

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

OCD - HOBBS
11/18/2020
RECEIVED

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
		8. Lease Name and Well No. [329876]
2. Name of Operator [373910]		9. API Well No. 30-025-48102
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [97088]
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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 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 11/18/2020

SL

(Continued on page 2)

APPROVED WITH CONDITIONS
Approval Date: 10/09/2020

KZ
12/01/2020

*(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: SWSW / 250 FSL / 488 FWL / TWSP: 25S / RANGE: 35E / SECTION: 36 / LAT: 32.08026 / LONG: -103.328211 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 0 FNL / 356 FWL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.065046 / LONG: -103.328628 (TVD: 11961 feet, MD: 14406 feet)

PPP: NWNW / 116 FNL / 361 FWL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.079256 / LONG: -103.32862 (TVD: 11713 feet, MD: 11762 feet)

PPP: NWNW / 0 FNL / 401 FWL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.079573 / LONG: -103.32849 (TVD: 11630 feet, MD: 11640 feet)

BHL: SWSW / 150 FSL / 350 FWL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.050935 / LONG: -103.328637 (TVD: 12050 feet, MD: 22573 feet)

BLM Point of Contact

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: (575) 234-2224

Email: tortiz@blm.gov

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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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Hydrogen Sulfide Plan

- A. All personnel shall receive proper awareness H₂S training.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment
 - a. Well Control Equipment
 - i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.
 - ii. Choke manifold with a remotely operated hydraulic choke.
 - iii. Mud/gas separator
 - b. Protective equipment for essential personnel
 - i. Breathing Apparatus
 - 1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.
 - 2. Work/Escapes packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
 - 3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation
 - ii. Auxiliary Rescue Equipment
 - 1. Stretcher
 - 2. Two OSHA full body harnesses
 - 3. 100 feet of 5/8 inches OSHA approved rope
 - 4. 1-20# class ABC fire extinguisher
 - c. H₂S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 - 1. Rig Floor
 - 2. Below Rig Floor / Near BOPs
 - 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H₂S is encountered, measured values and formations will be provided to the BLM.
 - d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
 - e. Mud Program
 - i. The Mud program will be designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.



- f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

Franklin Mountain Energy has conducted a review of offset operated wells to determine if an H₂S contingency plan is required for the proposed well. Based on concentrations of offset wells, proximity to main roads, and distance to populated areas, the radius of exposure created by a potential release was determined to be minimal and low enough to not necessitate an H₂S contingency plan. This will be reevaluated during wellbore construction if H₂S is observed and after the well is on production.



Emergency Contact List:

Vladimir Roudakov, Drilling Engineer	Cell 720 933 9784
Rachael Overbey, Project and Regulatory Director	Cell 303 570 4057
Franklin Mountain Energy Afterhours Emergency Call Tree:	720-640-7517

EMERGENCY NUMBERS:

<u>Agency</u>	<u>Telephone Number</u>
BLM – Carlsbad Mainline	575-234-5972
BLM – Spill Emergency	575-234-6235
BLM – Engineering Emergency	575-361-2822
NMOCD District 1 – Hobbs Mainline	575-393-6161
NMOCD Emergency Line	575-370-3186
Wild Well Control	281-784-4700
H2S Emergency response:	
Air Ambulance New Mexico – Lea Co Reginal	575-391-2934
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222

PECOS DISTRICT

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Franklin Mountain Energy LLC
LEASE NO.:	NMNM117126
LOCATION:	Section 36, T.25 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Judge Baylor Fed Com 701H
SURFACE HOLE FOOTAGE:	250'/S & 523'/W
BOTTOM HOLE FOOTAGE:	150'/S & 660'/W

WELL NAME & NO.:	Judge Baylor Fed Com 601H
SURFACE HOLE FOOTAGE:	250'/S & 488'/W
BOTTOM HOLE FOOTAGE:	150'/S & 350'/W

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

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately **1150 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 **8 hours** 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 **9-5/8** inch intermediate casing shall be set at approximately **5400 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing

shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

Option 2:

1. 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 casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) 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.

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.

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
 Site: Judge Baylor Fed Com
 Well: Judge Baylor Fed Com 601H
 Wellbore: OH
 Design: Plan #2

3070' GE + 21' KB @ 3091.00usft



Azimuths to Grid North
 True North: -0.53°
 Magnetic North: 6.00°

Magnetic Field
 Strength: 47603.8nT
 Dip Angle: 59.93°
 Date: 2/25/2020
 Model: IGRF2015

PROJECT DETAILS: Lea County, NM (NAD83)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone

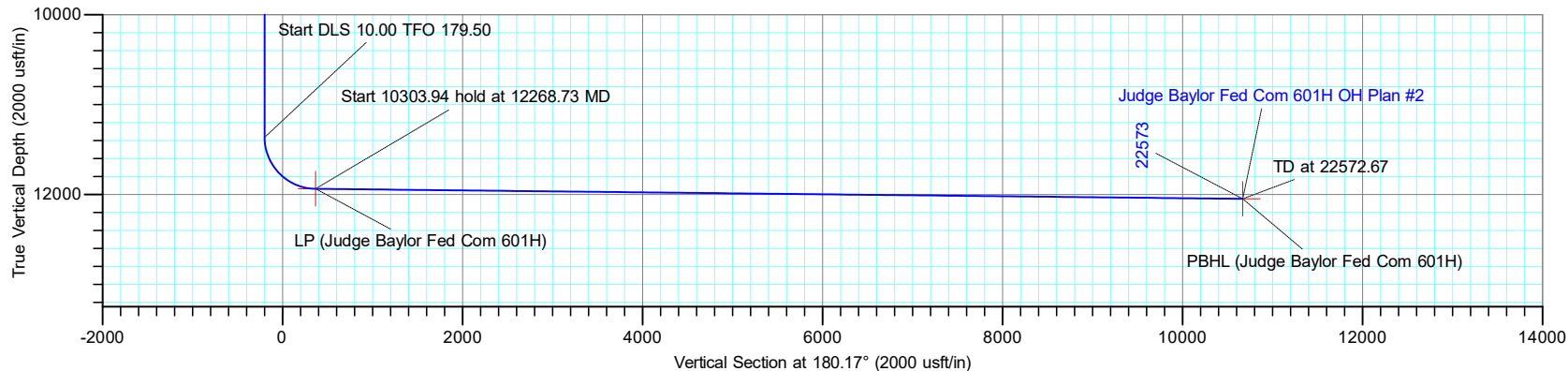
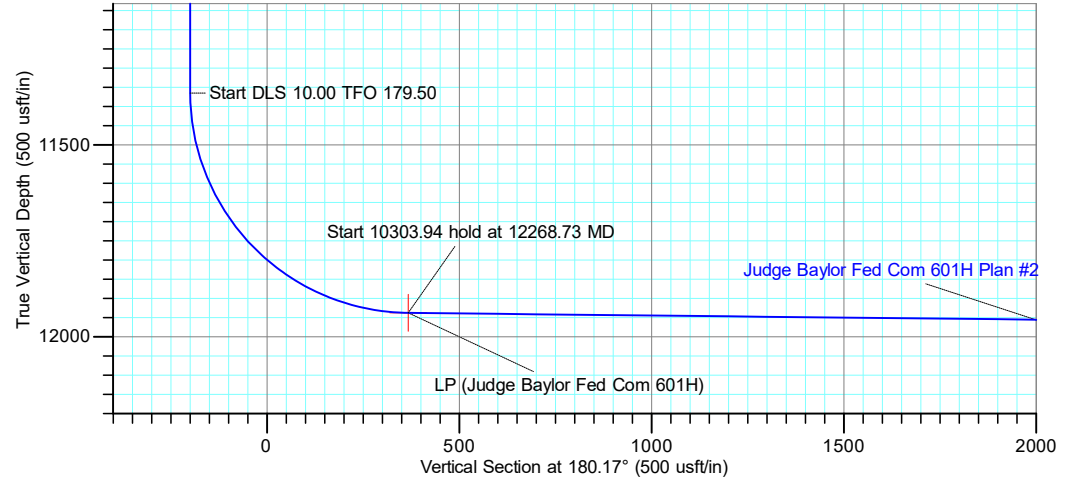
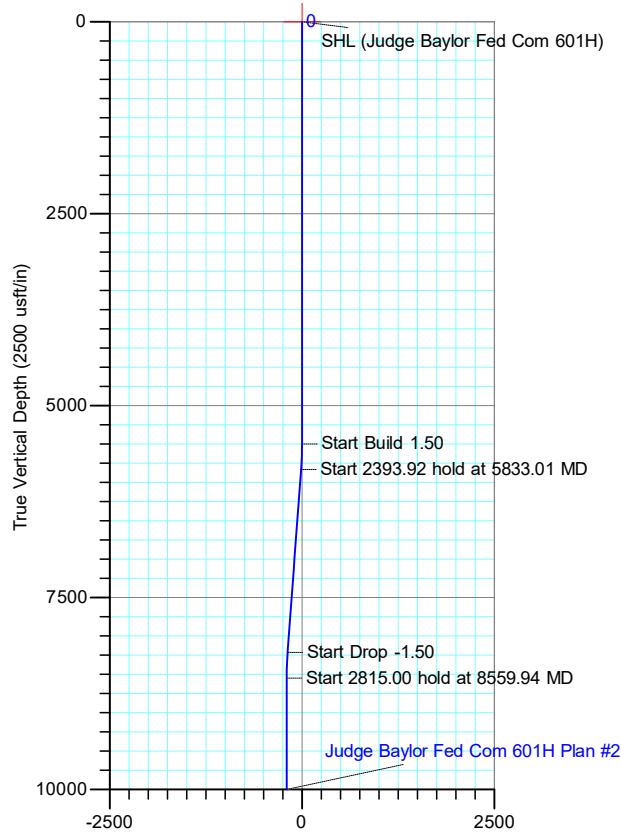


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
5833.01	5.00	327.38	5832.58	12.22	-7.82	1.50	327.38	-12.19	Start 2393.92 hold at 5833.01 MD
8226.93	5.00	327.38	8217.42	187.78	-120.18	0.00	0.00	-187.41	Start Drop -1.50
8559.94	0.00	0.00	8550.00	200.00	-128.00	1.50	180.00	-199.61	Start 2815.00 hold at 8559.94 MD
11374.94	0.00	0.00	11365.00	200.00	-128.00	0.00	0.00	-199.61	Start DLS 10.00 TFO 179.50
12268.73	89.38	179.50	11937.92	-366.73	-123.02	10.00	179.50	367.11	Start 10303.94 hold at 12268.73 MD
22572.67	89.38	179.50	12049.46	-10669.67	-32.58	0.00	0.00	10669.72	TD at 22572.67

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (Judge Baylor Fed Com 601H)	11937.92	-366.73	-123.02	32.079256	-103.328620
PBHL (Judge Baylor Fed Com 601H)	12049.46	-10669.67	-32.58	32.050935	-103.328637
SHL (Judge Baylor Fed Com 601H)	0.00	0.00	0.00	32.080260	-103.328211



TOTAL DIRECTIONAL SERVICES LLC
 671 Academy Ct, Windsor, CO 80550
 Phone: (970) 460-9402

Plan: Plan #2 (Judge Baylor Fed Com 601H/OH)
 Judge Baylor Fed Com
 Created By: Dustin Ault
 Date: 23:09, February 25 2020
 Approved: _____ Date: _____

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Judge Baylor Fed Com
Well: Judge Baylor Fed Com 601H
Wellbore: OH
Design: Plan #2



Azimuths to Grid North
True North: -0.53°
Magnetic North: 6.00°

Magnetic Field
Strength: 47603.8nT
Dip Angle: 59.93°
Date: 2/25/2020
Model: IGRF2015

PROJECT DETAILS: Lea County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

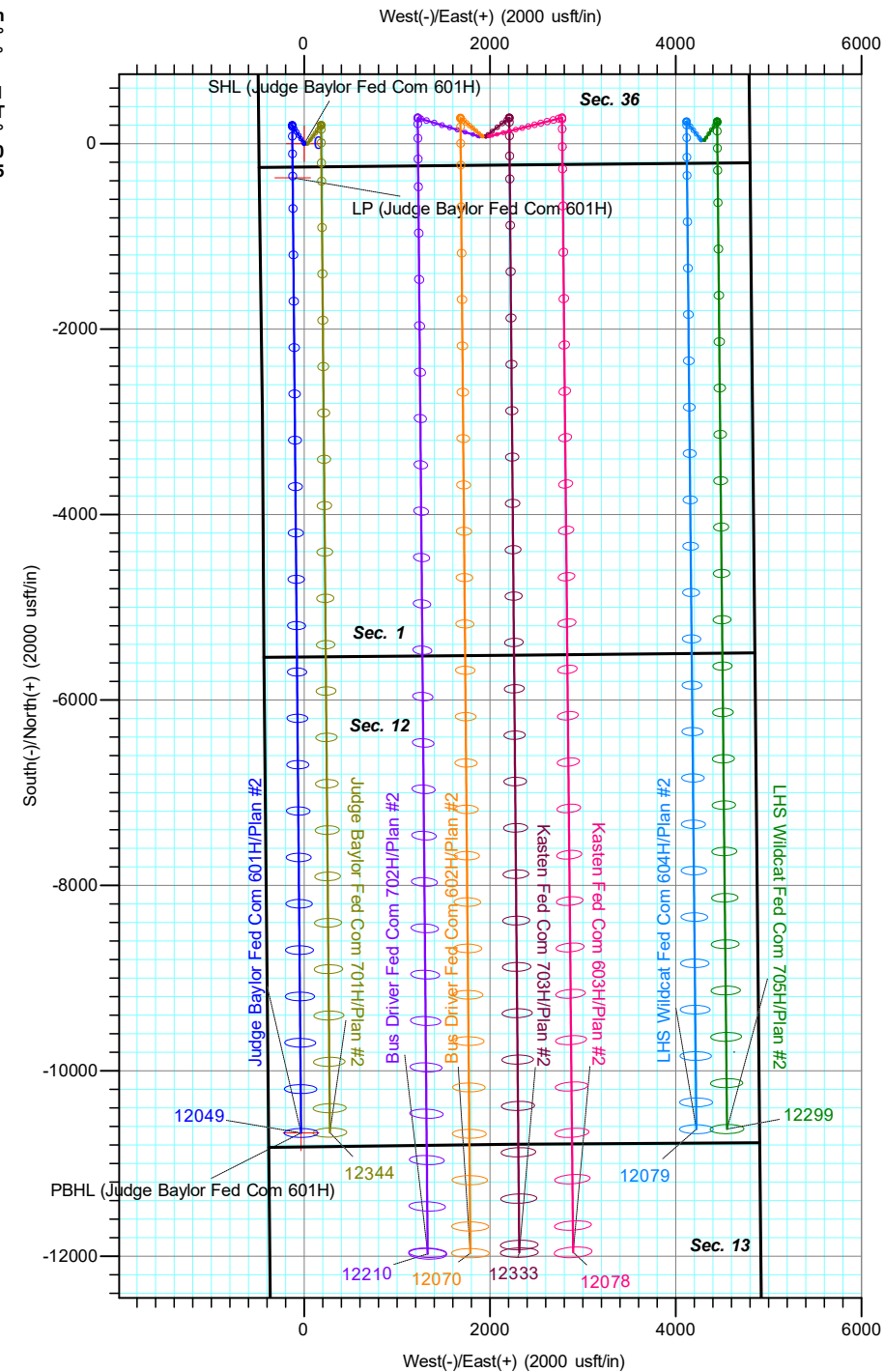
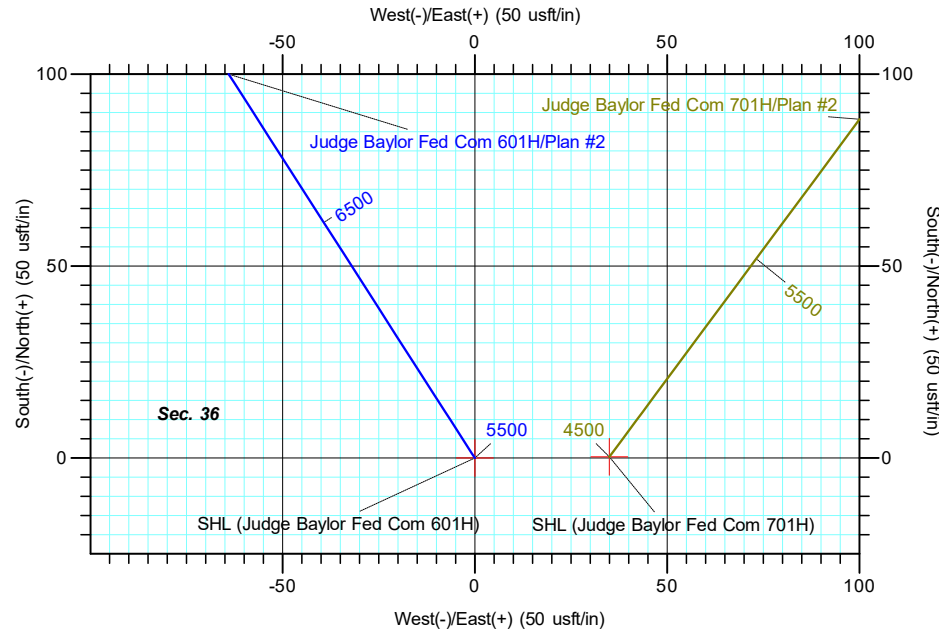


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (Judge Baylor Fed Com 601H)	11937.92	-366.73	-123.02	394019.50	852525.59	32.079256	-103.328620
PBHL (Judge Baylor Fed Com 601H)	12049.46	-10669.67	-32.58	383716.56	852616.03	32.050935	-103.328637
SHL (Judge Baylor Fed Com 601H)	0.00	0.00	0.00	394386.23	852648.61	32.080260	-103.328211

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
5833.01	5.00	327.38	5832.58	12.22	-7.82	1.50	327.38	-12.19	Start 2393.92 hold at 5833.01 MD
8226.93	5.00	327.38	8217.42	187.78	-120.18	0.00	0.00	-187.41	Start Drop -1.50
8559.94	0.00	0.00	8550.00	200.00	-128.00	1.50	180.00	-199.61	Start 2815.00 hold at 8559.94 MD
11374.94	0.00	0.00	11365.00	200.00	-128.00	0.00	0.00	-199.61	Start DLS 10.00 TFO 179.50
12268.73	89.38	179.50	11937.92	-366.73	-123.02	10.00	179.50	367.11	Start 10303.94 hold at 12268.73 MD
22572.67	89.38	179.50	12049.46	-10669.67	-32.58	0.00	0.00	10669.72	TD at 22572.67



TOTAL DIRECTIONAL SERVICES LLC
671 Academy Ct, Windsor, CO 80550
Phone: (970) 460-9402

Plan: Plan #2 (Judge Baylor Fed Com 601H/OH)
Judge Baylor Fed Com
Created By: Dustin Ault
Date: 23:10, February 25 2020
Approved: _____ Date: _____



Franklin Mountain Energy

Lea County, NM (NAD83)

Judge Baylor Fed Com

Judge Baylor Fed Com 601H

OH

Plan: Plan #2

Standard Planning Report

25 February, 2020



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Judge Baylor Fed Com			
Site Position:		Northing:	394,386.23 usft	Latitude:	32.080260
From:	Map	Easting:	852,648.61 usft	Longitude:	-103.328212
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.53 °

Well	Judge Baylor Fed Com 601H					
Well Position	+N/-S	0.00 usft	Northing:	394,386.23 usft	Latitude:	32.080260
	+E/-W	0.00 usft	Easting:	852,648.61 usft	Longitude:	-103.328212
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,070.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/25/2020	6.54	59.93	47,603.84823561

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.17

Plan Survey Tool Program	Date	2/25/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,572.67 Plan #2 (OH)	OWSG (Rev2) MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (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	0.00	0.00	0.00	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,833.01	5.00	327.38	5,832.58	12.22	-7.82	1.50	1.50	0.00	327.38	
8,226.93	5.00	327.38	8,217.42	187.78	-120.18	0.00	0.00	0.00	0.00	
8,559.94	0.00	0.00	8,550.00	200.00	-128.00	1.50	-1.50	0.00	180.00	
11,374.94	0.00	0.00	11,365.00	200.00	-128.00	0.00	0.00	0.00	0.00	
12,268.73	89.38	179.50	11,937.92	-366.73	-123.02	10.00	10.00	20.08	179.50	
22,572.67	89.38	179.50	12,049.46	-10,669.67	-32.58	0.00	0.00	0.00	0.00	PBHL (Judge Baylor f



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (Judge Baylor Fed Com 601H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
5,600.00	1.50	327.38	5,599.99	1.10	-0.71	-1.10	1.50	1.50	0.00
5,700.00	3.00	327.38	5,699.91	4.41	-2.82	-4.40	1.50	1.50	0.00
5,800.00	4.50	327.38	5,799.69	9.92	-6.35	-9.90	1.50	1.50	0.00
5,833.01	5.00	327.38	5,832.58	12.22	-7.82	-12.19	1.50	1.50	0.00
Start 2393.92 hold at 5833.01 MD									
5,900.00	5.00	327.38	5,899.32	17.13	-10.96	-17.10	0.00	0.00	0.00
6,000.00	5.00	327.38	5,998.94	24.47	-15.66	-24.42	0.00	0.00	0.00
6,100.00	5.00	327.38	6,098.56	31.80	-20.35	-31.74	0.00	0.00	0.00
6,200.00	5.00	327.38	6,198.18	39.13	-25.04	-39.06	0.00	0.00	0.00
6,300.00	5.00	327.38	6,297.80	46.47	-29.74	-46.38	0.00	0.00	0.00
6,400.00	5.00	327.38	6,397.43	53.80	-34.43	-53.69	0.00	0.00	0.00
6,500.00	5.00	327.38	6,497.05	61.13	-39.13	-61.01	0.00	0.00	0.00
6,600.00	5.00	327.38	6,596.67	68.47	-43.82	-68.33	0.00	0.00	0.00
6,700.00	5.00	327.38	6,696.29	75.80	-48.51	-75.65	0.00	0.00	0.00
6,800.00	5.00	327.38	6,795.91	83.13	-53.21	-82.97	0.00	0.00	0.00
6,900.00	5.00	327.38	6,895.53	90.47	-57.90	-90.29	0.00	0.00	0.00
7,000.00	5.00	327.38	6,995.15	97.80	-62.59	-97.61	0.00	0.00	0.00
7,100.00	5.00	327.38	7,094.77	105.14	-67.29	-104.93	0.00	0.00	0.00
7,200.00	5.00	327.38	7,194.39	112.47	-71.98	-112.25	0.00	0.00	0.00
7,300.00	5.00	327.38	7,294.01	119.80	-76.67	-119.57	0.00	0.00	0.00
7,400.00	5.00	327.38	7,393.63	127.14	-81.37	-126.89	0.00	0.00	0.00
7,500.00	5.00	327.38	7,493.25	134.47	-86.06	-134.21	0.00	0.00	0.00
7,600.00	5.00	327.38	7,592.87	141.80	-90.75	-141.53	0.00	0.00	0.00
7,700.00	5.00	327.38	7,692.49	149.14	-95.45	-148.85	0.00	0.00	0.00
7,800.00	5.00	327.38	7,792.11	156.47	-100.14	-156.17	0.00	0.00	0.00
7,900.00	5.00	327.38	7,891.73	163.81	-104.84	-163.48	0.00	0.00	0.00
8,000.00	5.00	327.38	7,991.35	171.14	-109.53	-170.80	0.00	0.00	0.00
8,100.00	5.00	327.38	8,090.97	178.47	-114.22	-178.12	0.00	0.00	0.00
8,200.00	5.00	327.38	8,190.59	185.81	-118.92	-185.44	0.00	0.00	0.00
8,226.93	5.00	327.38	8,217.42	187.78	-120.18	-187.41	0.00	0.00	0.00
Start Drop -1.50									
8,300.00	3.90	327.38	8,290.27	192.55	-123.23	-192.18	1.50	-1.50	0.00
8,400.00	2.40	327.38	8,390.11	197.18	-126.20	-196.79	1.50	-1.50	0.00
8,500.00	0.90	327.38	8,490.07	199.60	-127.75	-199.21	1.50	-1.50	0.00
8,559.94	0.00	0.00	8,550.00	200.00	-128.00	-199.61	1.50	-1.50	0.00
Start 2815.00 hold at 8559.94 MD									
8,600.00	0.00	0.00	8,590.07	200.00	-128.00	-199.61	0.00	0.00	0.00
8,700.00	0.00	0.00	8,690.07	200.00	-128.00	-199.61	0.00	0.00	0.00
8,800.00	0.00	0.00	8,790.07	200.00	-128.00	-199.61	0.00	0.00	0.00
8,900.00	0.00	0.00	8,890.07	200.00	-128.00	-199.61	0.00	0.00	0.00
9,000.00	0.00	0.00	8,990.07	200.00	-128.00	-199.61	0.00	0.00	0.00
9,100.00	0.00	0.00	9,090.07	200.00	-128.00	-199.61	0.00	0.00	0.00
9,200.00	0.00	0.00	9,190.07	200.00	-128.00	-199.61	0.00	0.00	0.00
9,300.00	0.00	0.00	9,290.07	200.00	-128.00	-199.61	0.00	0.00	0.00
9,400.00	0.00	0.00	9,390.07	200.00	-128.00	-199.61	0.00	0.00	0.00
9,500.00	0.00	0.00	9,490.07	200.00	-128.00	-199.61	0.00	0.00	0.00
9,600.00	0.00	0.00	9,590.07	200.00	-128.00	-199.61	0.00	0.00	0.00
9,700.00	0.00	0.00	9,690.07	200.00	-128.00	-199.61	0.00	0.00	0.00
9,800.00	0.00	0.00	9,790.07	200.00	-128.00	-199.61	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.00	0.00	0.00	9,890.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,000.00	0.00	0.00	9,990.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,100.00	0.00	0.00	10,090.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,200.00	0.00	0.00	10,190.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,300.00	0.00	0.00	10,290.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,400.00	0.00	0.00	10,390.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,500.00	0.00	0.00	10,490.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,600.00	0.00	0.00	10,590.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,700.00	0.00	0.00	10,690.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,800.00	0.00	0.00	10,790.07	200.00	-128.00	-199.61	0.00	0.00	0.00
10,900.00	0.00	0.00	10,890.07	200.00	-128.00	-199.61	0.00	0.00	0.00
11,000.00	0.00	0.00	10,990.07	200.00	-128.00	-199.61	0.00	0.00	0.00
11,100.00	0.00	0.00	11,090.07	200.00	-128.00	-199.61	0.00	0.00	0.00
11,200.00	0.00	0.00	11,190.07	200.00	-128.00	-199.61	0.00	0.00	0.00
11,300.00	0.00	0.00	11,290.07	200.00	-128.00	-199.61	0.00	0.00	0.00
11,374.94	0.00	0.00	11,365.00	200.00	-128.00	-199.61	0.00	0.00	0.00
Start DLS 10.00 TFO 179.50									
11,400.00	2.51	179.50	11,390.06	199.45	-128.00	-199.06	10.00	10.00	0.00
11,450.00	7.51	179.50	11,439.85	195.09	-127.96	-194.70	10.00	10.00	0.00
11,500.00	12.51	179.50	11,489.07	186.41	-127.88	-186.01	10.00	10.00	0.00
11,550.00	17.51	179.50	11,537.35	173.46	-127.77	-173.07	10.00	10.00	0.00
11,600.00	22.51	179.50	11,584.32	156.36	-127.62	-155.97	10.00	10.00	0.00
11,650.00	27.51	179.50	11,629.62	135.23	-127.43	-134.84	10.00	10.00	0.00
11,700.00	32.51	179.50	11,672.90	110.24	-127.21	-109.85	10.00	10.00	0.00
11,750.00	37.51	179.50	11,713.85	81.57	-126.96	-81.18	10.00	10.00	0.00
11,800.00	42.51	179.50	11,752.13	49.43	-126.68	-49.05	10.00	10.00	0.00
11,850.00	47.51	179.50	11,787.47	14.09	-126.37	-13.70	10.00	10.00	0.00
11,900.00	52.51	179.50	11,819.60	-24.21	-126.03	24.59	10.00	10.00	0.00
11,950.00	57.51	179.50	11,848.26	-65.15	-125.67	65.54	10.00	10.00	0.00
12,000.00	62.51	179.50	11,873.25	-108.44	-125.29	108.82	10.00	10.00	0.00
12,050.00	67.51	179.50	11,894.37	-153.74	-124.89	154.12	10.00	10.00	0.00
12,100.00	72.51	179.50	11,911.46	-200.71	-124.48	201.09	10.00	10.00	0.00
12,150.00	77.51	179.50	11,924.39	-248.99	-124.06	249.37	10.00	10.00	0.00
12,200.00	82.51	179.50	11,933.06	-298.22	-123.63	298.59	10.00	10.00	0.00
12,250.00	87.51	179.50	11,937.42	-348.01	-123.19	348.38	10.00	10.00	0.00
12,268.73	89.38	179.50	11,937.92	-366.73	-123.02	367.10	10.00	10.00	0.00
Start 10303.94 hold at 12268.73 MD - LP (Judge Baylor Fed Com 601H)									
12,300.00	89.38	179.50	11,938.26	-398.00	-122.75	398.37	0.00	0.00	0.00
12,400.00	89.38	179.50	11,939.35	-497.99	-121.87	498.36	0.00	0.00	0.00
12,500.00	89.38	179.50	11,940.43	-597.98	-120.99	598.35	0.00	0.00	0.00
12,600.00	89.38	179.50	11,941.51	-697.97	-120.12	698.33	0.00	0.00	0.00
12,700.00	89.38	179.50	11,942.59	-797.96	-119.24	798.32	0.00	0.00	0.00
12,800.00	89.38	179.50	11,943.68	-897.95	-118.36	898.31	0.00	0.00	0.00
12,900.00	89.38	179.50	11,944.76	-997.94	-117.48	998.29	0.00	0.00	0.00
13,000.00	89.38	179.50	11,945.84	-1,097.93	-116.61	1,098.28	0.00	0.00	0.00
13,100.00	89.38	179.50	11,946.92	-1,197.92	-115.73	1,198.27	0.00	0.00	0.00
13,200.00	89.38	179.50	11,948.01	-1,297.91	-114.85	1,298.26	0.00	0.00	0.00
13,300.00	89.38	179.50	11,949.09	-1,397.90	-113.97	1,398.24	0.00	0.00	0.00
13,400.00	89.38	179.50	11,950.17	-1,497.89	-113.09	1,498.23	0.00	0.00	0.00
13,500.00	89.38	179.50	11,951.25	-1,597.88	-112.22	1,598.22	0.00	0.00	0.00
13,600.00	89.38	179.50	11,952.33	-1,697.87	-111.34	1,698.20	0.00	0.00	0.00
13,700.00	89.38	179.50	11,953.42	-1,797.86	-110.46	1,798.19	0.00	0.00	0.00
13,800.00	89.38	179.50	11,954.50	-1,897.85	-109.58	1,898.18	0.00	0.00	0.00
13,900.00	89.38	179.50	11,955.58	-1,997.84	-108.71	1,998.17	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,000.00	89.38	179.50	11,956.66	-2,097.83	-107.83	2,098.15	0.00	0.00	0.00
14,100.00	89.38	179.50	11,957.75	-2,197.82	-106.95	2,198.14	0.00	0.00	0.00
14,200.00	89.38	179.50	11,958.83	-2,297.81	-106.07	2,298.13	0.00	0.00	0.00
14,300.00	89.38	179.50	11,959.91	-2,397.80	-105.20	2,398.11	0.00	0.00	0.00
14,400.00	89.38	179.50	11,960.99	-2,497.79	-104.32	2,498.10	0.00	0.00	0.00
14,500.00	89.38	179.50	11,962.08	-2,597.78	-103.44	2,598.09	0.00	0.00	0.00
14,600.00	89.38	179.50	11,963.16	-2,697.77	-102.56	2,698.08	0.00	0.00	0.00
14,700.00	89.38	179.50	11,964.24	-2,797.76	-101.68	2,798.06	0.00	0.00	0.00
14,800.00	89.38	179.50	11,965.32	-2,897.76	-100.81	2,898.05	0.00	0.00	0.00
14,900.00	89.38	179.50	11,966.41	-2,997.75	-99.93	2,998.04	0.00	0.00	0.00
15,000.00	89.38	179.50	11,967.49	-3,097.74	-99.05	3,098.02	0.00	0.00	0.00
15,100.00	89.38	179.50	11,968.57	-3,197.73	-98.17	3,198.01	0.00	0.00	0.00
15,200.00	89.38	179.50	11,969.65	-3,297.72	-97.30	3,298.00	0.00	0.00	0.00
15,300.00	89.38	179.50	11,970.74	-3,397.71	-96.42	3,397.99	0.00	0.00	0.00
15,400.00	89.38	179.50	11,971.82	-3,497.70	-95.54	3,497.97	0.00	0.00	0.00
15,500.00	89.38	179.50	11,972.90	-3,597.69	-94.66	3,597.96	0.00	0.00	0.00
15,600.00	89.38	179.50	11,973.98	-3,697.68	-93.78	3,697.95	0.00	0.00	0.00
15,700.00	89.38	179.50	11,975.07	-3,797.67	-92.91	3,797.93	0.00	0.00	0.00
15,800.00	89.38	179.50	11,976.15	-3,897.66	-92.03	3,897.92	0.00	0.00	0.00
15,900.00	89.38	179.50	11,977.23	-3,997.65	-91.15	3,997.91	0.00	0.00	0.00
16,000.00	89.38	179.50	11,978.31	-4,097.64	-90.27	4,097.90	0.00	0.00	0.00
16,100.00	89.38	179.50	11,979.40	-4,197.63	-89.40	4,197.88	0.00	0.00	0.00
16,200.00	89.38	179.50	11,980.48	-4,297.62	-88.52	4,297.87	0.00	0.00	0.00
16,300.00	89.38	179.50	11,981.56	-4,397.61	-87.64	4,397.86	0.00	0.00	0.00
16,400.00	89.38	179.50	11,982.64	-4,497.60	-86.76	4,497.84	0.00	0.00	0.00
16,500.00	89.38	179.50	11,983.73	-4,597.59	-85.88	4,597.83	0.00	0.00	0.00
16,600.00	89.38	179.50	11,984.81	-4,697.58	-85.01	4,697.82	0.00	0.00	0.00
16,700.00	89.38	179.50	11,985.89	-4,797.57	-84.13	4,797.81	0.00	0.00	0.00
16,800.00	89.38	179.50	11,986.97	-4,897.56	-83.25	4,897.79	0.00	0.00	0.00
16,900.00	89.38	179.50	11,988.06	-4,997.55	-82.37	4,997.78	0.00	0.00	0.00
17,000.00	89.38	179.50	11,989.14	-5,097.54	-81.50	5,097.77	0.00	0.00	0.00
17,100.00	89.38	179.50	11,990.22	-5,197.53	-80.62	5,197.75	0.00	0.00	0.00
17,200.00	89.38	179.50	11,991.30	-5,297.52	-79.74	5,297.74	0.00	0.00	0.00
17,300.00	89.38	179.50	11,992.39	-5,397.51	-78.86	5,397.73	0.00	0.00	0.00
17,400.00	89.38	179.50	11,993.47	-5,497.50	-77.98	5,497.72	0.00	0.00	0.00
17,500.00	89.38	179.50	11,994.55	-5,597.49	-77.11	5,597.70	0.00	0.00	0.00
17,600.00	89.38	179.50	11,995.63	-5,697.48	-76.23	5,697.69	0.00	0.00	0.00
17,700.00	89.38	179.50	11,996.72	-5,797.47	-75.35	5,797.68	0.00	0.00	0.00
17,800.00	89.38	179.50	11,997.80	-5,897.46	-74.47	5,897.66	0.00	0.00	0.00
17,900.00	89.38	179.50	11,998.88	-5,997.45	-73.60	5,997.65	0.00	0.00	0.00
18,000.00	89.38	179.50	11,999.96	-6,097.44	-72.72	6,097.64	0.00	0.00	0.00
18,100.00	89.38	179.50	12,001.05	-6,197.43	-71.84	6,197.63	0.00	0.00	0.00
18,200.00	89.38	179.50	12,002.13	-6,297.43	-70.96	6,297.61	0.00	0.00	0.00
18,300.00	89.38	179.50	12,003.21	-6,397.42	-70.08	6,397.60	0.00	0.00	0.00
18,400.00	89.38	179.50	12,004.29	-6,497.41	-69.21	6,497.59	0.00	0.00	0.00
18,500.00	89.38	179.50	12,005.38	-6,597.40	-68.33	6,597.57	0.00	0.00	0.00
18,600.00	89.38	179.50	12,006.46	-6,697.39	-67.45	6,697.56	0.00	0.00	0.00
18,700.00	89.38	179.50	12,007.54	-6,797.38	-66.57	6,797.55	0.00	0.00	0.00
18,800.00	89.38	179.50	12,008.62	-6,897.37	-65.70	6,897.54	0.00	0.00	0.00
18,900.00	89.38	179.50	12,009.71	-6,997.36	-64.82	6,997.52	0.00	0.00	0.00
19,000.00	89.38	179.50	12,010.79	-7,097.35	-63.94	7,097.51	0.00	0.00	0.00
19,100.00	89.38	179.50	12,011.87	-7,197.34	-63.06	7,197.50	0.00	0.00	0.00
19,200.00	89.38	179.50	12,012.95	-7,297.33	-62.18	7,297.48	0.00	0.00	0.00
19,300.00	89.38	179.50	12,014.03	-7,397.32	-61.31	7,397.47	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,400.00	89.38	179.50	12,015.12	-7,497.31	-60.43	7,497.46	0.00	0.00	0.00	
19,500.00	89.38	179.50	12,016.20	-7,597.30	-59.55	7,597.45	0.00	0.00	0.00	
19,600.00	89.38	179.50	12,017.28	-7,697.29	-58.67	7,697.43	0.00	0.00	0.00	
19,700.00	89.38	179.50	12,018.36	-7,797.28	-57.80	7,797.42	0.00	0.00	0.00	
19,800.00	89.38	179.50	12,019.45	-7,897.27	-56.92	7,897.41	0.00	0.00	0.00	
19,900.00	89.38	179.50	12,020.53	-7,997.26	-56.04	7,997.39	0.00	0.00	0.00	
20,000.00	89.38	179.50	12,021.61	-8,097.25	-55.16	8,097.38	0.00	0.00	0.00	
20,100.00	89.38	179.50	12,022.69	-8,197.24	-54.28	8,197.37	0.00	0.00	0.00	
20,200.00	89.38	179.50	12,023.78	-8,297.23	-53.41	8,297.36	0.00	0.00	0.00	
20,300.00	89.38	179.50	12,024.86	-8,397.22	-52.53	8,397.34	0.00	0.00	0.00	
20,400.00	89.38	179.50	12,025.94	-8,497.21	-51.65	8,497.33	0.00	0.00	0.00	
20,500.00	89.38	179.50	12,027.02	-8,597.20	-50.77	8,597.32	0.00	0.00	0.00	
20,600.00	89.38	179.50	12,028.11	-8,697.19	-49.90	8,697.30	0.00	0.00	0.00	
20,700.00	89.38	179.50	12,029.19	-8,797.18	-49.02	8,797.29	0.00	0.00	0.00	
20,800.00	89.38	179.50	12,030.27	-8,897.17	-48.14	8,897.28	0.00	0.00	0.00	
20,900.00	89.38	179.50	12,031.35	-8,997.16	-47.26	8,997.27	0.00	0.00	0.00	
21,000.00	89.38	179.50	12,032.44	-9,097.15	-46.38	9,097.25	0.00	0.00	0.00	
21,100.00	89.38	179.50	12,033.52	-9,197.14	-45.51	9,197.24	0.00	0.00	0.00	
21,200.00	89.38	179.50	12,034.60	-9,297.13	-44.63	9,297.23	0.00	0.00	0.00	
21,300.00	89.38	179.50	12,035.68	-9,397.12	-43.75	9,397.21	0.00	0.00	0.00	
21,400.00	89.38	179.50	12,036.77	-9,497.11	-42.87	9,497.20	0.00	0.00	0.00	
21,500.00	89.38	179.50	12,037.85	-9,597.10	-42.00	9,597.19	0.00	0.00	0.00	
21,600.00	89.38	179.50	12,038.93	-9,697.10	-41.12	9,697.18	0.00	0.00	0.00	
21,700.00	89.38	179.50	12,040.01	-9,797.09	-40.24	9,797.16	0.00	0.00	0.00	
21,800.00	89.38	179.50	12,041.10	-9,897.08	-39.36	9,897.15	0.00	0.00	0.00	
21,900.00	89.38	179.50	12,042.18	-9,997.07	-38.48	9,997.14	0.00	0.00	0.00	
22,000.00	89.38	179.50	12,043.26	-10,097.06	-37.61	10,097.12	0.00	0.00	0.00	
22,100.00	89.38	179.50	12,044.34	-10,197.05	-36.73	10,197.11	0.00	0.00	0.00	
22,200.00	89.38	179.50	12,045.43	-10,297.04	-35.85	10,297.10	0.00	0.00	0.00	
22,300.00	89.38	179.50	12,046.51	-10,397.03	-34.97	10,397.09	0.00	0.00	0.00	
22,400.00	89.38	179.50	12,047.59	-10,497.02	-34.10	10,497.07	0.00	0.00	0.00	
22,500.00	89.38	179.50	12,048.67	-10,597.01	-33.22	10,597.06	0.00	0.00	0.00	
22,572.67	89.38	179.50	12,049.46	-10,669.67	-32.58	10,669.72	0.00	0.00	0.00	
TD at 22572.67 - PBHL (Judge Baylor Fed Com 601H)										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (Judge Baylor Fed Com 601H) - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	394,386.23	852,648.61	32.080260	-103.328212
LP (Judge Baylor Fed Com 601H) - plan misses target center by 0.01usft at 12268.73usft MD (11937.92 TVD, -366.73 N, -123.02 E) - Point	0.00	0.00	11,937.92	-366.73	-123.02	394,019.50	852,525.59	32.079256	-103.328620
PBHL (Judge Baylor Fed Com 601H) - plan hits target center - Point	0.00	0.01	12,049.46	-10,669.67	-32.58	383,716.56	852,616.03	32.050935	-103.328637



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,500.00	5,500.00	0.00	0.00	Start Build 1.50
5,833.01	5,832.58	12.22	-7.82	Start 2393.92 hold at 5833.01 MD
8,226.93	8,217.42	187.78	-120.18	Start Drop -1.50
8,559.94	8,550.00	200.00	-128.00	Start 2815.00 hold at 8559.94 MD
11,374.94	11,365.00	200.00	-128.00	Start DLS 10.00 TFO 179.50
12,268.73	11,937.92	-366.73	-123.02	Start 10303.94 hold at 12268.73 MD
22,572.67	12,049.46	-10,669.67	-32.58	TD at 22572.67



Franklin Mountain Energy

Lea County, NM (NAD83)

Judge Baylor Fed Com

Judge Baylor Fed Com 601H

OH

Plan #2

Anticollision Report

25 February, 2020



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2			
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria			
Interpolation Method:	Stations	Error Model:	ISCWSA	
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D	
Results Limited by:	Maximum ellipse separation of 1,000.00 usft		Error Surface:	Combined Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied	

Survey Tool Program		Date	2/25/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	22,572.67	Plan #2 (OH)	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						
Bus Driver/Kasten Fed Com						
Bus Driver Fed Com 602H - OH - Plan #2	8,158.00	8,227.46	1,808.90	1,767.66	43.858	CC
Bus Driver Fed Com 602H - OH - Plan #2	22,572.67	22,575.57	1,811.11	1,553.45	7.029	ES, SF
Bus Driver Fed Com 702H - OH - Plan #2	11,374.94	11,409.90	1,353.13	1,295.85	23.624	CC
Bus Driver Fed Com 702H - OH - Plan #2	22,572.67	22,794.03	1,358.80	1,102.10	5.293	ES, SF
Kasten Fed Com 603H - OH - Plan #2	4,500.00	4,486.10	1,992.40	1,969.93	88.665	CC, ES
Kasten Fed Com 603H - OH - Plan #2	22,572.67	22,573.10	2,916.11	2,658.39	11.315	SF
Kasten Fed Com 703H - OH - Plan #2	5,500.00	5,486.50	1,957.41	1,929.87	71.071	CC, ES
Kasten Fed Com 703H - OH - Plan #2	22,572.67	22,867.97	2,352.61	2,096.32	9.179	SF
Judge Baylor Fed Com						
Judge Baylor Fed Com 701H - OH - Plan #2	4,600.00	4,599.70	34.99	11.98	1.521	CC, ES, SF
LHS Wildcat Fed Com						
LHS Wildcat Fed Com 604H - OH - Plan #2	7,889.50	8,049.28	4,232.76	4,192.66	105.538	CC
LHS Wildcat Fed Com 604H - OH - Plan #2	22,572.67	22,488.23	4,256.02	3,999.08	16.564	ES, SF
LHS Wildcat Fed Com 705H - OH - Plan #2	4,502.51	4,464.41	4,309.86	4,287.43	192.210	CC
LHS Wildcat Fed Com 705H - OH - Plan #2	4,600.00	4,537.60	4,310.03	4,287.18	188.583	ES
LHS Wildcat Fed Com 705H - OH - Plan #2	22,572.67	22,687.57	4,592.64	4,335.93	17.891	SF

Offset Design		Bus Driver/Kasten Fed Com - Bus Driver Fed Com 602H - OH - Plan #2										Offset Site Error:		0.00 usft
Survey Program:		0-OWSG (Rev2) MWD										Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	87.62	79.85	1,920.78	1,922.48					
100.00	100.00	87.50	87.50	0.14	0.12	87.62	79.85	1,920.78	1,922.44	1,922.25	0.19	N/A		
200.00	200.00	187.50	187.50	0.50	0.46	87.62	79.85	1,920.78	1,922.44	1,921.76	0.68	2,842.748		
300.00	300.00	287.50	287.50	0.86	0.81	87.62	79.85	1,920.78	1,922.44	1,921.26	1.18	1,625.194		
400.00	400.00	387.50	387.50	1.22	1.17	87.62	79.85	1,920.78	1,922.44	1,920.75	1.69	1,137.722		
500.00	500.00	487.50	487.50	1.58	1.53	87.62	79.85	1,920.78	1,922.44	1,920.24	2.20	875.183		
600.00	600.00	587.50	587.50	1.93	1.89	87.62	79.85	1,920.78	1,922.44	1,919.74	2.70	711.086		
700.00	700.00	687.50	687.50	2.29	2.25	87.62	79.85	1,920.78	1,922.44	1,919.23	3.21	598.807		
800.00	800.00	787.50	787.50	2.65	2.61	87.62	79.85	1,920.78	1,922.44	1,918.72	3.72	517.148		
900.00	900.00	887.50	887.50	3.01	2.96	87.62	79.85	1,920.78	1,922.44	1,918.21	4.22	455.088		
1,000.00	1,000.00	987.50	987.50	3.37	3.32	87.62	79.85	1,920.78	1,922.44	1,917.71	4.73	406.327		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kasten Fed Com - Bus Driver Fed Com 602H - OH - Plan #2		Offset Site Error:		0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft			
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor						
1,100.00	1,100.00	1,087.50	1,087.50	3.73	3.68	87.62	79.85	1,920.78	1,922.44	1,917.20	5.24	367.003						
1,200.00	1,200.00	1,187.50	1,187.50	4.08	4.04	87.62	79.85	1,920.78	1,922.44	1,916.69	5.75	334.619						
1,300.00	1,300.00	1,287.50	1,287.50	4.44	4.40	87.62	79.85	1,920.78	1,922.44	1,916.19	6.25	307.487						
1,400.00	1,400.00	1,387.50	1,387.50	4.80	4.76	87.62	79.85	1,920.78	1,922.44	1,915.68	6.76	284.424						
1,500.00	1,500.00	1,487.50	1,487.50	5.16	5.12	87.62	79.85	1,920.78	1,922.44	1,915.17	7.27	264.580						
1,600.00	1,600.00	1,587.50	1,587.50	5.52	5.47	87.62	79.85	1,920.78	1,922.44	1,914.67	7.77	247.324						
1,700.00	1,700.00	1,687.50	1,687.50	5.88	5.83	87.62	79.85	1,920.78	1,922.44	1,914.16	8.28	232.181						
1,800.00	1,800.00	1,787.50	1,787.50	6.24	6.19	87.62	79.85	1,920.78	1,922.44	1,913.65	8.79	218.786						
1,900.00	1,900.00	1,887.50	1,887.50	6.59	6.55	87.62	79.85	1,920.78	1,922.44	1,913.15	9.29	206.852						
2,000.00	2,000.00	1,987.50	1,987.50	6.95	6.91	87.62	79.85	1,920.78	1,922.44	1,912.64	9.80	196.152						
2,100.00	2,100.00	2,087.50	2,087.50	7.31	7.27	87.62	79.85	1,920.78	1,922.44	1,912.13	10.31	186.505						
2,200.00	2,200.00	2,187.50	2,187.50	7.67	7.62	87.62	79.85	1,920.78	1,922.44	1,911.62	10.81	177.762						
2,300.00	2,300.00	2,287.50	2,287.50	8.03	7.98	87.62	79.85	1,920.78	1,922.44	1,911.12	11.32	169.802						
2,400.00	2,400.00	2,387.50	2,387.50	8.39	8.34	87.62	79.85	1,920.78	1,922.44	1,910.61	11.83	162.525						
2,500.00	2,500.00	2,487.50	2,487.50	8.74	8.70	87.62	79.85	1,920.78	1,922.44	1,910.10	12.34	155.846						
2,600.00	2,600.00	2,587.50	2,587.50	9.10	9.06	87.62	79.85	1,920.78	1,922.44	1,909.60	12.84	149.694						
2,700.00	2,700.00	2,687.50	2,687.50	9.46	9.42	87.62	79.85	1,920.78	1,922.44	1,909.09	13.35	144.009						
2,800.00	2,800.00	2,787.50	2,787.50	9.82	9.78	87.62	79.85	1,920.78	1,922.44	1,908.58	13.86	138.740						
2,900.00	2,900.00	2,887.50	2,887.50	10.18	10.13	87.62	79.85	1,920.78	1,922.44	1,908.08	14.36	133.843						
3,000.00	3,000.00	2,987.50	2,987.50	10.54	10.49	87.62	79.85	1,920.78	1,922.44	1,907.57	14.87	129.280						
3,100.00	3,100.00	3,087.50	3,087.50	10.90	10.85	87.62	79.85	1,920.78	1,922.44	1,907.06	15.38	125.018						
3,200.00	3,200.00	3,187.50	3,187.50	11.25	11.21	87.62	79.85	1,920.78	1,922.44	1,906.55	15.88	121.028						
3,300.00	3,300.00	3,287.50	3,287.50	11.61	11.57	87.62	79.85	1,920.78	1,922.44	1,906.05	16.39	117.285						
3,400.00	3,400.00	3,387.50	3,387.50	11.97	11.93	87.62	79.85	1,920.78	1,922.44	1,905.54	16.90	113.766						
3,500.00	3,500.00	3,487.50	3,487.50	12.33	12.28	87.62	79.85	1,920.78	1,922.44	1,905.03	17.41	110.453						
3,600.00	3,600.00	3,587.50	3,587.50	12.69	12.64	87.62	79.85	1,920.78	1,922.44	1,904.53	17.91	107.327						
3,700.00	3,700.00	3,687.50	3,687.50	13.05	13.00	87.62	79.85	1,920.78	1,922.44	1,904.02	18.42	104.373						
3,800.00	3,800.00	3,787.50	3,787.50	13.41	13.36	87.62	79.85	1,920.78	1,922.44	1,903.51	18.93	101.577						
3,900.00	3,900.00	3,887.50	3,887.50	13.76	13.72	87.62	79.85	1,920.78	1,922.44	1,903.01	19.43	98.927						
4,000.00	4,000.00	3,987.50	3,987.50	14.12	14.08	87.62	79.85	1,920.78	1,922.44	1,902.50	19.94	96.412						
4,100.00	4,100.00	4,087.50	4,087.50	14.48	14.44	87.62	79.85	1,920.78	1,922.44	1,901.99	20.45	94.022						
4,200.00	4,200.00	4,187.50	4,187.50	14.84	14.79	87.62	79.85	1,920.78	1,922.44	1,901.49	20.95	91.747						
4,300.00	4,300.00	4,287.50	4,287.50	15.20	15.15	87.62	79.85	1,920.78	1,922.44	1,900.98	21.46	89.579						
4,400.00	4,400.00	4,387.50	4,387.50	15.56	15.51	87.62	79.85	1,920.78	1,922.44	1,900.47	21.97	87.512						
4,500.00	4,500.00	4,487.50	4,487.50	15.91	15.87	87.62	79.85	1,920.78	1,922.44	1,899.96	22.47	85.538						
4,600.00	4,600.00	4,609.66	4,609.66	16.27	16.31	87.61	80.15	1,920.42	1,922.22	1,899.19	23.03	83.449						
4,700.00	4,700.00	4,768.55	4,768.43	16.63	16.87	87.49	83.87	1,915.99	1,919.54	1,895.87	23.67	81.104						
4,800.00	4,800.00	4,910.59	4,910.06	16.99	17.37	87.28	90.73	1,907.84	1,913.92	1,889.67	24.25	78.921						
4,900.00	4,900.00	5,010.21	5,009.30	17.35	17.72	87.10	96.31	1,901.19	1,907.53	1,882.77	24.75	77.065						
5,000.00	5,000.00	5,109.83	5,108.54	17.71	18.08	86.92	101.89	1,894.55	1,901.15	1,875.90	25.25	75.281						
5,100.00	5,100.00	5,209.45	5,207.79	18.07	18.43	86.74	107.47	1,887.91	1,894.79	1,869.04	25.76	73.566						
5,200.00	5,200.00	5,309.07	5,307.03	18.42	18.79	86.56	113.05	1,881.27	1,888.45	1,862.19	26.26	71.916						
5,300.00	5,300.00	5,408.69	5,406.27	18.78	19.15	86.38	118.63	1,874.63	1,882.13	1,855.37	26.76	70.328						
5,400.00	5,400.00	5,508.31	5,505.51	19.14	19.51	86.20	124.21	1,867.99	1,875.83	1,848.57	27.27	68.797						
5,500.00	5,500.00	5,607.93	5,604.75	19.50	19.87	86.01	129.79	1,861.35	1,869.55	1,841.78	27.77	67.322						
5,600.00	5,599.99	5,707.65	5,704.09	19.86	20.23	118.55	135.38	1,854.70	1,863.91	1,835.64	28.27	65.923						
5,700.00	5,699.91	5,807.51	5,803.58	20.21	20.59	118.53	140.97	1,848.05	1,859.53	1,830.75	28.78	64.619						
5,800.00	5,799.69	5,907.46	5,903.15	20.57	20.95	118.56	146.57	1,841.38	1,856.40	1,827.12	29.28	63.402						
5,833.01	5,832.58	5,940.46	5,936.02	20.69	21.07	118.59	148.42	1,839.18	1,855.64	1,826.20	29.45	63.018						
5,900.00	5,899.32	6,007.43	6,002.73	20.92	21.31	118.62	152.17	1,834.72	1,854.24	1,824.46	29.78	62.257						
6,000.00	5,998.94	6,107.39	6,102.32	21.28	21.68	118.67	157.77	1,828.06	1,852.15	1,821.87	30.29	61.152						
6,100.00	6,098.56	6,207.36	6,201.91	21.64	22.04	118.72	163.37	1,821.39	1,850.07	1,819.27	30.79	60.081						

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
6,200.00	6,198.18	6,307.32	6,301.49	22.00	22.41	118.77	168.97	1,814.73	1,847.98	1,816.68	31.30	59.043		
6,300.00	6,297.80	6,407.29	6,401.08	22.35	22.78	118.82	174.57	1,808.06	1,845.90	1,814.09	31.81	58.037		
6,400.00	6,397.43	6,507.25	6,500.66	22.71	23.14	118.86	180.17	1,801.40	1,843.81	1,811.50	32.31	57.061		
6,500.00	6,497.05	6,607.22	6,600.25	23.07	23.51	118.91	185.77	1,794.74	1,841.73	1,808.91	32.82	56.114		
6,600.00	6,596.67	6,707.18	6,699.83	23.44	23.88	118.96	191.37	1,788.07	1,839.65	1,806.32	33.33	55.195		
6,700.00	6,696.29	6,807.15	6,799.42	23.80	24.24	119.01	196.97	1,781.41	1,837.57	1,803.73	33.84	54.303		
6,800.00	6,795.91	6,907.12	6,899.01	24.16	24.61	119.06	202.57	1,774.75	1,835.49	1,801.14	34.35	53.436		
6,900.00	6,895.53	7,007.08	6,998.59	24.52	24.98	119.11	208.17	1,768.08	1,833.42	1,798.56	34.86	52.594		
7,000.00	6,995.15	7,107.05	7,098.18	24.89	25.35	119.16	213.77	1,761.42	1,831.34	1,795.97	35.37	51.776		
7,100.00	7,094.77	7,207.01	7,197.76	25.25	25.72	119.22	219.37	1,754.75	1,829.27	1,793.39	35.88	50.980		
7,200.00	7,194.39	7,306.98	7,297.35	25.61	26.09	119.27	224.97	1,748.09	1,827.20	1,790.80	36.39	50.206		
7,300.00	7,294.01	7,406.94	7,396.94	25.98	26.46	119.32	230.57	1,741.43	1,825.13	1,788.22	36.91	49.453		
7,400.00	7,393.63	7,506.91	7,496.52	26.35	26.83	119.37	236.17	1,734.76	1,823.06	1,785.64	37.42	48.719		
7,500.00	7,493.25	7,606.87	7,596.11	26.71	27.20	119.42	241.77	1,728.10	1,820.99	1,783.06	37.93	48.006		
7,600.00	7,592.87	7,706.84	7,695.69	27.08	27.58	119.47	247.37	1,721.44	1,818.92	1,780.48	38.45	47.310		
7,700.00	7,692.49	7,806.81	7,795.28	27.44	27.95	119.52	252.97	1,714.77	1,816.86	1,777.90	38.96	46.633		
7,800.00	7,792.11	7,906.77	7,894.87	27.81	28.32	119.57	258.57	1,708.11	1,814.79	1,775.32	39.48	45.973		
7,900.00	7,891.73	8,006.74	7,994.45	28.18	28.69	119.62	264.17	1,701.44	1,812.73	1,772.74	39.99	45.330		
8,000.00	7,991.35	8,106.70	8,094.04	28.55	29.06	119.67	269.76	1,694.78	1,810.67	1,770.17	40.51	44.702		
8,100.00	8,090.97	8,184.40	8,171.49	28.92	29.35	119.73	273.77	1,690.01	1,809.14	1,768.17	40.98	44.150		
8,158.00	8,148.75	8,227.46	8,214.45	29.13	29.51	119.77	275.56	1,687.88	1,808.90	1,767.66	41.24	43.858 CC		
8,200.00	8,190.59	8,258.62	8,245.56	29.28	29.62	119.81	276.66	1,686.57	1,809.03	1,767.59	41.44	43.658		
8,226.93	8,217.42	8,278.59	8,265.51	29.38	29.70	119.83	277.28	1,685.83	1,809.24	1,767.69	41.56	43.535		
8,300.00	8,290.27	8,332.76	8,319.64	29.65	29.89	119.91	278.63	1,684.23	1,810.00	1,768.11	41.89	43.211		
8,400.00	8,390.11	8,406.88	8,393.74	30.02	30.16	120.01	279.67	1,682.99	1,811.14	1,768.81	42.33	42.788		
8,500.00	8,490.07	8,490.71	8,477.57	30.38	30.45	120.08	279.85	1,682.78	1,812.30	1,769.52	42.79	42.355		
8,559.94	8,550.00	8,550.64	8,537.50	30.59	30.66	87.48	279.85	1,682.78	1,812.54	1,769.45	43.09	42.065		
8,600.00	8,590.07	8,590.70	8,577.57	30.73	30.81	87.48	279.85	1,682.78	1,812.54	1,769.25	43.29	41.869		
8,700.00	8,690.07	8,690.70	8,677.57	31.09	31.16	87.48	279.85	1,682.78	1,812.54	1,768.75	43.79	41.389		
8,800.00	8,790.07	8,790.70	8,777.57	31.44	31.51	87.48	279.85	1,682.78	1,812.54	1,768.24	44.29	40.920		
8,900.00	8,890.07	8,890.70	8,877.57	31.80	31.86	87.48	279.85	1,682.78	1,812.54	1,767.74	44.80	40.461		
9,000.00	8,990.07	8,990.70	8,977.57	32.15	32.22	87.48	279.85	1,682.78	1,812.54	1,767.24	45.30	40.012		
9,100.00	9,090.07	9,090.70	9,077.57	32.51	32.57	87.48	279.85	1,682.78	1,812.54	1,766.74	45.80	39.573		
9,200.00	9,190.07	9,190.70	9,177.57	32.87	32.92	87.48	279.85	1,682.78	1,812.54	1,766.23	46.31	39.143		
9,300.00	9,290.07	9,290.70	9,277.57	33.22	33.28	87.48	279.85	1,682.78	1,812.54	1,765.73	46.81	38.723		
9,400.00	9,390.07	9,390.70	9,377.57	33.58	33.63	87.48	279.85	1,682.78	1,812.54	1,765.23	47.31	38.311		
9,500.00	9,490.07	9,490.70	9,477.57	33.93	33.99	87.48	279.85	1,682.78	1,812.54	1,764.73	47.81	37.908		
9,600.00	9,590.07	9,590.70	9,577.57	34.29	34.34	87.48	279.85	1,682.78	1,812.54	1,764.22	48.32	37.513		
9,700.00	9,690.07	9,690.70	9,677.57	34.65	34.69	87.48	279.85	1,682.78	1,812.54	1,763.72	48.82	37.127		
9,800.00	9,790.07	9,790.70	9,777.57	35.00	35.05	87.48	279.85	1,682.78	1,812.54	1,763.22	49.32	36.748		
9,900.00	9,890.07	9,890.70	9,877.57	35.36	35.40	87.48	279.85	1,682.78	1,812.54	1,762.71	49.83	36.377		
10,000.00	9,990.07	9,990.70	9,977.57	35.71	35.76	87.48	279.85	1,682.78	1,812.54	1,762.21	50.33	36.013		
10,100.00	10,090.07	10,090.70	10,077.57	36.07	36.11	87.48	279.85	1,682.78	1,812.54	1,761.71	50.83	35.656		
10,200.00	10,190.07	10,190.70	10,177.57	36.43	36.46	87.48	279.85	1,682.78	1,812.54	1,761.20	51.34	35.306		
10,300.00	10,290.07	10,290.70	10,277.57	36.78	36.82	87.48	279.85	1,682.78	1,812.54	1,760.70	51.84	34.963		
10,400.00	10,390.07	10,390.70	10,377.57	37.14	37.17	87.48	279.85	1,682.78	1,812.54	1,760.19	52.34	34.627		
10,500.00	10,490.07	10,490.70	10,477.57	37.50	37.53	87.48	279.85	1,682.78	1,812.54	1,759.69	52.85	34.297		
10,600.00	10,590.07	10,590.70	10,577.57	37.85	37.88	87.48	279.85	1,682.78	1,812.54	1,759.19	53.35	33.973		
10,700.00	10,690.07	10,690.70	10,677.57	38.21	38.24	87.48	279.85	1,682.78	1,812.54	1,758.68	53.86	33.655		
10,800.00	10,790.07	10,790.70	10,777.57	38.57	38.59	87.48	279.85	1,682.78	1,812.54	1,758.18	54.36	33.343		
10,900.00	10,890.07	10,890.70	10,877.57	38.92	38.95	87.48	279.85	1,682.78	1,812.54	1,757.68	54.86	33.037		
11,000.00	10,990.07	10,990.70	10,977.57	39.28	39.30	87.48	279.85	1,682.78	1,812.54	1,757.17	55.37	32.736		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
11,100.00	11,090.07	11,090.70	11,077.57	39.64	39.66	87.48	279.85	1,682.78	1,812.54	1,756.67	55.87	32.441		
11,200.00	11,190.07	11,190.70	11,177.57	39.99	40.01	87.48	279.85	1,682.78	1,812.54	1,756.16	56.38	32.151		
11,300.00	11,290.07	11,290.70	11,277.57	40.35	40.37	87.48	279.85	1,682.78	1,812.54	1,755.66	56.88	31.866		
11,374.94	11,365.00	11,372.03	11,358.79	40.62	40.64	87.57	276.83	1,682.81	1,812.45	1,755.18	57.26	31.651		
11,400.00	11,390.06	11,399.87	11,386.40	40.70	40.72	-91.84	273.30	1,682.84	1,812.36	1,754.98	57.38	31.583		
11,450.00	11,439.85	11,454.93	11,440.35	40.86	40.89	-91.67	262.39	1,682.93	1,812.19	1,754.58	57.61	31.458		
11,500.00	11,489.07	11,509.33	11,492.38	41.01	41.04	-91.48	246.59	1,683.07	1,812.02	1,754.20	57.82	31.340		
11,550.00	11,537.35	11,563.04	11,542.05	41.15	41.18	-91.28	226.21	1,683.25	1,811.87	1,753.85	58.02	31.230		
11,600.00	11,584.32	11,616.06	11,589.00	41.28	41.30	-91.07	201.63	1,683.46	1,811.73	1,753.52	58.21	31.127		
11,650.00	11,629.62	11,668.38	11,632.92	41.41	41.42	-90.85	173.21	1,683.71	1,811.61	1,753.23	58.38	31.030		
11,700.00	11,672.90	11,720.01	11,673.53	41.53	41.51	-90.63	141.36	1,683.99	1,811.52	1,752.97	58.55	30.938		
11,750.00	11,713.85	11,770.97	11,710.64	41.63	41.60	-90.40	106.46	1,684.30	1,811.45	1,752.74	58.72	30.852		
11,800.00	11,752.13	11,821.27	11,744.10	41.73	41.67	-90.18	68.92	1,684.63	1,811.41	1,752.54	58.87	30.768		
11,841.62	11,781.77	11,862.66	11,769.06	41.81	41.71	-89.99	35.93	1,684.91	1,811.40	1,752.40	59.00	30.702		
11,850.00	11,787.47	11,870.94	11,773.77	41.82	41.72	-89.95	29.12	1,684.97	1,811.41	1,752.38	59.03	30.688		
11,900.00	11,819.60	11,919.99	11,799.59	41.92	41.79	-89.73	-12.57	1,685.34	1,811.42	1,752.25	59.18	30.610		
11,950.00	11,848.26	11,968.46	11,821.50	42.02	41.90	-89.51	-55.79	1,685.72	1,811.47	1,752.14	59.33	30.533		
12,000.00	11,873.25	12,016.39	11,839.51	42.13	42.02	-89.29	-100.18	1,686.11	1,811.54	1,752.06	59.48	30.456		
12,050.00	11,894.37	12,063.79	11,853.60	42.24	42.13	-89.08	-145.43	1,686.50	1,811.64	1,752.00	59.63	30.380		
12,100.00	11,911.46	12,110.71	11,863.83	42.35	42.25	-88.88	-191.21	1,686.90	1,811.75	1,751.96	59.79	30.304		
12,150.00	11,924.39	12,157.18	11,870.23	42.47	42.37	-88.69	-237.22	1,687.31	1,811.88	1,751.94	59.94	30.227		
12,200.00	11,933.06	12,204.10	11,872.89	42.59	42.49	-88.50	-284.05	1,687.71	1,812.02	1,751.92	60.10	30.148		
12,250.00	11,937.42	12,253.03	11,873.66	42.72	42.63	-88.38	-332.97	1,688.14	1,812.12	1,751.84	60.28	30.060		
12,268.73	11,937.92	12,271.76	11,873.95	42.76	42.69	-88.37	-351.69	1,688.31	1,812.13	1,751.77	60.35	30.026		
12,300.00	11,938.26	12,303.02	11,874.45	42.84	42.78	-88.38	-382.96	1,688.58	1,812.12	1,751.65	60.47	29.966		
12,400.00	11,939.35	12,403.02	11,876.03	43.15	43.13	-88.39	-482.94	1,689.46	1,812.10	1,751.18	60.93	29.743		
12,500.00	11,940.43	12,503.02	11,877.60	43.51	43.54	-88.41	-582.92	1,690.33	1,812.09	1,750.62	61.46	29.482		
12,600.00	11,941.51	12,603.02	11,879.18	43.93	44.00	-88.42	-682.90	1,691.21	1,812.07	1,749.98	62.09	29.186		
12,700.00	11,942.59	12,703.02	11,880.76	44.41	44.53	-88.44	-782.89	1,692.08	1,812.05	1,749.26	62.79	28.859		
12,800.00	11,943.68	12,803.02	11,882.34	44.94	45.10	-88.46	-882.87	1,692.96	1,812.04	1,748.47	63.57	28.504		
12,900.00	11,944.76	12,903.02	11,883.92	45.53	45.73	-88.47	-982.85	1,693.83	1,812.02	1,747.59	64.43	28.125		
13,000.00	11,945.84	13,003.02	11,885.49	46.17	46.40	-88.49	-1,082.83	1,694.71	1,812.01	1,746.65	65.36	27.725		
13,100.00	11,946.92	13,103.01	11,887.07	46.86	47.13	-88.50	-1,182.82	1,695.58	1,811.99	1,745.64	66.35	27.308		
13,200.00	11,948.01	13,203.01	11,888.65	47.59	47.90	-88.52	-1,282.80	1,696.46	1,811.97	1,744.56	67.42	26.876		
13,300.00	11,949.09	13,303.01	11,890.23	48.37	48.71	-88.53	-1,382.78	1,697.33	1,811.96	1,743.41	68.55	26.434		
13,400.00	11,950.17	13,403.01	11,891.80	49.20	49.57	-88.55	-1,482.76	1,698.21	1,811.94	1,742.21	69.73	25.984		
13,500.00	11,951.25	13,503.01	11,893.38	50.06	50.46	-88.57	-1,582.75	1,699.08	1,811.93	1,740.95	70.98	25.528		
13,600.00	11,952.33	13,603.01	11,894.96	50.97	51.40	-88.58	-1,682.73	1,699.96	1,811.91	1,739.64	72.28	25.069		
13,700.00	11,953.42	13,703.01	11,896.54	51.91	52.37	-88.60	-1,782.71	1,700.83	1,811.90	1,738.27	73.63	24.609		
13,800.00	11,954.50	13,803.01	11,898.12	52.88	53.37	-88.61	-1,882.69	1,701.71	1,811.88	1,736.86	75.03	24.150		
13,900.00	11,955.58	13,903.00	11,899.69	53.89	54.40	-88.63	-1,982.68	1,702.58	1,811.87	1,735.40	76.47	23.693		
14,000.00	11,956.66	14,003.00	11,901.27	54.93	55.46	-88.64	-2,082.66	1,703.46	1,811.85	1,733.90	77.96	23.241		
14,100.00	11,957.75	14,103.00	11,902.85	56.00	56.56	-88.66	-2,182.64	1,704.33	1,811.84	1,732.35	79.49	22.794		
14,200.00	11,958.83	14,203.00	11,904.43	57.10	57.67	-88.67	-2,282.62	1,705.21	1,811.83	1,730.77	81.06	22.353		
14,300.00	11,959.91	14,303.00	11,906.01	58.22	58.82	-88.69	-2,382.61	1,706.08	1,811.81	1,729.15	82.66	21.919		
14,400.00	11,960.99	14,403.00	11,907.58	59.37	59.98	-88.71	-2,482.59	1,706.96	1,811.80	1,727.50	84.30	21.493		
14,500.00	11,962.08	14,503.00	11,909.16	60.54	61.17	-88.72	-2,582.57	1,707.83	1,811.78	1,725.82	85.97	21.075		
14,600.00	11,963.16	14,603.00	11,910.74	61.73	62.38	-88.74	-2,682.55	1,708.71	1,811.77	1,724.10	87.67	20.666		
14,700.00	11,964.24	14,702.99	11,912.32	62.94	63.61	-88.75	-2,782.54	1,709.58	1,811.76	1,722.36	89.40	20.266		
14,800.00	11,965.32	14,802.99	11,913.89	64.18	64.86	-88.77	-2,882.52	1,710.46	1,811.74	1,720.59	91.15	19.875		
14,900.00	11,966.41	14,902.99	11,915.47	65.43	66.13	-88.78	-2,982.50	1,711.33	1,811.73	1,718.79	92.94	19.494		
15,000.00	11,967.49	15,002.99	11,917.05	66.70	67.41	-88.80	-3,082.48	1,712.21	1,811.72	1,716.97	94.74	19.122		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
15,100.00	11,968.57	15,102.99	11,918.63	67.99	68.71	-88.82	-3,182.47	1,713.08	1,811.70	1,715.13	96.57	18.760		
15,200.00	11,969.65	15,202.99	11,920.21	69.29	70.03	-88.83	-3,282.45	1,713.96	1,811.69	1,713.27	98.42	18.407		
15,300.00	11,970.74	15,302.99	11,921.78	70.60	71.36	-88.85	-3,382.43	1,714.83	1,811.68	1,711.38	100.29	18.064		
15,400.00	11,971.82	15,402.99	11,923.36	71.93	72.70	-88.86	-3,482.41	1,715.71	1,811.67	1,709.48	102.18	17.729		
15,500.00	11,972.90	15,502.98	11,924.94	73.28	74.05	-88.88	-3,582.40	1,716.58	1,811.65	1,707.56	104.09	17.404		
15,600.00	11,973.98	15,602.98	11,926.52	74.63	75.42	-88.89	-3,682.38	1,717.46	1,811.64	1,705.62	106.02	17.088		
15,700.00	11,975.07	15,702.98	11,928.10	76.00	76.79	-88.91	-3,782.36	1,718.33	1,811.63	1,703.67	107.96	16.781		
15,800.00	11,976.15	15,802.98	11,929.67	77.38	78.18	-88.93	-3,882.34	1,719.21	1,811.62	1,701.70	109.92	16.482		
15,900.00	11,977.23	15,902.98	11,931.25	78.77	79.58	-88.94	-3,982.33	1,720.08	1,811.60	1,699.72	111.89	16.191		
16,000.00	11,978.31	16,002.98	11,932.83	80.17	80.99	-88.96	-4,082.31	1,720.96	1,811.59	1,697.72	113.87	15.909		
16,100.00	11,979.40	16,102.98	11,934.41	81.57	82.40	-88.97	-4,182.29	1,721.83	1,811.58	1,695.71	115.87	15.634		
16,200.00	11,980.48	16,202.98	11,935.99	82.99	83.83	-88.99	-4,282.27	1,722.70	1,811.57	1,693.69	117.88	15.367		
16,300.00	11,981.56	16,302.97	11,937.56	84.42	85.26	-89.00	-4,382.26	1,723.58	1,811.56	1,691.65	119.91	15.108		
16,400.00	11,982.64	16,402.97	11,939.14	85.85	86.70	-89.02	-4,482.24	1,724.45	1,811.55	1,689.61	121.94	14.856		
16,500.00	11,983.73	16,502.97	11,940.72	87.29	88.15	-89.03	-4,582.22	1,725.33	1,811.54	1,687.55	123.99	14.611		
16,600.00	11,984.81	16,602.97	11,942.30	88.74	89.61	-89.05	-4,682.20	1,726.20	1,811.53	1,685.48	126.04	14.372		
16,700.00	11,985.89	16,702.97	11,943.87	90.20	91.07	-89.07	-4,782.19	1,727.08	1,811.51	1,683.41	128.11	14.141		
16,800.00	11,986.97	16,802.97	11,945.45	91.66	92.54	-89.08	-4,882.17	1,727.95	1,811.50	1,681.32	130.18	13.915		
16,900.00	11,988.06	16,902.97	11,947.03	93.13	94.01	-89.10	-4,982.15	1,728.83	1,811.49	1,679.23	132.26	13.696		
17,000.00	11,989.14	17,002.97	11,948.61	94.61	95.50	-89.11	-5,082.13	1,729.70	1,811.48	1,677.13	134.35	13.483		
17,100.00	11,990.22	17,102.96	11,950.19	96.09	96.98	-89.13	-5,182.12	1,730.58	1,811.47	1,675.02	136.45	13.275		
17,200.00	11,991.30	17,202.96	11,951.76	97.57	98.47	-89.14	-5,282.10	1,731.45	1,811.46	1,672.90	138.56	13.073		
17,300.00	11,992.39	17,302.96	11,953.34	99.06	99.97	-89.16	-5,382.08	1,732.33	1,811.45	1,670.78	140.67	12.877		
17,400.00	11,993.47	17,402.96	11,954.92	100.56	101.47	-89.18	-5,482.06	1,733.20	1,811.44	1,668.65	142.80	12.686		
17,500.00	11,994.55	17,502.96	11,956.50	102.06	102.98	-89.19	-5,582.05	1,734.08	1,811.43	1,666.51	144.92	12.499		
17,600.00	11,995.63	17,602.96	11,958.08	103.57	104.49	-89.21	-5,682.03	1,734.95	1,811.42	1,664.37	147.06	12.318		
17,700.00	11,996.72	17,702.96	11,959.65	105.08	106.00	-89.22	-5,782.01	1,735.83	1,811.41	1,662.22	149.20	12.141		
17,800.00	11,997.80	17,802.96	11,961.23	106.59	107.52	-89.24	-5,881.99	1,736.70	1,811.40	1,660.06	151.34	11.969		
17,900.00	11,998.88	17,902.96	11,962.81	108.11	109.04	-89.25	-5,981.98	1,737.58	1,811.39	1,657.90	153.50	11.801		
18,000.00	11,999.96	18,002.95	11,964.39	109.64	110.57	-89.27	-6,081.96	1,738.45	1,811.39	1,655.73	155.65	11.637		
18,100.00	12,001.05	18,102.95	11,965.97	111.16	112.10	-89.29	-6,181.94	1,739.33	1,811.38	1,653.56	157.81	11.478		
18,200.00	12,002.13	18,202.95	11,967.54	112.69	113.63	-89.30	-6,281.92	1,740.20	1,811.37	1,651.39	159.98	11.322		
18,300.00	12,003.21	18,302.95	11,969.12	114.23	115.17	-89.32	-6,381.91	1,741.08	1,811.36	1,649.21	162.15	11.171		
18,400.00	12,004.29	18,402.95	11,970.70	115.76	116.71	-89.33	-6,481.89	1,741.95	1,811.35	1,647.02	164.33	11.023		
18,500.00	12,005.38	18,502.95	11,972.28	117.30	118.25	-89.35	-6,581.87	1,742.83	1,811.34	1,644.83	166.51	10.878		
18,600.00	12,006.46	18,602.95	11,973.85	118.84	119.80	-89.36	-6,681.85	1,743.70	1,811.33	1,642.64	168.70	10.737		
18,700.00	12,007.54	18,702.95	11,975.43	120.39	121.35	-89.38	-6,781.84	1,744.58	1,811.33	1,640.44	170.88	10.600		
18,800.00	12,008.62	18,802.94	11,977.01	121.94	122.90	-89.40	-6,881.82	1,745.45	1,811.32	1,638.24	173.08	10.465		
18,900.00	12,009.71	18,902.94	11,978.59	123.49	124.45	-89.41	-6,981.80	1,746.33	1,811.31	1,636.04	175.27	10.334		
19,000.00	12,010.79	19,002.94	11,980.17	125.04	126.01	-89.43	-7,081.78	1,747.20	1,811.30	1,633.83	177.47	10.206		
19,100.00	12,011.87	19,102.94	11,981.74	126.60	127.57	-89.44	-7,181.77	1,748.08	1,811.29	1,631.62	179.68	10.081		
19,200.00	12,012.95	19,202.94	11,983.32	128.16	129.13	-89.46	-7,281.75	1,748.95	1,811.29	1,629.40	181.88	9.958		
19,300.00	12,014.03	19,302.94	11,984.90	129.72	130.69	-89.47	-7,381.73	1,749.83	1,811.28	1,627.18	184.10	9.839		
19,400.00	12,015.12	19,402.94	11,986.48	131.28	132.26	-89.49	-7,481.71	1,750.70	1,811.27	1,624.96	186.31	9.722		
19,500.00	12,016.20	19,502.94	11,988.06	132.85	133.83	-89.51	-7,581.70	1,751.58	1,811.27	1,622.74	188.52	9.608		
19,600.00	12,017.28	19,602.93	11,989.63	134.42	135.40	-89.52	-7,681.68	1,752.45	1,811.26	1,620.51	190.74	9.496		
19,700.00	12,018.36	19,702.93	11,991.21	135.98	136.97	-89.54	-7,781.66	1,753.33	1,811.25	1,618.29	192.97	9.386		
19,800.00	12,019.45	19,802.93	11,992.79	137.56	138.54	-89.55	-7,881.64	1,754.20	1,811.24	1,616.05	195.19	9.279		
19,900.00	12,020.53	19,902.93	11,994.37	139.13	140.12	-89.57	-7,981.63	1,755.08	1,811.24	1,613.82	197.42	9.175		
20,000.00	12,021.61	20,002.93	11,995.95	140.70	141.69	-89.58	-8,081.61	1,755.95	1,811.23	1,611.58	199.65	9.072		
20,100.00	12,022.69	20,102.93	11,997.52	142.28	143.27	-89.60	-8,181.59	1,756.83	1,811.23	1,609.35	201.88	8.972		
20,200.00	12,023.78	20,202.93	11,999.10	143.86	144.85	-89.61	-8,281.57	1,757.70	1,811.22	1,607.10	204.11	8.874		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
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)	Minimum Separation (usft)	Separation Factor	Warning
20,300.00	12,024.86	20,302.93	12,000.68	145.44	146.43	-89.63	-8,381.56	1,758.58	1,811.21	1,604.86	206.35	8.777	
20,400.00	12,025.94	20,402.92	12,002.26	147.02	148.02	-89.65	-8,481.54	1,759.45	1,811.21	1,602.62	208.59	8.683	
20,500.00	12,027.02	20,502.92	12,003.83	148.61	149.60	-89.66	-8,581.52	1,760.33	1,811.20	1,600.37	210.83	8.591	
20,600.00	12,028.11	20,602.92	12,005.41	150.19	151.19	-89.68	-8,681.50	1,761.20	1,811.20	1,598.12	213.08	8.500	
20,700.00	12,029.19	20,702.92	12,006.99	151.78	152.78	-89.69	-8,781.49	1,762.08	1,811.19	1,595.87	215.32	8.412	
20,800.00	12,030.27	20,802.92	12,008.57	153.36	154.37	-89.71	-8,881.47	1,762.95	1,811.19	1,593.62	217.57	8.325	
20,900.00	12,031.35	20,902.92	12,010.15	154.95	155.96	-89.72	-8,981.45	1,763.83	1,811.18	1,591.36	219.82	8.240	
21,000.00	12,032.44	21,002.92	12,011.72	156.54	157.55	-89.74	-9,081.43	1,764.70	1,811.18	1,589.11	222.07	8.156	
21,100.00	12,033.52	21,102.92	12,013.30	158.14	159.14	-89.76	-9,181.42	1,765.58	1,811.17	1,586.85	224.32	8.074	
21,200.00	12,034.60	21,202.91	12,014.88	159.73	160.74	-89.77	-9,281.40	1,766.45	1,811.17	1,584.59	226.57	7.994	
21,300.00	12,035.68	21,302.91	12,016.46	161.32	162.33	-89.79	-9,381.38	1,767.33	1,811.16	1,582.33	228.83	7.915	
21,400.00	12,036.77	21,402.91	12,018.04	162.92	163.93	-89.80	-9,481.36	1,768.20	1,811.16	1,580.07	231.09	7.838	
21,500.00	12,037.85	21,502.91	12,019.61	164.51	165.53	-89.82	-9,581.35	1,769.08	1,811.15	1,577.81	233.35	7.762	
21,600.00	12,038.93	21,602.91	12,021.19	166.11	167.13	-89.83	-9,681.33	1,769.95	1,811.15	1,575.54	235.61	7.687	
21,700.00	12,040.01	21,702.91	12,022.77	167.71	168.72	-89.85	-9,781.31	1,770.83	1,811.14	1,573.27	237.87	7.614	
21,800.00	12,041.10	21,802.91	12,024.35	169.31	170.33	-89.87	-9,881.29	1,771.70	1,811.14	1,571.01	240.13	7.542	
21,900.00	12,042.18	21,902.91	12,025.92	170.91	171.93	-89.88	-9,981.28	1,772.58	1,811.14	1,568.74	242.40	7.472	
22,000.00	12,043.26	22,002.90	12,027.50	172.51	173.53	-89.90	-10,081.26	1,773.45	1,811.13	1,566.47	244.66	7.403	
22,100.00	12,044.34	22,102.90	12,029.08	174.11	175.13	-89.91	-10,181.24	1,774.33	1,811.13	1,564.20	246.93	7.335	
22,200.00	12,045.43	22,202.90	12,030.66	175.72	176.74	-89.93	-10,281.22	1,775.20	1,811.13	1,561.93	249.20	7.268	
22,300.00	12,046.51	22,302.90	12,032.24	177.32	178.34	-89.94	-10,381.21	1,776.08	1,811.12	1,559.65	251.47	7.202	
22,400.00	12,047.59	22,402.90	12,033.81	178.93	179.95	-89.96	-10,481.19	1,776.95	1,811.12	1,557.38	253.74	7.138	
22,500.00	12,048.67	22,502.90	12,035.39	180.53	181.56	-89.98	-10,581.17	1,777.83	1,811.12	1,555.10	256.01	7.074	
22,572.67	12,049.46	22,575.57	12,036.54	181.70	182.73	-89.99	-10,653.83	1,778.46	1,811.11	1,553.45	257.67	7.029 ES, SF	



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		Bus Driver/Kasten Fed Com - Bus Driver Fed Com 702H - OH - Plan #2											Offset Site Error: 0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	87.59	79.52	1,885.79	1,887.51					
100.00	100.00	87.70	87.70	0.14	0.12	87.59	79.52	1,885.79	1,887.47	1,887.28	0.19	N/A		
200.00	200.00	187.70	187.70	0.50	0.46	87.59	79.52	1,885.79	1,887.47	1,886.79	0.68	2,789.041		
300.00	300.00	287.70	287.70	0.86	0.81	87.59	79.52	1,885.79	1,887.47	1,886.28	1.18	1,594.964		
400.00	400.00	387.70	387.70	1.22	1.17	87.59	79.52	1,885.79	1,887.47	1,885.78	1.69	1,116.696		
500.00	500.00	487.70	487.70	1.58	1.53	87.59	79.52	1,885.79	1,887.47	1,885.27	2.20	859.067		
600.00	600.00	587.70	587.70	1.93	1.89	87.59	79.52	1,885.79	1,887.47	1,884.76	2.70	698.021		
700.00	700.00	687.70	687.70	2.29	2.25	87.59	79.52	1,885.79	1,887.47	1,884.25	3.21	587.821		
800.00	800.00	787.70	787.70	2.65	2.61	87.59	79.52	1,885.79	1,887.47	1,883.75	3.72	507.672		
900.00	900.00	887.70	887.70	3.01	2.97	87.59	79.52	1,885.79	1,887.47	1,883.24	4.22	446.756		
1,000.00	1,000.00	987.70	987.70	3.37	3.32	87.59	79.52	1,885.79	1,887.47	1,882.73	4.73	398.892		
1,100.00	1,100.00	1,087.70	1,087.70	3.73	3.68	87.59	79.52	1,885.79	1,887.47	1,882.23	5.24	360.292		
1,200.00	1,200.00	1,187.70	1,187.70	4.08	4.04	87.59	79.52	1,885.79	1,887.47	1,881.72	5.75	328.503		
1,300.00	1,300.00	1,287.70	1,287.70	4.44	4.40	87.59	79.52	1,885.79	1,887.47	1,881.21	6.25	301.868		
1,400.00	1,400.00	1,387.70	1,387.70	4.80	4.76	87.59	79.52	1,885.79	1,887.47	1,880.71	6.76	279.229		
1,500.00	1,500.00	1,487.70	1,487.70	5.16	5.12	87.59	79.52	1,885.79	1,887.47	1,880.20	7.27	259.749		
1,600.00	1,600.00	1,587.70	1,587.70	5.52	5.47	87.59	79.52	1,885.79	1,887.47	1,879.69	7.77	242.809		
1,700.00	1,700.00	1,687.70	1,687.70	5.88	5.83	87.59	79.52	1,885.79	1,887.47	1,879.19	8.28	227.943		
1,800.00	1,800.00	1,787.70	1,787.70	6.24	6.19	87.59	79.52	1,885.79	1,887.47	1,878.68	8.79	214.793		
1,900.00	1,900.00	1,887.70	1,887.70	6.59	6.55	87.59	79.52	1,885.79	1,887.47	1,878.17	9.29	203.077		
2,000.00	2,000.00	1,987.70	1,987.70	6.95	6.91	87.59	79.52	1,885.79	1,887.47	1,877.66	9.80	192.574		
2,100.00	2,100.00	2,087.70	2,087.70	7.31	7.27	87.59	79.52	1,885.79	1,887.47	1,877.16	10.31	183.103		
2,200.00	2,200.00	2,187.70	2,187.70	7.67	7.63	87.59	79.52	1,885.79	1,887.47	1,876.65	10.82	174.520		
2,300.00	2,300.00	2,287.70	2,287.70	8.03	7.98	87.59	79.52	1,885.79	1,887.47	1,876.14	11.32	166.706		
2,400.00	2,400.00	2,387.70	2,387.70	8.39	8.34	87.59	79.52	1,885.79	1,887.47	1,875.64	11.83	159.561		
2,500.00	2,500.00	2,487.70	2,487.70	8.74	8.70	87.59	79.52	1,885.79	1,887.47	1,875.13	12.34	153.004		
2,600.00	2,600.00	2,587.70	2,587.70	9.10	9.06	87.59	79.52	1,885.79	1,887.47	1,874.62	12.84	146.965		
2,700.00	2,700.00	2,687.70	2,687.70	9.46	9.42	87.59	79.52	1,885.79	1,887.47	1,874.12	13.35	141.384		
2,800.00	2,800.00	2,787.70	2,787.70	9.82	9.78	87.59	79.52	1,885.79	1,887.47	1,873.61	13.86	136.211		
2,900.00	2,900.00	2,887.70	2,887.70	10.18	10.13	87.59	79.52	1,885.79	1,887.47	1,873.10	14.36	131.404		
3,000.00	3,000.00	2,987.70	2,987.70	10.54	10.49	87.59	79.52	1,885.79	1,887.47	1,872.60	14.87	126.924		
3,100.00	3,100.00	3,087.70	3,087.70	10.90	10.85	87.59	79.52	1,885.79	1,887.47	1,872.09	15.38	122.740		
3,200.00	3,200.00	3,187.70	3,187.70	11.25	11.21	87.59	79.52	1,885.79	1,887.47	1,871.58	15.88	118.823		
3,300.00	3,300.00	3,287.70	3,287.70	11.61	11.57	87.59	79.52	1,885.79	1,887.47	1,871.07	16.39	115.148		
3,400.00	3,400.00	3,387.70	3,387.70	11.97	11.93	87.59	79.52	1,885.79	1,887.47	1,870.57	16.90	111.693		
3,500.00	3,500.00	3,487.70	3,487.70	12.33	12.29	87.59	79.52	1,885.79	1,887.47	1,870.06	17.41	108.440		
3,600.00	3,600.00	3,587.70	3,587.70	12.69	12.64	87.59	79.52	1,885.79	1,887.47	1,869.55	17.91	105.371		
3,700.00	3,700.00	3,687.70	3,687.70	13.05	13.00	87.59	79.52	1,885.79	1,887.47	1,869.05	18.42	102.471		
3,800.00	3,800.00	3,787.70	3,787.70	13.41	13.36	87.59	79.52	1,885.79	1,887.47	1,868.54	18.93	99.726		
3,900.00	3,900.00	3,887.70	3,887.70	13.76	13.72	87.59	79.52	1,885.79	1,887.47	1,868.03	19.43	97.125		
4,000.00	4,000.00	3,987.70	3,987.70	14.12	14.08	87.59	79.52	1,885.79	1,887.47	1,867.53	19.94	94.656		
4,100.00	4,100.00	4,087.70	4,087.70	14.48	14.44	87.59	79.52	1,885.79	1,887.47	1,867.02	20.45	92.309		
4,200.00	4,200.00	4,187.70	4,187.70	14.84	14.79	87.59	79.52	1,885.79	1,887.47	1,866.51	20.95	90.076		
4,300.00	4,300.00	4,287.70	4,287.70	15.20	15.15	87.59	79.52	1,885.79	1,887.47	1,866.00	21.46	87.948		
4,400.00	4,400.00	4,387.70	4,387.70	15.56	15.51	87.59	79.52	1,885.79	1,887.47	1,865.50	21.97	85.918		
4,500.00	4,500.00	4,487.70	4,487.70	15.91	15.87	87.59	79.52	1,885.79	1,887.47	1,864.99	22.48	83.980		
4,600.00	4,600.00	4,620.68	4,620.67	16.27	16.34	87.58	79.71	1,885.16	1,887.14	1,864.08	23.06	81.841		
4,700.00	4,700.00	4,807.79	4,807.59	16.63	16.99	87.50	82.03	1,877.47	1,883.08	1,859.34	23.73	79.343		
4,800.00	4,800.00	4,993.67	4,992.67	16.99	17.64	87.33	86.95	1,861.15	1,874.42	1,850.06	24.36	76.935		
4,900.00	4,900.00	5,177.46	5,174.64	17.35	18.30	87.06	94.37	1,836.56	1,861.24	1,836.29	24.95	74.606		
5,000.00	5,000.00	5,294.02	5,289.47	17.71	18.72	86.85	100.16	1,817.37	1,844.97	1,819.52	25.45	72.483		
5,100.00	5,100.00	5,392.50	5,386.45	18.07	19.08	86.66	105.10	1,800.99	1,828.63	1,802.68	25.95	70.474		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,200.00	5,490.98	5,483.43	18.42	19.44	86.47	110.04	1,784.62	1,812.30	1,785.86	26.44	68.537		
5,300.00	5,300.00	5,589.46	5,580.42	18.78	19.81	86.28	114.98	1,768.24	1,795.99	1,769.05	26.94	66.670		
5,400.00	5,400.00	5,687.94	5,677.40	19.14	20.18	86.08	119.92	1,751.87	1,779.70	1,752.27	27.44	64.868		
5,500.00	5,500.00	5,786.42	5,774.38	19.50	20.56	85.88	124.86	1,735.49	1,763.43	1,735.50	27.93	63.129		
5,600.00	5,599.99	5,885.06	5,871.53	19.86	20.93	118.55	129.81	1,719.09	1,747.80	1,719.37	28.43	61.473		
5,700.00	5,699.91	5,983.98	5,968.94	20.21	21.32	118.65	134.77	1,702.64	1,733.42	1,704.49	28.93	59.917		
5,800.00	5,799.69	6,083.11	6,066.56	20.57	21.70	118.81	139.74	1,686.15	1,720.28	1,690.85	29.43	58.454		
5,833.01	5,832.58	6,115.87	6,098.82	20.69	21.83	118.87	141.39	1,680.71	1,716.21	1,686.62	29.59	57.992		
5,900.00	5,899.32	6,182.36	6,164.30	20.92	22.09	118.91	144.72	1,669.65	1,708.11	1,678.18	29.93	57.071		
6,000.00	5,998.94	6,281.61	6,262.05	21.28	22.48	118.96	149.70	1,653.15	1,696.01	1,665.57	30.43	55.733		
6,100.00	6,098.56	6,380.87	6,359.79	21.64	22.87	119.01	154.68	1,636.64	1,683.91	1,652.97	30.93	54.436		
6,200.00	6,198.18	6,480.12	6,457.54	22.00	23.27	119.06	159.66	1,620.14	1,671.81	1,640.37	31.44	53.179		
6,300.00	6,297.80	6,579.38	6,555.29	22.35	23.66	119.11	164.64	1,603.63	1,659.71	1,627.77	31.94	51.960		
6,400.00	6,397.43	6,678.63	6,653.03	22.71	24.06	119.16	169.61	1,587.13	1,647.62	1,615.17	32.45	50.778		
6,500.00	6,497.05	6,777.89	6,750.78	23.07	24.46	119.21	174.59	1,570.62	1,635.52	1,602.57	32.95	49.630		
6,600.00	6,596.67	6,877.14	6,848.52	23.44	24.86	119.27	179.57	1,554.12	1,623.43	1,589.97	33.46	48.516		
6,700.00	6,696.29	6,976.40	6,946.27	23.80	25.27	119.32	184.55	1,537.61	1,611.34	1,577.37	33.97	47.434		
6,800.00	6,795.91	7,075.65	7,044.02	24.16	25.67	119.38	189.53	1,521.11	1,599.25	1,564.77	34.48	46.383		
6,900.00	6,895.53	7,174.90	7,141.76	24.52	26.08	119.44	194.51	1,504.60	1,587.16	1,552.17	34.99	45.361		
7,000.00	6,995.15	7,274.16	7,239.51	24.89	26.49	119.49	199.49	1,488.10	1,575.07	1,539.57	35.50	44.368		
7,100.00	7,094.77	7,373.41	7,337.25	25.25	26.90	119.55	204.47	1,471.59	1,562.99	1,526.98	36.01	43.402		
7,200.00	7,194.39	7,472.67	7,435.00	25.61	27.31	119.61	209.44	1,455.09	1,550.91	1,514.38	36.52	42.463		
7,300.00	7,294.01	7,571.92	7,532.74	25.98	27.72	119.67	214.42	1,438.58	1,538.82	1,501.79	37.04	41.549		
7,400.00	7,393.63	7,671.18	7,630.49	26.35	28.13	119.73	219.40	1,422.08	1,526.74	1,489.19	37.55	40.659		
7,500.00	7,493.25	7,770.43	7,728.24	26.71	28.55	119.79	224.38	1,405.57	1,514.67	1,476.60	38.06	39.793		
7,600.00	7,592.87	7,869.69	7,825.98	27.08	28.96	119.86	229.36	1,389.07	1,502.59	1,464.01	38.58	38.949		
7,700.00	7,692.49	7,968.94	7,923.73	27.44	29.38	119.92	234.34	1,372.57	1,490.51	1,451.42	39.09	38.127		
7,800.00	7,792.11	8,068.19	8,021.47	27.81	29.80	119.99	239.32	1,356.06	1,478.44	1,438.83	39.61	37.326		
7,900.00	7,891.73	8,167.45	8,119.22	28.18	30.22	120.05	244.30	1,339.56	1,466.37	1,426.25	40.12	36.546		
8,000.00	7,991.35	8,266.70	8,216.96	28.55	30.64	120.12	249.28	1,323.05	1,454.30	1,413.66	40.64	35.784		
8,100.00	8,090.97	8,365.96	8,314.71	28.92	31.06	120.19	254.25	1,306.55	1,442.24	1,401.08	41.16	35.042		
8,200.00	8,190.59	8,465.21	8,412.46	29.28	31.48	120.26	259.23	1,290.04	1,430.17	1,388.50	41.67	34.317		
8,226.93	8,217.42	8,491.94	8,438.78	29.38	31.59	120.28	260.57	1,285.60	1,426.92	1,385.11	41.81	34.125		
8,300.00	8,290.27	8,556.90	8,502.76	29.65	31.87	120.19	263.81	1,274.85	1,417.84	1,375.64	42.19	33.603		
8,400.00	8,390.11	8,630.50	8,575.42	30.02	32.18	120.01	267.19	1,263.67	1,405.59	1,362.88	42.71	32.912		
8,500.00	8,490.07	8,700.00	8,644.24	30.38	32.46	119.79	270.00	1,254.35	1,393.87	1,350.66	43.21	32.260		
8,559.94	8,550.00	8,748.61	8,692.47	30.59	32.65	87.02	271.75	1,248.54	1,387.07	1,343.57	43.50	31.883		
8,600.00	8,590.07	8,778.28	8,721.94	30.73	32.77	86.97	272.73	1,245.29	1,382.75	1,339.05	43.70	31.643		
8,700.00	8,690.07	8,852.55	8,795.84	31.09	33.06	86.86	274.90	1,238.10	1,373.24	1,329.06	44.18	31.086		
8,800.00	8,790.07	8,927.09	8,870.13	31.44	33.34	86.77	276.66	1,232.27	1,365.56	1,320.92	44.64	30.589		
8,900.00	8,890.07	9,000.00	8,942.89	31.80	33.61	86.71	277.97	1,227.91	1,359.71	1,314.62	45.09	30.155		
9,000.00	8,990.07	9,076.75	9,019.57	32.15	33.88	86.66	278.93	1,224.76	1,355.71	1,310.17	45.54	29.773		
9,100.00	9,090.07	9,151.75	9,094.55	32.51	34.14	86.64	279.42	1,223.11	1,353.55	1,307.58	45.96	29.448		
9,200.00	9,190.07	9,234.97	9,177.77	32.87	34.42	86.63	279.52	1,222.79	1,353.13	1,306.72	46.41	29.158		
9,300.00	9,290.07	9,334.97	9,277.77	33.22	34.76	86.63	279.52	1,222.79	1,353.13	1,306.22	46.91	28.848		
9,400.00	9,390.07	9,434.97	9,377.77	33.58	35.10	86.63	279.52	1,222.79	1,353.13	1,305.72	47.40	28.545		
9,500.00	9,490.07	9,534.97	9,477.77	33.93	35.43	86.63	279.52	1,222.79	1,353.13	1,305.23	47.90	28.248		
9,600.00	9,590.07	9,634.97	9,577.77	34.29	35.77	86.63	279.52	1,222.79	1,353.13	1,304.73	48.40	27.957		
9,700.00	9,690.07	9,734.97	9,677.77	34.65	36.11	86.63	279.52	1,222.79	1,353.13	1,304.23	48.90	27.671		
9,800.00	9,790.07	9,834.97	9,777.77	35.00	36.45	86.63	279.52	1,222.79	1,353.13	1,303.73	49.40	27.392		
9,900.00	9,890.07	9,934.97	9,877.77	35.36	36.79	86.63	279.52	1,222.79	1,353.13	1,303.23	49.90	27.118		
10,000.00	9,990.07	10,034.97	9,977.77	35.71	37.13	86.63	279.52	1,222.79	1,353.13	1,302.73	50.40	26.849		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,090.07	10,134.97	10,077.77	36.07	37.47	86.63	279.52	1,222.79	1,353.13	1,302.23	50.90	26.585		
10,200.00	10,190.07	10,234.97	10,177.77	36.43	37.81	86.63	279.52	1,222.79	1,353.13	1,301.73	51.40	26.327		
10,300.00	10,290.07	10,334.97	10,277.77	36.78	38.15	86.63	279.52	1,222.79	1,353.13	1,301.23	51.90	26.073		
10,400.00	10,390.07	10,434.97	10,377.77	37.14	38.49	86.63	279.52	1,222.79	1,353.13	1,300.73	52.40	25.825		
10,500.00	10,490.07	10,534.97	10,477.77	37.50	38.83	86.63	279.52	1,222.79	1,353.13	1,300.23	52.90	25.580		
10,600.00	10,590.07	10,634.97	10,577.77	37.85	39.17	86.63	279.52	1,222.79	1,353.13	1,299.73	53.40	25.341		
10,700.00	10,690.07	10,734.97	10,677.77	38.21	39.51	86.63	279.52	1,222.79	1,353.13	1,299.23	53.90	25.105		
10,800.00	10,790.07	10,834.97	10,777.77	38.57	39.85	86.63	279.52	1,222.79	1,353.13	1,298.73	54.40	24.874		
10,900.00	10,890.07	10,934.97	10,877.77	38.92	40.19	86.63	279.52	1,222.79	1,353.13	1,298.23	54.90	24.648		
11,000.00	10,990.07	11,034.97	10,977.77	39.28	40.54	86.63	279.52	1,222.79	1,353.13	1,297.73	55.40	24.425		
11,100.00	11,090.07	11,134.97	11,077.77	39.64	40.88	86.63	279.52	1,222.79	1,353.13	1,297.23	55.90	24.206		
11,200.00	11,190.07	11,234.97	11,177.77	39.99	41.22	86.63	279.52	1,222.79	1,353.13	1,296.73	56.40	23.991		
11,300.00	11,290.07	11,334.97	11,277.77	40.35	41.57	86.63	279.52	1,222.79	1,353.13	1,296.23	56.90	23.780		
11,374.94	11,365.00	11,409.90	11,352.70	40.62	41.82	86.63	279.52	1,222.79	1,353.13	1,295.85	57.28	23.624 CC		
11,400.00	11,390.06	11,434.96	11,377.76	40.70	41.91	-92.89	279.52	1,222.79	1,353.16	1,295.76	57.40	23.574		
11,450.00	11,439.85	11,484.75	11,427.55	40.86	42.08	-93.05	279.52	1,222.79	1,353.38	1,295.75	57.64	23.482		
11,500.00	11,489.07	11,534.60	11,477.40	41.01	42.25	-93.36	279.50	1,222.79	1,353.88	1,296.01	57.87	23.395		
11,550.00	11,537.35	11,592.26	11,534.93	41.15	42.43	-93.79	276.16	1,222.82	1,354.52	1,296.41	58.11	23.309		
11,600.00	11,584.32	11,651.27	11,593.17	41.28	42.61	-94.20	266.78	1,222.90	1,355.19	1,296.85	58.34	23.228		
11,650.00	11,629.62	11,711.61	11,651.39	41.41	42.77	-94.57	251.04	1,223.04	1,355.86	1,297.30	58.56	23.154		
11,700.00	11,672.90	11,773.20	11,708.78	41.53	42.93	-94.90	228.76	1,223.23	1,356.49	1,297.73	58.76	23.086		
11,750.00	11,713.85	11,835.96	11,764.45	41.63	43.07	-95.19	199.86	1,223.49	1,357.08	1,298.13	58.95	23.022		
11,800.00	11,752.13	11,899.74	11,817.45	41.73	43.20	-95.43	164.43	1,223.80	1,357.58	1,298.46	59.12	22.963		
11,850.00	11,787.47	11,964.38	11,866.80	41.82	43.30	-95.62	122.75	1,224.16	1,357.99	1,298.70	59.28	22.906		
11,900.00	11,819.60	12,029.66	11,911.56	41.92	43.39	-95.75	75.28	1,224.58	1,358.28	1,298.83	59.44	22.850		
11,950.00	11,848.26	12,095.35	11,950.86	42.02	43.47	-95.82	22.69	1,225.04	1,358.43	1,298.83	59.60	22.791		
12,000.00	11,873.25	12,161.21	11,983.96	42.13	43.53	-95.83	-34.20	1,225.54	1,358.45	1,298.68	59.77	22.729		
12,050.00	11,894.37	12,226.97	12,010.29	42.24	43.59	-95.77	-94.42	1,226.06	1,358.33	1,298.38	59.94	22.661		
12,100.00	11,911.46	12,292.38	12,029.46	42.35	43.65	-95.66	-156.92	1,226.61	1,358.07	1,297.94	60.13	22.586		
12,150.00	11,924.39	12,357.19	12,041.31	42.47	43.72	-95.48	-220.61	1,227.17	1,357.69	1,297.36	60.33	22.505		
12,200.00	11,933.06	12,421.21	12,045.89	42.59	43.83	-95.26	-284.42	1,227.73	1,357.20	1,296.67	60.54	22.419		
12,250.00	11,937.42	12,471.39	12,046.54	42.72	43.93	-95.13	-334.60	1,228.17	1,356.87	1,296.14	60.73	22.344		
12,267.63	11,937.91	12,489.02	12,046.77	42.76	43.97	-95.12	-352.22	1,228.32	1,356.84	1,296.05	60.79	22.319		
12,268.73	11,937.92	12,490.12	12,046.79	42.76	43.98	-95.12	-353.33	1,228.33	1,356.84	1,296.05	60.80	22.318		
12,300.00	11,938.26	12,521.39	12,047.19	42.84	44.06	-95.13	-384.59	1,228.60	1,356.85	1,295.93	60.92	22.272		
12,400.00	11,939.35	12,621.39	12,048.49	43.15	44.36	-95.14	-484.58	1,229.48	1,356.87	1,295.49	61.38	22.108		
12,500.00	11,940.43	12,721.39	12,049.79	43.51	44.74	-95.14	-584.56	1,230.36	1,356.88	1,294.97	61.91	21.916		
12,600.00	11,941.51	12,821.39	12,051.09	43.93	45.18	-95.15	-684.55	1,231.23	1,356.90	1,294.37	62.53	21.699		
12,700.00	11,942.59	12,921.39	12,052.40	44.41	45.69	-95.16	-784.54	1,232.11	1,356.92	1,293.68	63.23	21.459		
12,800.00	11,943.68	13,021.39	12,053.70	44.94	46.25	-95.17	-884.53	1,232.98	1,356.93	1,292.92	64.01	21.199		
12,900.00	11,944.76	13,121.39	12,055.00	45.53	46.86	-95.18	-984.51	1,233.86	1,356.95	1,292.09	64.86	20.921		
13,000.00	11,945.84	13,221.39	12,056.30	46.17	47.52	-95.19	-1,084.50	1,234.73	1,356.97	1,291.18	65.78	20.627		
13,100.00	11,946.92	13,321.39	12,057.60	46.86	48.23	-95.20	-1,184.49	1,235.61	1,356.99	1,290.21	66.78	20.322		
13,200.00	11,948.01	13,421.39	12,058.90	47.59	48.98	-95.21	-1,284.48	1,236.48	1,357.00	1,289.17	67.83	20.006		
13,300.00	11,949.09	13,521.39	12,060.20	48.37	49.78	-95.22	-1,384.46	1,237.36	1,357.02	1,288.07	68.95	19.681		
13,400.00	11,950.17	13,621.39	12,061.50	49.20	50.62	-95.23	-1,484.45	1,238.23	1,357.04	1,286.91	70.13	19.351		
13,500.00	11,951.25	13,721.39	12,062.80	50.06	51.50	-95.24	-1,584.44	1,239.11	1,357.06	1,285.69	71.36	19.016		
13,600.00	11,952.33	13,821.39	12,064.10	50.97	52.41	-95.25	-1,684.43	1,239.99	1,357.07	1,284.42	72.65	18.679		
13,700.00	11,953.42	13,921.39	12,065.40	51.91	53.37	-95.26	-1,784.41	1,240.86	1,357.09	1,283.10	73.99	18.341		
13,800.00	11,954.50	14,021.39	12,066.70	52.88	54.35	-95.26	-1,884.40	1,241.74	1,357.11	1,281.73	75.38	18.004		
13,900.00	11,955.58	14,121.38	12,068.00	53.89	55.37	-95.27	-1,984.39	1,242.61	1,357.13	1,280.32	76.81	17.668		
14,000.00	11,956.66	14,221.38	12,069.30	54.93	56.41	-95.28	-2,084.38	1,243.49	1,357.15	1,278.86	78.29	17.336		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
14,100.00	11,957.75	14,321.38	12,070.61	56.00	57.49	-95.29	-2,184.36	1,244.36	1,357.16	1,277.36	79.80	17.006		
14,200.00	11,958.83	14,421.38	12,071.91	57.10	58.59	-95.30	-2,284.35	1,245.24	1,357.18	1,275.82	81.36	16.682		
14,300.00	11,959.91	14,521.38	12,073.21	58.22	59.71	-95.31	-2,384.34	1,246.11	1,357.20	1,274.25	82.95	16.362		
14,400.00	11,960.99	14,621.38	12,074.51	59.37	60.86	-95.32	-2,484.33	1,246.99	1,357.22	1,272.64	84.57	16.048		
14,500.00	11,962.08	14,721.38	12,075.81	60.54	62.04	-95.33	-2,584.31	1,247.86	1,357.24	1,271.00	86.23	15.739		
14,600.00	11,963.16	14,821.38	12,077.11	61.73	63.23	-95.34	-2,684.30	1,248.74	1,357.25	1,269.33	87.92	15.437		
14,700.00	11,964.24	14,921.38	12,078.41	62.94	64.45	-95.35	-2,784.29	1,249.62	1,357.27	1,267.64	89.64	15.142		
14,800.00	11,965.32	15,021.38	12,079.71	64.18	65.68	-95.36	-2,884.28	1,250.49	1,357.29	1,265.91	91.38	14.853		
14,900.00	11,966.41	15,121.38	12,081.01	65.43	66.93	-95.37	-2,984.26	1,251.37	1,357.31	1,264.16	93.15	14.571		
15,000.00	11,967.49	15,221.38	12,082.31	66.70	68.20	-95.37	-3,084.25	1,252.24	1,357.33	1,262.38	94.94	14.296		
15,100.00	11,968.57	15,321.38	12,083.61	67.99	69.49	-95.38	-3,184.24	1,253.12	1,357.34	1,260.59	96.76	14.028		
15,200.00	11,969.65	15,421.38	12,084.91	69.29	70.78	-95.39	-3,284.23	1,253.99	1,357.36	1,258.77	98.59	13.767		
15,300.00	11,970.74	15,521.38	12,086.21	70.60	72.10	-95.40	-3,384.21	1,254.87	1,357.38	1,256.93	100.45	13.513		
15,400.00	11,971.82	15,621.38	12,087.51	71.93	73.43	-95.41	-3,484.20	1,255.74	1,357.40	1,255.07	102.33	13.265		
15,500.00	11,972.90	15,721.38	12,088.81	73.28	74.77	-95.42	-3,584.19	1,256.62	1,357.42	1,253.19	104.22	13.024		
15,600.00	11,973.98	15,821.38	12,090.12	74.63	76.12	-95.43	-3,684.18	1,257.49	1,357.44	1,251.30	106.14	12.790		
15,700.00	11,975.07	15,921.38	12,091.42	76.00	77.49	-95.44	-3,784.16	1,258.37	1,357.45	1,249.39	108.06	12.562		
15,800.00	11,976.15	16,021.38	12,092.72	77.38	78.86	-95.45	-3,884.15	1,259.25	1,357.47	1,247.46	110.01	12.340		
15,900.00	11,977.23	16,121.38	12,094.02	78.77	80.25	-95.46	-3,984.14	1,260.12	1,357.49	1,245.53	111.97	12.124		
16,000.00	11,978.31	16,221.38	12,095.32	80.17	81.64	-95.47	-4,084.13	1,261.00	1,357.51	1,243.57	113.94	11.915		
16,100.00	11,979.40	16,321.38	12,096.62	81.57	83.05	-95.48	-4,184.11	1,261.87	1,357.53	1,241.61	115.92	11.711		
16,200.00	11,980.48	16,421.38	12,097.92	82.99	84.46	-95.48	-4,284.10	1,262.75	1,357.55	1,239.63	117.92	11.513		
16,300.00	11,981.56	16,521.38	12,099.22	84.42	85.89	-95.49	-4,384.09	1,263.62	1,357.56	1,237.64	119.93	11.320		
16,400.00	11,982.64	16,621.38	12,100.52	85.85	87.32	-95.50	-4,484.08	1,264.50	1,357.58	1,235.63	121.95	11.132		
16,500.00	11,983.73	16,721.38	12,101.82	87.29	88.76	-95.51	-4,584.06	1,265.37	1,357.60	1,233.62	123.98	10.950		
16,600.00	11,984.81	16,821.38	12,103.12	88.74	90.20	-95.52	-4,684.05	1,266.25	1,357.62	1,231.60	126.02	10.773		
16,700.00	11,985.89	16,921.38	12,104.42	90.20	91.65	-95.53	-4,784.04	1,267.12	1,357.64	1,229.57	128.07	10.601		
16,800.00	11,986.97	17,021.38	12,105.72	91.66	93.11	-95.54	-4,884.03	1,268.00	1,357.66	1,227.53	130.13	10.433		
16,900.00	11,988.06	17,121.38	12,107.02	93.13	94.58	-95.55	-4,984.01	1,268.88	1,357.68	1,225.48	132.20	10.270		
17,000.00	11,989.14	17,221.38	12,108.33	94.61	96.05	-95.56	-5,084.00	1,269.75	1,357.70	1,223.42	134.28	10.111		
17,100.00	11,990.22	17,321.38	12,109.63	96.09	97.53	-95.57	-5,183.99	1,270.63	1,357.71	1,221.35	136.36	9.957		
17,200.00	11,991.30	17,421.38	12,110.93	97.57	99.01	-95.58	-5,283.98	1,271.50	1,357.73	1,219.28	138.45	9.806		
17,300.00	11,992.39	17,521.38	12,112.23	99.06	100.50	-95.59	-5,383.96	1,272.38	1,357.75	1,217.20	140.55	9.660		
17,400.00	11,993.47	17,621.38	12,113.53	100.56	101.99	-95.59	-5,483.95	1,273.25	1,357.77	1,215.11	142.66	9.517		
17,500.00	11,994.55	17,721.38	12,114.83	102.06	103.49	-95.60	-5,583.94	1,274.13	1,357.79	1,213.02	144.77	9.379		
17,600.00	11,995.63	17,821.38	12,116.13	103.57	104.99	-95.61	-5,683.93	1,275.00	1,357.81	1,210.92	146.89	9.243		
17,700.00	11,996.72	17,921.38	12,117.43	105.08	106.50	-95.62	-5,783.91	1,275.88	1,357.83	1,208.81	149.02	9.112		
17,800.00	11,997.80	18,021.38	12,118.73	106.59	108.01	-95.63	-5,883.90	1,276.75	1,357.85	1,206.70	151.15	8.983		
17,900.00	11,998.88	18,121.38	12,120.03	108.11	109.53	-95.64	-5,983.89	1,277.63	1,357.87	1,204.58	153.29	8.858		
18,000.00	11,999.96	18,221.38	12,121.33	109.64	111.05	-95.65	-6,083.87	1,278.51	1,357.89	1,202.45	155.43	8.736		
18,100.00	12,001.05	18,321.38	12,122.63	111.16	112.57	-95.66	-6,183.86	1,279.38	1,357.91	1,200.33	157.58	8.617		
18,200.00	12,002.13	18,421.37	12,123.93	112.69	114.10	-95.67	-6,283.85	1,280.26	1,357.92	1,198.19	159.73	8.501		
18,300.00	12,003.21	18,521.37	12,125.23	114.23	115.63	-95.68	-6,383.84	1,281.13	1,357.94	1,196.06	161.89	8.388		
18,400.00	12,004.29	18,621.37	12,126.54	115.76	117.16	-95.69	-6,483.82	1,282.01	1,357.96	1,193.91	164.05	8.278		
18,500.00	12,005.38	18,721.37	12,127.84	117.30	118.70	-95.70	-6,583.81	1,282.88	1,357.98	1,191.77	166.22	8.170		
18,600.00	12,006.46	18,821.37	12,129.14	118.84	120.24	-95.70	-6,683.80	1,283.76	1,358.00	1,189.62	168.39	8.065		
18,700.00	12,007.54	18,921.37	12,130.44	120.39	121.78	-95.71	-6,783.79	1,284.63	1,358.02	1,187.46	170.56	7.962		
18,800.00	12,008.62	19,021.37	12,131.74	121.94	123.33	-95.72	-6,883.77	1,285.51	1,358.04	1,185.30	172.74	7.862		
18,900.00	12,009.71	19,121.37	12,133.04	123.49	124.88	-95.73	-6,983.76	1,286.38	1,358.06	1,183.14	174.92	7.764		
19,000.00	12,010.79	19,221.37	12,134.34	125.04	126.43	-95.74	-7,083.75	1,287.26	1,358.08	1,180.98	177.10	7.668		
19,100.00	12,011.87	19,321.37	12,135.64	126.60	127.98	-95.75	-7,183.74	1,288.14	1,358.10	1,178.81	179.29	7.575		
19,200.00	12,012.95	19,421.37	12,136.94	128.16	129.54	-95.76	-7,283.72	1,289.01	1,358.12	1,176.64	181.48	7.483		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
19,300.00	12,014.03	19,521.37	12,138.24	129.72	131.09	-95.77	-7,383.71	1,289.89	1,358.14	1,174.46	183.68	7.394		
19,400.00	12,015.12	19,621.37	12,139.54	131.28	132.66	-95.78	-7,483.70	1,290.76	1,358.16	1,172.28	185.88	7.307		
19,500.00	12,016.20	19,721.37	12,140.84	132.85	134.22	-95.79	-7,583.69	1,291.64	1,358.18	1,170.10	188.08	7.221		
19,600.00	12,017.28	19,821.37	12,142.14	134.42	135.78	-95.80	-7,683.67	1,292.51	1,358.20	1,167.92	190.28	7.138		
19,700.00	12,018.36	19,921.37	12,143.44	135.98	137.35	-95.81	-7,783.66	1,293.39	1,358.22	1,165.73	192.49	7.056		
19,800.00	12,019.45	20,021.37	12,144.75	137.56	138.92	-95.81	-7,883.65	1,294.26	1,358.24	1,163.54	194.69	6.976		
19,900.00	12,020.53	20,121.37	12,146.05	139.13	140.49	-95.82	-7,983.64	1,295.14	1,358.26	1,161.35	196.91	6.898		
20,000.00	12,021.61	20,221.37	12,147.35	140.70	142.06	-95.83	-8,083.62	1,296.01	1,358.28	1,159.16	199.12	6.821		
20,100.00	12,022.69	20,321.37	12,148.65	142.28	143.64	-95.84	-8,183.61	1,296.89	1,358.30	1,156.96	201.34	6.746		
20,200.00	12,023.78	20,421.37	12,149.95	143.86	145.21	-95.85	-8,283.60	1,297.77	1,358.32	1,154.76	203.55	6.673		
20,300.00	12,024.86	20,521.37	12,151.25	145.44	146.79	-95.86	-8,383.59	1,298.64	1,358.34	1,152.56	205.77	6.601		
20,400.00	12,025.94	20,621.37	12,152.55	147.02	148.37	-95.87	-8,483.57	1,299.52	1,358.36	1,150.36	208.00	6.531		
20,500.00	12,027.02	20,721.37	12,153.85	148.61	149.95	-95.88	-8,583.56	1,300.39	1,358.38	1,148.15	210.22	6.462		
20,600.00	12,028.11	20,821.37	12,155.15	150.19	151.53	-95.89	-8,683.55	1,301.27	1,358.40	1,145.95	212.45	6.394		
20,700.00	12,029.19	20,921.37	12,156.45	151.78	153.12	-95.90	-8,783.54	1,302.14	1,358.42	1,143.74	214.68	6.328		
20,800.00	12,030.27	21,021.37	12,157.75	153.36	154.70	-95.91	-8,883.52	1,303.02	1,358.44	1,141.53	216.91	6.263		
20,900.00	12,031.35	21,121.37	12,159.05	154.95	156.29	-95.92	-8,983.51	1,303.89	1,358.46	1,139.32	219.14	6.199		
21,000.00	12,032.44	21,221.37	12,160.35	156.54	157.88	-95.92	-9,083.50	1,304.77	1,358.48	1,137.10	221.37	6.137		
21,100.00	12,033.52	21,321.37	12,161.65	158.14	159.47	-95.93	-9,183.49	1,305.64	1,358.50	1,134.89	223.61	6.075		
21,200.00	12,034.60	21,421.37	12,162.95	159.73	161.06	-95.94	-9,283.47	1,306.52	1,358.52	1,132.67	225.85	6.015		
21,300.00	12,035.68	21,521.37	12,164.26	161.32	162.65	-95.95	-9,383.46	1,307.40	1,358.54	1,130.45	228.09	5.956		
21,400.00	12,036.77	21,621.37	12,165.56	162.92	164.25	-95.96	-9,483.45	1,308.27	1,358.56	1,128.23	230.33	5.898		
21,500.00	12,037.85	21,721.37	12,166.86	164.51	165.84	-95.97	-9,583.44	1,309.15	1,358.58	1,126.01	232.57	5.842		
21,600.00	12,038.93	21,821.37	12,168.16	166.11	167.44	-95.98	-9,683.42	1,310.02	1,358.60	1,123.79	234.81	5.786		
21,700.00	12,040.01	21,921.37	12,169.46	167.71	169.03	-95.99	-9,783.41	1,310.90	1,358.62	1,121.56	237.06	5.731		
21,800.00	12,041.10	22,021.37	12,170.76	169.31	170.63	-96.00	-9,883.40	1,311.77	1,358.64	1,119.34	239.30	5.677		
21,900.00	12,042.18	22,121.37	12,172.06	170.91	172.23	-96.01	-9,983.39	1,312.65	1,358.66	1,117.11	241.55	5.625		
22,000.00	12,043.26	22,221.37	12,173.36	172.51	173.83	-96.02	-10,083.37	1,313.52	1,358.68	1,114.88	243.80	5.573		
22,100.00	12,044.34	22,321.37	12,174.66	174.11	175.43	-96.03	-10,183.36	1,314.40	1,358.70	1,112.65	246.05	5.522		
22,200.00	12,045.43	22,421.37	12,175.96	175.72	177.03	-96.03	-10,283.35	1,315.27	1,358.72	1,110.42	248.30	5.472		
22,300.00	12,046.51	22,521.37	12,177.26	177.32	178.63	-96.04	-10,383.34	1,316.15	1,358.74	1,108.19	250.55	5.423		
22,400.00	12,047.59	22,621.36	12,178.56	178.93	180.24	-96.05	-10,483.32	1,317.02	1,358.76	1,105.96	252.81	5.375		
22,500.00	12,048.67	22,721.36	12,179.86	180.53	181.84	-96.06	-10,583.31	1,317.90	1,358.79	1,103.72	255.06	5.327		
22,572.67	12,049.46	22,794.03	12,180.81	181.70	183.01	-96.07	-10,655.97	1,318.54	1,358.80	1,102.10	256.70	5.293 ES, SF		



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kasten Fed Com - Kasten Fed Com 603H - OH - Plan #2		Offset Site Error:		0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft			
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor							
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)							
0.00	0.00	0.00	0.00	0.00	0.00	87.68	80.51	1,990.77	1,992.45									
100.00	100.00	86.10	86.10	0.14	0.12	87.68	80.51	1,990.77	1,992.40	1,992.21	0.19	N/A						
200.00	200.00	186.10	186.10	0.50	0.45	87.68	80.51	1,990.77	1,992.40	1,991.72	0.67	2,960.944						
300.00	300.00	286.10	286.10	0.86	0.81	87.68	80.51	1,990.77	1,992.40	1,991.22	1.18	1,689.258						
400.00	400.00	386.10	386.10	1.22	1.17	87.68	80.51	1,990.77	1,992.40	1,990.71	1.69	1,181.556						
500.00	500.00	486.10	486.10	1.58	1.53	87.68	80.51	1,990.77	1,992.40	1,990.20	2.19	908.477						
600.00	600.00	586.10	586.10	1.93	1.88	87.68	80.51	1,990.77	1,992.40	1,989.70	2.70	737.919						
700.00	700.00	686.10	686.10	2.29	2.24	87.68	80.51	1,990.77	1,992.40	1,989.19	3.21	621.277						
800.00	800.00	786.10	786.10	2.65	2.60	87.68	80.51	1,990.77	1,992.40	1,988.68	3.71	536.475						
900.00	900.00	886.10	886.10	3.01	2.96	87.68	80.51	1,990.77	1,992.40	1,988.18	4.22	472.042						
1,000.00	1,000.00	986.10	986.10	3.37	3.32	87.68	80.51	1,990.77	1,992.40	1,987.67	4.73	421.427						
1,100.00	1,100.00	1,086.10	1,086.10	3.73	3.68	87.68	80.51	1,990.77	1,992.40	1,987.16	5.23	380.615						
1,200.00	1,200.00	1,186.10	1,186.10	4.08	4.03	87.68	80.51	1,990.77	1,992.40	1,986.66	5.74	347.009						
1,300.00	1,300.00	1,286.10	1,286.10	4.44	4.39	87.68	80.51	1,990.77	1,992.40	1,986.15	6.25	318.856						
1,400.00	1,400.00	1,386.10	1,386.10	4.80	4.75	87.68	80.51	1,990.77	1,992.40	1,985.64	6.76	294.929						
1,500.00	1,500.00	1,486.10	1,486.10	5.16	5.11	87.68	80.51	1,990.77	1,992.40	1,985.13	7.26	274.341						
1,600.00	1,600.00	1,586.10	1,586.10	5.52	5.47	87.68	80.51	1,990.77	1,992.40	1,984.63	7.77	256.441						
1,700.00	1,700.00	1,686.10	1,686.10	5.88	5.83	87.68	80.51	1,990.77	1,992.40	1,984.12	8.28	240.733						
1,800.00	1,800.00	1,786.10	1,786.10	6.24	6.19	87.68	80.51	1,990.77	1,992.40	1,983.61	8.78	226.839						
1,900.00	1,900.00	1,886.10	1,886.10	6.59	6.54	87.68	80.51	1,990.77	1,992.40	1,983.11	9.29	214.461						
2,000.00	2,000.00	1,986.10	1,986.10	6.95	6.90	87.68	80.51	1,990.77	1,992.40	1,982.60	9.80	203.363						
2,100.00	2,100.00	2,086.10	2,086.10	7.31	7.26	87.68	80.51	1,990.77	1,992.40	1,982.09	10.30	193.358						
2,200.00	2,200.00	2,186.10	2,186.10	7.67	7.62	87.68	80.51	1,990.77	1,992.40	1,981.59	10.81	184.291						
2,300.00	2,300.00	2,286.10	2,286.10	8.03	7.98	87.68	80.51	1,990.77	1,992.40	1,981.08	11.32	176.037						
2,400.00	2,400.00	2,386.10	2,386.10	8.39	8.34	87.68	80.51	1,990.77	1,992.40	1,980.57	11.83	168.490						
2,500.00	2,500.00	2,486.10	2,486.10	8.74	8.70	87.68	80.51	1,990.77	1,992.40	1,980.07	12.33	161.563						
2,600.00	2,600.00	2,586.10	2,586.10	9.10	9.05	87.68	80.51	1,990.77	1,992.40	1,979.56	12.84	155.184						
2,700.00	2,700.00	2,686.10	2,686.10	9.46	9.41	87.68	80.51	1,990.77	1,992.40	1,979.05	13.35	149.289						
2,800.00	2,800.00	2,786.10	2,786.10	9.82	9.77	87.68	80.51	1,990.77	1,992.40	1,978.54	13.85	143.826						
2,900.00	2,900.00	2,886.10	2,886.10	10.18	10.13	87.68	80.51	1,990.77	1,992.40	1,978.04	14.36	138.748						
3,000.00	3,000.00	2,986.10	2,986.10	10.54	10.49	87.68	80.51	1,990.77	1,992.40	1,977.53	14.87	134.017						
3,100.00	3,100.00	3,086.10	3,086.10	10.90	10.85	87.68	80.51	1,990.77	1,992.40	1,977.02	15.37	129.598						
3,200.00	3,200.00	3,186.10	3,186.10	11.25	11.20	87.68	80.51	1,990.77	1,992.40	1,976.52	15.88	125.461						
3,300.00	3,300.00	3,286.10	3,286.10	11.61	11.56	87.68	80.51	1,990.77	1,992.40	1,976.01	16.39	121.579						
3,400.00	3,400.00	3,386.10	3,386.10	11.97	11.92	87.68	80.51	1,990.77	1,992.40	1,975.50	16.89	117.931						
3,500.00	3,500.00	3,486.10	3,486.10	12.33	12.28	87.68	80.51	1,990.77	1,992.40	1,975.00	17.40	114.496						
3,600.00	3,600.00	3,586.10	3,586.10	12.69	12.64	87.68	80.51	1,990.77	1,992.40	1,974.49	17.91	111.254						
3,700.00	3,700.00	3,686.10	3,686.10	13.05	13.00	87.68	80.51	1,990.77	1,992.40	1,973.98	18.42	108.192						
3,800.00	3,800.00	3,786.10	3,786.10	13.41	13.36	87.68	80.51	1,990.77	1,992.40	1,973.47	18.92	105.293						
3,900.00	3,900.00	3,886.10	3,886.10	13.76	13.71	87.68	80.51	1,990.77	1,992.40	1,972.97	19.43	102.546						
4,000.00	4,000.00	3,986.10	3,986.10	14.12	14.07	87.68	80.51	1,990.77	1,992.40	1,972.46	19.94	99.938						
4,100.00	4,100.00	4,086.10	4,086.10	14.48	14.43	87.68	80.51	1,990.77	1,992.40	1,971.95	20.44	97.460						
4,200.00	4,200.00	4,186.10	4,186.10	14.84	14.79	87.68	80.51	1,990.77	1,992.40	1,971.45	20.95	95.102						
4,300.00	4,300.00	4,286.10	4,286.10	15.20	15.15	87.68	80.51	1,990.77	1,992.40	1,970.94	21.46	92.855						
4,400.00	4,400.00	4,386.10	4,386.10	15.56	15.51	87.68	80.51	1,990.77	1,992.40	1,970.43	21.96	90.711						
4,500.00	4,500.00	4,486.10	4,486.10	15.91	15.86	87.68	80.51	1,990.77	1,992.40	1,969.93	22.47	88.665 CC, ES						
4,600.00	4,600.00	4,557.00	4,557.00	16.27	16.11	87.68	80.61	1,991.18	1,993.03	1,970.13	22.90	87.033						
4,700.00	4,700.00	4,623.18	4,623.16	16.63	16.35	87.67	81.00	1,992.69	1,995.33	1,972.02	23.31	85.602						
4,800.00	4,800.00	4,700.00	4,699.91	16.99	16.61	87.65	81.80	1,995.84	1,999.38	1,975.64	23.74	84.212						
4,900.00	4,900.00	4,755.27	4,755.08	17.35	16.80	87.63	82.61	1,999.03	2,005.03	1,980.92	24.11	83.171						
5,000.00	5,000.00	4,821.10	4,820.72	17.71	17.03	87.60	83.84	2,003.84	2,012.40	1,987.90	24.50	82.149						
5,100.00	5,100.00	4,900.00	4,899.27	18.07	17.31	87.56	85.67	2,011.05	2,021.52	1,996.60	24.92	81.105						

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,200.00	4,952.16	4,951.11	18.42	17.49	87.53	87.10	2,016.68	2,032.19	2,006.93	25.26	80.461		
5,300.00	5,300.00	5,017.31	5,015.73	18.78	17.72	87.48	89.14	2,024.67	2,044.58	2,018.96	25.63	79.785		
5,400.00	5,400.00	5,107.93	5,105.48	19.14	18.04	87.41	92.24	2,036.86	2,058.17	2,032.08	26.09	78.893		
5,500.00	5,500.00	5,206.96	5,203.54	19.50	18.40	87.33	95.64	2,050.21	2,071.80	2,045.22	26.58	77.940		
5,600.00	5,599.99	5,305.92	5,301.53	19.86	18.75	119.72	99.03	2,063.56	2,086.09	2,059.01	27.08	77.047		
5,700.00	5,699.91	5,404.69	5,399.35	20.21	19.11	119.53	102.42	2,076.88	2,101.66	2,074.09	27.57	76.237		
5,800.00	5,799.69	5,503.22	5,496.92	20.57	19.47	119.38	105.80	2,090.17	2,118.50	2,090.44	28.06	75.502		
5,833.01	5,832.58	5,535.67	5,529.05	20.69	19.59	119.35	106.92	2,094.55	2,124.34	2,096.12	28.22	75.275		
5,900.00	5,899.32	5,601.51	5,594.25	20.92	19.83	119.43	109.18	2,103.43	2,136.33	2,107.78	28.55	74.828		
6,000.00	5,998.94	5,699.78	5,691.56	21.28	20.20	119.56	112.55	2,116.68	2,154.25	2,125.20	29.04	74.177		
6,100.00	6,098.56	5,798.05	5,788.87	21.64	20.56	119.69	115.92	2,129.94	2,172.17	2,142.63	29.53	73.546		
6,200.00	6,198.18	5,896.32	5,886.19	22.00	20.93	119.81	119.29	2,143.19	2,190.10	2,160.07	30.03	72.933		
6,300.00	6,297.80	5,994.58	5,983.50	22.35	21.30	119.93	122.67	2,156.45	2,208.04	2,177.52	30.52	72.339		
6,400.00	6,397.43	6,092.85	6,080.81	22.71	21.67	120.05	126.04	2,169.70	2,226.00	2,194.98	31.02	71.761		
6,500.00	6,497.05	6,191.12	6,178.12	23.07	22.04	120.17	129.41	2,182.96	2,243.96	2,212.44	31.52	71.200		
6,600.00	6,596.67	6,289.39	6,275.44	23.44	22.41	120.29	132.78	2,196.21	2,261.93	2,229.91	32.01	70.654		
6,700.00	6,696.29	6,387.66	6,372.75	23.80	22.79	120.40	136.16	2,209.46	2,279.91	2,247.39	32.51	70.124		
6,800.00	6,795.91	6,485.93	6,470.06	24.16	23.16	120.51	139.53	2,222.72	2,297.90	2,264.88	33.01	69.609		
6,900.00	6,895.53	6,584.20	6,567.38	24.52	23.54	120.62	142.90	2,235.97	2,315.89	2,282.38	33.51	69.107		
7,000.00	6,995.15	6,682.47	6,664.69	24.89	23.92	120.73	146.28	2,249.23	2,333.90	2,299.88	34.01	68.619		
7,100.00	7,094.77	6,780.74	6,762.00	25.25	24.30	120.84	149.65	2,262.48	2,351.91	2,317.40	34.51	68.144		
7,200.00	7,194.39	6,879.01	6,859.31	25.61	24.68	120.95	153.02	2,275.74	2,369.93	2,334.91	35.02	67.682		
7,300.00	7,294.01	6,977.28	6,956.63	25.98	25.06	121.05	156.39	2,288.99	2,387.96	2,352.44	35.52	67.231		
7,400.00	7,393.63	7,075.55	7,053.94	26.35	25.44	121.15	159.77	2,302.24	2,405.99	2,369.97	36.02	66.792		
7,500.00	7,493.25	7,173.82	7,151.25	26.71	25.83	121.25	163.14	2,315.50	2,424.04	2,387.51	36.53	66.365		
7,600.00	7,592.87	7,272.09	7,248.57	27.08	26.21	121.35	166.51	2,328.75	2,442.09	2,405.06	37.03	65.948		
7,700.00	7,692.49	7,370.36	7,345.88	27.44	26.60	121.45	169.88	2,342.01	2,460.15	2,422.61	37.54	65.542		
7,800.00	7,792.11	7,468.62	7,443.19	27.81	26.98	121.55	173.26	2,355.26	2,478.21	2,440.17	38.04	65.146		
7,900.00	7,891.73	7,566.89	7,540.51	28.18	27.37	121.64	176.63	2,368.52	2,496.28	2,457.73	38.55	64.759		
8,000.00	7,991.35	7,665.16	7,637.82	28.55	27.76	121.74	180.00	2,381.77	2,514.36	2,475.31	39.05	64.382		
8,100.00	8,090.97	7,763.43	7,735.13	28.92	28.14	121.83	183.37	2,395.02	2,532.44	2,492.88	39.56	64.014		
8,200.00	8,190.59	7,861.70	7,832.44	29.28	28.53	121.92	186.75	2,408.28	2,550.53	2,510.47	40.07	63.655		
8,226.93	8,217.42	7,888.17	7,858.65	29.38	28.64	121.95	187.65	2,411.85	2,555.41	2,515.20	40.21	63.559		
8,300.00	8,290.27	7,960.06	7,929.84	29.65	28.92	122.16	190.12	2,421.55	2,568.27	2,527.69	40.58	63.295		
8,400.00	8,390.11	8,058.69	8,027.52	30.02	29.32	122.40	193.51	2,434.85	2,584.68	2,543.59	41.08	62.914		
8,500.00	8,490.07	8,157.55	8,125.41	30.38	29.71	122.57	196.90	2,448.18	2,599.70	2,558.11	41.59	62.511		
8,559.94	8,550.00	8,216.88	8,184.16	30.59	29.95	90.02	198.94	2,456.18	2,608.04	2,566.15	41.89	62.258		
8,600.00	8,590.07	8,256.55	8,223.45	30.73	30.10	89.99	200.30	2,461.54	2,613.45	2,571.35	42.09	62.088		
8,700.00	8,690.07	8,355.58	8,321.51	31.09	30.50	89.92	203.70	2,474.89	2,626.94	2,584.35	42.60	61.669		
8,800.00	8,790.07	8,454.61	8,419.58	31.44	30.89	89.84	207.09	2,488.25	2,640.45	2,597.34	43.10	61.259		
8,900.00	8,890.07	8,553.63	8,517.64	31.80	31.29	89.77	210.49	2,501.60	2,653.95	2,610.35	43.61	60.859		
9,000.00	8,990.07	8,652.66	8,615.70	32.15	31.69	89.70	213.89	2,514.96	2,667.47	2,623.35	44.11	60.468		
9,100.00	9,090.07	8,751.69	8,713.77	32.51	32.09	89.63	217.29	2,528.32	2,680.98	2,636.36	44.62	60.085		
9,200.00	9,190.07	8,850.71	8,811.83	32.87	32.48	89.56	220.69	2,541.67	2,694.50	2,649.37	45.13	59.711		
9,300.00	9,290.07	8,949.74	8,909.89	33.22	32.88	89.49	224.09	2,555.03	2,708.02	2,662.39	45.63	59.345		
9,400.00	9,390.07	9,048.77	9,007.96	33.58	33.28	89.42	227.49	2,568.39	2,721.55	2,675.41	46.14	58.987		
9,500.00	9,490.07	9,147.79	9,106.02	33.93	33.68	89.35	230.89	2,581.74	2,735.08	2,688.44	46.64	58.637		
9,600.00	9,590.07	9,246.82	9,204.08	34.29	34.08	89.28	234.28	2,595.10	2,748.62	2,701.47	47.15	58.294		
9,700.00	9,690.07	9,345.85	9,302.14	34.65	34.48	89.21	237.68	2,608.46	2,762.16	2,714.50	47.66	57.958		
9,800.00	9,790.07	9,444.87	9,400.21	35.00	34.88	89.14	241.08	2,621.81	2,775.70	2,727.53	48.16	57.629		
9,900.00	9,890.07	9,543.90	9,498.27	35.36	35.28	89.08	244.48	2,635.17	2,789.25	2,740.57	48.67	57.307		
10,000.00	9,990.07	9,642.93	9,596.33	35.71	35.68	89.01	247.88	2,648.53	2,802.80	2,753.62	49.18	56.992		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,090.07	9,741.95	9,694.40	36.07	36.08	88.95	251.28	2,661.88	2,816.35	2,766.66	49.69	56.682		
10,200.00	10,190.07	9,840.98	9,792.46	36.43	36.49	88.88	254.68	2,675.24	2,829.91	2,779.71	50.19	56.379		
10,300.00	10,290.07	9,940.01	9,890.52	36.78	36.89	88.82	258.07	2,688.60	2,843.47	2,792.77	50.70	56.082		
10,400.00	10,390.07	10,039.03	9,988.59	37.14	37.29	88.76	261.47	2,701.95	2,857.03	2,805.82	51.21	55.791		
10,500.00	10,490.07	10,138.06	10,086.65	37.50	37.69	88.69	264.87	2,715.31	2,870.60	2,818.88	51.72	55.505		
10,600.00	10,590.07	10,237.09	10,184.71	37.85	38.10	88.63	268.27	2,728.67	2,884.17	2,831.94	52.23	55.225		
10,700.00	10,690.07	10,363.09	10,309.51	38.21	38.61	88.55	272.55	2,745.49	2,897.70	2,844.86	52.84	54.841		
10,800.00	10,790.07	10,675.32	10,620.42	38.57	39.80	88.43	279.35	2,772.21	2,905.47	2,851.42	54.05	53.753		
10,900.00	10,890.07	10,931.14	10,876.17	38.92	40.68	88.41	280.51	2,776.77	2,905.89	2,850.95	54.94	52.895		
11,000.00	10,990.07	11,031.14	10,976.17	39.28	41.02	88.41	280.51	2,776.77	2,905.89	2,850.45	55.43	52.420		
11,100.00	11,090.07	11,131.14	11,076.17	39.64	41.36	88.41	280.51	2,776.77	2,905.89	2,849.95	55.93	51.953		
11,200.00	11,190.07	11,231.14	11,176.17	39.99	41.69	88.41	280.51	2,776.77	2,905.89	2,849.45	56.43	51.493		
11,300.00	11,290.07	11,332.06	11,277.08	40.35	42.03	88.41	280.42	2,776.77	2,905.88	2,848.95	56.93	51.041		
11,374.94	11,365.00	11,413.71	11,358.34	40.62	42.28	88.56	273.18	2,776.84	2,905.77	2,848.47	57.30	50.709		
11,400.00	11,390.06	11,440.47	11,384.65	40.70	42.36	-90.86	268.30	2,776.89	2,905.71	2,848.29	57.42	50.604		
11,450.00	11,439.85	11,493.22	11,435.71	40.86	42.51	-90.70	255.11	2,777.02	2,905.61	2,847.97	57.64	50.410		
11,500.00	11,489.07	11,545.13	11,484.55	41.01	42.64	-90.53	237.60	2,777.19	2,905.54	2,847.69	57.85	50.227		
11,550.00	11,537.35	11,596.21	11,530.88	41.15	42.76	-90.37	216.13	2,777.40	2,905.49	2,847.44	58.05	50.055		
11,600.00	11,584.32	11,646.49	11,574.44	41.28	42.87	-90.20	191.05	2,777.64	2,905.47	2,847.24	58.23	49.894		
11,605.78	11,589.65	11,652.26	11,579.29	41.30	42.89	-90.18	187.93	2,777.67	2,905.47	2,847.22	58.25	49.876		
11,650.00	11,629.62	11,696.02	11,615.03	41.41	42.97	-90.03	162.70	2,777.92	2,905.48	2,847.07	58.41	49.742		
11,700.00	11,672.90	11,744.82	11,652.49	41.53	43.06	-89.86	131.44	2,778.23	2,905.52	2,846.94	58.58	49.598		
11,750.00	11,713.85	11,792.94	11,686.69	41.63	43.13	-89.69	97.61	2,778.56	2,905.59	2,846.84	58.75	49.461		
11,800.00	11,752.13	11,840.42	11,717.54	41.73	43.20	-89.53	61.54	2,778.91	2,905.68	2,846.78	58.90	49.329		
11,850.00	11,787.47	11,887.30	11,744.96	41.82	43.26	-89.37	23.53	2,779.28	2,905.80	2,846.74	59.06	49.200		
11,900.00	11,819.60	11,933.62	11,768.91	41.92	43.31	-89.22	-16.09	2,779.67	2,905.94	2,846.73	59.21	49.074		
11,950.00	11,848.26	11,979.42	11,789.38	42.02	43.37	-89.07	-57.06	2,780.07	2,906.10	2,846.73	59.37	48.950		
12,000.00	11,873.25	12,024.75	11,806.35	42.13	43.42	-88.93	-99.08	2,780.48	2,906.27	2,846.74	59.52	48.825		
12,050.00	11,894.37	12,069.65	11,819.83	42.24	43.48	-88.79	-141.89	2,780.89	2,906.45	2,846.76	59.68	48.699		
12,100.00	11,911.46	12,114.16	11,829.84	42.35	43.55	-88.67	-185.24	2,781.32	2,906.63	2,846.79	59.84	48.572		
12,150.00	11,924.39	12,158.31	11,836.42	42.47	43.62	-88.55	-228.89	2,781.74	2,906.81	2,846.81	60.00	48.443		
12,200.00	11,933.06	12,202.16	11,839.62	42.59	43.71	-88.45	-272.60	2,782.17	2,907.00	2,846.83	60.17	48.313		
12,250.00	11,937.42	12,250.80	11,840.62	42.72	43.82	-88.37	-321.23	2,782.64	2,907.14	2,846.79	60.35	48.168		
12,268.73	11,937.92	12,269.53	11,840.98	42.76	43.86	-88.36	-339.96	2,782.83	2,907.16	2,846.74	60.42	48.112		
12,300.00	11,938.26	12,300.80	11,841.57	42.84	43.95	-88.37	-371.22	2,783.13	2,907.19	2,846.64	60.54	48.017		
12,400.00	11,939.35	12,400.79	11,843.49	43.15	44.26	-88.39	-471.19	2,784.11	2,907.26	2,846.26	61.00	47.659		
12,500.00	11,940.43	12,500.79	11,845.41	43.51	44.64	-88.40	-571.16	2,785.08	2,907.33	2,845.79	61.54	47.241		
12,600.00	11,941.51	12,600.79	11,847.33	43.93	45.08	-88.42	-671.14	2,786.06	2,907.41	2,845.24	62.17	46.767		
12,700.00	11,942.59	12,700.78	11,849.24	44.41	45.59	-88.43	-771.11	2,787.04	2,907.49	2,844.61	62.87	46.243		
12,800.00	11,943.68	12,800.78	11,851.16	44.94	46.14	-88.45	-871.08	2,788.01	2,907.56	2,843.90	63.66	45.675		
12,900.00	11,944.76	12,900.77	11,853.08	45.53	46.76	-88.47	-971.06	2,788.99	2,907.64	2,843.12	64.52	45.069		
13,000.00	11,945.84	13,000.77	11,855.00	46.17	47.42	-88.48	-1,071.03	2,789.96	2,907.71	2,842.27	65.45	44.429		
13,100.00	11,946.92	13,100.77	11,856.91	46.86	48.13	-88.50	-1,171.00	2,790.94	2,907.79	2,841.34	66.45	43.761		
13,200.00	11,948.01	13,200.76	11,858.83	47.59	48.89	-88.52	-1,270.98	2,791.92	2,907.87	2,840.35	67.51	43.071		
13,300.00	11,949.09	13,300.76	11,860.75	48.37	49.69	-88.53	-1,370.95	2,792.89	2,907.94	2,839.30	68.64	42.364		
13,400.00	11,950.17	13,400.76	11,862.67	49.20	50.53	-88.55	-1,470.92	2,793.87	2,908.02	2,838.19	69.83	41.644		
13,500.00	11,951.25	13,500.75	11,864.58	50.06	51.41	-88.57	-1,570.90	2,794.84	2,908.10	2,837.02	71.08	40.915		
13,600.00	11,952.33	13,600.75	11,866.50	50.97	52.33	-88.58	-1,670.87	2,795.82	2,908.17	2,835.80	72.38	40.181		
13,700.00	11,953.42	13,700.75	11,868.42	51.91	53.29	-88.60	-1,770.84	2,796.80	2,908.25	2,834.52	73.73	39.446		
13,800.00	11,954.50	13,800.74	11,870.34	52.88	54.27	-88.62	-1,870.82	2,797.77	2,908.33	2,833.20	75.13	38.712		
13,900.00	11,955.58	13,900.74	11,872.25	53.89	55.29	-88.63	-1,970.79	2,798.75	2,908.41	2,831.84	76.57	37.983		
14,000.00	11,956.66	14,000.74	11,874.17	54.93	56.34	-88.65	-2,070.76	2,799.72	2,908.49	2,830.43	78.06	37.260		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
14,100.00	11,957.75	14,100.73	11,876.09	56.00	57.42	-88.67	-2,170.74	2,800.70	2,908.57	2,828.98	79.59	36.545		
14,200.00	11,958.83	14,200.73	11,878.01	57.10	58.53	-88.68	-2,270.71	2,801.68	2,908.64	2,827.49	81.16	35.840		
14,300.00	11,959.91	14,300.73	11,879.92	58.22	59.66	-88.70	-2,370.68	2,802.65	2,908.72	2,825.96	82.76	35.146		
14,400.00	11,960.99	14,400.72	11,881.84	59.37	60.81	-88.72	-2,470.66	2,803.63	2,908.80	2,824.40	84.40	34.465		
14,500.00	11,962.08	14,500.72	11,883.76	60.54	61.99	-88.73	-2,570.63	2,804.60	2,908.88	2,822.81	86.07	33.797		
14,600.00	11,963.16	14,600.71	11,885.68	61.73	63.18	-88.75	-2,670.60	2,805.58	2,908.96	2,821.19	87.77	33.143		
14,700.00	11,964.24	14,700.71	11,887.59	62.94	64.40	-88.76	-2,770.58	2,806.56	2,909.04	2,819.54	89.50	32.504		
14,800.00	11,965.32	14,800.71	11,889.51	64.18	65.64	-88.78	-2,870.55	2,807.53	2,909.12	2,817.87	91.26	31.879		
14,900.00	11,966.41	14,900.70	11,891.43	65.43	66.89	-88.80	-2,970.52	2,808.51	2,909.20	2,816.17	93.04	31.269		
15,000.00	11,967.49	15,000.70	11,893.35	66.70	68.16	-88.81	-3,070.50	2,809.48	2,909.29	2,814.44	94.84	30.674		
15,100.00	11,968.57	15,100.70	11,895.26	67.99	69.45	-88.83	-3,170.47	2,810.46	2,909.37	2,812.69	96.67	30.095		
15,200.00	11,969.65	15,200.69	11,897.18	69.29	70.75	-88.85	-3,270.44	2,811.44	2,909.45	2,810.92	98.52	29.531		
15,300.00	11,970.74	15,300.69	11,899.10	70.60	72.07	-88.86	-3,370.42	2,812.41	2,909.53	2,809.14	100.39	28.981		
15,400.00	11,971.82	15,400.69	11,901.02	71.93	73.40	-88.88	-3,470.39	2,813.39	2,909.61	2,807.33	102.28	28.446		
15,500.00	11,972.90	15,500.68	11,902.93	73.28	74.74	-88.90	-3,570.36	2,814.36	2,909.69	2,805.50	104.19	27.926		
15,600.00	11,973.98	15,600.68	11,904.85	74.63	76.10	-88.91	-3,670.34	2,815.34	2,909.78	2,803.66	106.12	27.420		
15,700.00	11,975.07	15,700.68	11,906.77	76.00	77.47	-88.93	-3,770.31	2,816.31	2,909.86	2,801.80	108.06	26.929		
15,800.00	11,976.15	15,800.67	11,908.69	77.38	78.84	-88.95	-3,870.28	2,817.29	2,909.94	2,799.93	110.01	26.450		
15,900.00	11,977.23	15,900.67	11,910.60	78.77	80.23	-88.96	-3,970.26	2,818.27	2,910.02	2,798.04	111.99	25.986		
16,000.00	11,978.31	16,000.67	11,912.52	80.17	81.63	-88.98	-4,070.23	2,819.24	2,910.11	2,796.14	113.97	25.534		
16,100.00	11,979.40	16,100.66	11,914.44	81.57	83.04	-89.00	-4,170.20	2,820.22	2,910.19	2,794.22	115.97	25.094		
16,200.00	11,980.48	16,200.66	11,916.36	82.99	84.45	-89.01	-4,270.18	2,821.19	2,910.27	2,792.29	117.98	24.667		
16,300.00	11,981.56	16,300.65	11,918.27	84.42	85.88	-89.03	-4,370.15	2,822.17	2,910.36	2,790.36	120.00	24.252		
16,400.00	11,982.64	16,400.65	11,920.19	85.85	87.31	-89.04	-4,470.12	2,823.15	2,910.44	2,788.41	122.04	23.849		
16,500.00	11,983.73	16,500.65	11,922.11	87.29	88.75	-89.06	-4,570.10	2,824.12	2,910.53	2,786.45	124.08	23.457		
16,600.00	11,984.81	16,600.64	11,924.03	88.74	90.20	-89.08	-4,670.07	2,825.10	2,910.61	2,784.48	126.14	23.075		
16,700.00	11,985.89	16,700.64	11,925.94	90.20	91.66	-89.09	-4,770.04	2,826.07	2,910.70	2,782.50	128.20	22.704		
16,800.00	11,986.97	16,800.64	11,927.86	91.66	93.12	-89.11	-4,870.02	2,827.05	2,910.78	2,780.51	130.27	22.344		
16,900.00	11,988.06	16,900.63	11,929.78	93.13	94.58	-89.13	-4,969.99	2,828.03	2,910.87	2,778.51	132.35	21.993		
17,000.00	11,989.14	17,000.63	11,931.70	94.61	96.06	-89.14	-5,069.96	2,829.00	2,910.95	2,776.51	134.45	21.652		
17,100.00	11,990.22	17,100.63	11,933.61	96.09	97.54	-89.16	-5,169.94	2,829.98	2,911.04	2,774.50	136.54	21.319		
17,200.00	11,991.30	17,200.62	11,935.53	97.57	99.02	-89.18	-5,269.91	2,830.95	2,911.13	2,772.48	138.65	20.996		
17,300.00	11,992.39	17,300.62	11,937.45	99.06	100.51	-89.19	-5,369.88	2,831.93	2,911.21	2,770.45	140.76	20.682		
17,400.00	11,993.47	17,400.62	11,939.37	100.56	102.01	-89.21	-5,469.86	2,832.91	2,911.30	2,768.42	142.88	20.375		
17,500.00	11,994.55	17,500.61	11,941.28	102.06	103.51	-89.23	-5,569.83	2,833.88	2,911.39	2,766.38	145.01	20.077		
17,600.00	11,995.63	17,600.61	11,943.20	103.57	105.01	-89.24	-5,669.80	2,834.86	2,911.47	2,764.33	147.14	19.787		
17,700.00	11,996.72	17,700.61	11,945.12	105.08	106.52	-89.26	-5,769.78	2,835.83	2,911.56	2,762.28	149.28	19.504		
17,800.00	11,997.80	17,800.60	11,947.04	106.59	108.03	-89.28	-5,869.75	2,836.81	2,911.65	2,760.22	151.43	19.228		
17,900.00	11,998.88	17,900.60	11,948.95	108.11	109.55	-89.29	-5,969.72	2,837.79	2,911.74	2,758.16	153.58	18.959		
18,000.00	11,999.96	18,000.59	11,950.87	109.64	111.07	-89.31	-6,069.70	2,838.76	2,911.82	2,756.09	155.74	18.697		
18,100.00	12,001.05	18,100.59	11,952.79	111.16	112.59	-89.32	-6,169.67	2,839.74	2,911.91	2,754.01	157.90	18.442		
18,200.00	12,002.13	18,200.59	11,954.71	112.69	114.12	-89.34	-6,269.64	2,840.71	2,912.00	2,751.94	160.06	18.193		
18,300.00	12,003.21	18,300.58	11,956.62	114.23	115.65	-89.36	-6,369.62	2,841.69	2,912.09	2,749.85	162.24	17.950		
18,400.00	12,004.29	18,400.58	11,958.54	115.76	117.19	-89.37	-6,469.59	2,842.67	2,912.18	2,747.77	164.41	17.713		
18,500.00	12,005.38	18,500.58	11,960.46	117.30	118.73	-89.39	-6,569.56	2,843.64	2,912.27	2,745.68	166.59	17.482		
18,600.00	12,006.46	18,600.57	11,962.38	118.84	120.27	-89.41	-6,669.54	2,844.62	2,912.36	2,743.58	168.77	17.256		
18,700.00	12,007.54	18,700.57	11,964.29	120.39	121.81	-89.42	-6,769.51	2,845.59	2,912.45	2,741.48	170.96	17.036		
18,800.00	12,008.62	18,800.57	11,966.21	121.94	123.36	-89.44	-6,869.48	2,846.57	2,912.54	2,739.38	173.16	16.820		
18,900.00	12,009.71	18,900.56	11,968.13	123.49	124.91	-89.46	-6,969.46	2,847.55	2,912.63	2,737.28	175.35	16.610		
19,000.00	12,010.79	19,000.56	11,970.05	125.04	126.46	-89.47	-7,069.43	2,848.52	2,912.72	2,735.17	177.55	16.405		
19,100.00	12,011.87	19,100.56	11,971.96	126.60	128.01	-89.49	-7,169.40	2,849.50	2,912.81	2,733.06	179.75	16.204		
19,200.00	12,012.95	19,200.55	11,973.88	128.16	129.57	-89.51	-7,269.38	2,850.47	2,912.90	2,730.94	181.96	16.008		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
19,300.00	12,014.03	19,300.55	11,975.80	129.72	131.13	-89.52	-7,369.35	2,851.45	2,912.99	2,728.82	184.17	15.817		
19,400.00	12,015.12	19,400.55	11,977.72	131.28	132.69	-89.54	-7,469.32	2,852.43	2,913.08	2,726.70	186.38	15.630		
19,500.00	12,016.20	19,500.54	11,979.63	132.85	134.26	-89.55	-7,569.30	2,853.40	2,913.17	2,724.58	188.60	15.447		
19,600.00	12,017.28	19,600.54	11,981.55	134.42	135.82	-89.57	-7,669.27	2,854.38	2,913.27	2,722.45	190.82	15.267		
19,700.00	12,018.36	19,700.53	11,983.47	135.98	137.39	-89.59	-7,769.24	2,855.35	2,913.36	2,720.32	193.04	15.092		
19,800.00	12,019.45	19,800.53	11,985.39	137.56	138.96	-89.60	-7,869.22	2,856.33	2,913.45	2,718.19	195.26	14.921		
19,900.00	12,020.53	19,900.53	11,987.30	139.13	140.53	-89.62	-7,969.19	2,857.31	2,913.54	2,716.06	197.49	14.753		
20,000.00	12,021.61	20,000.52	11,989.22	140.70	142.10	-89.64	-8,069.16	2,858.28	2,913.64	2,713.92	199.72	14.589		
20,100.00	12,022.69	20,100.52	11,991.14	142.28	143.68	-89.65	-8,169.14	2,859.26	2,913.73	2,711.78	201.95	14.428		
20,200.00	12,023.78	20,200.52	11,993.06	143.86	145.26	-89.67	-8,269.11	2,860.23	2,913.82	2,709.64	204.18	14.271		
20,300.00	12,024.86	20,300.51	11,994.97	145.44	146.84	-89.69	-8,369.08	2,861.21	2,913.92	2,707.50	206.42	14.117		
20,400.00	12,025.94	20,400.51	11,996.89	147.02	148.42	-89.70	-8,469.06	2,862.18	2,914.01	2,705.35	208.66	13.966		
20,500.00	12,027.02	20,500.51	11,998.81	148.61	150.00	-89.72	-8,569.03	2,863.16	2,914.11	2,703.21	210.90	13.818		
20,600.00	12,028.11	20,600.50	12,000.73	150.19	151.58	-89.74	-8,669.00	2,864.14	2,914.20	2,701.06	213.14	13.673		
20,700.00	12,029.19	20,700.50	12,002.64	151.78	153.17	-89.75	-8,768.98	2,865.11	2,914.29	2,698.91	215.38	13.531		
20,800.00	12,030.27	20,800.50	12,004.56	153.36	154.75	-89.77	-8,868.95	2,866.09	2,914.39	2,696.76	217.63	13.391		
20,900.00	12,031.35	20,900.49	12,006.48	154.95	156.34	-89.78	-8,968.92	2,867.06	2,914.48	2,694.61	219.88	13.255		
21,000.00	12,032.44	21,000.49	12,008.40	156.54	157.93	-89.80	-9,068.90	2,868.04	2,914.58	2,692.45	222.13	13.121		
21,100.00	12,033.52	21,100.49	12,010.31	158.14	159.52	-89.82	-9,168.87	2,869.02	2,914.68	2,690.29	224.38	12.990		
21,200.00	12,034.60	21,200.48	12,012.23	159.73	161.11	-89.83	-9,268.84	2,869.99	2,914.77	2,688.14	226.63	12.861		
21,300.00	12,035.68	21,300.48	12,014.15	161.32	162.70	-89.85	-9,368.82	2,870.97	2,914.87	2,685.98	228.89	12.735		
21,400.00	12,036.77	21,400.47	12,016.07	162.92	164.30	-89.87	-9,468.79	2,871.94	2,914.96	2,683.82	231.15	12.611		
21,500.00	12,037.85	21,500.47	12,017.98	164.51	165.89	-89.88	-9,568.76	2,872.92	2,915.06	2,681.66	233.40	12.489		
21,600.00	12,038.93	21,600.47	12,019.90	166.11	167.49	-89.90	-9,668.74	2,873.90	2,915.16	2,679.49	235.66	12.370		
21,700.00	12,040.01	21,700.46	12,021.82	167.71	169.09	-89.92	-9,768.71	2,874.87	2,915.25	2,677.33	237.93	12.253		
21,800.00	12,041.10	21,800.46	12,023.74	169.31	170.69	-89.93	-9,868.68	2,875.85	2,915.35	2,675.16	240.19	12.138		
21,900.00	12,042.18	21,900.46	12,025.65	170.91	172.28	-89.95	-9,968.66	2,876.82	2,915.45	2,673.00	242.45	12.025		
22,000.00	12,043.26	22,000.45	12,027.57	172.51	173.88	-89.97	-10,068.63	2,877.80	2,915.55	2,670.83	244.72	11.914		
22,100.00	12,044.34	22,100.45	12,029.49	174.11	175.49	-89.98	-10,168.60	2,878.78	2,915.64	2,668.66	246.99	11.805		
22,200.00	12,045.43	22,200.45	12,031.41	175.72	177.09	-90.00	-10,268.58	2,879.75	2,915.74	2,666.49	249.25	11.698		
22,300.00	12,046.51	22,300.44	12,033.32	177.32	178.69	-90.01	-10,368.55	2,880.73	2,915.84	2,664.32	251.52	11.593		
22,400.00	12,047.59	22,400.44	12,035.24	178.93	180.30	-90.03	-10,468.52	2,881.70	2,915.94	2,662.15	253.79	11.489		
22,500.00	12,048.67	22,500.44	12,037.16	180.53	181.90	-90.05	-10,568.50	2,882.68	2,916.04	2,659.97	256.07	11.388		
22,572.67	12,049.46	22,573.10	12,038.55	181.70	183.07	-90.06	-10,641.15	2,883.39	2,916.11	2,658.39	257.72	11.315 SF		



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	87.65	80.18	1,955.77	1,957.46					
100.00	100.00	86.50	86.50	0.14	0.12	87.65	80.18	1,955.77	1,957.41	1,957.23	0.19	N/A		
200.00	200.00	186.50	186.50	0.50	0.45	87.65	80.18	1,955.77	1,957.41	1,956.74	0.67	2,904.808		
300.00	300.00	286.50	286.50	0.86	0.81	87.65	80.18	1,955.77	1,957.41	1,956.23	1.18	1,658.213		
400.00	400.00	386.50	386.50	1.22	1.17	87.65	80.18	1,955.77	1,957.41	1,955.73	1.69	1,160.126		
500.00	500.00	486.50	486.50	1.58	1.53	87.65	80.18	1,955.77	1,957.41	1,955.22	2.19	892.119		
600.00	600.00	586.50	586.50	1.93	1.89	87.65	80.18	1,955.77	1,957.41	1,954.71	2.70	724.694		
700.00	700.00	686.50	686.50	2.29	2.24	87.65	80.18	1,955.77	1,957.41	1,954.20	3.21	610.177		
800.00	800.00	786.50	786.50	2.65	2.60	87.65	80.18	1,955.77	1,957.41	1,953.70	3.71	526.912		
900.00	900.00	886.50	886.50	3.01	2.96	87.65	80.18	1,955.77	1,957.41	1,953.19	4.22	463.643		
1,000.00	1,000.00	986.50	986.50	3.37	3.32	87.65	80.18	1,955.77	1,957.41	1,952.68	4.73	413.939		
1,100.00	1,100.00	1,086.50	1,086.50	3.73	3.68	87.65	80.18	1,955.77	1,957.41	1,952.18	5.24	373.859		
1,200.00	1,200.00	1,186.50	1,186.50	4.08	4.04	87.65	80.18	1,955.77	1,957.41	1,951.67	5.74	340.856		
1,300.00	1,300.00	1,286.50	1,286.50	4.44	4.39	87.65	80.18	1,955.77	1,957.41	1,951.16	6.25	313.207		
1,400.00	1,400.00	1,386.50	1,386.50	4.80	4.75	87.65	80.18	1,955.77	1,957.41	1,950.66	6.76	289.707		
1,500.00	1,500.00	1,486.50	1,486.50	5.16	5.11	87.65	80.18	1,955.77	1,957.41	1,950.15	7.26	269.487		
1,600.00	1,600.00	1,586.50	1,586.50	5.52	5.47	87.65	80.18	1,955.77	1,957.41	1,949.64	7.77	251.905		
1,700.00	1,700.00	1,686.50	1,686.50	5.88	5.83	87.65	80.18	1,955.77	1,957.41	1,949.14	8.28	236.477		
1,800.00	1,800.00	1,786.50	1,786.50	6.24	6.19	87.65	80.18	1,955.77	1,957.41	1,948.63	8.78	222.830		
1,900.00	1,900.00	1,886.50	1,886.50	6.59	6.55	87.65	80.18	1,955.77	1,957.41	1,948.12	9.29	210.672		
2,000.00	2,000.00	1,986.50	1,986.50	6.95	6.90	87.65	80.18	1,955.77	1,957.41	1,947.61	9.80	199.772		
2,100.00	2,100.00	2,086.50	2,086.50	7.31	7.26	87.65	80.18	1,955.77	1,957.41	1,947.11	10.31	189.944		
2,200.00	2,200.00	2,186.50	2,186.50	7.67	7.62	87.65	80.18	1,955.77	1,957.41	1,946.60	10.81	181.038		
2,300.00	2,300.00	2,286.50	2,286.50	8.03	7.98	87.65	80.18	1,955.77	1,957.41	1,946.09	11.32	172.930		
2,400.00	2,400.00	2,386.50	2,386.50	8.39	8.34	87.65	80.18	1,955.77	1,957.41	1,945.59	11.83	165.517		
2,500.00	2,500.00	2,486.50	2,486.50	8.74	8.70	87.65	80.18	1,955.77	1,957.41	1,945.08	12.33	158.713		
2,600.00	2,600.00	2,586.50	2,586.50	9.10	9.05	87.65	80.18	1,955.77	1,957.41	1,944.57	12.84	152.447		
2,700.00	2,700.00	2,686.50	2,686.50	9.46	9.41	87.65	80.18	1,955.77	1,957.41	1,944.07	13.35	146.657		
2,800.00	2,800.00	2,786.50	2,786.50	9.82	9.77	87.65	80.18	1,955.77	1,957.41	1,943.56	13.85	141.290		
2,900.00	2,900.00	2,886.50	2,886.50	10.18	10.13	87.65	80.18	1,955.77	1,957.41	1,943.05	14.36	136.302		
3,000.00	3,000.00	2,986.50	2,986.50	10.54	10.49	87.65	80.18	1,955.77	1,957.41	1,942.55	14.87	131.655		
3,100.00	3,100.00	3,086.50	3,086.50	10.90	10.85	87.65	80.18	1,955.77	1,957.41	1,942.04	15.37	127.314		
3,200.00	3,200.00	3,186.50	3,186.50	11.25	11.21	87.65	80.18	1,955.77	1,957.41	1,941.53	15.88	123.250		
3,300.00	3,300.00	3,286.50	3,286.50	11.61	11.56	87.65	80.18	1,955.77	1,957.41	1,941.02	16.39	119.437		
3,400.00	3,400.00	3,386.50	3,386.50	11.97	11.92	87.65	80.18	1,955.77	1,957.41	1,940.52	16.90	115.853		
3,500.00	3,500.00	3,486.50	3,486.50	12.33	12.28	87.65	80.18	1,955.77	1,957.41	1,940.01	17.40	112.479		
3,600.00	3,600.00	3,586.50	3,586.50	12.69	12.64	87.65	80.18	1,955.77	1,957.41	1,939.50	17.91	109.295		
3,700.00	3,700.00	3,686.50	3,686.50	13.05	13.00	87.65	80.18	1,955.77	1,957.41	1,939.00	18.42	106.286		
3,800.00	3,800.00	3,786.50	3,786.50	13.41	13.36	87.65	80.18	1,955.77	1,957.41	1,938.49	18.92	103.439		
3,900.00	3,900.00	3,886.50	3,886.50	13.76	13.72	87.65	80.18	1,955.77	1,957.41	1,937.98	19.43	100.740		
4,000.00	4,000.00	3,986.50	3,986.50	14.12	14.07	87.65	80.18	1,955.77	1,957.41	1,937.48	19.94	98.178		
4,100.00	4,100.00	4,086.50	4,086.50	14.48	14.43	87.65	80.18	1,955.77	1,957.41	1,936.97	20.44	95.744		
4,200.00	4,200.00	4,186.50	4,186.50	14.84	14.79	87.65	80.18	1,955.77	1,957.41	1,936.46	20.95	93.427		
4,300.00	4,300.00	4,286.50	4,286.50	15.20	15.15	87.65	80.18	1,955.77	1,957.41	1,935.95	21.46	91.220		
4,400.00	4,400.00	4,386.50	4,386.50	15.56	15.51	87.65	80.18	1,955.77	1,957.41	1,935.45	21.97	89.115		
4,500.00	4,500.00	4,486.50	4,486.50	15.91	15.87	87.65	80.18	1,955.77	1,957.41	1,934.94	22.47	87.104		
4,600.00	4,600.00	4,586.50	4,586.50	16.27	16.22	87.65	80.18	1,955.77	1,957.41	1,934.43	22.98	85.183		
4,700.00	4,700.00	4,686.50	4,686.50	16.63	16.58	87.65	80.18	1,955.77	1,957.41	1,933.93	23.49	83.344		
4,800.00	4,800.00	4,786.50	4,786.50	16.99	16.94	87.65	80.18	1,955.77	1,957.41	1,933.42	23.99	81.583		
4,900.00	4,900.00	4,886.50	4,886.50	17.35	17.30	87.65	80.18	1,955.77	1,957.41	1,932.91	24.50	79.895		
5,000.00	5,000.00	4,986.50	4,986.50	17.71	17.66	87.65	80.18	1,955.77	1,957.41	1,932.41	25.01	78.275		
5,100.00	5,100.00	5,086.50	5,086.50	18.07	18.02	87.65	80.18	1,955.77	1,957.41	1,931.90	25.51	76.720		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,200.00	5,186.50	5,186.50	18.42	18.38	87.65	80.18	1,955.77	1,957.41	1,931.39	26.02	75.225		
5,300.00	5,300.00	5,286.50	5,286.50	18.78	18.73	87.65	80.18	1,955.77	1,957.41	1,930.89	26.53	73.787		
5,400.00	5,400.00	5,386.50	5,386.50	19.14	19.09	87.65	80.18	1,955.77	1,957.41	1,930.38	27.03	72.404		
5,500.00	5,500.00	5,486.50	5,486.50	19.50	19.45	87.65	80.18	1,955.77	1,957.41	1,929.87	27.54	71.071 CC, ES		
5,600.00	5,599.99	5,561.13	5,561.13	19.86	19.72	120.27	80.48	1,956.15	1,958.63	1,930.65	27.98	70.002		
5,700.00	5,699.91	5,631.73	5,631.70	20.21	19.97	120.26	81.59	1,957.55	1,962.65	1,934.26	28.40	69.108		
5,800.00	5,799.69	5,700.00	5,699.91	20.57	20.21	120.23	83.43	1,959.88	1,969.49	1,940.68	28.81	68.370		
5,833.01	5,832.58	5,725.35	5,725.22	20.69	20.30	120.22	84.30	1,960.98	1,972.36	1,943.41	28.95	68.135		
5,900.00	5,899.32	5,772.37	5,772.14	20.92	20.46	120.27	86.20	1,963.38	1,978.83	1,949.61	29.22	67.723		
6,000.00	5,998.94	5,842.41	5,841.95	21.28	20.71	120.33	89.69	1,967.80	1,989.71	1,960.09	29.62	67.174		
6,100.00	6,098.56	5,900.00	5,899.27	21.64	20.91	120.36	93.16	1,972.19	2,002.12	1,972.15	29.97	66.800		
6,200.00	6,198.18	5,981.82	5,980.55	22.00	21.20	120.37	99.00	1,979.58	2,015.88	1,985.47	30.40	66.302		
6,300.00	6,297.80	6,058.85	6,056.87	22.35	21.48	120.36	105.43	1,987.72	2,031.09	2,000.27	30.82	65.907		
6,400.00	6,397.43	6,157.62	6,154.69	22.71	21.83	120.34	113.95	1,998.49	2,046.69	2,015.38	31.31	65.362		
6,500.00	6,497.05	6,256.40	6,252.50	23.07	22.18	120.32	122.47	2,009.27	2,062.30	2,030.49	31.81	64.832		
6,600.00	6,596.67	6,355.17	6,350.31	23.44	22.54	120.30	130.99	2,020.05	2,077.90	2,045.60	32.31	64.315		
6,700.00	6,696.29	6,453.94	6,448.12	23.80	22.90	120.28	139.51	2,030.83	2,093.51	2,060.70	32.81	63.812		
6,800.00	6,795.91	6,552.71	6,545.93	24.16	23.26	120.26	148.03	2,041.60	2,109.11	2,075.81	33.31	63.322		
6,900.00	6,895.53	6,651.49	6,643.75	24.52	23.62	120.24	156.55	2,052.38	2,124.72	2,090.91	33.81	62.844		
7,000.00	6,995.15	6,750.26	6,741.56	24.89	23.99	120.22	165.07	2,063.16	2,140.33	2,106.01	34.31	62.379		
7,100.00	7,094.77	6,849.03	6,839.37	25.25	24.35	120.20	173.59	2,073.94	2,155.93	2,121.12	34.82	61.925		
7,200.00	7,194.39	6,947.80	6,937.18	25.61	24.72	120.19	182.11	2,084.71	2,171.54	2,136.22	35.32	61.482		
7,300.00	7,294.01	7,046.58	7,035.00	25.98	25.09	120.17	190.63	2,095.49	2,187.14	2,151.32	35.82	61.051		
7,400.00	7,393.63	7,145.35	7,132.81	26.35	25.46	120.15	199.15	2,106.27	2,202.75	2,166.42	36.33	60.630		
7,500.00	7,493.25	7,244.12	7,230.62	26.71	25.83	120.13	207.67	2,117.05	2,218.36	2,181.52	36.84	60.219		
7,600.00	7,592.87	7,342.89	7,328.43	27.08	26.20	120.11	216.19	2,127.82	2,233.96	2,196.62	37.35	59.818		
7,700.00	7,692.49	7,441.66	7,426.24	27.44	26.58	120.10	224.71	2,138.60	2,249.57	2,211.72	37.85	59.427		
7,800.00	7,792.11	7,540.44	7,524.06	27.81	26.95	120.08	233.23	2,149.38	2,265.18	2,226.82	38.36	59.045		
7,900.00	7,891.73	7,639.21	7,621.87	28.18	27.33	120.06	241.75	2,160.16	2,280.79	2,241.91	38.87	58.672		
8,000.00	7,991.35	7,737.98	7,719.68	28.55	27.71	120.05	250.27	2,170.93	2,296.39	2,257.01	39.38	58.307		
8,100.00	8,090.97	7,854.93	7,835.51	28.92	28.15	120.03	260.25	2,183.55	2,311.93	2,271.96	39.97	57.846		
8,200.00	8,190.59	8,049.61	8,029.11	29.28	28.88	120.10	272.82	2,199.46	2,324.72	2,283.90	40.82	56.950		
8,226.93	8,217.42	8,102.31	8,081.68	29.38	29.08	120.14	275.17	2,202.43	2,327.47	2,286.43	41.04	56.710		
8,300.00	8,290.27	8,245.80	8,225.01	29.65	29.60	120.36	279.28	2,207.64	2,333.06	2,291.44	41.62	56.057		
8,400.00	8,390.11	8,397.42	8,376.61	30.02	30.13	120.56	280.18	2,208.77	2,336.44	2,294.18	42.26	55.290		
8,500.00	8,490.07	8,497.37	8,476.57	30.38	30.49	120.64	280.18	2,208.77	2,337.91	2,295.14	42.76	54.672		
8,559.94	8,550.00	8,557.31	8,536.50	30.59	30.70	88.03	280.18	2,208.77	2,338.15	2,295.08	43.06	54.294		
8,600.00	8,590.07	8,597.37	8,576.57	30.73	30.84	88.03	280.18	2,208.77	2,338.15	2,294.88	43.27	54.042		
8,700.00	8,690.07	8,697.37	8,676.57	31.09	31.19	88.03	280.18	2,208.77	2,338.15	2,294.38	43.77	53.421		
8,800.00	8,790.07	8,797.37	8,776.57	31.44	31.55	88.03	280.18	2,208.77	2,338.15	2,293.87	44.27	52.814		
8,900.00	8,890.07	8,897.37	8,876.57	31.80	31.90	88.03	280.18	2,208.77	2,338.15	2,293.37	44.77	52.221		
9,000.00	8,990.07	8,997.37	8,976.57	32.15	32.25	88.03	280.18	2,208.77	2,338.15	2,292.87	45.28	51.641		
9,100.00	9,090.07	9,097.37	9,076.57	32.51	32.61	88.03	280.18	2,208.77	2,338.15	2,292.36	45.78	51.073		
9,200.00	9,190.07	9,197.37	9,176.57	32.87	32.96	88.03	280.18	2,208.77	2,338.15	2,291.86	46.28	50.518		
9,300.00	9,290.07	9,297.37	9,276.57	33.22	33.31	88.03	280.18	2,208.77	2,338.15	2,291.36	46.79	49.974		
9,400.00	9,390.07	9,397.37	9,376.57	33.58	33.67	88.03	280.18	2,208.77	2,338.15	2,290.86	47.29	49.442		
9,500.00	9,490.07	9,497.37	9,476.57	33.93	34.02	88.03	280.18	2,208.77	2,338.15	2,290.35	47.79	48.922		
9,600.00	9,590.07	9,597.37	9,576.57	34.29	34.37	88.03	280.18	2,208.77	2,338.15	2,289.85	48.30	48.412		
9,700.00	9,690.07	9,697.37	9,676.57	34.65	34.73	88.03	280.18	2,208.77	2,338.15	2,289.34	48.80	47.912		
9,800.00	9,790.07	9,797.37	9,776.57	35.00	35.08	88.03	280.18	2,208.77	2,338.15	2,288.84	49.30	47.423		
9,900.00	9,890.07	9,897.37	9,876.57	35.36	35.44	88.03	280.18	2,208.77	2,338.15	2,288.34	49.81	46.943		
10,000.00	9,990.07	9,997.37	9,976.57	35.71	35.79	88.03	280.18	2,208.77	2,338.15	2,287.83	50.31	46.473		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,090.07	10,097.37	10,076.57	36.07	36.14	88.03	280.18	2,208.77	2,338.15	2,287.33	50.82	46.012		
10,200.00	10,190.07	10,197.37	10,176.57	36.43	36.50	88.03	280.18	2,208.77	2,338.15	2,286.83	51.32	45.560		
10,300.00	10,290.07	10,297.37	10,276.57	36.78	36.85	88.03	280.18	2,208.77	2,338.15	2,286.32	51.82	45.117		
10,400.00	10,390.07	10,397.37	10,376.57	37.14	37.21	88.03	280.18	2,208.77	2,338.15	2,285.82	52.33	44.683		
10,500.00	10,490.07	10,497.37	10,476.57	37.50	37.56	88.03	280.18	2,208.77	2,338.15	2,285.31	52.83	44.256		
10,600.00	10,590.07	10,597.37	10,576.57	37.85	37.92	88.03	280.18	2,208.77	2,338.15	2,284.81	53.34	43.838		
10,700.00	10,690.07	10,697.37	10,676.57	38.21	38.27	88.03	280.18	2,208.77	2,338.15	2,284.31	53.84	43.428		
10,800.00	10,790.07	10,797.37	10,776.57	38.57	38.63	88.03	280.18	2,208.77	2,338.15	2,283.80	54.34	43.025		
10,900.00	10,890.07	10,897.37	10,876.57	38.92	38.98	88.03	280.18	2,208.77	2,338.15	2,283.30	54.85	42.629		
11,000.00	10,990.07	10,997.37	10,976.57	39.28	39.34	88.03	280.18	2,208.77	2,338.15	2,282.79	55.35	42.241		
11,100.00	11,090.07	11,097.37	11,076.57	39.64	39.69	88.03	280.18	2,208.77	2,338.15	2,282.29	55.86	41.859		
11,200.00	11,190.07	11,197.37	11,176.57	39.99	40.05	88.03	280.18	2,208.77	2,338.15	2,281.78	56.36	41.485		
11,300.00	11,290.07	11,297.37	11,276.57	40.35	40.40	88.03	280.18	2,208.77	2,338.15	2,281.28	56.87	41.117		
11,374.94	11,365.00	11,372.31	11,351.50	40.62	40.67	88.03	280.18	2,208.77	2,338.15	2,280.90	57.24	40.845		
11,400.00	11,390.06	11,397.36	11,376.56	40.70	40.76	-91.47	280.18	2,208.77	2,338.16	2,280.79	57.37	40.758		
11,450.00	11,439.85	11,447.16	11,426.35	40.86	40.93	-91.57	280.18	2,208.77	2,338.28	2,280.67	57.60	40.594		
11,500.00	11,489.07	11,496.38	11,475.57	41.01	41.11	-91.75	280.18	2,208.77	2,338.53	2,280.70	57.83	40.438		
11,550.00	11,537.35	11,544.66	11,523.85	41.15	41.28	-92.01	280.18	2,208.77	2,338.97	2,280.92	58.05	40.291		
11,600.00	11,584.32	11,591.63	11,570.82	41.28	41.45	-92.34	280.18	2,208.77	2,339.67	2,281.40	58.26	40.156		
11,650.00	11,629.62	11,643.31	11,622.49	41.41	41.63	-92.76	279.42	2,208.78	2,340.66	2,282.18	58.48	40.025		
11,700.00	11,672.90	11,702.91	11,681.75	41.53	41.81	-93.24	273.27	2,208.83	2,341.83	2,283.14	58.69	39.899		
11,750.00	11,713.85	11,765.89	11,743.30	41.63	42.00	-93.71	260.11	2,208.95	2,343.11	2,284.22	58.90	39.782		
11,800.00	11,752.13	11,832.55	11,806.47	41.73	42.18	-94.17	238.93	2,209.13	2,344.47	2,285.37	59.10	39.672		
11,850.00	11,787.47	11,903.13	11,870.19	41.82	42.35	-94.61	208.67	2,209.40	2,345.83	2,286.55	59.29	39.568		
11,900.00	11,819.60	11,977.75	11,932.96	41.92	42.51	-95.02	168.43	2,209.75	2,347.14	2,287.68	59.46	39.471		
11,950.00	11,848.26	12,056.34	11,992.83	42.02	42.65	-95.39	117.62	2,210.20	2,348.34	2,288.70	59.64	39.377		
12,000.00	11,873.25	12,138.57	12,047.41	42.13	42.76	-95.69	56.21	2,210.74	2,349.33	2,289.53	59.81	39.283		
12,050.00	11,894.37	12,223.82	12,094.13	42.24	42.85	-95.92	-15.01	2,211.36	2,350.07	2,290.09	59.98	39.181		
12,100.00	11,911.46	12,311.17	12,130.50	42.35	43.05	-96.05	-94.33	2,212.06	2,350.49	2,290.33	60.17	39.066		
12,150.00	11,924.39	12,399.45	12,154.58	42.47	43.26	-96.07	-179.16	2,212.81	2,350.57	2,290.20	60.37	38.934		
12,200.00	11,933.06	12,487.37	12,165.35	42.59	43.49	-95.99	-266.33	2,213.57	2,350.30	2,289.70	60.60	38.783		
12,250.00	11,937.42	12,545.33	12,166.42	42.72	43.65	-95.92	-324.28	2,214.08	2,349.94	2,289.14	60.80	38.651		
12,267.34	11,937.91	12,562.67	12,166.65	42.76	43.69	-95.92	-341.62	2,214.23	2,349.91	2,289.05	60.86	38.610		
12,268.73	11,937.92	12,564.06	12,166.67	42.76	43.70	-95.92	-343.01	2,214.25	2,349.91	2,289.04	60.87	38.607		
12,300.00	11,938.26	12,595.33	12,167.08	42.84	43.79	-95.92	-374.27	2,214.52	2,349.92	2,288.94	60.98	38.534		
12,400.00	11,939.35	12,695.33	12,168.40	43.15	44.13	-95.92	-474.26	2,215.40	2,349.94	2,288.52	61.42	38.258		
12,500.00	11,940.43	12,795.33	12,169.72	43.51	44.52	-95.93	-574.24	2,216.28	2,349.97	2,288.02	61.95	37.934		
12,600.00	11,941.51	12,895.33	12,171.03	43.93	44.97	-95.94	-674.23	2,217.16	2,349.99	2,287.44	62.56	37.566		
12,700.00	11,942.59	12,995.33	12,172.35	44.41	45.47	-95.94	-774.22	2,218.03	2,350.02	2,286.78	63.24	37.159		
12,800.00	11,943.68	13,095.33	12,173.67	44.94	46.03	-95.95	-874.21	2,218.91	2,350.04	2,286.04	64.01	36.715		
12,900.00	11,944.76	13,195.33	12,174.98	45.53	46.64	-95.95	-974.19	2,219.79	2,350.07	2,285.22	64.85	36.241		
13,000.00	11,945.84	13,295.33	12,176.30	46.17	47.30	-95.96	-1,074.18	2,220.67	2,350.09	2,284.34	65.76	35.739		
13,100.00	11,946.92	13,395.33	12,177.62	46.86	48.00	-95.96	-1,174.17	2,221.55	2,350.12	2,283.38	66.74	35.216		
13,200.00	11,948.01	13,495.33	12,178.93	47.59	48.75	-95.97	-1,274.15	2,222.43	2,350.14	2,282.36	67.78	34.673		
13,300.00	11,949.09	13,595.33	12,180.25	48.37	49.55	-95.98	-1,374.14	2,223.31	2,350.17	2,281.28	68.89	34.116		
13,400.00	11,950.17	13,695.33	12,181.57	49.20	50.39	-95.98	-1,474.13	2,224.18	2,350.20	2,280.14	70.05	33.548		
13,500.00	11,951.25	13,795.33	12,182.89	50.06	51.26	-95.99	-1,574.12	2,225.06	2,350.22	2,278.94	71.28	32.973		
13,600.00	11,952.33	13,895.33	12,184.20	50.97	52.17	-95.99	-1,674.10	2,225.94	2,350.25	2,277.69	72.56	32.392		
13,700.00	11,953.42	13,995.33	12,185.52	51.91	53.12	-96.00	-1,774.09	2,226.82	2,350.27	2,276.39	73.88	31.810		
13,800.00	11,954.50	14,095.33	12,186.84	52.88	54.11	-96.00	-1,874.08	2,227.70	2,350.30	2,275.03	75.26	31.228		
13,900.00	11,955.58	14,195.33	12,188.15	53.89	55.12	-96.01	-1,974.06	2,228.58	2,350.32	2,273.64	76.68	30.649		
14,000.00	11,956.66	14,295.32	12,189.47	54.93	56.17	-96.02	-2,074.05	2,229.46	2,350.35	2,272.20	78.15	30.075		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
14,100.00	11,957.75	14,395.32	12,190.79	56.00	57.24	-96.02	-2,174.04	2,230.33	2,350.37	2,270.71	79.66	29.506		
14,200.00	11,958.83	14,495.32	12,192.10	57.10	58.34	-96.03	-2,274.03	2,231.21	2,350.40	2,269.19	81.20	28.945		
14,300.00	11,959.91	14,595.32	12,193.42	58.22	59.47	-96.03	-2,374.01	2,232.09	2,350.42	2,267.64	82.79	28.392		
14,400.00	11,960.99	14,695.32	12,194.74	59.37	60.62	-96.04	-2,474.00	2,232.97	2,350.45	2,266.05	84.40	27.848		
14,500.00	11,962.08	14,795.32	12,196.06	60.54	61.79	-96.04	-2,573.99	2,233.85	2,350.47	2,264.42	86.05	27.315		
14,600.00	11,963.16	14,895.32	12,197.37	61.73	62.98	-96.05	-2,673.97	2,234.73	2,350.50	2,262.77	87.73	26.792		
14,700.00	11,964.24	14,995.32	12,198.69	62.94	64.20	-96.06	-2,773.96	2,235.61	2,350.53	2,261.09	89.44	26.281		
14,800.00	11,965.32	15,095.32	12,200.01	64.18	65.43	-96.06	-2,873.95	2,236.48	2,350.55	2,259.38	91.18	25.781		
14,900.00	11,966.41	15,195.32	12,201.32	65.43	66.68	-96.07	-2,973.94	2,237.36	2,350.58	2,257.64	92.94	25.292		
15,000.00	11,967.49	15,295.32	12,202.64	66.70	67.95	-96.07	-3,073.92	2,238.24	2,350.60	2,255.88	94.72	24.816		
15,100.00	11,968.57	15,395.32	12,203.96	67.99	69.24	-96.08	-3,173.91	2,239.12	2,350.63	2,254.10	96.53	24.351		
15,200.00	11,969.65	15,495.32	12,205.27	69.29	70.54	-96.08	-3,273.90	2,240.00	2,350.65	2,252.29	98.36	23.898		
15,300.00	11,970.74	15,595.32	12,206.59	70.60	71.85	-96.09	-3,373.88	2,240.88	2,350.68	2,250.47	100.21	23.457		
15,400.00	11,971.82	15,695.32	12,207.91	71.93	73.18	-96.10	-3,473.87	2,241.76	2,350.70	2,248.62	102.08	23.027		
15,500.00	11,972.90	15,795.32	12,209.22	73.28	74.52	-96.10	-3,573.86	2,242.63	2,350.73	2,246.76	103.97	22.609		
15,600.00	11,973.98	15,895.32	12,210.54	74.63	75.88	-96.11	-3,673.85	2,243.51	2,350.76	2,244.88	105.88	22.203		
15,700.00	11,975.07	15,995.32	12,211.86	76.00	77.24	-96.11	-3,773.83	2,244.39	2,350.78	2,242.98	107.80	21.807		
15,800.00	11,976.15	16,095.32	12,213.18	77.38	78.62	-96.12	-3,873.82	2,245.27	2,350.81	2,241.07	109.74	21.422		
15,900.00	11,977.23	16,195.32	12,214.49	78.77	80.01	-96.12	-3,973.81	2,246.15	2,350.83	2,239.14	111.69	21.048		
16,000.00	11,978.31	16,295.32	12,215.81	80.17	81.40	-96.13	-4,073.80	2,247.03	2,350.86	2,237.20	113.66	20.684		
16,100.00	11,979.40	16,395.32	12,217.13	81.57	82.81	-96.14	-4,173.78	2,247.91	2,350.89	2,235.25	115.64	20.330		
16,200.00	11,980.48	16,495.32	12,218.44	82.99	84.22	-96.14	-4,273.77	2,248.78	2,350.91	2,233.28	117.63	19.986		
16,300.00	11,981.56	16,595.32	12,219.76	84.42	85.65	-96.15	-4,373.76	2,249.66	2,350.94	2,231.30	119.63	19.651		
16,400.00	11,982.64	16,695.32	12,221.08	85.85	87.08	-96.15	-4,473.74	2,250.54	2,350.96	2,229.31	121.65	19.326		
16,500.00	11,983.73	16,795.32	12,222.39	87.29	88.52	-96.16	-4,573.73	2,251.42	2,350.99	2,227.31	123.68	19.009		
16,600.00	11,984.81	16,895.32	12,223.71	88.74	89.97	-96.16	-4,673.72	2,252.30	2,351.02	2,225.30	125.71	18.701		
16,700.00	11,985.89	16,995.32	12,225.03	90.20	91.42	-96.17	-4,773.71	2,253.18	2,351.04	2,223.28	127.76	18.402		
16,800.00	11,986.97	17,095.32	12,226.35	91.66	92.88	-96.17	-4,873.69	2,254.06	2,351.07	2,221.25	129.82	18.111		
16,900.00	11,988.06	17,195.32	12,227.66	93.13	94.35	-96.18	-4,973.68	2,254.93	2,351.09	2,219.21	131.88	17.827		
17,000.00	11,989.14	17,295.32	12,228.98	94.61	95.82	-96.19	-5,073.67	2,255.81	2,351.12	2,217.17	133.95	17.552		
17,100.00	11,990.22	17,395.32	12,230.30	96.09	97.30	-96.19	-5,173.65	2,256.69	2,351.15	2,215.11	136.04	17.283		
17,200.00	11,991.30	17,495.32	12,231.61	97.57	98.78	-96.20	-5,273.64	2,257.57	2,351.17	2,213.05	138.12	17.022		
17,300.00	11,992.39	17,595.32	12,232.93	99.06	100.27	-96.20	-5,373.63	2,258.45	2,351.20	2,210.98	140.22	16.768		
17,400.00	11,993.47	17,695.32	12,234.25	100.56	101.76	-96.21	-5,473.62	2,259.33	2,351.22	2,208.90	142.32	16.520		
17,500.00	11,994.55	17,795.32	12,235.56	102.06	103.26	-96.21	-5,573.60	2,260.21	2,351.25	2,206.82	144.43	16.279		
17,600.00	11,995.63	17,895.31	12,236.88	103.57	104.77	-96.22	-5,673.59	2,261.08	2,351.28	2,204.72	146.55	16.044		
17,700.00	11,996.72	17,995.31	12,238.20	105.08	106.28	-96.23	-5,773.58	2,261.96	2,351.30	2,202.63	148.67	15.815		
17,800.00	11,997.80	18,095.31	12,239.52	106.59	107.79	-96.23	-5,873.56	2,262.84	2,351.33	2,200.53	150.80	15.592		
17,900.00	11,998.88	18,195.31	12,240.83	108.11	109.30	-96.24	-5,973.55	2,263.72	2,351.36	2,198.42	152.94	15.375		
18,000.00	11,999.96	18,295.31	12,242.15	109.64	110.82	-96.24	-6,073.54	2,264.60	2,351.38	2,196.30	155.08	15.163		
18,100.00	12,001.05	18,395.31	12,243.47	111.16	112.35	-96.25	-6,173.53	2,265.48	2,351.41	2,194.19	157.22	14.956		
18,200.00	12,002.13	18,495.31	12,244.78	112.69	113.88	-96.25	-6,273.51	2,266.36	2,351.43	2,192.06	159.37	14.754		
18,300.00	12,003.21	18,595.31	12,246.10	114.23	115.41	-96.26	-6,373.50	2,267.23	2,351.46	2,189.93	161.53	14.558		
18,400.00	12,004.29	18,695.31	12,247.42	115.76	116.94	-96.27	-6,473.49	2,268.11	2,351.49	2,187.80	163.69	14.366		
18,500.00	12,005.38	18,795.31	12,248.73	117.30	118.48	-96.27	-6,573.48	2,268.99	2,351.51	2,185.66	165.85	14.179		
18,600.00	12,006.46	18,895.31	12,250.05	118.84	120.02	-96.28	-6,673.46	2,269.87	2,351.54	2,183.52	168.02	13.996		
18,700.00	12,007.54	18,995.31	12,251.37	120.39	121.56	-96.28	-6,773.45	2,270.75	2,351.57	2,181.38	170.19	13.817		
18,800.00	12,008.62	19,095.31	12,252.69	121.94	123.11	-96.29	-6,873.44	2,271.63	2,351.59	2,179.23	172.36	13.643		
18,900.00	12,009.71	19,195.31	12,254.00	123.49	124.66	-96.29	-6,973.42	2,272.51	2,351.62	2,177.08	174.54	13.473		
19,000.00	12,010.79	19,295.31	12,255.32	125.04	126.21	-96.30	-7,073.41	2,273.38	2,351.65	2,174.92	176.73	13.307		
19,100.00	12,011.87	19,395.31	12,256.64	126.60	127.77	-96.31	-7,173.40	2,274.26	2,351.67	2,172.76	178.91	13.144		
19,200.00	12,012.95	19,495.31	12,257.95	128.16	129.32	-96.31	-7,273.39	2,275.14	2,351.70	2,170.60	181.10	12.985		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
19,300.00	12,014.03	19,595.31	12,259.27	129.72	130.88	-96.32	-7,373.37	2,276.02	2,351.73	2,168.43	183.29	12.830		
19,400.00	12,015.12	19,695.31	12,260.59	131.28	132.44	-96.32	-7,473.36	2,276.90	2,351.75	2,166.26	185.49	12.679		
19,500.00	12,016.20	19,795.31	12,261.90	132.85	134.01	-96.33	-7,573.35	2,277.78	2,351.78	2,164.09	187.69	12.530		
19,600.00	12,017.28	19,895.31	12,263.22	134.42	135.57	-96.33	-7,673.33	2,278.66	2,351.81	2,161.91	189.89	12.385		
19,700.00	12,018.36	19,995.31	12,264.54	135.98	137.14	-96.34	-7,773.32	2,279.53	2,351.83	2,159.74	192.10	12.243		
19,800.00	12,019.45	20,095.31	12,265.86	137.56	138.71	-96.35	-7,873.31	2,280.41	2,351.86	2,157.56	194.30	12.104		
19,900.00	12,020.53	20,195.31	12,267.17	139.13	140.28	-96.35	-7,973.30	2,281.29	2,351.89	2,155.37	196.51	11.968		
20,000.00	12,021.61	20,295.31	12,268.49	140.70	141.85	-96.36	-8,073.28	2,282.17	2,351.91	2,153.19	198.73	11.835		
20,100.00	12,022.69	20,395.31	12,269.81	142.28	143.43	-96.36	-8,173.27	2,283.05	2,351.94	2,151.00	200.94	11.705		
20,200.00	12,023.78	20,495.31	12,271.12	143.86	145.00	-96.37	-8,273.26	2,283.93	2,351.97	2,148.81	203.16	11.577		
20,300.00	12,024.86	20,595.31	12,272.44	145.44	146.58	-96.37	-8,373.24	2,284.81	2,351.99	2,146.62	205.38	11.452		
20,400.00	12,025.94	20,695.31	12,273.76	147.02	148.16	-96.38	-8,473.23	2,285.68	2,352.02	2,144.42	207.60	11.330		
20,500.00	12,027.02	20,795.31	12,275.07	148.61	149.75	-96.39	-8,573.22	2,286.56	2,352.05	2,142.22	209.82	11.210		
20,600.00	12,028.11	20,895.31	12,276.39	150.19	151.33	-96.39	-8,673.21	2,287.44	2,352.07	2,140.03	212.05	11.092		
20,700.00	12,029.19	20,995.31	12,277.71	151.78	152.91	-96.40	-8,773.19	2,288.32	2,352.10	2,137.82	214.28	10.977		
20,800.00	12,030.27	21,095.31	12,279.03	153.36	154.50	-96.40	-8,873.18	2,289.20	2,352.13	2,135.62	216.51	10.864		
20,900.00	12,031.35	21,195.31	12,280.34	154.95	156.09	-96.41	-8,973.17	2,290.08	2,352.15	2,133.42	218.74	10.753		
21,000.00	12,032.44	21,295.31	12,281.66	156.54	157.68	-96.41	-9,073.16	2,290.96	2,352.18	2,131.21	220.97	10.645		
21,100.00	12,033.52	21,395.31	12,282.98	158.14	159.27	-96.42	-9,173.14	2,291.83	2,352.21	2,129.00	223.21	10.538		
21,200.00	12,034.60	21,495.31	12,284.29	159.73	160.86	-96.42	-9,273.13	2,292.71	2,352.24	2,126.79	225.44	10.434		
21,300.00	12,035.68	21,595.30	12,285.61	161.32	162.45	-96.43	-9,373.12	2,293.59	2,352.26	2,124.58	227.68	10.331		
21,400.00	12,036.77	21,695.30	12,286.93	162.92	164.04	-96.44	-9,473.10	2,294.47	2,352.29	2,122.37	229.92	10.231		
21,500.00	12,037.85	21,795.30	12,288.24	164.51	165.64	-96.44	-9,573.09	2,295.35	2,352.32	2,120.16	232.16	10.132		
21,600.00	12,038.93	21,895.30	12,289.56	166.11	167.23	-96.45	-9,673.08	2,296.23	2,352.34	2,117.94	234.40	10.035		
21,700.00	12,040.01	21,995.30	12,290.88	167.71	168.83	-96.45	-9,773.07	2,297.11	2,352.37	2,115.72	236.65	9.940		
21,800.00	12,041.10	22,095.30	12,292.20	169.31	170.43	-96.46	-9,873.05	2,297.98	2,352.40	2,113.50	238.89	9.847		
21,900.00	12,042.18	22,195.30	12,293.51	170.91	172.03	-96.46	-9,973.04	2,298.86	2,352.43	2,111.28	241.14	9.755		
22,000.00	12,043.26	22,295.30	12,294.83	172.51	173.63	-96.47	-10,073.03	2,299.74	2,352.45	2,109.06	243.39	9.665		
22,100.00	12,044.34	22,395.30	12,296.15	174.11	175.23	-96.48	-10,173.01	2,300.62	2,352.48	2,106.84	245.64	9.577		
22,200.00	12,045.43	22,495.30	12,297.46	175.72	176.83	-96.48	-10,273.00	2,301.50	2,352.51	2,104.62	247.89	9.490		
22,300.00	12,046.51	22,595.30	12,298.78	177.32	178.43	-96.49	-10,372.98	2,302.38	2,352.54	2,102.39	250.14	9.405		
22,400.00	12,047.59	22,695.30	12,300.10	178.93	180.04	-96.49	-10,472.98	2,303.26	2,352.56	2,100.17	252.40	9.321		
22,500.00	12,048.67	22,795.30	12,301.41	180.53	181.64	-96.50	-10,572.96	2,304.13	2,352.59	2,097.94	254.65	9.239		
22,572.67	12,049.46	22,867.97	12,302.37	181.70	182.81	-96.50	-10,645.62	2,304.77	2,352.61	2,096.32	256.29	9.179 SF		



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #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 (°)	Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +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	89.48	0.32	34.99	34.99					
100.00	100.00	99.70	99.70	0.14	0.14	89.48	0.32	34.99	34.99	34.79	0.20	175.003		
200.00	200.00	199.70	199.70	0.50	0.50	89.48	0.32	34.99	34.99	34.29	0.71	49.532		
300.00	300.00	299.70	299.70	0.86	0.86	89.48	0.32	34.99	34.99	33.78	1.21	28.838		
400.00	400.00	399.70	399.70	1.22	1.22	89.48	0.32	34.99	34.99	33.27	1.72	20.340		
500.00	500.00	499.70	499.70	1.58	1.57	89.48	0.32	34.99	34.99	32.76	2.23	15.710		
600.00	600.00	599.70	599.70	1.93	1.93	89.48	0.32	34.99	34.99	32.26	2.73	12.797		
700.00	700.00	699.70	699.70	2.29	2.29	89.48	0.32	34.99	34.99	31.75	3.24	10.796		
800.00	800.00	799.70	799.70	2.65	2.65	89.48	0.32	34.99	34.99	31.24	3.75	9.336		
900.00	900.00	899.70	899.70	3.01	3.01	89.48	0.32	34.99	34.99	30.74	4.26	8.223		
1,000.00	1,000.00	999.70	999.70	3.37	3.37	89.48	0.32	34.99	34.99	30.23	4.76	7.348		
1,100.00	1,100.00	1,099.70	1,099.70	3.73	3.73	89.48	0.32	34.99	34.99	29.72	5.27	6.641		
1,200.00	1,200.00	1,199.70	1,199.70	4.08	4.08	89.48	0.32	34.99	34.99	29.22	5.78	6.058		
1,300.00	1,300.00	1,299.70	1,299.70	4.44	4.44	89.48	0.32	34.99	34.99	28.71	6.28	5.569		
1,400.00	1,400.00	1,399.70	1,399.70	4.80	4.80	89.48	0.32	34.99	34.99	28.20	6.79	5.153		
1,500.00	1,500.00	1,499.70	1,499.70	5.16	5.16	89.48	0.32	34.99	34.99	27.69	7.30	4.795		
1,600.00	1,600.00	1,599.70	1,599.70	5.52	5.52	89.48	0.32	34.99	34.99	27.19	7.80	4.484		
1,700.00	1,700.00	1,699.70	1,699.70	5.88	5.88	89.48	0.32	34.99	34.99	26.68	8.31	4.210		
1,800.00	1,800.00	1,799.70	1,799.70	6.24	6.23	89.48	0.32	34.99	34.99	26.17	8.82	3.968		
1,900.00	1,900.00	1,899.70	1,899.70	6.59	6.59	89.48	0.32	34.99	34.99	25.67	9.32	3.753		
2,000.00	2,000.00	1,999.70	1,999.70	6.95	6.95	89.48	0.32	34.99	34.99	25.16	9.83	3.559		
2,100.00	2,100.00	2,099.70	2,099.70	7.31	7.31	89.48	0.32	34.99	34.99	24.65	10.34	3.385		
2,200.00	2,200.00	2,199.70	2,199.70	7.67	7.67	89.48	0.32	34.99	34.99	24.15	10.85	3.226		
2,300.00	2,300.00	2,299.70	2,299.70	8.03	8.03	89.48	0.32	34.99	34.99	23.64	11.35	3.082		
2,400.00	2,400.00	2,399.70	2,399.70	8.39	8.39	89.48	0.32	34.99	34.99	23.13	11.86	2.951		
2,500.00	2,500.00	2,499.70	2,499.70	8.74	8.74	89.48	0.32	34.99	34.99	22.63	12.37	2.830		
2,600.00	2,600.00	2,599.70	2,599.70	9.10	9.10	89.48	0.32	34.99	34.99	22.12	12.87	2.718		
2,700.00	2,700.00	2,699.70	2,699.70	9.46	9.46	89.48	0.32	34.99	34.99	21.61	13.38	2.615		
2,800.00	2,800.00	2,799.70	2,799.70	9.82	9.82	89.48	0.32	34.99	34.99	21.10	13.89	2.520		
2,900.00	2,900.00	2,899.70	2,899.70	10.18	10.18	89.48	0.32	34.99	34.99	20.60	14.39	2.431		
3,000.00	3,000.00	2,999.70	2,999.70	10.54	10.54	89.48	0.32	34.99	34.99	20.09	14.90	2.348		
3,100.00	3,100.00	3,099.70	3,099.70	10.90	10.89	89.48	0.32	34.99	34.99	19.58	15.41	2.271		
3,200.00	3,200.00	3,199.70	3,199.70	11.25	11.25	89.48	0.32	34.99	34.99	19.08	15.92	2.199		
3,300.00	3,300.00	3,299.70	3,299.70	11.61	11.61	89.48	0.32	34.99	34.99	18.57	16.42	2.131		
3,400.00	3,400.00	3,399.70	3,399.70	11.97	11.97	89.48	0.32	34.99	34.99	18.06	16.93	2.067		
3,500.00	3,500.00	3,499.70	3,499.70	12.33	12.33	89.48	0.32	34.99	34.99	17.56	17.44	2.007		
3,600.00	3,600.00	3,599.70	3,599.70	12.69	12.69	89.48	0.32	34.99	34.99	17.05	17.94	1.950		
3,700.00	3,700.00	3,699.70	3,699.70	13.05	13.05	89.48	0.32	34.99	34.99	16.54	18.45	1.897		
3,800.00	3,800.00	3,799.70	3,799.70	13.41	13.40	89.48	0.32	34.99	34.99	16.03	18.96	1.846		
3,900.00	3,900.00	3,899.70	3,899.70	13.76	13.76	89.48	0.32	34.99	34.99	15.53	19.46	1.798		
4,000.00	4,000.00	3,999.70	3,999.70	14.12	14.12	89.48	0.32	34.99	34.99	15.02	19.97	1.752		
4,100.00	4,100.00	4,099.70	4,099.70	14.48	14.48	89.48	0.32	34.99	34.99	14.51	20.48	1.709		
4,200.00	4,200.00	4,199.70	4,199.70	14.84	14.84	89.48	0.32	34.99	34.99	14.01	20.98	1.667		
4,300.00	4,300.00	4,299.70	4,299.70	15.20	15.20	89.48	0.32	34.99	34.99	13.50	21.49	1.628		
4,400.00	4,400.00	4,399.70	4,399.70	15.56	15.55	89.48	0.32	34.99	34.99	12.99	22.00	1.591		
4,500.00	4,500.00	4,499.70	4,499.70	15.91	15.91	89.48	0.32	34.99	34.99	12.49	22.51	1.555		
4,600.00	4,600.00	4,599.70	4,599.70	16.27	16.27	89.48	0.32	34.99	34.99	11.98	23.01	1.521 CC, ES, SF		
4,700.00	4,700.00	4,699.13	4,699.12	16.63	16.63	87.83	1.35	35.76	35.79	12.27	23.51	1.522		
4,800.00	4,800.00	4,798.43	4,798.34	16.99	16.98	83.31	4.46	38.06	38.34	14.35	23.99	1.598		
4,900.00	4,900.00	4,897.45	4,897.15	17.35	17.33	77.06	9.63	41.88	43.04	18.59	24.45	1.760		
5,000.00	5,000.00	4,996.76	4,996.10	17.71	17.68	70.68	16.45	46.93	49.86	24.93	24.93	2.000		
5,100.00	5,100.00	5,096.38	5,095.34	18.07	18.04	65.78	23.44	52.10	57.29	31.86	25.43	2.253		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,200.00	5,196.00	5,194.58	18.42	18.39	62.02	30.42	57.27	65.05	39.12	25.93	2.509		
5,300.00	5,300.00	5,295.62	5,293.81	18.78	18.75	59.07	37.41	62.44	73.02	46.59	26.43	2.763		
5,400.00	5,400.00	5,395.24	5,393.05	19.14	19.11	56.71	44.40	67.61	81.15	54.22	26.94	3.013		
5,500.00	5,500.00	5,494.86	5,492.29	19.50	19.47	54.78	51.38	72.78	89.39	61.95	27.44	3.258		
5,600.00	5,599.99	5,594.50	5,591.56	19.86	19.83	86.44	58.37	77.95	97.63	69.69	27.94	3.494		
5,700.00	5,699.91	5,694.17	5,690.84	20.21	20.19	87.03	65.36	83.12	105.72	77.27	28.45	3.716		
5,800.00	5,799.69	5,793.77	5,790.07	20.57	20.55	88.84	72.34	88.29	113.75	84.80	28.95	3.929		
5,833.01	5,832.58	5,826.62	5,822.79	20.69	20.67	89.66	74.65	89.99	116.42	87.30	29.12	3.998		
5,900.00	5,899.32	5,893.29	5,889.21	20.92	20.91	91.43	79.32	93.45	121.93	92.47	29.46	4.139		
6,000.00	5,998.94	5,992.80	5,988.34	21.28	21.27	93.79	86.30	98.62	130.34	100.37	29.97	4.349		
6,100.00	6,098.56	6,092.31	6,087.47	21.64	21.63	95.86	93.28	103.78	138.94	108.47	30.47	4.559		
6,200.00	6,198.18	6,191.82	6,186.60	22.00	21.99	97.69	100.26	108.94	147.70	116.72	30.98	4.767		
6,300.00	6,297.80	6,291.33	6,285.73	22.35	22.36	99.31	107.24	114.11	156.60	125.11	31.49	4.973		
6,400.00	6,397.43	6,390.85	6,384.87	22.71	22.72	100.76	114.21	119.27	165.60	133.61	32.00	5.175		
6,500.00	6,497.05	6,490.36	6,484.00	23.07	23.09	102.05	121.19	124.44	174.70	142.20	32.51	5.374		
6,600.00	6,596.67	6,589.87	6,583.13	23.44	23.45	103.22	128.17	129.60	183.88	150.87	33.02	5.569		
6,700.00	6,696.29	6,689.38	6,682.26	23.80	23.82	104.28	135.15	134.76	193.13	159.60	33.53	5.760		
6,800.00	6,795.91	6,788.89	6,781.39	24.16	24.18	105.24	142.13	139.93	202.44	168.40	34.04	5.947		
6,900.00	6,895.53	6,888.40	6,880.52	24.52	24.55	106.11	149.10	145.09	211.80	177.25	34.55	6.130		
7,000.00	6,995.15	6,987.91	6,979.66	24.89	24.92	106.92	156.08	150.25	221.21	186.14	35.06	6.309		
7,100.00	7,094.77	7,087.42	7,078.79	25.25	25.28	107.65	163.06	155.42	230.65	195.07	35.57	6.484		
7,200.00	7,194.39	7,186.93	7,177.92	25.61	25.65	108.33	170.04	160.58	240.13	204.04	36.09	6.654		
7,300.00	7,294.01	7,286.45	7,277.05	25.98	26.02	108.96	177.02	165.75	249.64	213.04	36.60	6.821		
7,400.00	7,393.63	7,385.96	7,376.18	26.35	26.39	109.54	184.00	170.91	259.17	222.06	37.11	6.983		
7,500.00	7,493.25	7,487.35	7,477.20	26.71	26.76	110.11	190.97	176.07	268.62	230.97	37.65	7.136		
7,600.00	7,592.87	7,592.57	7,582.21	27.08	27.15	110.97	196.41	180.09	276.49	238.29	38.20	7.238		
7,700.00	7,692.49	7,697.91	7,687.47	27.44	27.53	112.19	199.51	182.39	282.41	243.67	38.74	7.290		
7,800.00	7,792.11	7,802.26	7,791.81	27.81	27.90	113.74	200.32	182.99	286.51	247.24	39.26	7.297		
7,900.00	7,891.73	7,901.88	7,891.43	28.18	28.25	115.30	200.32	182.99	290.13	250.36	39.77	7.295		
8,000.00	7,991.35	8,001.50	7,991.05	28.55	28.61	116.83	200.32	182.99	293.97	253.69	40.28	7.297		
8,100.00	8,090.97	8,101.12	8,090.67	28.92	28.96	118.32	200.32	182.99	298.01	257.22	40.79	7.305		
8,200.00	8,190.59	8,200.74	8,190.29	29.28	29.31	119.77	200.32	182.99	302.25	260.95	41.30	7.318		
8,226.93	8,217.42	8,227.56	8,217.12	29.38	29.41	120.16	200.32	182.99	303.43	261.99	41.44	7.322		
8,300.00	8,290.27	8,300.41	8,289.97	29.65	29.67	121.11	200.32	182.99	306.32	264.51	41.81	7.326		
8,400.00	8,390.11	8,400.26	8,389.81	30.02	30.02	122.01	200.32	182.99	309.20	266.88	42.32	7.306		
8,500.00	8,490.07	8,500.22	8,489.77	30.38	30.37	122.48	200.32	182.99	310.74	267.91	42.82	7.256		
8,559.94	8,550.00	8,560.15	8,549.70	30.59	30.59	89.94	200.32	182.99	310.99	267.86	43.13	7.211		
8,600.00	8,590.07	8,600.21	8,589.77	30.73	30.73	89.94	200.32	182.99	310.99	267.66	43.33	7.178		
8,700.00	8,690.07	8,700.21	8,689.77	31.09	31.09	89.94	200.32	182.99	310.99	267.16	43.83	7.095		
8,800.00	8,790.07	8,800.21	8,789.77	31.44	31.44	89.94	200.32	182.99	310.99	266.66	44.33	7.015		
8,900.00	8,890.07	8,900.21	8,889.77	31.80	31.80	89.94	200.32	182.99	310.99	266.15	44.84	6.936		
9,000.00	8,990.07	9,000.21	8,989.77	32.15	32.15	89.94	200.32	182.99	310.99	265.65	45.34	6.859		
9,100.00	9,090.07	9,100.21	9,089.77	32.51	32.51	89.94	200.32	182.99	310.99	265.15	45.84	6.784		
9,200.00	9,190.07	9,200.21	9,189.77	32.87	32.86	89.94	200.32	182.99	310.99	264.64	46.35	6.710		
9,300.00	9,290.07	9,300.21	9,289.77	33.22	33.22	89.94	200.32	182.99	310.99	264.14	46.85	6.638		
9,400.00	9,390.07	9,400.21	9,389.77	33.58	33.57	89.94	200.32	182.99	310.99	263.63	47.36	6.567		
9,500.00	9,490.07	9,500.21	9,489.77	33.93	33.93	89.94	200.32	182.99	310.99	263.13	47.86	6.498		
9,600.00	9,590.07	9,600.21	9,589.77	34.29	34.28	89.94	200.32	182.99	310.99	262.63	48.36	6.430		
9,700.00	9,690.07	9,700.21	9,689.77	34.65	34.64	89.94	200.32	182.99	310.99	262.12	48.87	6.364		
9,800.00	9,790.07	9,800.21	9,789.77	35.00	35.00	89.94	200.32	182.99	310.99	261.62	49.37	6.299		
9,900.00	9,890.07	9,900.21	9,889.77	35.36	35.35	89.94	200.32	182.99	310.99	261.11	49.88	6.235		
10,000.00	9,990.07	10,000.21	9,989.77	35.71	35.71	89.94	200.32	182.99	310.99	260.61	50.38	6.173		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,090.07	10,100.21	10,089.77	36.07	36.06	89.94	200.32	182.99	310.99	260.11	50.88	6.112		
10,200.00	10,190.07	10,200.21	10,189.77	36.43	36.42	89.94	200.32	182.99	310.99	259.60	51.39	6.052		
10,300.00	10,290.07	10,300.21	10,289.77	36.78	36.78	89.94	200.32	182.99	310.99	259.10	51.89	5.993		
10,400.00	10,390.07	10,400.21	10,389.77	37.14	37.13	89.94	200.32	182.99	310.99	258.59	52.40	5.935		
10,500.00	10,490.07	10,500.21	10,489.77	37.50	37.49	89.94	200.32	182.99	310.99	258.09	52.90	5.879		
10,600.00	10,590.07	10,600.21	10,589.77	37.85	37.85	89.94	200.32	182.99	310.99	257.58	53.41	5.823		
10,700.00	10,690.07	10,700.21	10,689.77	38.21	38.20	89.94	200.32	182.99	310.99	257.08	53.91	5.769		
10,800.00	10,790.07	10,800.21	10,789.77	38.57	38.56	89.94	200.32	182.99	310.99	256.57	54.42	5.715		
10,900.00	10,890.07	10,900.21	10,889.77	38.92	38.91	89.94	200.32	182.99	310.99	256.07	54.92	5.663		
11,000.00	10,990.07	11,000.21	10,989.77	39.28	39.27	89.94	200.32	182.99	310.99	255.57	55.42	5.611		
11,100.00	11,090.07	11,100.21	11,089.77	39.64	39.63	89.94	200.32	182.99	310.99	255.06	55.93	5.560		
11,200.00	11,190.07	11,200.21	11,189.77	39.99	39.98	89.94	200.32	182.99	310.99	254.56	56.43	5.511		
11,300.00	11,290.07	11,300.21	11,289.77	40.35	40.34	89.94	200.32	182.99	310.99	254.05	56.94	5.462		
11,374.94	11,365.00	11,375.15	11,364.70	40.62	40.61	89.94	200.32	182.99	310.99	253.67	57.32	5.426		
11,400.00	11,390.06	11,400.21	11,389.76	40.70	40.70	-89.66	200.32	182.99	310.99	253.55	57.44	5.414		
11,427.50	11,417.49	11,427.64	11,417.19	40.79	40.79	-90.00	200.32	182.99	310.98	253.41	57.57	5.402		
11,450.00	11,439.85	11,450.00	11,439.55	40.86	40.87	-90.46	200.32	182.99	310.99	253.32	57.68	5.392		
11,500.00	11,489.07	11,499.22	11,488.77	41.01	41.05	-92.01	200.32	182.99	311.18	253.28	57.90	5.374		
11,550.00	11,537.35	11,547.50	11,537.05	41.15	41.22	-94.23	200.32	182.99	311.92	253.79	58.13	5.366		
11,600.00	11,584.32	11,594.47	11,584.02	41.28	41.39	-96.98	200.32	182.99	313.70	255.36	58.34	5.377		
11,650.00	11,629.62	11,639.77	11,629.32	41.41	41.55	-100.08	200.32	182.99	317.17	258.63	58.54	5.418		
11,700.00	11,672.90	11,685.50	11,675.05	41.53	41.71	-103.52	200.10	182.99	322.97	264.23	58.74	5.498		
11,750.00	11,713.85	11,737.53	11,726.92	41.63	41.88	-107.32	196.28	183.03	330.80	271.91	58.89	5.617		
11,800.00	11,752.13	11,792.73	11,781.33	41.73	42.04	-111.01	187.11	183.10	340.28	281.34	58.94	5.773		
11,850.00	11,787.47	11,851.63	11,838.13	41.82	42.21	-114.56	171.60	183.24	351.09	292.27	58.82	5.969		
11,900.00	11,819.60	11,914.83	11,896.95	41.92	42.38	-117.97	148.58	183.44	362.84	304.38	58.46	6.207		
11,950.00	11,848.26	11,982.95	11,957.09	42.02	42.54	-121.19	116.67	183.72	375.09	317.29	57.80	6.490		
12,000.00	11,873.25	12,056.62	12,017.37	42.13	42.70	-124.19	74.41	184.08	387.31	330.51	56.79	6.820		
12,050.00	11,894.37	12,136.37	12,075.93	42.24	42.84	-126.91	20.37	184.55	398.93	343.46	55.47	7.191		
12,100.00	11,911.46	12,222.44	12,130.05	42.35	43.00	-129.28	-46.45	185.13	409.36	355.41	53.94	7.589		
12,150.00	11,924.39	12,314.65	12,176.23	42.47	43.21	-131.19	-126.14	185.82	417.96	365.56	52.40	7.976		
12,200.00	11,933.06	12,412.16	12,210.50	42.59	43.43	-132.56	-217.30	186.62	424.19	373.03	51.16	8.292		
12,250.00	11,937.42	12,513.37	12,229.22	42.72	43.67	-133.31	-316.63	187.48	427.58	377.05	50.53	8.463		
12,268.73	11,937.92	12,551.81	12,231.69	42.76	43.77	-133.41	-354.98	187.81	428.05	377.55	50.50	8.476		
12,300.00	11,938.26	12,588.95	12,232.20	42.84	43.86	-133.42	-392.11	188.13	428.09	377.50	50.59	8.463		
12,400.00	11,939.35	12,688.95	12,233.29	43.15	44.16	-133.42	-492.10	189.00	428.08	377.19	50.90	8.411		
12,500.00	11,940.43	12,788.95	12,234.37	43.51	44.51	-133.42	-592.09	189.87	428.08	376.81	51.27	8.350		
12,600.00	11,941.51	12,888.95	12,235.45	43.93	44.92	-133.43	-692.08	190.74	428.07	376.37	51.70	8.280		
12,700.00	11,942.59	12,988.95	12,236.53	44.41	45.38	-133.43	-792.07	191.61	428.06	375.87	52.19	8.202		
12,800.00	11,943.68	13,088.95	12,237.62	44.94	45.90	-133.43	-892.06	192.48	428.06	375.32	52.74	8.117		
12,900.00	11,944.76	13,188.95	12,238.70	45.53	46.47	-133.43	-992.05	193.34	428.05	374.71	53.34	8.025		
13,000.00	11,945.84	13,288.95	12,239.78	46.17	47.10	-133.43	-1,092.04	194.21	428.04	374.05	53.99	7.928		
13,100.00	11,946.92	13,388.95	12,240.87	46.86	47.77	-133.43	-1,192.03	195.08	428.04	373.34	54.70	7.826		
13,200.00	11,948.01	13,488.95	12,241.95	47.59	48.49	-133.43	-1,292.03	195.95	428.03	372.58	55.45	7.719		
13,300.00	11,949.09	13,588.95	12,243.03	48.37	49.25	-133.43	-1,392.02	196.82	428.02	371.77	56.25	7.609		
13,400.00	11,950.17	13,688.95	12,244.11	49.20	50.06	-133.43	-1,492.01	197.69	428.02	370.92	57.09	7.497		
13,500.00	11,951.25	13,788.95	12,245.20	50.06	50.90	-133.43	-1,592.00	198.55	428.01	370.03	57.98	7.382		
13,600.00	11,952.33	13,888.95	12,246.28	50.97	51.79	-133.43	-1,691.99	199.42	428.00	369.10	58.91	7.266		
13,700.00	11,953.42	13,988.95	12,247.36	51.91	52.71	-133.44	-1,791.98	200.29	428.00	368.13	59.87	7.149		
13,800.00	11,954.50	14,088.95	12,248.45	52.88	53.67	-133.44	-1,891.97	201.16	427.99	367.12	60.87	7.031		
13,900.00	11,955.58	14,188.95	12,249.53	53.89	54.66	-133.44	-1,991.96	202.03	427.98	366.08	61.90	6.914		
14,000.00	11,956.66	14,288.95	12,250.61	54.93	55.69	-133.44	-2,091.95	202.90	427.98	365.01	62.97	6.797		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
14,100.00	11,957.75	14,388.95	12,251.69	56.00	56.74	-133.44	-2,191.94	203.76	427.97	363.91	64.06	6.680		
14,200.00	11,958.83	14,488.95	12,252.78	57.10	57.82	-133.44	-2,291.93	204.63	427.96	362.78	65.19	6.565		
14,300.00	11,959.91	14,588.95	12,253.86	58.22	58.92	-133.44	-2,391.92	205.50	427.96	361.62	66.34	6.451		
14,400.00	11,960.99	14,688.95	12,254.94	59.37	60.06	-133.44	-2,491.91	206.37	427.95	360.44	67.51	6.339		
14,500.00	11,962.08	14,788.95	12,256.03	60.54	61.21	-133.44	-2,591.90	207.24	427.94	359.23	68.71	6.228		
14,600.00	11,963.16	14,888.95	12,257.11	61.73	62.39	-133.44	-2,691.89	208.11	427.94	358.01	69.93	6.119		
14,700.00	11,964.24	14,988.95	12,258.19	62.94	63.59	-133.44	-2,791.88	208.97	427.93	356.76	71.17	6.013		
14,800.00	11,965.32	15,088.95	12,259.27	64.18	64.81	-133.45	-2,891.87	209.84	427.93	355.49	72.43	5.908		
14,900.00	11,966.41	15,188.95	12,260.36	65.43	66.05	-133.45	-2,991.86	210.71	427.92	354.21	73.71	5.805		
15,000.00	11,967.49	15,288.95	12,261.44	66.70	67.30	-133.45	-3,091.85	211.58	427.91	352.91	75.01	5.705		
15,100.00	11,968.57	15,388.95	12,262.52	67.99	68.57	-133.45	-3,191.84	212.45	427.91	351.59	76.32	5.607		
15,200.00	11,969.65	15,488.95	12,263.61	69.29	69.86	-133.45	-3,291.83	213.32	427.90	350.26	77.64	5.511		
15,300.00	11,970.74	15,588.95	12,264.69	70.60	71.17	-133.45	-3,391.82	214.18	427.89	348.91	78.98	5.418		
15,400.00	11,971.82	15,688.95	12,265.77	71.93	72.48	-133.45	-3,491.81	215.05	427.89	347.55	80.33	5.326		
15,500.00	11,972.90	15,788.95	12,266.85	73.28	73.81	-133.45	-3,591.80	215.92	427.88	346.18	81.70	5.237		
15,600.00	11,973.98	15,888.95	12,267.94	74.63	75.16	-133.45	-3,691.79	216.79	427.87	344.80	83.07	5.151		
15,700.00	11,975.07	15,988.95	12,269.02	76.00	76.51	-133.45	-3,791.78	217.66	427.87	343.41	84.46	5.066		
15,800.00	11,976.15	16,088.95	12,270.10	77.38	77.88	-133.45	-3,891.77	218.53	427.86	342.00	85.86	4.983		
15,900.00	11,977.23	16,188.95	12,271.19	78.77	79.26	-133.46	-3,991.77	219.39	427.85	340.59	87.26	4.903		
16,000.00	11,978.31	16,288.95	12,272.27	80.17	80.65	-133.46	-4,091.76	220.26	427.85	339.17	88.67	4.825		
16,100.00	11,979.40	16,388.95	12,273.35	81.57	82.05	-133.46	-4,191.75	221.13	427.84	337.75	90.09	4.749		
16,200.00	11,980.48	16,488.95	12,274.43	82.99	83.45	-133.46	-4,291.74	222.00	427.83	336.31	91.52	4.675		
16,300.00	11,981.56	16,588.95	12,275.52	84.42	84.87	-133.46	-4,391.73	222.87	427.83	334.87	92.96	4.602		
16,400.00	11,982.64	16,688.95	12,276.60	85.85	86.30	-133.46	-4,491.72	223.74	427.82	333.42	94.40	4.532		
16,500.00	11,983.73	16,788.95	12,277.68	87.29	87.73	-133.46	-4,591.71	224.60	427.81	331.97	95.84	4.464		
16,600.00	11,984.81	16,888.95	12,278.77	88.74	89.17	-133.46	-4,691.70	225.47	427.81	330.51	97.30	4.397		
16,700.00	11,985.89	16,988.95	12,279.85	90.20	90.62	-133.46	-4,791.69	226.34	427.80	329.05	98.75	4.332		
16,800.00	11,986.97	17,088.95	12,280.93	91.66	92.07	-133.46	-4,891.68	227.21	427.79	327.58	100.21	4.269		
16,900.00	11,988.06	17,188.95	12,282.01	93.13	93.53	-133.46	-4,991.67	228.08	427.79	326.11	101.68	4.207		
17,000.00	11,989.14	17,288.95	12,283.10	94.61	95.00	-133.47	-5,091.66	228.95	427.78	324.63	103.15	4.147		
17,100.00	11,990.22	17,388.95	12,284.18	96.09	96.47	-133.47	-5,191.65	229.81	427.77	323.15	104.62	4.089		
17,200.00	11,991.30	17,488.95	12,285.26	97.57	97.95	-133.47	-5,291.64	230.68	427.77	321.67	106.10	4.032		
17,300.00	11,992.39	17,588.95	12,286.34	99.06	99.44	-133.47	-5,391.63	231.55	427.76	320.19	107.57	3.976		
17,400.00	11,993.47	17,688.95	12,287.43	100.56	100.93	-133.47	-5,491.62	232.42	427.75	318.70	109.05	3.922		
17,500.00	11,994.55	17,788.95	12,288.51	102.06	102.42	-133.47	-5,591.61	233.29	427.75	317.21	110.54	3.870		
17,600.00	11,995.63	17,888.95	12,289.59	103.57	103.92	-133.47	-5,691.60	234.16	427.74	315.72	112.02	3.818		
17,700.00	11,996.72	17,988.95	12,290.68	105.08	105.42	-133.47	-5,791.59	235.02	427.73	314.23	113.51	3.768		
17,800.00	11,997.80	18,088.95	12,291.76	106.59	106.93	-133.47	-5,891.58	235.89	427.73	312.73	115.00	3.719		
17,900.00	11,998.88	18,188.95	12,292.84	108.11	108.45	-133.47	-5,991.57	236.76	427.72	311.24	116.48	3.672		
18,000.00	11,999.96	18,288.95	12,293.92	109.64	109.96	-133.47	-6,091.56	237.63	427.71	309.74	117.98	3.625		
18,100.00	12,001.05	18,388.95	12,295.01	111.16	111.48	-133.48	-6,191.55	238.50	427.71	308.24	119.47	3.580		
18,200.00	12,002.13	18,488.95	12,296.09	112.69	113.01	-133.48	-6,291.54	239.37	427.70	306.74	120.96	3.536		
18,300.00	12,003.21	18,588.95	12,297.17	114.23	114.53	-133.48	-6,391.53	240.23	427.69	305.24	122.45	3.493		
18,400.00	12,004.29	18,688.95	12,298.26	115.76	116.07	-133.48	-6,491.52	241.10	427.69	303.74	123.94	3.451		
18,500.00	12,005.38	18,788.95	12,299.34	117.30	117.60	-133.48	-6,591.51	241.97	427.68	302.24	125.44	3.410		
18,600.00	12,006.46	18,888.95	12,300.42	118.84	119.14	-133.48	-6,691.51	242.84	427.67	300.74	126.93	3.369		
18,700.00	12,007.54	18,988.95	12,301.50	120.39	120.68	-133.48	-6,791.50	243.71	427.67	299.24	128.42	3.330		
18,800.00	12,008.62	19,088.95	12,302.59	121.94	122.22	-133.48	-6,891.49	244.57	427.66	297.74	129.92	3.292		
18,900.00	12,009.71	19,188.95	12,303.67	123.49	123.77	-133.48	-6,991.48	245.44	427.65	296.25	131.41	3.254		
19,000.00	12,010.79	19,288.95	12,304.75	125.04	125.32	-133.48	-7,091.47	246.31	427.65	294.75	132.90	3.218		
19,100.00	12,011.87	19,388.95	12,305.84	126.60	126.87	-133.48	-7,191.46	247.18	427.64	293.25	134.39	3.182		
19,200.00	12,012.95	19,488.95	12,306.92	128.16	128.42	-133.49	-7,291.45	248.05	427.63	291.75	135.88	3.147		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								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)	Minimum Separation (usft)	Separation Factor		
19,300.00	12,014.03	19,588.95	12,308.00	129.72	129.98	-133.49	-7,391.44	248.92	427.63	290.25	137.37	3.113		
19,400.00	12,015.12	19,688.95	12,309.08	131.28	131.54	-133.49	-7,491.43	249.78	427.62	288.76	138.86	3.079		
19,500.00	12,016.20	19,788.95	12,310.17	132.85	133.10	-133.49	-7,591.42	250.65	427.62	287.26	140.35	3.047		
19,600.00	12,017.28	19,888.95	12,311.25	134.42	134.66	-133.49	-7,691.41	251.52	427.61	285.77	141.84	3.015		
19,700.00	12,018.36	19,988.95	12,312.33	135.98	136.23	-133.49	-7,791.40	252.39	427.60	284.28	143.33	2.983		
19,800.00	12,019.45	20,088.95	12,313.42	137.56	137.80	-133.49	-7,891.39	253.26	427.60	282.78	144.81	2.953		
19,900.00	12,020.53	20,188.95	12,314.50	139.13	139.37	-133.49	-7,991.38	254.13	427.59	281.29	146.30	2.923		
20,000.00	12,021.61	20,288.95	12,315.58	140.70	140.94	-133.49	-8,091.37	254.99	427.58	279.80	147.78	2.893		
20,100.00	12,022.69	20,388.95	12,316.66	142.28	142.51	-133.49	-8,191.36	255.86	427.58	278.31	149.26	2.865		
20,200.00	12,023.78	20,488.95	12,317.75	143.86	144.09	-133.49	-8,291.35	256.73	427.57	276.83	150.74	2.836		
20,300.00	12,024.86	20,588.95	12,318.83	145.44	145.66	-133.50	-8,391.34	257.60	427.56	275.34	152.22	2.809		
20,400.00	12,025.94	20,688.95	12,319.91	147.02	147.24	-133.50	-8,491.33	258.47	427.56	273.86	153.70	2.782		
20,500.00	12,027.02	20,788.95	12,321.00	148.61	148.82	-133.50	-8,591.32	259.34	427.55	272.38	155.17	2.755		
20,600.00	12,028.11	20,888.95	12,322.08	150.19	150.40	-133.50	-8,691.31	260.20	427.54	270.90	156.65	2.729		
20,700.00	12,029.19	20,988.95	12,323.16	151.78	151.99	-133.50	-8,791.30	261.07	427.54	269.42	158.12	2.704		
20,800.00	12,030.27	21,088.95	12,324.24	153.36	153.57	-133.50	-8,891.29	261.94	427.53	267.94	159.59	2.679		
20,900.00	12,031.35	21,188.95	12,325.33	154.95	155.16	-133.50	-8,991.28	262.81	427.52	266.47	161.06	2.654		
21,000.00	12,032.44	21,288.95	12,326.41	156.54	156.74	-133.50	-9,091.27	263.68	427.52	264.99	162.52	2.630		
21,100.00	12,033.52	21,388.95	12,327.49	158.14	158.33	-133.50	-9,191.26	264.55	427.51	263.52	163.99	2.607		
21,200.00	12,034.60	21,488.95	12,328.58	159.73	159.92	-133.50	-9,291.25	265.41	427.50	262.05	165.45	2.584		
21,300.00	12,035.68	21,588.95	12,329.66	161.32	161.51	-133.50	-9,391.24	266.28	427.50	260.58	166.91	2.561		
21,400.00	12,036.77	21,688.95	12,330.74	162.92	163.11	-133.51	-9,491.24	267.15	427.49	259.12	168.37	2.539		
21,500.00	12,037.85	21,788.95	12,331.82	164.51	164.70	-133.51	-9,591.23	268.02	427.48	257.65	169.83	2.517		
21,600.00	12,038.93	21,888.95	12,332.91	166.11	166.29	-133.51	-9,691.22	268.89	427.48	256.19	171.29	2.496		
21,700.00	12,040.01	21,988.95	12,333.99	167.71	167.89	-133.51	-9,791.21	269.76	427.47	254.73	172.74	2.475		
21,800.00	12,041.10	22,088.95	12,335.07	169.31	169.49	-133.51	-9,891.20	270.62	427.46	253.27	174.19	2.454		
21,900.00	12,042.18	22,188.95	12,336.16	170.91	171.09	-133.51	-9,991.19	271.49	427.46	251.82	175.64	2.434		
22,000.00	12,043.26	22,288.95	12,337.24	172.51	172.68	-133.51	-10,091.18	272.36	427.45	250.36	177.09	2.414		
22,100.00	12,044.34	22,388.95	12,338.32	174.11	174.28	-133.51	-10,191.17	273.23	427.44	248.91	178.53	2.394		
22,200.00	12,045.43	22,488.95	12,339.40	175.72	175.89	-133.51	-10,291.16	274.10	427.44	247.46	179.98	2.375		
22,300.00	12,046.51	22,588.95	12,340.49	177.32	177.49	-133.51	-10,391.15	274.97	427.43	246.01	181.42	2.356		
22,400.00	12,047.59	22,688.95	12,341.57	178.93	179.09	-133.51	-10,491.14	275.83	427.42	244.57	182.86	2.337		
22,500.00	12,048.67	22,788.95	12,342.65	180.53	180.69	-133.52	-10,591.13	276.70	427.42	243.12	184.29	2.319		
22,572.67	12,049.46	22,861.62	12,343.44	181.70	181.86	-133.52	-10,663.79	277.33	427.41	242.08	185.34	2.306		



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #2		Offset Site Error:		0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
0.00	0.00	0.00	0.00	0.00	0.00	89.47	39.87	4,274.67	4,275.03								
100.00	100.00	61.50	61.50	0.14	0.09	89.47	39.87	4,274.67	4,274.86	4,274.69	0.17	N/A					
200.00	200.00	161.50	161.50	0.50	0.36	89.47	39.87	4,274.67	4,274.86	4,274.24	0.62	6,924.236					
300.00	300.00	261.50	261.50	0.86	0.72	89.47	39.87	4,274.67	4,274.86	4,273.74	1.12	3,814.023					
400.00	400.00	361.50	361.50	1.22	1.08	89.47	39.87	4,274.67	4,274.86	4,273.23	1.63	2,628.327					
500.00	500.00	461.50	461.50	1.58	1.44	89.47	39.87	4,274.67	4,274.86	4,272.72	2.13	2,004.421					
600.00	600.00	561.50	561.50	1.93	1.80	89.47	39.87	4,274.67	4,274.86	4,272.22	2.64	1,619.730					
700.00	700.00	661.50	661.50	2.29	2.15	89.47	39.87	4,274.67	4,274.86	4,271.71	3.15	1,358.864					
800.00	800.00	761.50	761.50	2.65	2.51	89.47	39.87	4,274.67	4,274.86	4,271.20	3.65	1,170.344					
900.00	900.00	861.50	861.50	3.01	2.87	89.47	39.87	4,274.67	4,274.86	4,270.70	4.16	1,027.746					
1,000.00	1,000.00	961.50	961.50	3.37	3.23	89.47	39.87	4,274.67	4,274.86	4,270.19	4.67	916.117					
1,100.00	1,100.00	1,061.50	1,061.50	3.73	3.59	89.47	39.87	4,274.67	4,274.86	4,269.68	5.17	826.357					
1,200.00	1,200.00	1,161.50	1,161.50	4.08	3.95	89.47	39.87	4,274.67	4,274.86	4,269.18	5.68	752.615					
1,300.00	1,300.00	1,261.50	1,261.50	4.44	4.31	89.47	39.87	4,274.67	4,274.86	4,268.67	6.19	690.954					
1,400.00	1,400.00	1,361.50	1,361.50	4.80	4.66	89.47	39.87	4,274.67	4,274.86	4,268.16	6.69	638.630					
1,500.00	1,500.00	1,461.50	1,461.50	5.16	5.02	89.47	39.87	4,274.67	4,274.86	4,267.66	7.20	593.673					
1,600.00	1,600.00	1,561.50	1,561.50	5.52	5.38	89.47	39.87	4,274.67	4,274.86	4,267.15	7.71	554.628					
1,700.00	1,700.00	1,661.50	1,661.50	5.88	5.74	89.47	39.87	4,274.67	4,274.86	4,266.64	8.21	520.402					
1,800.00	1,800.00	1,761.50	1,761.50	6.24	6.10	89.47	39.87	4,274.67	4,274.86	4,266.13	8.72	490.155					
1,900.00	1,900.00	1,861.50	1,861.50	6.59	6.46	89.47	39.87	4,274.67	4,274.86	4,265.63	9.23	463.230					
2,000.00	2,000.00	1,961.50	1,961.50	6.95	6.81	89.47	39.87	4,274.67	4,274.86	4,265.12	9.74	439.109					
2,100.00	2,100.00	2,061.50	2,061.50	7.31	7.17	89.47	39.87	4,274.67	4,274.86	4,264.61	10.24	417.376					
2,200.00	2,200.00	2,161.50	2,161.50	7.67	7.53	89.47	39.87	4,274.67	4,274.86	4,264.11	10.75	397.692					
2,300.00	2,300.00	2,261.50	2,261.50	8.03	7.89	89.47	39.87	4,274.67	4,274.86	4,263.60	11.26	379.781					
2,400.00	2,400.00	2,361.50	2,361.50	8.39	8.25	89.47	39.87	4,274.67	4,274.86	4,263.09	11.76	363.414					
2,500.00	2,500.00	2,461.50	2,461.50	8.74	8.61	89.47	39.87	4,274.67	4,274.86	4,262.59	12.27	348.400					
2,600.00	2,600.00	2,561.50	2,561.50	9.10	8.97	89.47	39.87	4,274.67	4,274.86	4,262.08	12.78	334.577					
2,700.00	2,700.00	2,661.50	2,661.50	9.46	9.32	89.47	39.87	4,274.67	4,274.86	4,261.57	13.28	321.808					
2,800.00	2,800.00	2,761.50	2,761.50	9.82	9.68	89.47	39.87	4,274.67	4,274.86	4,261.07	13.79	309.979					
2,900.00	2,900.00	2,861.50	2,861.50	10.18	10.04	89.47	39.87	4,274.67	4,274.86	4,260.56	14.30	298.988					
3,000.00	3,000.00	2,961.50	2,961.50	10.54	10.40	89.47	39.87	4,274.67	4,274.86	4,260.05	14.80	288.750					
3,100.00	3,100.00	3,061.50	3,061.50	10.90	10.76	89.47	39.87	4,274.67	4,274.86	4,259.54	15.31	279.190					
3,200.00	3,200.00	3,161.50	3,161.50	11.25	11.12	89.47	39.87	4,274.67	4,274.86	4,259.04	15.82	270.243					
3,300.00	3,300.00	3,261.50	3,261.50	11.61	11.47	89.47	39.87	4,274.67	4,274.86	4,258.53	16.33	261.851					
3,400.00	3,400.00	3,361.50	3,361.50	11.97	11.83	89.47	39.87	4,274.67	4,274.86	4,258.02	16.83	253.965					
3,500.00	3,500.00	3,461.50	3,461.50	12.33	12.19	89.47	39.87	4,274.67	4,274.86	4,257.52	17.34	246.540					
3,600.00	3,600.00	3,561.50	3,561.50	12.69	12.55	89.47	39.87	4,274.67	4,274.86	4,257.01	17.85	239.537					
3,700.00	3,700.00	3,661.50	3,661.50	13.05	12.91	89.47	39.87	4,274.67	4,274.86	4,256.50	18.35	232.920					
3,800.00	3,800.00	3,761.50	3,761.50	13.41	13.27	89.47	39.87	4,274.67	4,274.86	4,256.00	18.86	226.659					
3,900.00	3,900.00	3,861.50	3,861.50	13.76	13.63	89.47	39.87	4,274.67	4,274.86	4,255.49	19.37	220.727					
4,000.00	4,000.00	3,961.50	3,961.50	14.12	13.98	89.47	39.87	4,274.67	4,274.86	4,254.98	19.87	215.096					
4,100.00	4,100.00	4,061.50	4,061.50	14.48	14.34	89.47	39.87	4,274.67	4,274.86	4,254.47	20.38	209.746					
4,200.00	4,200.00	4,161.50	4,161.50	14.84	14.70	89.47	39.87	4,274.67	4,274.86	4,253.97	20.89	204.656					
4,300.00	4,300.00	4,261.50	4,261.50	15.20	15.06	89.47	39.87	4,274.67	4,274.86	4,253.46	21.40	199.806					
4,400.00	4,400.00	4,361.50	4,361.50	15.56	15.42	89.47	39.87	4,274.67	4,274.86	4,252.95	21.90	195.181					
4,500.00	4,500.00	4,461.50	4,461.50	15.91	15.78	89.47	39.87	4,274.67	4,274.86	4,252.45	22.41	190.766					
4,600.00	4,600.00	4,561.50	4,561.50	16.27	16.13	89.47	39.87	4,274.67	4,274.86	4,251.94	22.92	186.546					
4,700.00	4,700.00	4,661.50	4,661.50	16.63	16.49	89.47	39.87	4,274.67	4,274.86	4,251.43	23.42	182.508					
4,800.00	4,800.00	4,761.50	4,761.50	16.99	16.85	89.47	39.87	4,274.67	4,274.86	4,250.93	23.93	178.642					
4,900.00	4,900.00	4,861.50	4,861.50	17.35	17.21	89.47	39.87	4,274.67	4,274.86	4,250.42	24.44	174.936					
5,000.00	5,000.00	4,961.50	4,961.50	17.71	17.57	89.47	39.87	4,274.67	4,274.86	4,249.91	24.94	171.380					
5,100.00	5,100.00	5,061.50	5,061.50	18.07	17.93	89.47	39.87	4,274.67	4,274.86	4,249.41	25.45	167.967					

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,200.00	5,161.50	5,161.50	18.42	18.29	89.47	39.87	4,274.67	4,274.86	4,248.90	25.96	164.686		
5,300.00	5,300.00	5,261.50	5,261.50	18.78	18.64	89.47	39.87	4,274.67	4,274.86	4,248.39	26.46	161.532		
5,400.00	5,400.00	5,361.50	5,361.50	19.14	19.00	89.47	39.87	4,274.67	4,274.86	4,247.88	26.97	158.495		
5,500.00	5,500.00	5,461.50	5,461.50	19.50	19.36	89.47	39.87	4,274.67	4,274.86	4,247.38	27.48	155.571		
5,600.00	5,599.99	5,695.58	5,695.49	19.86	20.19	122.08	43.80	4,271.57	4,274.59	4,246.28	28.31	151.000		
5,700.00	5,699.91	5,935.57	5,934.64	20.21	21.05	122.01	59.21	4,259.39	4,271.32	4,242.19	29.13	146.647		
5,800.00	5,799.69	6,035.48	6,034.01	20.57	21.40	122.01	67.40	4,252.92	4,268.38	4,238.75	29.63	144.072		
5,833.01	5,832.58	6,068.48	6,066.83	20.69	21.52	122.01	70.11	4,250.78	4,267.72	4,237.93	29.79	143.251		
5,900.00	5,899.32	6,135.46	6,133.44	20.92	21.76	122.01	75.61	4,246.44	4,266.52	4,236.40	30.13	141.615		
6,000.00	5,998.94	6,235.44	6,232.87	21.28	22.12	121.99	83.81	4,239.96	4,264.74	4,234.11	30.63	139.235		
6,100.00	6,098.56	6,335.42	6,332.31	21.64	22.48	121.98	92.01	4,233.48	4,262.96	4,231.83	31.13	136.927		
6,200.00	6,198.18	6,435.40	6,431.74	22.00	22.84	121.97	100.21	4,227.00	4,261.18	4,229.54	31.64	134.688		
6,300.00	6,297.80	6,535.38	6,531.17	22.35	23.20	121.96	108.41	4,220.52	4,259.40	4,227.25	32.14	132.515		
6,400.00	6,397.43	6,635.36	6,630.60	22.71	23.57	121.95	116.62	4,214.04	4,257.61	4,224.96	32.65	130.405		
6,500.00	6,497.05	6,735.34	6,730.03	23.07	23.93	121.93	124.82	4,207.56	4,255.83	4,222.68	33.16	128.356		
6,600.00	6,596.67	6,835.32	6,829.47	23.44	24.30	121.92	133.02	4,201.08	4,254.05	4,220.39	33.66	126.365		
6,700.00	6,696.29	6,935.30	6,928.90	23.80	24.66	121.91	141.22	4,194.60	4,252.27	4,218.10	34.17	124.431		
6,800.00	6,795.91	7,035.28	7,028.33	24.16	25.03	121.90	149.42	4,188.12	4,250.49	4,215.81	34.68	122.550		
6,900.00	6,895.53	7,135.26	7,127.76	24.52	25.40	121.89	157.63	4,181.64	4,248.71	4,213.51	35.19	120.721		
7,000.00	6,895.15	7,235.24	7,227.19	24.89	25.76	121.87	165.83	4,175.16	4,246.93	4,211.22	35.71	118.942		
7,100.00	7,094.77	7,335.22	7,326.63	25.25	26.13	121.86	174.03	4,168.68	4,245.15	4,208.93	36.22	117.211		
7,200.00	7,194.39	7,435.20	7,426.06	25.61	26.50	121.85	182.23	4,162.20	4,243.37	4,206.64	36.73	115.526		
7,300.00	7,294.01	7,535.18	7,525.49	25.98	26.87	121.84	190.44	4,155.72	4,241.59	4,204.34	37.24	113.886		
7,400.00	7,393.63	7,635.16	7,624.92	26.35	27.24	121.82	198.64	4,149.24	4,239.81	4,202.05	37.76	112.288		
7,500.00	7,493.25	7,735.14	7,724.36	26.71	27.61	121.81	206.84	4,142.76	4,238.03	4,199.76	38.27	110.731		
7,600.00	7,592.87	7,835.12	7,823.79	27.08	27.99	121.80	215.04	4,136.28	4,236.25	4,197.46	38.79	109.214		
7,700.00	7,692.49	7,935.10	7,923.22	27.44	28.36	121.79	223.24	4,129.80	4,234.47	4,195.17	39.30	107.735		
7,800.00	7,792.11	8,000.00	7,987.81	27.81	28.60	121.79	228.17	4,125.91	4,233.15	4,193.41	39.74	106.521		
7,889.50	7,881.27	8,049.28	8,036.93	28.14	28.78	121.79	231.33	4,123.41	4,232.76	4,192.66	40.11	105.538 CC		
7,900.00	7,891.73	8,055.56	8,043.18	28.18	28.80	121.79	231.70	4,123.12	4,232.77	4,192.62	40.15	105.422		
8,000.00	7,991.35	8,100.00	8,087.53	28.55	28.97	121.80	234.07	4,121.25	4,233.39	4,192.86	40.53	104.447		
8,100.00	8,090.97	8,174.93	8,162.35	28.92	29.24	121.84	237.15	4,118.82	4,234.87	4,193.89	40.98	103.334		
8,200.00	8,190.59	8,234.50	8,221.89	29.28	29.45	121.88	238.78	4,117.53	4,237.36	4,195.96	41.39	102.369		
8,226.93	8,217.42	8,250.53	8,237.91	29.38	29.51	121.89	239.09	4,117.29	4,238.19	4,196.68	41.50	102.118		
8,300.00	8,290.27	8,300.00	8,287.37	29.65	29.69	121.95	239.72	4,116.78	4,240.43	4,198.62	41.82	101.409		
8,400.00	8,390.11	8,364.24	8,351.61	30.02	29.92	122.02	239.87	4,116.67	4,243.08	4,200.85	42.23	100.477		
8,500.00	8,490.07	8,464.20	8,451.57	30.38	30.27	122.07	239.87	4,116.67	4,244.61	4,201.87	42.73	99.326		
8,559.94	8,550.00	8,524.13	8,511.50	30.59	30.48	89.46	239.87	4,116.67	4,244.86	4,201.82	43.04	98.635		
8,600.00	8,590.07	8,564.19	8,551.57	30.73	30.63	89.46	239.87	4,116.67	4,244.86	4,201.62	43.24	98.175		
8,700.00	8,690.07	8,664.19	8,651.57	31.09	30.98	89.46	239.87	4,116.67	4,244.86	4,201.12	43.74	97.046		
8,800.00	8,790.07	8,764.19	8,751.57	31.44	31.34	89.46	239.87	4,116.67	4,244.86	4,200.61	44.24	95.942		
8,900.00	8,890.07	8,864.19	8,851.57	31.80	31.69	89.46	239.87	4,116.67	4,244.86	4,200.11	44.75	94.862		
9,000.00	8,990.07	8,964.19	8,951.57	32.15	32.05	89.46	239.87	4,116.67	4,244.86	4,199.61	45.25	93.807		
9,100.00	9,090.07	9,064.19	9,051.57	32.51	32.40	89.46	239.87	4,116.67	4,244.86	4,199.10	45.75	92.774		
9,200.00	9,190.07	9,164.19	9,151.57	32.87	32.76	89.46	239.87	4,116.67	4,244.86	4,198.60	46.26	91.764		
9,300.00	9,290.07	9,264.19	9,251.57	33.22	33.11	89.46	239.87	4,116.67	4,244.86	4,198.10	46.76	90.776		
9,400.00	9,390.07	9,364.19	9,351.57	33.58	33.47	89.46	239.87	4,116.67	4,244.86	4,197.59	47.27	89.808		
9,500.00	9,490.07	9,464.19	9,451.57	33.93	33.82	89.46	239.87	4,116.67	4,244.86	4,197.09	47.77	88.861		
9,600.00	9,590.07	9,564.19	9,551.57	34.29	34.18	89.46	239.87	4,116.67	4,244.86	4,196.58	48.27	87.933		
9,700.00	9,690.07	9,664.19	9,651.57	34.65	34.53	89.46	239.87	4,116.67	4,244.86	4,196.08	48.78	87.025		
9,800.00	9,790.07	9,764.19	9,751.57	35.00	34.89	89.46	239.87	4,116.67	4,244.86	4,195.58	49.28	86.135		
9,900.00	9,890.07	9,864.19	9,851.57	35.36	35.25	89.46	239.87	4,116.67	4,244.86	4,195.07	49.79	85.263		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								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)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,990.07	9,964.19	9,951.57	35.71	35.60	89.46	239.87	4,116.67	4,244.86	4,194.57	50.29	84.408		
10,100.00	10,090.07	10,064.19	10,051.57	36.07	35.96	89.46	239.87	4,116.67	4,244.86	4,194.06	50.79	83.570		
10,200.00	10,190.07	10,164.19	10,151.57	36.43	36.31	89.46	239.87	4,116.67	4,244.86	4,193.56	51.30	82.748		
10,300.00	10,290.07	10,264.19	10,251.57	36.78	36.67	89.46	239.87	4,116.67	4,244.86	4,193.05	51.80	81.943		
10,400.00	10,390.07	10,364.19	10,351.57	37.14	37.03	89.46	239.87	4,116.67	4,244.86	4,192.55	52.31	81.153		
10,500.00	10,490.07	10,464.19	10,451.57	37.50	37.38	89.46	239.87	4,116.67	4,244.86	4,192.05	52.81	80.378		
10,600.00	10,590.07	10,564.19	10,551.57	37.85	37.74	89.46	239.87	4,116.67	4,244.86	4,191.54	53.32	79.617		
10,700.00	10,690.07	10,664.19	10,651.57	38.21	38.09	89.46	239.87	4,116.67	4,244.86	4,191.04	53.82	78.871		
10,800.00	10,790.07	10,764.19	10,751.57	38.57	38.45	89.46	239.87	4,116.67	4,244.86	4,190.53	54.33	78.138		
10,900.00	10,890.07	10,864.19	10,851.57	38.92	38.81	89.46	239.87	4,116.67	4,244.86	4,190.03	54.83	77.419		
11,000.00	10,990.07	10,964.19	10,951.57	39.28	39.16	89.46	239.87	4,116.67	4,244.86	4,189.52	55.33	76.713		
11,100.00	11,090.07	11,064.19	11,051.57	39.64	39.52	89.46	239.87	4,116.67	4,244.86	4,189.02	55.84	76.020		
11,200.00	11,190.07	11,164.19	11,151.57	39.99	39.88	89.46	239.87	4,116.67	4,244.86	4,188.51	56.34	75.339		
11,300.00	11,290.07	11,264.19	11,251.57	40.35	40.23	89.46	239.87	4,116.67	4,244.86	4,188.01	56.85	74.670		
11,305.72	11,295.78	11,269.91	11,257.28	40.37	40.25	89.46	239.87	4,116.67	4,244.86	4,187.98	56.88	74.632		
11,374.94	11,365.00	11,338.88	11,326.20	40.62	40.48	89.49	237.92	4,116.69	4,244.86	4,187.65	57.21	74.194		
11,400.00	11,390.06	11,363.66	11,350.84	40.70	40.56	-89.98	235.35	4,116.71	4,244.86	4,187.53	57.33	74.047		
11,450.00	11,439.85	11,412.82	11,399.29	40.86	40.71	-89.93	227.10	4,116.80	4,244.87	4,187.33	57.54	73.773		
11,500.00	11,489.07	11,461.66	11,446.55	41.01	40.85	-89.87	214.83	4,116.92	4,244.89	4,187.15	57.74	73.514		
11,550.00	11,537.35	11,510.18	11,492.29	41.15	40.98	-89.82	198.69	4,117.07	4,244.92	4,186.99	57.94	73.270		
11,600.00	11,584.32	11,558.40	11,538.24	41.28	41.10	-89.77	178.88	4,117.27	4,244.96	4,186.84	58.12	73.040		
11,650.00	11,629.62	11,606.34	11,578.13	41.41	41.21	-89.72	155.59	4,117.50	4,245.00	4,186.70	58.29	72.823		
11,700.00	11,672.90	11,654.02	11,617.71	41.53	41.31	-89.67	129.04	4,117.76	4,245.04	4,186.58	58.46	72.617		
11,750.00	11,713.85	11,701.45	11,654.76	41.63	41.41	-89.62	99.45	4,118.05	4,245.09	4,186.48	58.62	72.421		
11,800.00	11,752.13	11,750.00	11,690.02	41.73	41.49	-89.58	66.10	4,118.37	4,245.15	4,186.38	58.77	72.229		
11,850.00	11,787.47	11,795.66	11,720.49	41.82	41.57	-89.54	32.11	4,118.71	4,245.21	4,186.28	58.92	72.047		
11,900.00	11,819.60	11,842.48	11,748.83	41.92	41.65	-89.50	-5.14	4,119.07	4,245.27	4,186.20	59.07	71.866		
11,950.00	11,848.26	11,889.15	11,773.95	42.02	41.74	-89.47	-44.45	4,119.46	4,245.33	4,186.11	59.22	71.686		
12,000.00	11,873.25	11,935.67	11,795.73	42.13	41.85	-89.44	-85.55	4,119.86	4,245.39	4,186.02	59.37	71.505		
12,050.00	11,894.37	11,982.08	11,814.07	42.24	41.95	-89.42	-128.16	4,120.28	4,245.45	4,185.93	59.53	71.322		
12,100.00	11,911.46	12,028.40	11,828.86	42.35	42.06	-89.40	-172.04	4,120.71	4,245.51	4,185.83	59.68	71.137		
12,150.00	11,924.39	12,074.65	11,840.06	42.47	42.17	-89.38	-216.90	4,121.14	4,245.57	4,185.73	59.84	70.948		
12,200.00	11,933.06	12,120.85	11,847.59	42.59	42.29	-89.37	-262.46	4,121.59	4,245.63	4,185.62	60.00	70.756		
12,250.00	11,937.42	12,167.02	11,851.43	42.72	42.40	-89.36	-308.46	4,122.04	4,245.68	4,185.51	60.17	70.562		
12,268.73	11,937.92	12,184.58	11,851.93	42.76	42.45	-89.36	-326.01	4,122.21	4,245.70	4,185.47	60.23	70.488		
12,300.00	11,938.26	12,215.85	11,852.50	42.84	42.53	-89.36	-357.27	4,122.52	4,245.73	4,185.38	60.35	70.352		
12,400.00	11,939.35	12,315.85	11,854.33	43.15	42.84	-89.37	-457.25	4,123.50	4,245.82	4,185.05	60.78	69.860		
12,500.00	11,940.43	12,415.84	11,856.16	43.51	43.21	-89.38	-557.23	4,124.48	4,245.92	4,184.63	61.29	69.277		
12,600.00	11,941.51	12,515.84	11,857.99	43.93	43.64	-89.39	-657.20	4,125.46	4,246.01	4,184.12	61.88	68.611		
12,700.00	11,942.59	12,615.84	11,859.82	44.41	44.12	-89.40	-757.18	4,126.44	4,246.10	4,183.54	62.56	67.869		
12,800.00	11,943.68	12,715.83	11,861.65	44.94	44.66	-89.41	-857.15	4,127.42	4,246.20	4,182.88	63.32	67.059		
12,900.00	11,944.76	12,815.83	11,863.48	45.53	45.25	-89.42	-957.13	4,128.40	4,246.29	4,182.14	64.15	66.190		
13,000.00	11,945.84	12,915.83	11,865.31	46.17	45.90	-89.43	-1,057.10	4,129.38	4,246.39	4,181.33	65.06	65.269		
13,100.00	11,946.92	13,015.83	11,867.14	46.86	46.59	-89.44	-1,157.08	4,130.36	4,246.48	4,180.44	66.04	64.305		
13,200.00	11,948.01	13,115.82	11,868.97	47.59	47.33	-89.45	-1,257.05	4,131.33	4,246.58	4,179.49	67.08	63.305		
13,300.00	11,949.09	13,215.82	11,870.80	48.37	48.12	-89.46	-1,357.03	4,132.31	4,246.67	4,178.48	68.19	62.277		
13,400.00	11,950.17	13,315.82	11,872.63	49.20	48.95	-89.47	-1,457.01	4,133.29	4,246.76	4,177.41	69.36	61.229		
13,500.00	11,951.25	13,415.81	11,874.46	50.06	49.82	-89.48	-1,556.98	4,134.27	4,246.86	4,176.27	70.59	60.165		
13,600.00	11,952.33	13,515.81	11,876.29	50.97	50.73	-89.49	-1,656.96	4,135.25	4,246.95	4,175.09	71.87	59.093		
13,700.00	11,953.42	13,615.81	11,878.12	51.91	51.68	-89.50	-1,756.93	4,136.23	4,247.05	4,173.85	73.20	58.017		
13,800.00	11,954.50	13,715.81	11,879.95	52.88	52.66	-89.51	-1,856.91	4,137.21	4,247.15	4,172.56	74.59	56.942		
13,900.00	11,955.58	13,815.80	11,881.78	53.89	53.67	-89.52	-1,956.88	4,138.19	4,247.24	4,171.22	76.02	55.871		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
14,000.00	11,956.66	13,915.80	11,883.61	54.93	54.72	-89.53	-2,056.86	4,139.17	4,247.34	4,169.84	77.49	54.809		
14,100.00	11,957.75	14,015.80	11,885.44	56.00	55.79	-89.54	-2,156.84	4,140.15	4,247.43	4,168.42	79.01	53.759		
14,200.00	11,958.83	14,115.79	11,887.27	57.10	56.90	-89.55	-2,256.81	4,141.13	4,247.53	4,166.96	80.57	52.722		
14,300.00	11,959.91	14,215.79	11,889.10	58.22	58.03	-89.56	-2,356.79	4,142.11	4,247.62	4,165.47	82.16	51.701		
14,400.00	11,960.99	14,315.79	11,890.93	59.37	59.18	-89.57	-2,456.76	4,143.09	4,247.72	4,163.93	83.79	50.698		
14,500.00	11,962.08	14,415.79	11,892.76	60.54	60.36	-89.58	-2,556.74	4,144.07	4,247.82	4,162.37	85.45	49.713		
14,600.00	11,963.16	14,515.78	11,894.59	61.73	61.55	-89.60	-2,656.71	4,145.05	4,247.91	4,160.78	87.14	48.749		
14,700.00	11,964.24	14,615.78	11,896.42	62.94	62.77	-89.61	-2,756.69	4,146.03	4,248.01	4,159.15	88.86	47.806		
14,800.00	11,965.32	14,715.78	11,898.25	64.18	64.01	-89.62	-2,856.66	4,147.01	4,248.11	4,157.50	90.61	46.885		
14,900.00	11,966.41	14,815.77	11,900.08	65.43	65.27	-89.63	-2,956.64	4,147.98	4,248.20	4,155.82	92.38	45.985		
15,000.00	11,967.49	14,915.77	11,901.92	66.70	66.54	-89.64	-3,056.62	4,148.96	4,248.30	4,154.12	94.18	45.108		
15,100.00	11,968.57	15,015.77	11,903.75	67.99	67.83	-89.65	-3,156.59	4,149.94	4,248.40	4,152.39	96.00	44.253		
15,200.00	11,969.65	15,115.77	11,905.58	69.29	69.14	-89.66	-3,256.57	4,150.92	4,248.49	4,150.65	97.85	43.420		
15,300.00	11,970.74	15,215.76	11,907.41	70.60	70.46	-89.67	-3,356.54	4,151.90	4,248.59	4,148.88	99.71	42.609		
15,400.00	11,971.82	15,315.76	11,909.24	71.93	71.79	-89.68	-3,456.52	4,152.88	4,248.69	4,147.09	101.60	41.819		
15,500.00	11,972.90	15,415.76	11,911.07	73.28	73.14	-89.69	-3,556.49	4,153.86	4,248.79	4,145.29	103.50	41.051		
15,600.00	11,973.98	15,515.75	11,912.90	74.63	74.50	-89.70	-3,656.47	4,154.84	4,248.88	4,143.46	105.42	40.304		
15,700.00	11,975.07	15,615.75	11,914.73	76.00	75.87	-89.71	-3,756.44	4,155.82	4,248.98	4,141.63	107.36	39.578		
15,800.00	11,976.15	15,715.75	11,916.56	77.38	77.25	-89.72	-3,856.42	4,156.80	4,249.08	4,139.77	109.31	38.872		
15,900.00	11,977.23	15,815.75	11,918.39	78.77	78.65	-89.73	-3,956.40	4,157.78	4,249.18	4,137.90	111.28	38.186		
16,000.00	11,978.31	15,915.74	11,920.22	80.17	80.05	-89.74	-4,056.37	4,158.76	4,249.28	4,136.02	113.26	37.518		
16,100.00	11,979.40	16,015.74	11,922.05	81.57	81.46	-89.75	-4,156.35	4,159.74	4,249.38	4,134.12	115.25	36.870		
16,200.00	11,980.48	16,115.74	11,923.88	82.99	82.88	-89.76	-4,256.32	4,160.72	4,249.47	4,132.21	117.26	36.240		
16,300.00	11,981.56	16,215.73	11,925.71	84.42	84.31	-89.77	-4,356.30	4,161.70	4,249.57	4,130.29	119.28	35.627		
16,400.00	11,982.64	16,315.73	11,927.54	85.85	85.75	-89.78	-4,456.27	4,162.68	4,249.67	4,128.36	121.31	35.031		
16,500.00	11,983.73	16,415.73	11,929.37	87.29	87.19	-89.79	-4,556.25	4,163.66	4,249.77	4,126.42	123.35	34.452		
16,600.00	11,984.81	16,515.73	11,931.20	88.74	88.64	-89.80	-4,656.23	4,164.63	4,249.87	4,124.46	125.40	33.889		
16,700.00	11,985.89	16,615.72	11,933.03	90.20	90.10	-89.81	-4,756.20	4,165.61	4,249.97	4,122.50	127.47	33.342		
16,800.00	11,986.97	16,715.72	11,934.86	91.66	91.57	-89.82	-4,856.18	4,166.59	4,250.07	4,120.53	129.54	32.810		
16,900.00	11,988.06	16,815.72	11,936.69	93.13	93.04	-89.83	-4,956.15	4,167.57	4,250.17	4,118.55	131.62	32.292		
17,000.00	11,989.14	16,915.71	11,938.52	94.61	94.52	-89.84	-5,056.13	4,168.55	4,250.27	4,116.56	133.71	31.788		
17,100.00	11,990.22	17,015.71	11,940.35	96.09	96.00	-89.85	-5,156.10	4,169.53	4,250.37	4,114.56	135.80	31.298		
17,200.00	11,991.30	17,115.71	11,942.18	97.57	97.49	-89.86	-5,256.08	4,170.51	4,250.47	4,112.56	137.91	30.821		
17,300.00	11,992.39	17,215.71	11,944.01	99.06	98.99	-89.87	-5,356.05	4,171.49	4,250.57	4,110.55	140.02	30.357		
17,400.00	11,993.47	17,315.70	11,945.84	100.56	100.48	-89.88	-5,456.03	4,172.47	4,250.67	4,108.53	142.14	29.905		
17,500.00	11,994.55	17,415.70	11,947.67	102.06	101.99	-89.89	-5,556.01	4,173.45	4,250.77	4,106.50	144.26	29.465		
17,600.00	11,995.63	17,515.70	11,949.50	103.57	103.50	-89.90	-5,655.98	4,174.43	4,250.87	4,104.47	146.40	29.037		
17,700.00	11,996.72	17,615.69	11,951.33	105.08	105.01	-89.91	-5,755.96	4,175.41	4,250.97	4,102.43	148.53	28.620		
17,800.00	11,997.80	17,715.69	11,953.16	106.59	106.53	-89.92	-5,855.93	4,176.39	4,251.07	4,100.39	150.68	28.213		
17,900.00	11,998.88	17,815.69	11,954.99	108.11	108.05	-89.93	-5,955.91	4,177.37	4,251.17	4,098.34	152.83	27.817		
18,000.00	11,999.96	17,915.69	11,956.82	109.64	109.57	-89.94	-6,055.88	4,178.35	4,251.27	4,096.29	154.98	27.431		
18,100.00	12,001.05	18,015.68	11,958.65	111.16	111.10	-89.95	-6,155.86	4,179.33	4,251.37	4,094.23	157.14	27.054		
18,200.00	12,002.13	18,115.68	11,960.48	112.69	112.63	-89.96	-6,255.83	4,180.31	4,251.47	4,092.16	159.31	26.687		
18,300.00	12,003.21	18,215.68	11,962.31	114.23	114.17	-89.97	-6,355.81	4,181.28	4,251.57	4,090.09	161.48	26.329		
18,400.00	12,004.29	18,315.68	11,964.14	115.76	115.71	-89.98	-6,455.79	4,182.26	4,251.67	4,088.02	163.65	25.980		
18,500.00	12,005.38	18,415.67	11,965.98	117.30	117.25	-89.99	-6,555.76	4,183.24	4,251.78	4,085.94	165.83	25.639		
18,600.00	12,006.46	18,515.67	11,967.81	118.84	118.79	-90.00	-6,655.74	4,184.22	4,251.88	4,083.86	168.02	25.306		
18,700.00	12,007.54	18,615.67	11,969.64	120.39	120.34	-90.01	-6,755.71	4,185.20	4,251.98	4,081.78	170.20	24.982		
18,800.00	12,008.62	18,715.66	11,971.47	121.94	121.89	-90.02	-6,855.69	4,186.18	4,252.08	4,079.69	172.39	24.665		
18,900.00	12,009.71	18,815.66	11,973.30	123.49	123.44	-90.03	-6,955.66	4,187.16	4,252.18	4,077.59	174.59	24.355		
19,000.00	12,010.79	18,915.66	11,975.13	125.04	125.00	-90.04	-7,055.64	4,188.14	4,252.29	4,075.50	176.79	24.053		
19,100.00	12,011.87	19,015.66	11,976.96	126.60	126.56	-90.05	-7,155.62	4,189.12	4,252.39	4,073.40	178.99	23.758		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
19,200.00	12,012.95	19,115.65	11,978.79	128.16	128.12	-90.06	-7,255.59	4,190.10	4,252.49	4,071.29	181.20	23.469		
19,300.00	12,014.03	19,215.65	11,980.62	129.72	129.68	-90.07	-7,355.57	4,191.08	4,252.59	4,069.19	183.41	23.187		
19,400.00	12,015.12	19,315.65	11,982.45	131.28	131.24	-90.08	-7,455.54	4,192.06	4,252.70	4,067.08	185.62	22.911		
19,500.00	12,016.20	19,415.64	11,984.28	132.85	132.81	-90.09	-7,555.52	4,193.04	4,252.80	4,064.97	187.83	22.641		
19,600.00	12,017.28	19,515.64	11,986.11	134.42	134.38	-90.10	-7,655.49	4,194.02	4,252.90	4,062.85	190.05	22.378		
19,700.00	12,018.36	19,615.64	11,987.94	135.98	135.95	-90.11	-7,755.47	4,195.00	4,253.01	4,060.73	192.27	22.120		
19,800.00	12,019.45	19,715.64	11,989.77	137.56	137.52	-90.12	-7,855.44	4,195.98	4,253.11	4,058.61	194.50	21.867		
19,900.00	12,020.53	19,815.63	11,991.60	139.13	139.10	-90.13	-7,955.42	4,196.96	4,253.21	4,056.49	196.72	21.620		
20,000.00	12,021.61	19,915.63	11,993.43	140.70	140.67	-90.14	-8,055.40	4,197.93	4,253.32	4,054.36	198.95	21.379		
20,100.00	12,022.69	20,015.63	11,995.26	142.28	142.25	-90.15	-8,155.37	4,198.91	4,253.42	4,052.24	201.18	21.142		
20,200.00	12,023.78	20,115.62	11,997.09	143.86	143.83	-90.16	-8,255.35	4,199.89	4,253.52	4,050.11	203.42	20.911		
20,300.00	12,024.86	20,215.62	11,998.92	145.44	145.41	-90.17	-8,355.32	4,200.87	4,253.63	4,047.98	205.65	20.684		
20,400.00	12,025.94	20,315.62	12,000.75	147.02	147.00	-90.18	-8,455.30	4,201.85	4,253.73	4,045.84	207.89	20.462		
20,500.00	12,027.02	20,415.62	12,002.58	148.61	148.58	-90.19	-8,555.27	4,202.83	4,253.84	4,043.71	210.13	20.244		
20,600.00	12,028.11	20,515.61	12,004.41	150.19	150.17	-90.20	-8,655.25	4,203.81	4,253.94	4,041.57	212.37	20.031		
20,700.00	12,029.19	20,615.61	12,006.24	151.78	151.76	-90.21	-8,755.23	4,204.79	4,254.04	4,039.43	214.62	19.822		
20,800.00	12,030.27	20,715.61	12,008.07	153.36	153.34	-90.22	-8,855.20	4,205.77	4,254.15	4,037.29	216.86	19.617		
20,900.00	12,031.35	20,815.60	12,009.90	154.95	154.93	-90.23	-8,955.18	4,206.75	4,254.25	4,035.14	219.11	19.416		
21,000.00	12,032.44	20,915.60	12,011.73	156.54	156.53	-90.24	-9,055.15	4,207.73	4,254.36	4,033.00	221.36	19.219		
21,100.00	12,033.52	21,015.60	12,013.56	158.14	158.12	-90.25	-9,155.13	4,208.71	4,254.46	4,030.85	223.61	19.026		
21,200.00	12,034.60	21,115.60	12,015.39	159.73	159.71	-90.26	-9,255.10	4,209.69	4,254.57	4,028.70	225.87	18.837		
21,300.00	12,035.68	21,215.59	12,017.22	161.32	161.31	-90.27	-9,355.08	4,210.67	4,254.67	4,026.55	228.12	18.651		
21,400.00	12,036.77	21,315.59	12,019.05	162.92	162.90	-90.28	-9,455.05	4,211.65	4,254.78	4,024.40	230.38	18.469		
21,500.00	12,037.85	21,415.59	12,020.88	164.51	164.50	-90.29	-9,555.03	4,212.63	4,254.88	4,022.25	232.64	18.290		
21,600.00	12,038.93	21,515.58	12,022.71	166.11	166.10	-90.30	-9,655.01	4,213.61	4,254.99	4,020.09	234.90	18.114		
21,700.00	12,040.01	21,615.58	12,024.54	167.71	167.70	-90.31	-9,754.98	4,214.58	4,255.10	4,017.94	237.16	17.942		
21,800.00	12,041.10	21,715.58	12,026.37	169.31	169.30	-90.32	-9,854.96	4,215.56	4,255.20	4,015.78	239.42	17.773		
21,900.00	12,042.18	21,815.58	12,028.20	170.91	170.90	-90.33	-9,954.93	4,216.54	4,255.31	4,013.62	241.68	17.607		
22,000.00	12,043.26	21,915.57	12,030.04	172.51	172.50	-90.34	-10,054.91	4,217.52	4,255.41	4,011.46	243.95	17.444		
22,100.00	12,044.34	22,015.57	12,031.87	174.11	174.11	-90.35	-10,154.88	4,218.50	4,255.52	4,009.30	246.22	17.284		
22,200.00	12,045.43	22,115.57	12,033.70	175.72	175.71	-90.36	-10,254.86	4,219.48	4,255.63	4,007.14	248.48	17.126		
22,300.00	12,046.51	22,215.56	12,035.53	177.32	177.32	-90.37	-10,354.83	4,220.46	4,255.73	4,004.98	250.75	16.972		
22,400.00	12,047.59	22,315.56	12,037.36	178.93	178.92	-90.38	-10,454.81	4,221.44	4,255.84	4,002.81	253.02	16.820		
22,500.00	12,048.67	22,415.56	12,039.19	180.53	180.53	-90.39	-10,554.79	4,222.42	4,255.95	4,000.65	255.30	16.671		
22,572.67	12,049.46	22,488.23	12,040.52	181.70	181.70	-90.40	-10,627.44	4,223.13	4,256.02	3,999.08	256.95	16.564 ES, SF		



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - Plan #2		Offset Site Error:		0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD														Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor						
0.00	0.00	0.00	0.00	0.00	0.00	89.47	40.18	4,309.67	4,310.03									
100.00	100.00	61.90	61.90	0.14	0.09	89.47	40.18	4,309.67	4,309.86	4,309.69	0.17	N/A						
200.00	200.00	161.90	161.90	0.50	0.36	89.47	40.18	4,309.67	4,309.86	4,309.24	0.62	6,971.422						
300.00	300.00	261.90	261.90	0.86	0.72	89.47	40.18	4,309.67	4,309.86	4,308.74	1.12	3,842.090						
400.00	400.00	361.90	361.90	1.22	1.08	89.47	40.18	4,309.67	4,309.86	4,308.23	1.63	2,648.298						
500.00	500.00	461.90	461.90	1.58	1.44	89.47	40.18	4,309.67	4,309.86	4,307.72	2.13	2,019.917						
600.00	600.00	561.90	561.90	1.93	1.80	89.47	40.18	4,309.67	4,309.86	4,307.22	2.64	1,632.388						
700.00	700.00	661.90	661.90	2.29	2.16	89.47	40.18	4,309.67	4,309.86	4,306.71	3.15	1,369.562						
800.00	800.00	761.90	761.90	2.65	2.51	89.47	40.18	4,309.67	4,309.86	4,306.20	3.65	1,179.608						
900.00	900.00	861.90	861.90	3.01	2.87	89.47	40.18	4,309.67	4,309.86	4,305.70	4.16	1,035.915						
1,000.00	1,000.00	961.90	961.90	3.37	3.23	89.47	40.18	4,309.67	4,309.86	4,305.19	4.67	923.422						
1,100.00	1,100.00	1,061.90	1,061.90	3.73	3.59	89.47	40.18	4,309.67	4,309.86	4,304.68	5.17	832.963						
1,200.00	1,200.00	1,161.90	1,161.90	4.08	3.95	89.47	40.18	4,309.67	4,309.86	4,304.18	5.68	758.644						
1,300.00	1,300.00	1,261.90	1,261.90	4.44	4.31	89.47	40.18	4,309.67	4,309.86	4,303.67	6.19	696.499						
1,400.00	1,400.00	1,361.90	1,361.90	4.80	4.67	89.47	40.18	4,309.67	4,309.86	4,303.16	6.69	643.763						
1,500.00	1,500.00	1,461.90	1,461.90	5.16	5.02	89.47	40.18	4,309.67	4,309.86	4,302.66	7.20	598.450						
1,600.00	1,600.00	1,561.90	1,561.90	5.52	5.38	89.47	40.18	4,309.67	4,309.86	4,302.15	7.71	559.097						
1,700.00	1,700.00	1,661.90	1,661.90	5.88	5.74	89.47	40.18	4,309.67	4,309.86	4,301.64	8.22	524.599						
1,800.00	1,800.00	1,761.90	1,761.90	6.24	6.10	89.47	40.18	4,309.67	4,309.86	4,301.13	8.72	494.111						
1,900.00	1,900.00	1,861.90	1,861.90	6.59	6.46	89.47	40.18	4,309.67	4,309.86	4,300.63	9.23	466.972						
2,000.00	2,000.00	1,961.90	1,961.90	6.95	6.82	89.47	40.18	4,309.67	4,309.86	4,300.12	9.74	442.659						
2,100.00	2,100.00	2,061.90	2,061.90	7.31	7.17	89.47	40.18	4,309.67	4,309.86	4,299.61	10.24	420.752						
2,200.00	2,200.00	2,161.90	2,161.90	7.67	7.53	89.47	40.18	4,309.67	4,309.86	4,299.11	10.75	400.911						
2,300.00	2,300.00	2,261.90	2,261.90	8.03	7.89	89.47	40.18	4,309.67	4,309.86	4,298.60	11.26	382.857						
2,400.00	2,400.00	2,361.90	2,361.90	8.39	8.25	89.47	40.18	4,309.67	4,309.86	4,298.09	11.76	366.359						
2,500.00	2,500.00	2,461.90	2,461.90	8.74	8.61	89.47	40.18	4,309.67	4,309.86	4,297.59	12.27	351.224						
2,600.00	2,600.00	2,561.90	2,561.90	9.10	8.97	89.47	40.18	4,309.67	4,309.86	4,297.08	12.78	337.289						
2,700.00	2,700.00	2,661.90	2,661.90	9.46	9.33	89.47	40.18	4,309.67	4,309.86	4,296.57	13.28	324.419						
2,800.00	2,800.00	2,761.90	2,761.90	9.82	9.68	89.47	40.18	4,309.67	4,309.86	4,296.07	13.79	312.494						
2,900.00	2,900.00	2,861.90	2,861.90	10.18	10.04	89.47	40.18	4,309.67	4,309.86	4,295.56	14.30	301.415						
3,000.00	3,000.00	2,961.90	2,961.90	10.54	10.40	89.47	40.18	4,309.67	4,309.86	4,295.05	14.81	291.095						
3,100.00	3,100.00	3,061.90	3,061.90	10.90	10.76	89.47	40.18	4,309.67	4,309.86	4,294.54	15.31	281.458						
3,200.00	3,200.00	3,161.90	3,161.90	11.25	11.12	89.47	40.18	4,309.67	4,309.86	4,294.04	15.82	272.438						
3,300.00	3,300.00	3,261.90	3,261.90	11.61	11.48	89.47	40.18	4,309.67	4,309.86	4,293.53	16.33	263.979						
3,400.00	3,400.00	3,361.90	3,361.90	11.97	11.83	89.47	40.18	4,309.67	4,309.86	4,293.02	16.83	256.029						
3,500.00	3,500.00	3,461.90	3,461.90	12.33	12.19	89.47	40.18	4,309.67	4,309.86	4,292.52	17.34	248.544						
3,600.00	3,600.00	3,561.90	3,561.90	12.69	12.55	89.47	40.18	4,309.67	4,309.86	4,292.01	17.85	241.484						
3,700.00	3,700.00	3,661.90	3,661.90	13.05	12.91	89.47	40.18	4,309.67	4,309.86	4,291.50	18.35	234.814						
3,800.00	3,800.00	3,761.90	3,761.90	13.41	13.27	89.47	40.18	4,309.67	4,309.86	4,291.00	18.86	228.503						
3,900.00	3,900.00	3,861.90	3,861.90	13.76	13.63	89.47	40.18	4,309.67	4,309.86	4,290.49	19.37	222.522						
4,000.00	4,000.00	3,961.90	3,961.90	14.12	13.99	89.47	40.18	4,309.67	4,309.86	4,289.98	19.88	216.846						
4,100.00	4,100.00	4,061.90	4,061.90	14.48	14.34	89.47	40.18	4,309.67	4,309.86	4,289.48	20.38	211.453						
4,200.00	4,200.00	4,161.90	4,161.90	14.84	14.70	89.47	40.18	4,309.67	4,309.86	4,288.97	20.89	206.321						
4,300.00	4,300.00	4,261.90	4,261.90	15.20	15.06	89.47	40.18	4,309.67	4,309.86	4,288.46	21.40	201.433						
4,400.00	4,400.00	4,361.90	4,361.90	15.56	15.42	89.47	40.18	4,309.67	4,309.86	4,287.95	21.90	196.771						
4,500.00	4,500.00	4,461.90	4,461.90	15.91	15.78	89.47	40.18	4,309.67	4,309.86	4,287.45	22.41	192.319						
4,502.51	4,502.51	4,464.41	4,464.41	15.92	15.79	89.47	40.18	4,309.67	4,309.86	4,287.43	22.42	192.210 CC						
4,600.00	4,600.00	4,537.60	4,537.60	16.27	16.05	89.46	40.33	4,309.77	4,310.03	4,287.18	22.85	188.583 ES						
4,700.00	4,700.00	4,600.00	4,599.99	16.63	16.27	89.45	41.26	4,310.41	4,311.05	4,287.79	23.26	185.304						
4,800.00	4,800.00	4,658.99	4,658.95	16.99	16.48	89.43	42.91	4,311.54	4,312.98	4,289.32	23.66	182.262						
4,900.00	4,900.00	4,700.00	4,699.91	17.35	16.63	89.41	44.50	4,312.63	4,315.90	4,291.89	24.01	179.724						
5,000.00	5,000.00	4,780.07	4,779.82	17.71	16.91	89.35	48.65	4,315.47	4,319.58	4,295.12	24.47	176.562						

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,100.00	4,840.41	4,839.96	18.07	17.13	89.30	52.69	4,318.24	4,324.26	4,299.39	24.86	173.925		
5,200.00	5,200.00	4,901.11	4,900.38	18.42	17.34	89.24	57.54	4,321.56	4,329.85	4,304.59	25.26	171.412		
5,300.00	5,300.00	5,000.57	4,999.29	18.78	17.70	89.12	66.11	4,327.43	4,335.90	4,310.14	25.76	168.307		
5,400.00	5,400.00	5,100.02	5,098.19	19.14	18.05	89.01	74.68	4,333.30	4,341.96	4,315.70	26.26	165.317		
5,500.00	5,500.00	5,199.47	5,197.10	19.50	18.41	88.90	83.25	4,339.18	4,348.04	4,321.28	26.77	162.434		
5,600.00	5,599.99	5,298.97	5,296.05	19.86	18.77	121.34	91.83	4,345.05	4,354.82	4,327.55	27.27	159.687		
5,700.00	5,699.91	5,398.50	5,395.04	20.21	19.13	121.16	100.41	4,350.93	4,362.97	4,335.20	27.77	157.093		
5,800.00	5,799.69	5,498.00	5,494.00	20.57	19.49	121.00	108.98	4,356.80	4,372.47	4,344.19	28.28	154.638		
5,833.01	5,832.58	5,530.83	5,526.65	20.69	19.61	120.95	111.81	4,358.74	4,375.90	4,347.46	28.44	153.856		
5,900.00	5,899.32	5,597.44	5,592.89	20.92	19.85	120.94	117.55	4,362.67	4,383.01	4,354.23	28.78	152.304		
6,000.00	5,998.94	5,696.87	5,691.78	21.28	20.21	120.93	126.12	4,368.54	4,393.62	4,364.34	29.28	150.049		
6,100.00	6,098.56	5,796.30	5,790.67	21.64	20.58	120.92	134.69	4,374.41	4,404.24	4,374.45	29.79	147.864		
6,200.00	6,198.18	5,895.73	5,889.55	22.00	20.94	120.91	143.26	4,380.28	4,414.85	4,384.56	30.29	145.747		
6,300.00	6,297.80	5,995.16	5,988.44	22.35	21.31	120.89	151.83	4,386.15	4,425.47	4,394.67	30.80	143.695		
6,400.00	6,397.43	6,094.59	6,087.32	22.71	21.67	120.88	160.40	4,392.02	4,436.08	4,404.78	31.30	141.705		
6,500.00	6,497.05	6,194.02	6,186.21	23.07	22.04	120.87	168.97	4,397.89	4,446.70	4,414.89	31.81	139.775		
6,600.00	6,596.67	6,293.45	6,285.10	23.44	22.41	120.85	177.54	4,403.76	4,457.31	4,424.99	32.32	137.902		
6,700.00	6,696.29	6,392.88	6,383.98	23.80	22.78	120.84	186.11	4,409.63	4,467.93	4,435.10	32.83	136.084		
6,800.00	6,795.91	6,492.31	6,482.87	24.16	23.15	120.83	194.68	4,415.50	4,478.55	4,445.20	33.34	134.318		
6,900.00	6,895.53	6,591.74	6,581.75	24.52	23.52	120.82	203.25	4,421.37	4,489.16	4,455.31	33.85	132.603		
7,000.00	6,995.15	6,691.17	6,680.64	24.89	23.89	120.80	211.82	4,427.24	4,499.78	4,465.41	34.37	130.936		
7,100.00	7,094.77	6,790.60	6,779.53	25.25	24.26	120.79	220.39	4,433.11	4,510.40	4,475.52	34.88	129.316		
7,200.00	7,194.39	7,049.90	7,037.99	25.61	25.22	120.83	237.06	4,444.53	4,519.78	4,483.94	35.84	126.124		
7,300.00	7,294.01	7,267.87	7,255.91	25.98	26.00	121.00	240.18	4,446.67	4,524.95	4,488.30	36.65	123.474		
7,400.00	7,393.63	7,367.49	7,355.53	26.35	26.35	121.09	240.18	4,446.67	4,529.45	4,492.30	37.15	121.912		
7,500.00	7,493.25	7,467.11	7,455.15	26.71	26.70	121.19	240.18	4,446.67	4,533.96	4,496.30	37.66	120.392		
7,600.00	7,592.87	7,566.73	7,554.77	27.08	27.05	121.28	240.18	4,446.67	4,538.49	4,500.32	38.17	118.911		
7,700.00	7,692.49	7,666.35	7,654.39	27.44	27.41	121.37	240.18	4,446.67	4,543.03	4,504.36	38.67	117.469		
7,800.00	7,792.11	7,765.97	7,754.01	27.81	27.76	121.47	240.18	4,446.67	4,547.58	4,508.40	39.18	116.064		
7,900.00	7,891.73	7,865.60	7,853.63	28.18	28.11	121.56	240.18	4,446.67	4,552.15	4,512.46	39.69	114.694		
8,000.00	7,991.35	7,965.22	7,953.25	28.55	28.47	121.65	240.18	4,446.67	4,556.72	4,516.52	40.20	113.358		
8,100.00	8,090.97	8,064.84	8,052.87	28.92	28.82	121.75	240.18	4,446.67	4,561.31	4,520.60	40.71	112.055		
8,200.00	8,190.59	8,164.46	8,152.49	29.28	29.17	121.84	240.18	4,446.67	4,565.91	4,524.70	41.21	110.784		
8,226.93	8,217.42	8,191.28	8,179.32	29.38	29.27	121.86	240.18	4,446.67	4,567.15	4,525.80	41.35	110.447		
8,300.00	8,290.27	8,264.13	8,252.17	29.65	29.53	121.96	240.18	4,446.67	4,570.15	4,528.43	41.72	109.536		
8,400.00	8,390.11	8,363.98	8,352.01	30.02	29.88	122.06	240.18	4,446.67	4,573.07	4,530.84	42.23	108.290		
8,500.00	8,490.07	8,463.93	8,451.97	30.38	30.24	122.11	240.18	4,446.67	4,574.60	4,531.86	42.73	107.046		
8,559.94	8,550.00	8,523.87	8,511.90	30.59	30.45	89.50	240.18	4,446.67	4,574.85	4,531.81	43.04	106.301		
8,600.00	8,590.07	8,563.93	8,551.97	30.73	30.59	89.50	240.18	4,446.67	4,574.85	4,531.61	43.24	105.805		
8,700.00	8,690.07	8,663.93	8,651.97	31.09	30.95	89.50	240.18	4,446.67	4,574.85	4,531.10	43.74	104.588		
8,800.00	8,790.07	8,763.93	8,751.97	31.44	31.30	89.50	240.18	4,446.67	4,574.85	4,530.60	44.25	103.398		
8,900.00	8,890.07	8,863.93	8,851.97	31.80	31.66	89.50	240.18	4,446.67	4,574.85	4,530.10	44.75	102.234		
9,000.00	8,990.07	8,963.93	8,951.97	32.15	32.02	89.50	240.18	4,446.67	4,574.85	4,529.59	45.25	101.096		
9,100.00	9,090.07	9,063.93	9,051.97	32.51	32.37	89.50	240.18	4,446.67	4,574.85	4,529.09	45.76	99.983		
9,200.00	9,190.07	9,163.93	9,151.97	32.87	32.73	89.50	240.18	4,446.67	4,574.85	4,528.59	46.26	98.894		
9,300.00	9,290.07	9,263.93	9,251.97	33.22	33.08	89.50	240.18	4,446.67	4,574.85	4,528.08	46.76	97.829		
9,400.00	9,390.07	9,363.93	9,351.97	33.58	33.44	89.50	240.18	4,446.67	4,574.85	4,527.58	47.27	96.786		
9,500.00	9,490.07	9,463.93	9,451.97	33.93	33.79	89.50	240.18	4,446.67	4,574.85	4,527.07	47.77	95.765		
9,600.00	9,590.07	9,563.93	9,551.97	34.29	34.15	89.50	240.18	4,446.67	4,574.85	4,526.57	48.28	94.765		
9,700.00	9,690.07	9,663.93	9,651.97	34.65	34.51	89.50	240.18	4,446.67	4,574.85	4,526.07	48.78	93.786		
9,800.00	9,790.07	9,763.93	9,751.97	35.00	34.86	89.50	240.18	4,446.67	4,574.85	4,525.56	49.28	92.826		
9,900.00	9,890.07	9,863.93	9,851.97	35.36	35.22	89.50	240.18	4,446.67	4,574.85	4,525.06	49.79	91.886		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,990.07	9,963.93	9,951.97	35.71	35.57	89.50	240.18	4,446.67	4,574.85	4,524.55	50.29	90.965		
10,100.00	10,090.07	10,063.93	10,051.97	36.07	35.93	89.50	240.18	4,446.67	4,574.85	4,524.05	50.80	90.062		
10,200.00	10,190.07	10,163.93	10,151.97	36.43	36.29	89.50	240.18	4,446.67	4,574.85	4,523.55	51.30	89.177		
10,300.00	10,290.07	10,263.93	10,251.97	36.78	36.64	89.50	240.18	4,446.67	4,574.85	4,523.04	51.81	88.308		
10,400.00	10,390.07	10,363.93	10,351.97	37.14	37.00	89.50	240.18	4,446.67	4,574.85	4,522.54	52.31	87.457		
10,500.00	10,490.07	10,463.93	10,451.97	37.50	37.36	89.50	240.18	4,446.67	4,574.85	4,522.03	52.81	86.621		
10,600.00	10,590.07	10,563.93	10,551.97	37.85	37.71	89.50	240.18	4,446.67	4,574.85	4,521.53	53.32	85.801		
10,700.00	10,690.07	10,663.93	10,651.97	38.21	38.07	89.50	240.18	4,446.67	4,574.85	4,521.02	53.82	84.997		
10,800.00	10,790.07	10,763.93	10,751.97	38.57	38.43	89.50	240.18	4,446.67	4,574.85	4,520.52	54.33	84.208		
10,900.00	10,890.07	10,863.93	10,851.97	38.92	38.78	89.50	240.18	4,446.67	4,574.85	4,520.01	54.83	83.432		
11,000.00	10,990.07	10,963.93	10,951.97	39.28	39.14	89.50	240.18	4,446.67	4,574.85	4,519.51	55.34	82.671		
11,100.00	11,090.07	11,063.93	11,051.97	39.64	39.50	89.50	240.18	4,446.67	4,574.85	4,519.00	55.84	81.924		
11,200.00	11,190.07	11,163.93	11,151.97	39.99	39.85	89.50	240.18	4,446.67	4,574.85	4,518.50	56.35	81.190		
11,300.00	11,290.07	11,263.93	11,251.97	40.35	40.21	89.50	240.18	4,446.67	4,574.85	4,517.99	56.85	80.469		
11,374.94	11,365.00	11,338.87	11,326.90	40.62	40.48	89.50	240.18	4,446.67	4,574.85	4,517.62	57.23	79.937		
11,375.00	11,365.07	11,338.93	11,326.97	40.62	40.48	89.50	240.18	4,446.67	4,574.85	4,517.62	57.23	79.937		
11,400.00	11,390.06	11,363.92	11,351.96	40.70	40.57	-90.01	240.18	4,446.67	4,574.85	4,517.49	57.35	79.766		
11,450.00	11,439.85	11,413.72	11,401.75	40.86	40.74	-90.06	240.18	4,446.67	4,574.85	4,517.26	57.59	79.440		
11,500.00	11,489.07	11,462.94	11,450.97	41.01	40.92	-90.17	240.18	4,446.67	4,574.87	4,517.05	57.82	79.125		
11,550.00	11,537.35	11,511.75	11,499.78	41.15	41.09	-90.32	240.01	4,446.67	4,574.92	4,516.89	58.04	78.827		
11,600.00	11,584.32	11,562.32	11,550.22	41.28	41.25	-90.48	236.57	4,446.71	4,575.03	4,516.78	58.24	78.548		
11,650.00	11,629.62	11,614.24	11,601.48	41.41	41.40	-90.65	228.42	4,446.79	4,575.18	4,516.73	58.45	78.281		
11,700.00	11,672.90	11,667.61	11,653.17	41.53	41.56	-90.81	215.25	4,446.91	4,575.37	4,516.73	58.64	78.026		
11,750.00	11,713.85	11,722.50	11,704.83	41.63	41.70	-90.97	196.75	4,447.10	4,575.60	4,516.77	58.83	77.781		
11,800.00	11,752.13	11,779.00	11,755.90	41.73	41.85	-91.12	172.63	4,447.33	4,575.86	4,516.85	59.01	77.546		
11,850.00	11,787.47	11,837.16	11,805.72	41.82	41.98	-91.27	142.68	4,447.62	4,576.15	4,516.96	59.19	77.318		
11,900.00	11,819.60	11,897.00	11,853.55	41.92	42.10	-91.41	106.76	4,447.98	4,576.45	4,517.09	59.36	77.097		
11,950.00	11,848.26	11,958.54	11,898.55	42.02	42.21	-91.54	64.83	4,448.39	4,576.76	4,517.23	59.53	76.879		
12,000.00	11,873.25	12,021.72	11,939.80	42.13	42.33	-91.66	17.02	4,448.86	4,577.06	4,517.36	59.71	76.661		
12,050.00	11,894.37	12,086.44	11,976.33	42.24	42.47	-91.76	-36.36	4,449.38	4,577.35	4,517.47	59.88	76.440		
12,100.00	11,911.46	12,152.57	12,007.21	42.35	42.61	-91.85	-94.80	4,449.95	4,577.62	4,517.55	60.06	76.214		
12,150.00	11,924.39	12,219.90	12,031.51	42.47	42.77	-91.91	-157.55	4,450.57	4,577.84	4,517.59	60.25	75.980		
12,200.00	11,933.06	12,288.17	12,048.47	42.59	42.93	-91.96	-223.63	4,451.21	4,578.02	4,517.58	60.45	75.738		
12,250.00	11,937.42	12,357.08	12,057.50	42.72	43.10	-91.99	-291.89	4,451.88	4,578.15	4,517.50	60.65	75.488		
12,268.73	11,937.92	12,382.99	12,058.76	42.76	43.16	-91.99	-317.77	4,452.13	4,578.18	4,517.46	60.72	75.393		
12,300.00	11,938.26	12,415.30	12,059.41	42.84	43.25	-91.99	-350.07	4,452.45	4,578.22	4,517.38	60.84	75.249		
12,400.00	11,939.35	12,515.29	12,061.36	43.15	43.55	-92.01	-450.05	4,453.43	4,578.35	4,517.09	61.26	74.736		
12,500.00	11,940.43	12,615.29	12,063.32	43.51	43.91	-92.02	-550.02	4,454.41	4,578.49	4,516.72	61.77	74.127		
12,600.00	11,941.51	12,715.28	12,065.28	43.93	44.32	-92.03	-649.99	4,455.39	4,578.62	4,516.26	62.35	73.429		
12,700.00	11,942.59	12,815.28	12,067.24	44.41	44.80	-92.04	-749.96	4,456.37	4,578.75	4,515.73	63.02	72.651		
12,800.00	11,943.68	12,915.28	12,069.19	44.94	45.32	-92.05	-849.93	4,457.35	4,578.88	4,515.11	63.77	71.800		
12,900.00	11,944.76	13,015.27	12,071.15	45.53	45.91	-92.06	-949.91	4,458.33	4,579.02	4,514.42	64.60	70.886		
13,000.00	11,945.84	13,115.27	12,073.11	46.17	46.54	-92.07	-1,049.88	4,459.30	4,579.15	4,513.66	65.49	69.917		
13,100.00	11,946.92	13,215.27	12,075.06	46.86	47.22	-92.08	-1,149.85	4,460.28	4,579.28	4,512.82	66.46	68.902		
13,200.00	11,948.01	13,315.26	12,077.02	47.59	47.95	-92.09	-1,249.82	4,461.26	4,579.42	4,511.92	67.50	67.848		
13,300.00	11,949.09	13,415.26	12,078.98	48.37	48.72	-92.10	-1,349.80	4,462.24	4,579.55	4,510.96	68.59	66.764		
13,400.00	11,950.17	13,515.25	12,080.94	49.20	49.54	-92.11	-1,449.77	4,463.22	4,579.68	4,509.93	69.75	65.657		
13,500.00	11,951.25	13,615.25	12,082.89	50.06	50.40	-92.12	-1,549.74	4,464.20	4,579.82	4,508.85	70.97	64.533		
13,600.00	11,952.33	13,715.25	12,084.85	50.97	51.29	-92.14	-1,649.71	4,465.18	4,579.95	4,507.71	72.24	63.398		
13,700.00	11,953.42	13,815.24	12,086.81	51.91	52.23	-92.15	-1,749.68	4,466.16	4,580.08	4,506.52	73.56	62.259		
13,800.00	11,954.50	13,915.24	12,088.76	52.88	53.20	-92.16	-1,849.66	4,467.14	4,580.22	4,505.28	74.94	61.120		
13,900.00	11,955.58	14,015.23	12,090.72	53.89	54.20	-92.17	-1,949.63	4,468.12	4,580.35	4,503.99	76.36	59.985		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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)	Minimum Separation (usft)	Separation Factor		
14,000.00	11,956.66	14,115.23	12,092.68	54.93	55.23	-92.18	-2,049.60	4,469.09	4,580.49	4,502.66	77.82	58.858		
14,100.00	11,957.75	14,215.23	12,094.64	56.00	56.29	-92.19	-2,149.57	4,470.07	4,580.62	4,501.29	79.33	57.742		
14,200.00	11,958.83	14,315.22	12,096.59	57.10	57.38	-92.20	-2,249.55	4,471.05	4,580.76	4,499.88	80.87	56.640		
14,300.00	11,959.91	14,415.22	12,098.55	58.22	58.50	-92.21	-2,349.52	4,472.03	4,580.89	4,498.44	82.46	55.555		
14,400.00	11,960.99	14,515.21	12,100.51	59.37	59.64	-92.22	-2,449.49	4,473.01	4,581.03	4,496.95	84.07	54.487		
14,500.00	11,962.08	14,615.21	12,102.47	60.54	60.81	-92.23	-2,549.46	4,473.99	4,581.16	4,495.44	85.73	53.440		
14,600.00	11,963.16	14,715.21	12,104.42	61.73	61.99	-92.24	-2,649.43	4,474.97	4,581.30	4,493.89	87.41	52.413		
14,700.00	11,964.24	14,815.20	12,106.38	62.94	63.20	-92.26	-2,749.41	4,475.95	4,581.43	4,492.32	89.12	51.408		
14,800.00	11,965.32	14,915.20	12,108.34	64.18	64.43	-92.27	-2,849.38	4,476.93	4,581.57	4,490.71	90.86	50.426		
14,900.00	11,966.41	15,015.20	12,110.29	65.43	65.67	-92.28	-2,949.35	4,477.91	4,581.71	4,489.08	92.62	49.466		
15,000.00	11,967.49	15,115.19	12,112.25	66.70	66.94	-92.29	-3,049.32	4,478.89	4,581.84	4,487.43	94.41	48.529		
15,100.00	11,968.57	15,215.19	12,114.21	67.99	68.22	-92.30	-3,149.29	4,479.86	4,581.98	4,485.75	96.23	47.616		
15,200.00	11,969.65	15,315.18	12,116.17	69.29	69.52	-92.31	-3,249.27	4,480.84	4,582.12	4,484.05	98.06	46.726		
15,300.00	11,970.74	15,415.18	12,118.12	70.60	70.83	-92.32	-3,349.24	4,481.82	4,582.25	4,482.33	99.92	45.860		
15,400.00	11,971.82	15,515.18	12,120.08	71.93	72.15	-92.33	-3,449.21	4,482.80	4,582.39	4,480.59	101.79	45.016		
15,500.00	11,972.90	15,615.17	12,122.04	73.28	73.49	-92.34	-3,549.18	4,483.78	4,582.53	4,478.84	103.69	44.195		
15,600.00	11,973.98	15,715.17	12,123.99	74.63	74.84	-92.35	-3,649.16	4,484.76	4,582.66	4,477.06	105.60	43.396		
15,700.00	11,975.07	15,815.16	12,125.95	76.00	76.21	-92.36	-3,749.13	4,485.74	4,582.80	4,475.27	107.53	42.619		
15,800.00	11,976.15	15,915.16	12,127.91	77.38	77.58	-92.38	-3,849.10	4,486.72	4,582.94	4,473.46	109.48	41.863		
15,900.00	11,977.23	16,015.16	12,129.87	78.77	78.96	-92.39	-3,949.07	4,487.70	4,583.08	4,471.64	111.43	41.128		
16,000.00	11,978.31	16,115.15	12,131.82	80.17	80.36	-92.40	-4,049.04	4,488.68	4,583.21	4,469.80	113.41	40.413		
16,100.00	11,979.40	16,215.15	12,133.78	81.57	81.76	-92.41	-4,149.02	4,489.65	4,583.35	4,467.96	115.40	39.718		
16,200.00	11,980.48	16,315.15	12,135.74	82.99	83.18	-92.42	-4,248.99	4,490.63	4,583.49	4,466.09	117.40	39.043		
16,300.00	11,981.56	16,415.14	12,137.69	84.42	84.60	-92.43	-4,348.96	4,491.61	4,583.63	4,464.22	119.41	38.386		
16,400.00	11,982.64	16,515.14	12,139.65	85.85	86.03	-92.44	-4,448.93	4,492.59	4,583.77	4,462.33	121.43	37.748		
16,500.00	11,983.73	16,615.13	12,141.61	87.29	87.47	-92.45	-4,548.91	4,493.57	4,583.91	4,460.44	123.47	37.127		
16,600.00	11,984.81	16,715.13	12,143.57	88.74	88.91	-92.46	-4,648.88	4,494.55	4,584.04	4,458.53	125.51	36.523		
16,700.00	11,985.89	16,815.13	12,145.52	90.20	90.37	-92.47	-4,748.85	4,495.53	4,584.18	4,456.62	127.57	35.936		
16,800.00	11,986.97	16,915.12	12,147.48	91.66	91.83	-92.48	-4,848.82	4,496.51	4,584.32	4,454.69	129.63	35.364		
16,900.00	11,988.06	17,015.12	12,149.44	93.13	93.29	-92.49	-4,948.79	4,497.49	4,584.46	4,452.76	131.70	34.809		
17,000.00	11,989.14	17,115.11	12,151.39	94.61	94.77	-92.51	-5,048.77	4,498.47	4,584.60	4,450.82	133.79	34.268		
17,100.00	11,990.22	17,215.11	12,153.35	96.09	96.24	-92.52	-5,148.74	4,499.45	4,584.74	4,448.86	135.88	33.742		
17,200.00	11,991.30	17,315.11	12,155.31	97.57	97.73	-92.53	-5,248.71	4,500.42	4,584.88	4,446.91	137.97	33.230		
17,300.00	11,992.39	17,415.10	12,157.27	99.06	99.22	-92.54	-5,348.68	4,501.40	4,585.02	4,444.94	140.08	32.731		
17,400.00	11,993.47	17,515.10	12,159.22	100.56	100.71	-92.55	-5,448.65	4,502.38	4,585.16	4,442.97	142.19	32.246		
17,500.00	11,994.55	17,615.09	12,161.18	102.06	102.21	-92.56	-5,548.63	4,503.36	4,585.30	4,440.99	144.31	31.774		
17,600.00	11,995.63	17,715.09	12,163.14	103.57	103.71	-92.57	-5,648.60	4,504.34	4,585.44	4,439.00	146.44	31.313		
17,700.00	11,996.72	17,815.09	12,165.10	105.08	105.22	-92.58	-5,748.57	4,505.32	4,585.58	4,437.01	148.57	30.865		
17,800.00	11,997.80	17,915.08	12,167.05	106.59	106.73	-92.59	-5,848.54	4,506.30	4,585.72	4,435.02	150.71	30.428		
17,900.00	11,998.88	18,015.08	12,169.01	108.11	108.25	-92.60	-5,948.52	4,507.28	4,585.86	4,433.01	152.85	30.002		
18,000.00	11,999.96	18,115.08	12,170.97	109.64	109.77	-92.61	-6,048.49	4,508.26	4,586.01	4,431.01	155.00	29.587		
18,100.00	12,001.05	18,215.07	12,172.92	111.16	111.30	-92.63	-6,148.46	4,509.24	4,586.15	4,428.99	157.16	29.182		
18,200.00	12,002.13	18,315.07	12,174.88	112.69	112.82	-92.64	-6,248.43	4,510.22	4,586.29	4,426.97	159.31	28.788		
18,300.00	12,003.21	18,415.06	12,176.84	114.23	114.36	-92.65	-6,348.40	4,511.19	4,586.43	4,424.95	161.48	28.403		
18,400.00	12,004.29	18,515.06	12,178.80	115.76	115.89	-92.66	-6,448.38	4,512.17	4,586.57	4,422.92	163.65	28.027		
18,500.00	12,005.38	18,615.06	12,180.75	117.30	117.43	-92.67	-6,548.35	4,513.15	4,586.71	4,420.89	165.82	27.661		
18,600.00	12,006.46	18,715.05	12,182.71	118.84	118.97	-92.68	-6,648.32	4,514.13	4,586.86	4,418.86	168.00	27.303		
18,700.00	12,007.54	18,815.05	12,184.67	120.39	120.51	-92.69	-6,748.29	4,515.11	4,587.00	4,416.82	170.18	26.954		
18,800.00	12,008.62	18,915.04	12,186.62	121.94	122.06	-92.70	-6,848.27	4,516.09	4,587.14	4,414.77	172.37	26.613		
18,900.00	12,009.71	19,015.04	12,188.58	123.49	123.61	-92.71	-6,948.24	4,517.07	4,587.28	4,412.73	174.56	26.280		
19,000.00	12,010.79	19,115.04	12,190.54	125.04	125.16	-92.72	-7,048.21	4,518.05	4,587.43	4,410.68	176.75	25.954		
19,100.00	12,011.87	19,215.03	12,192.50	126.60	126.72	-92.73	-7,148.18	4,519.03	4,587.57	4,408.62	178.95	25.637		

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



Total Directional Services

Anticollision Report



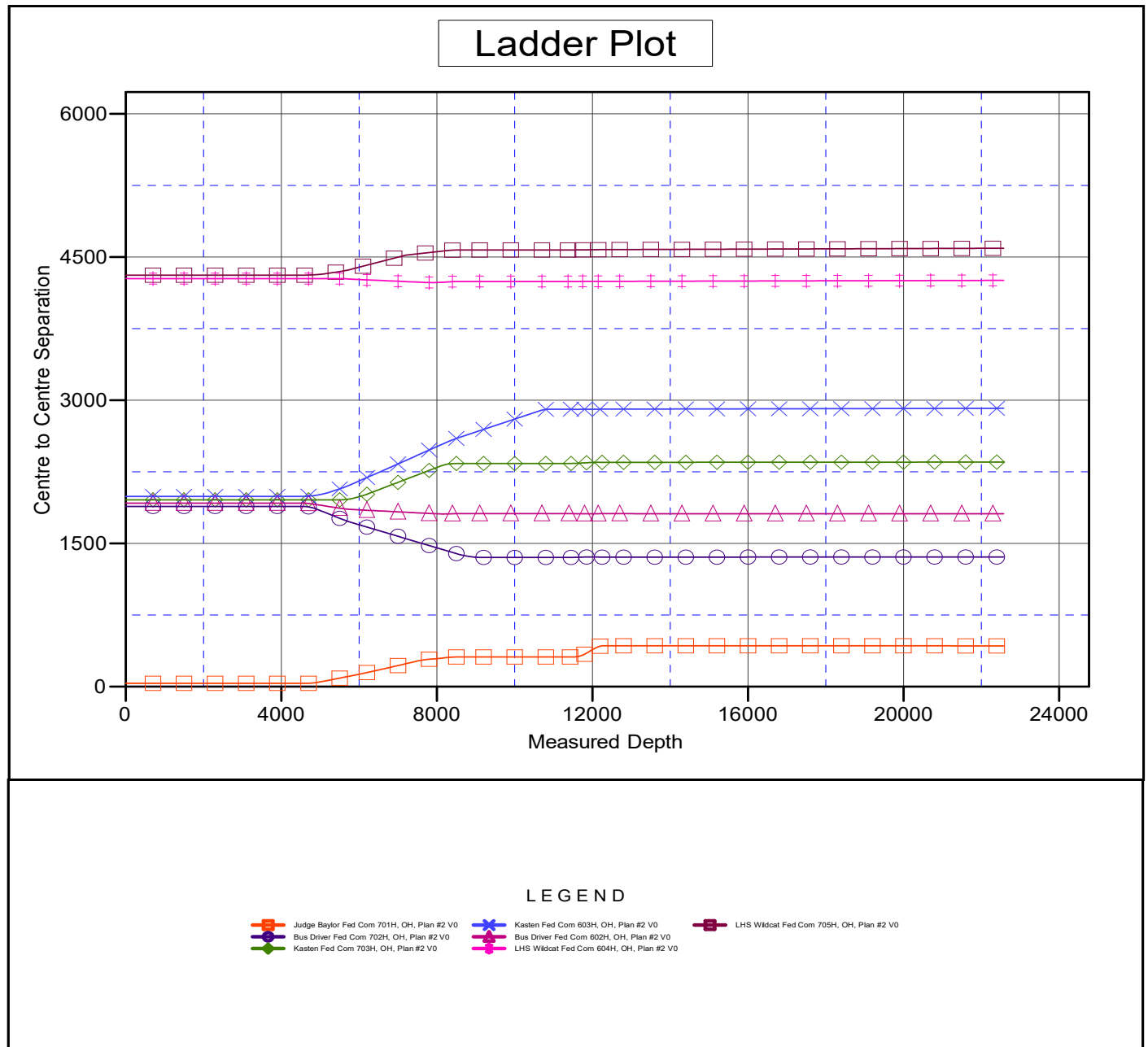
Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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)	Minimum Separation (usft)	Separation Factor		
19,200.00	12,012.95	19,315.03	12,194.45	128.16	128.27	-92.74	-7,248.15	4,520.01	4,587.71	4,406.57	181.15	25.326		
19,300.00	12,014.03	19,415.02	12,196.41	129.72	129.83	-92.76	-7,348.13	4,520.98	4,587.86	4,404.51	183.35	25.023		
19,400.00	12,015.12	19,515.02	12,198.37	131.28	131.39	-92.77	-7,448.10	4,521.96	4,588.00	4,402.44	185.56	24.726		
19,500.00	12,016.20	19,615.02	12,200.32	132.85	132.96	-92.78	-7,548.07	4,522.94	4,588.14	4,400.38	187.77	24.436		
19,600.00	12,017.28	19,715.01	12,202.28	134.42	134.52	-92.79	-7,648.04	4,523.92	4,588.29	4,398.31	189.98	24.152		
19,700.00	12,018.36	19,815.01	12,204.24	135.98	136.09	-92.80	-7,748.01	4,524.90	4,588.43	4,396.24	192.19	23.874		
19,800.00	12,019.45	19,915.01	12,206.20	137.56	137.66	-92.81	-7,847.99	4,525.88	4,588.58	4,394.16	194.41	23.602		
19,900.00	12,020.53	20,015.00	12,208.15	139.13	139.23	-92.82	-7,947.96	4,526.86	4,588.72	4,392.09	196.63	23.337		
20,000.00	12,021.61	20,115.00	12,210.11	140.70	140.81	-92.83	-8,047.93	4,527.84	4,588.86	4,390.01	198.85	23.076		
20,100.00	12,022.69	20,214.99	12,212.07	142.28	142.38	-92.84	-8,147.90	4,528.82	4,589.01	4,387.93	201.08	22.822		
20,200.00	12,023.78	20,314.99	12,214.02	143.86	143.96	-92.85	-8,247.88	4,529.80	4,589.15	4,385.84	203.31	22.572		
20,300.00	12,024.86	20,414.99	12,215.98	145.44	145.54	-92.86	-8,347.85	4,530.78	4,589.30	4,383.76	205.54	22.328		
20,400.00	12,025.94	20,514.98	12,217.94	147.02	147.12	-92.87	-8,447.82	4,531.75	4,589.44	4,381.67	207.77	22.089		
20,500.00	12,027.02	20,614.98	12,219.90	148.61	148.70	-92.89	-8,547.79	4,532.73	4,589.59	4,379.58	210.01	21.855		
20,600.00	12,028.11	20,714.97	12,221.85	150.19	150.29	-92.90	-8,647.76	4,533.71	4,589.73	4,377.49	212.24	21.625		
20,700.00	12,029.19	20,814.97	12,223.81	151.78	151.87	-92.91	-8,747.74	4,534.69	4,589.88	4,375.40	214.48	21.400		
20,800.00	12,030.27	20,914.97	12,225.77	153.36	153.46	-92.92	-8,847.71	4,535.67	4,590.03	4,373.30	216.72	21.179		
20,900.00	12,031.35	21,014.96	12,227.73	154.95	155.05	-92.93	-8,947.68	4,536.65	4,590.17	4,371.21	218.96	20.963		
21,000.00	12,032.44	21,114.96	12,229.68	156.54	156.64	-92.94	-9,047.65	4,537.63	4,590.32	4,369.11	221.21	20.751		
21,100.00	12,033.52	21,214.96	12,231.64	158.14	158.23	-92.95	-9,147.63	4,538.61	4,590.46	4,367.01	223.46	20.543		
21,200.00	12,034.60	21,314.95	12,233.60	159.73	159.82	-92.96	-9,247.60	4,539.59	4,590.61	4,364.91	225.70	20.339		
21,300.00	12,035.68	21,414.95	12,235.55	161.32	161.41	-92.97	-9,347.57	4,540.57	4,590.76	4,362.80	227.95	20.139		
21,400.00	12,036.77	21,514.94	12,237.51	162.92	163.01	-92.98	-9,447.54	4,541.55	4,590.90	4,360.70	230.20	19.943		
21,500.00	12,037.85	21,614.94	12,239.47	164.51	164.60	-92.99	-9,547.51	4,542.52	4,591.05	4,358.59	232.46	19.750		
21,600.00	12,038.93	21,714.94	12,241.43	166.11	166.20	-93.00	-9,647.49	4,543.50	4,591.20	4,356.49	234.71	19.561		
21,700.00	12,040.01	21,814.93	12,243.38	167.71	167.80	-93.02	-9,747.46	4,544.48	4,591.34	4,354.38	236.97	19.375		
21,800.00	12,041.10	21,914.93	12,245.34	169.31	169.39	-93.03	-9,847.43	4,545.46	4,591.49	4,352.27	239.22	19.193		
21,900.00	12,042.18	22,014.92	12,247.30	170.91	170.99	-93.04	-9,947.40	4,546.44	4,591.64	4,350.16	241.48	19.014		
22,000.00	12,043.26	22,114.92	12,249.25	172.51	172.60	-93.05	-10,047.37	4,547.42	4,591.79	4,348.05	243.74	18.839		
22,100.00	12,044.34	22,214.92	12,251.21	174.11	174.20	-93.06	-10,147.35	4,548.40	4,591.94	4,345.93	246.00	18.666		
22,200.00	12,045.43	22,314.91	12,253.17	175.72	175.80	-93.07	-10,247.32	4,549.38	4,592.08	4,343.82	248.26	18.497		
22,300.00	12,046.51	22,414.91	12,255.13	177.32	177.40	-93.08	-10,347.29	4,550.36	4,592.23	4,341.70	250.53	18.330		
22,400.00	12,047.59	22,514.90	12,257.08	178.93	179.01	-93.09	-10,447.26	4,551.34	4,592.38	4,339.59	252.79	18.167		
22,500.00	12,048.67	22,614.90	12,259.04	180.53	180.61	-93.10	-10,547.24	4,552.31	4,592.53	4,337.47	255.06	18.006		
22,572.67	12,049.46	22,687.57	12,260.46	181.70	181.78	-93.11	-10,619.89	4,553.03	4,592.64	4,335.93	256.70	17.891 SF		

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Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3070' GE + 21' KB @ 3091.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Judge Baylor Fed Com 601H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.53°

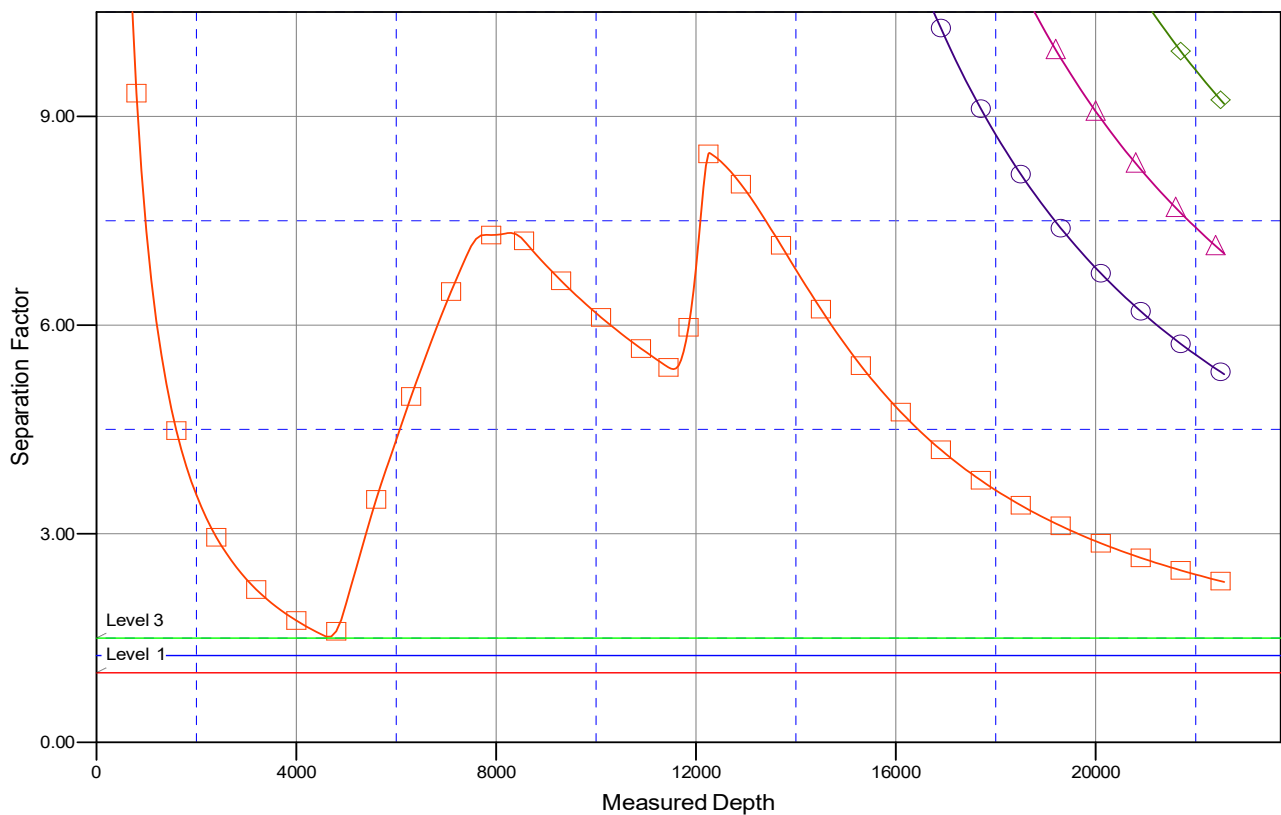


Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
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 Central Meridian is -104.333334

Coordinates are relative to: Judge Baylor Fed Com 601H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.53°

Separation Factor Plot



LEGEND

Judge Baylor Fed Com 701H, OH, Plan #2 V0	Kasten Fed Com 603H, OH, Plan #2 V0	LHS Wildcat Fed Com 705H, OH, Plan #2 V0
Bus Driver Fed Com 702H, OH, Plan #2 V0	Bus Driver Fed Com 602H, OH, Plan #2 V0	Kasten Fed Com 703H, OH, Plan #2 V0
Kasten Fed Com 703H, OH, Plan #2 V0	LHS Wildcat Fed Com 604H, OH, Plan #2 V0	



Judge Baylor Fed Com 601H

1. Geologic name of surface location: Permian

2. Estimated tops of important geological markers:

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,070'	21'	21'	0	Sand/Gravels/unconsolidated
Rustler	2,397'	694'			Carbonates
Salado	2,012'	1,079'			Salt, Carbonate & Clastics
Base Salt	-1,505'	4,596'			Shaley Carbonate & Shale
Lamar	-1,940'	5,031'			Carbonate & Clastics
Bell Canyon	-1,974'	5,065'			Sandstone - oil/gas/water
Cherry Canyon	-2,841'	5,932'			Sandstone - oil/gas/water
Brushy Canyon	-4,333'	7,424'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,694'	8,785'			Shale/Carbonates - oil/gas
Avalon	-5,718'	8,809'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-6,820'	9,911'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,959'	10,050'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,344'	10,435'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-8,044'	11,135'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,715'	11,806'			Sandstone - oil/gas/water
HZ Target at SHL	-8,844'	11,935'			Overpressure shale/sand- Oil/Gas
Wolfcamp	-8,957'	12,048'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-9,018'	12,109'			Overpressure Shale - Oil/Gas
Wolfcamp B	-9,238'	12,329'			Overpressure Shale - Oil/Gas

3. Estimated depth of anticipated fresh water, oil or gas:

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,065'	Oil
Bone Spring	9,911'	Oil
Wolfcamp	12,048	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13 3/8" casing at 1,300' and circulating cement back to surface.

4. Casing Program:

All casings strings will be run new. Safety factors calculated assuming the well is vertical.

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1300	1.18	1.67	4.99	5.32
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	5400	1.72	1.67	2.90	3.30
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Stinger 564	12268	1.08	1.25	1.78	1.21
Long string 5 1/2"	23	P-110	14520	14520	729	Anaconda 656	22572	1.32	1.37	1.18	1.06



Cementing Program:

Cementing Stage tool can be placed in the 1st Intermediate string as a contingency to ensure required TOC to surface.

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Lead Type of cmt	Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Tail Type of cmt	Yield ft3/sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1300	804	Extenda Cem, 13.5 ppg Class C, 3lb/sk Kol-Seal	1.728	9.19	0	331	HalCem TM, 14.8 ppg, Class C, 2% CaCl2, 0.25pps Cello-Flake	1.364	6.51	1000	100%
Int1	12.25	9.625	5400	1256	Neocem TM, 11.5 ppg, Class C 50:50 Poz	2.271	13.24	0	152	HalCem TM, 14.8 ppg, Class C, 0.25 pps Cello-Flake, 2% CaCl2	1.349	6.25	5100	100%
Int2	8.75	7.625	12268	357	Gel, 0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal									
					NeoCem, 11 ppg, Class C 2lb/sk Bridgemaker Gel, 5%	2.777	14.21	4400	112	NeoCem 13.2 ppg, Class C	1.44	4.31	11268	50%
					Salt, 5pps LCM, 0.25pps Cello-Flake					0.25 pps Cello-Flake, 2% CaCl2				
Prod	6.75	5.5	22572	522	NeoCem, 14.5 ppg, Gas Migration Control	2.166	9.38	11268						20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 ½" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/250 psig and the annular preventer to 5,000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the second intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The second intermediate casing will be tested to 2000 psi for 30 minutes prior to drillout.



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.

6. Types and characteristics of the proposed mud system:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal. The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 12,268'	Brine	8.8-10.2	28-34	N/c
12,268' – 22,572' Lateral	Oil Base	10.0-11.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 10-11 ppg. In order to maintain hole stability, mud weights up to 12.0 ppg may be utilized.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. Auxiliary well control and monitoring equipment:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

(C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

(D) A wear bushing will be installed in the wellhead prior to drilling out of the surface casing.

8. Logging, testing and coring program:

GR-CCL-CNL Will be run in cased hole during completions phase of operations.

Open-hole logs are not planned for this well.

9. Abnormal conditions, pressures, temperatures and potential hazards:

The estimated bottom-hole temperature at 12,049' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,518 psig (based on 12 ppg MW). Hydrogen sulfate may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

- A. All personnel shall receive proper awareness H₂S training.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment
 - a. Well Control Equipment
 - i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.
 - ii. Choke manifold with a remotely operated hydraulic choke.
 - iii. Mud/gas separator
 - b. Protective equipment for essential personnel
 - i. Breathing Apparatus



1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.
2. Work/Escapes packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation
- ii. Auxiliary Rescue Equipment
 1. Stretcher
 2. Two OSHA full body harnesses
 3. 100 feet of 5/8 inches OSHA approved rope
 4. 1-20# class ABC fire extinguisher
- c. H2S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 1. Rig Floor
 2. Below Rig Floor / Near BOPs
 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H2S is encountered, measured values and formations will be provided to the BLM.
- d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
- e. Mud Program
 - i. The Mud program will be designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

Franklin Mountain Energy has conducted a review of offset operated wells to determine if an H2S contingency plan is required for the proposed well. Based on concentrations of offset wells, proximity to main roads, and distance to populated areas, the radius of exposure created by a potential release was determined to be minimal and low enough to not necessitate an H2S contingency plan. This will be reevaluated during wellbore construction if H2S is observed and after the well is on production.

11. Anticipated starting date and duration of operations:

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on



the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the “batch drilling” method may be used. A batch drilling sequence sundry will be submitted for BLM approval prior to spud. A drilling rig with walking/skidding capabilities will be used.

12. Disposal/environmental concerns:

- (A) Drilled cuttings will be hauled to and disposed of in a state-certified disposal site.
- (B) Non-hazardous waste mud/cement from the drilling process will be also be hauled to and disposed of in a state-certified disposal site.
- (C) Garbage will be hauled to the Pecos City Landfill.
- (D) Sewage (grey water) will be hauled to the Carlsbad City Landfill

13. Wellhead:

A multi-bowl wellhead system will be utilized.

After running the 13 3/8” surface casing, a 13-5/8” BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 21 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5,000 psi.

After running the 2nd intermediate casing, and before drilling out, the wellhead, BOP, and related equipment will be tested to 10,000/250 psig.

The multi-bowl wellhead will be installed by vendor’s representative(s). A copy of the installation instructions for the Cameron Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

The wellhead will be installed by a third party welder while being monitored by WH vendor’s representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing strings. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi. After installation of the second intermediate string, the pack-off and upper flange will be pressure tested to 10,000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

14. Additional variance requests

A. Casing.

In order to minimize potential environmental and technical hazards, this well is planned with two intermediate strings of casing.

1. Variance is requested to wave the centralizer requirements for the 7 5/8” casing due to the tight clearance with 9 5/8” string.
2. Variance is requested to wave/reduce the centralizer requirements for the 5 ½” casing due to the tight clearance with 6 3/4” hole and 5 ½” casing due to tight clearances.