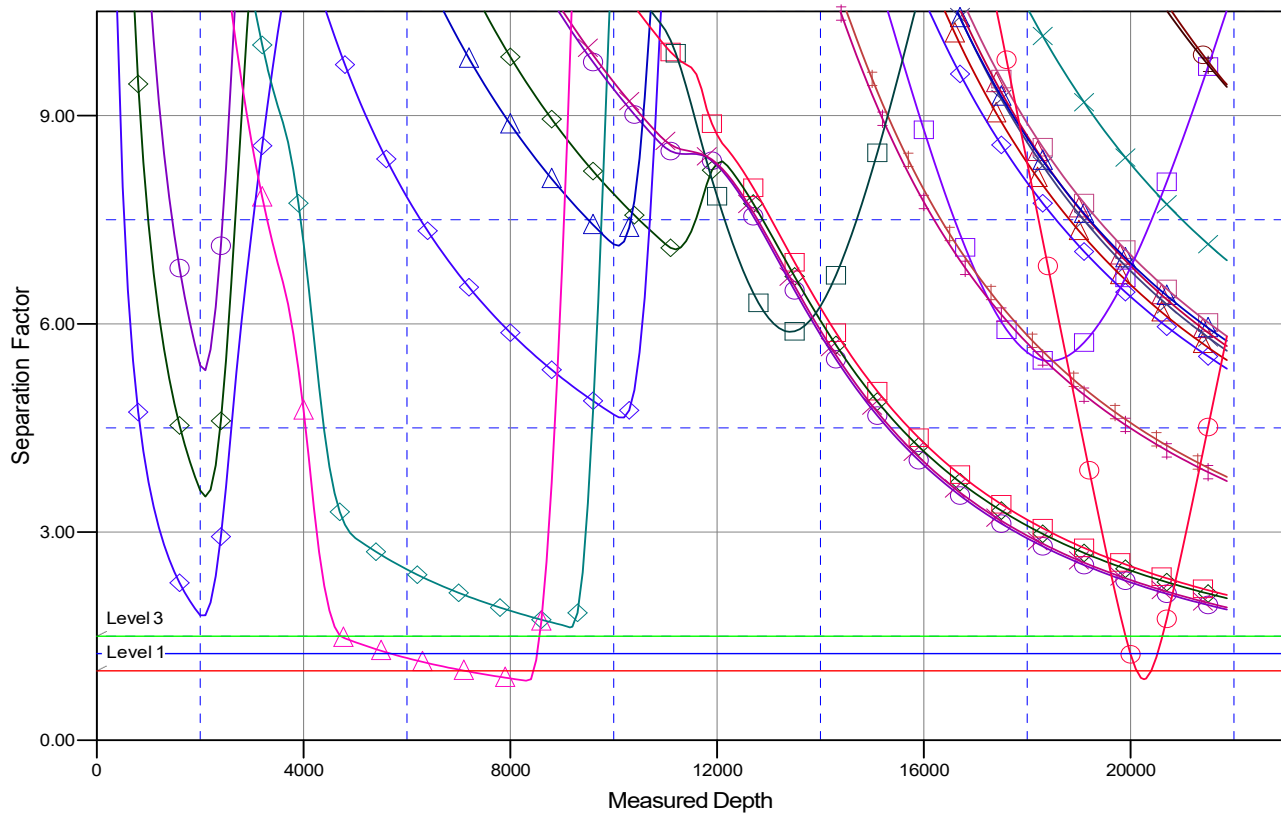
Central Meridian is -104.333334

Coordinates are relative to: GAVILON FED COM 706H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.36°

Separation Factor Plot



LEGEND

DN FED COM504H, ORIGINAL WELLBORE, PROPOSAL #2 V0
 DN FED COM304H, ORIGINAL WELLBORE, PROPOSAL #2 V0
 DN FED COM705H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 DN FED COM503H, ORIGINAL WELLBORE, PROPOSAL #2 V0
 DN FED COM501H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 DN FED COM301H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 DN FED COM505H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 DN FED COM402H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 DN FED COM602H, ORIGINAL WELLBORE, PROPOSAL #2 V0

● GAVILON FED COM703H, ORIGINAL WELLBORE, PROPOSAL #2 V0
 ● GAVILON FED COM603H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 ● EXIST VERT OPAL 28 FED #001, EXIST VERT OPAL 28 FED #001, EXIST VERT OPAL 28 FED #001 V0
 ● GAVILON FED COM403H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 ● GAVILON FED COM502H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 ● GAVILON FED COM702H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 ● GAVILON FED COM704H, ORIGINAL WELLBORE, PROPOSAL #2 V0
 ● GAVILON FED COM305H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 ● GAVILON FED COM701H, ORIGINAL WELLBORE, PROPOSAL #1 V0

● EXIST VERT TOMAHAWK 28 FEDERAL #1, Wellbore #1, Design #1 V0
 ● GAVILON FED COM401H, ORIGINAL WELLBORE, PROPOSAL #2 V0
 ● GAVILON FED COM302H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 ● EXIST VERT GAVILON FEDERAL #1, Wellbore #1, Design #1 V0
 ● GAVILON FED COM601H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 ● GAVILON FED COM306H, ORIGINAL WELLBORE, PROPOSAL #1 V0
 ● GAVILON FED COM303H, ORIGINAL WELLBORE, PROPOSAL #2 V0

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COMPASS 5000.15 Build 90

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 19027

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
ASCENT ENERGY, LLC. 1125 17th St Suite 410 Denver, CO80202	325830	19027	FORM 3160-3

OCD Reviewer	Condition
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string