

Form 3160-3  
(October 2024)

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2027

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

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No.  6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No.  8. Lease Name and Well No.
2. Name of Operator		9. API Well No. <span style="color: red;">30-045-38524</span>
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
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.<br>2. A Drilling Plan.<br>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification.<br>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.



(Continued on page 2)

\*(Instructions on page 2)

## Additional Operator Remarks

### Location of Well

0. SHL: SWNW / 1622 FNL / 957 FWL / TWSP: 25N / RANGE: 12W / SECTION: 21 / LAT: 36.3894333 / LONG: -108.1225222 ( TVD: 0 feet, MD: 0 feet )  
PPP: SENW / 2120 FNL / 1362 FWL / TWSP: 25N / RANGE: 12W / SECTION: 21 / LAT: 36.3880696 / LONG: -108.1211438 ( TVD: 4789 feet, MD: 5100 feet )  
PPP: NWNW / 544 FNL / 1 FWL / TWSP: 25N / RANGE: 12W / SECTION: 27 / LAT: 36.3779258 / LONG: -108.1078382 ( TVD: 4792 feet, MD: 13107 feet )  
PPP: NENE / 1 FNL / 575 FEL / TWSP: 25N / RANGE: 12W / SECTION: 28 / LAT: 36.379418 / LONG: -108.1097952 ( TVD: 4792 feet, MD: 13107 feet )  
PPP: SWSE / 1319 FSL / 1975 FEL / TWSP: 25N / RANGE: 12W / SECTION: 21 / LAT: 36.3830457 / LONG: -108.1145534 ( TVD: 4792 feet, MD: 13107 feet )  
BHL: SENW / 2302 FNL / 1864 FWL / TWSP: 25N / RANGE: 12W / SECTION: 27 / LAT: 36.3730982 / LONG: -108.1015075 ( TVD: 4792 feet, MD: 13107 feet )

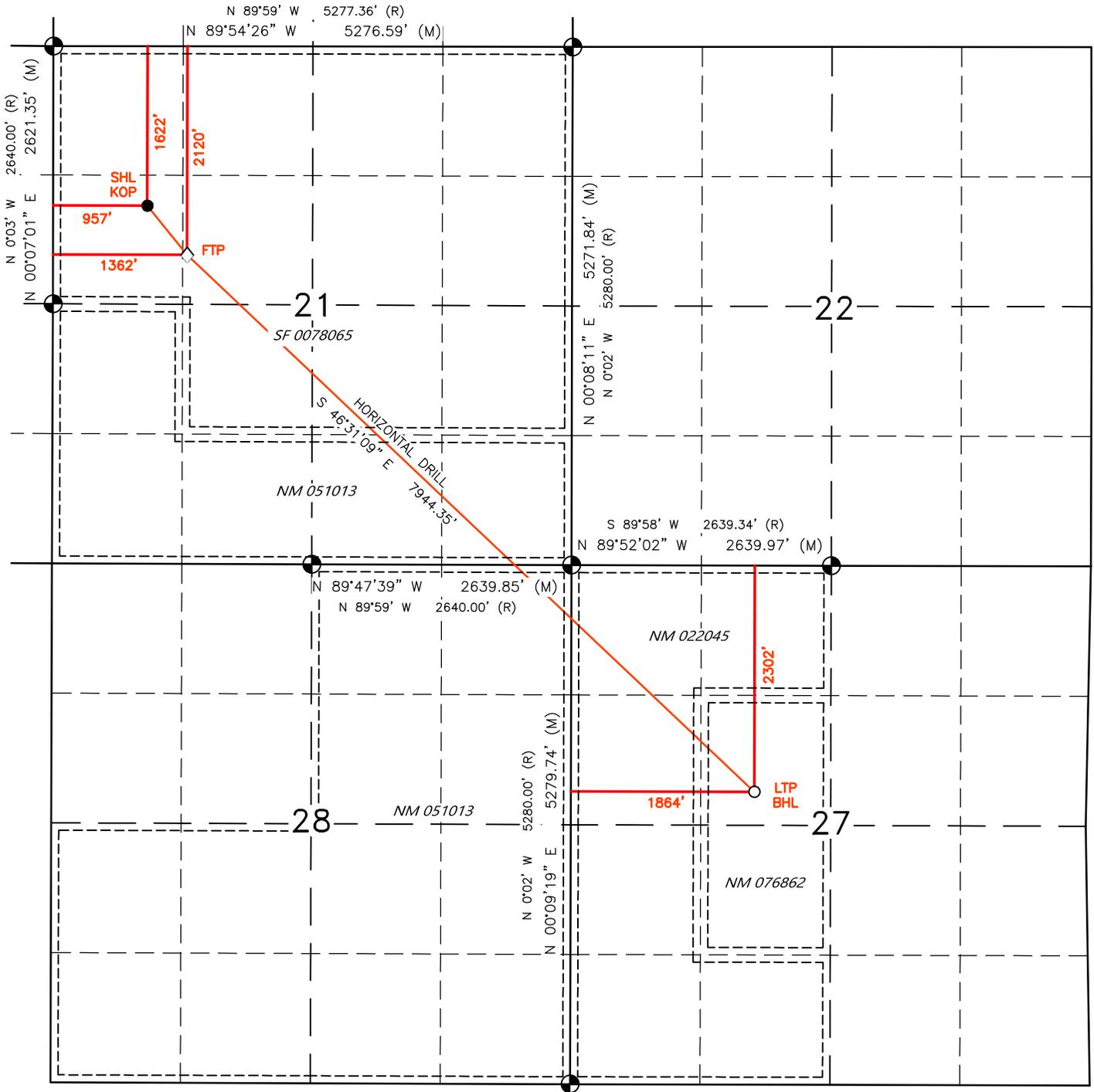
### BLM Point of Contact

Name: CHRISTOPHER P WENMAN  
Title: Natural Resource Specialist  
Phone: (505) 564-7727  
Email: cwenman@blm.gov

CONFIDENTIAL



FND 2.5" BC  
GLO 1911



SURFACE LOCATION (SHL) ●  
 1622' FNL 957' FWL  
 SEC. 21, T25N, R12W  
 LAT. 36.389433° N (NAD83)  
 LONG. 108.122522° W (NAD83)

KICK OFF POINT (KOP) ▲  
 1622' FNL 957' FWL  
 SEC. 21, T25N, R12W  
 LAT. 36.389433° N (NAD83)  
 LONG. 108.122522° W (NAD83)

FIRST TAKE POINT (FTP) ◇  
 2120' FNL 1362' FWL  
 SEC. 21, T25N, R12W  
 LAT. 36.388069° N (NAD83)  
 LONG. 108.121144° W (NAD83)

LAST TAKE POINT (LTP) □  
 2302' FNL 1864' FEL  
 SEC. 27, T25N, R12W  
 LAT. 36.373098° N (NAD83)  
 LONG. 108.101508° W (NAD83)

BOTTOM HOLE LOCATION (BHL) ○  
 2302' FNL 1864' FEL  
 SEC. 27, T25N, R12W  
 LAT. 36.373098° N (NAD83)  
 LONG. 108.101508° W (NAD83)

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

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

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description Effective May 25, 2021

**I. Operator:**  DJR Operating, LLC  **OGRID:**  371838  **Date:**  12 / 12 / 2025

**II. Type:**  Original  Amendment due to  19.15.27.9.D(6)(a) NMAC  19.15.27.9.D(6)(b) NMAC  Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Carson Unit 578H	TBD	E-21-25N-12W	1602 FNL 957 FWL	850	1701	166
Carson Unit 582H	TBD	E-21-25N-12W	1622 FNL 657 FWL	850	1701	166
Carson Unit 605H	TBD	E-21-25N-12W	1582 FNL 957 FWL	850	1701	166
Carson Unit 609H	TBD	E-21-25N-12W	1562 FNL 657 FWL	850	1701	166
				3-year Decline	3-year Decline	3-year Decline
Carson Unit 578H	TBD	E-21-25N-12W	1602 FNL 957 FWL	192	384	38
Carson Unit 582H	TBD	E-21-25N-12W	1622 FNL 657 FWL	192	384	38
Carson Unit 605H	TBD	E-21-25N-12W	1582 FNL 957 FWL	192	384	38
Carson Unit 609H	TBD	E-21-25N-12W	1562 FNL 657 FWL	192	384	38

**IV. Central Delivery Point Name:**  Chaco Processing Plant  [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Carson Unit 578H	TBD	Q2 2026	Q2 2026	Q2 2026	Q2 2026	Q2 2026
Carson Unit 582H	TBD	Q2 2026	Q2 2026	Q2 2026	Q2 2026	Q2 2026
Carson Unit 605H	TBD	Q2 2026	Q2 2026	Q2 2026	Q2 2026	Q2 2026
Carson Unit 609H	TBD	Q2 2026	Q2 2026	Q2 2026	Q2 2026	Q2 2026

**VI. Separation Equipment:**  Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:**  Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:**  Attach a complete description of Operator’s best management practices to minimize venting during active and planned maintenance.

**Section 2 – Enhanced Plan**  
**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

**IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

**X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.**  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system  will  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator  does  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:**  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.**  Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Shaw-Marie Valadez</i>
Printed Name: Shaw-Marie Valadez
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 12/12/2025
Phone: 505-716-3297
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval:



DJR OPERATING, LLC.  
OGRID NO: 371838  
NATURAL GAS MANAGEMENT PLAN  
CARSON UNIT 578H 582H 605H and 609H

### SEPARATION EQUIPMENT

DJR Operating, LLC (DJR) has pulled representative pressurized samples from wells in the same producing formation. DJR has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

Separation equipment will be set as follows:

- Individual 3 phase separator will be set for the individual well.
- The separator will be sized based on the anticipated volume of the well and the pressure of the lines utilized for oil, gas, and water takeaway.
- The 3 phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

Heater treaters will be set as follows:

- Individual heater treaters will be set for the individual well.
- The heater treaters are sized based on the anticipated combined volume of oil and produced water predicted to come from the initial 3 phase separator.
- Oil will be separated from the produced water and the oil/produced water will be sent to its respective tanks.
- The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

Vapor Recovery Equipment will be set as follows:

- The Vapor Recovery Tower has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks.
- The Vapor Recovery Unit has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks. The Vapor Recovery Unit is utilized to push the recovered gas into the sales pipeline.

Production storage tanks will be set as follows:

- The oil and produced water tanks utilize a closed vent capture system to ensure all breathing, working, and flashing losses are routed to the Vapor Recovery Tower and Vapor Recovery Unit.
- Each of the production storage tanks will be equipped with a 0.5 MMBtu/hr indirect heater.



DJR OPERATING, LLC.  
OGRID NO: 371838  
NATURAL GAS MANAGEMENT PLAN  
CARSON UNIT 578H 582H 605H and 609H

### **VENTING and FLARING**

DJR Operating, LLC (DJR) has a natural gas system available prior to startup of completion operations. DJR utilizes a Vapor Recovery Unit System and sells all natural gas except during periods of startup, shutdown, maintenance, or malfunction for the gas capturing equipment, including the vapor recovery tower, vapor recovery unit, storage tanks, and pipelines.

Currently, DJR utilizes the following from list A-I of Section 3 for its operations to minimize flaring:

- a) DJR utilizes natural gas-powered generators to power its leases where grid power isn't available.
- b) When electrical grid power is unavailable, natural gas generators will be used for major equipment onsite.
- c) DJR's in service compression will be natural gas powered.
- d) Should liquids removal, such as dehydration be required, units will be powered by natural gas.

DJR will only flare gas during the following times:

- o Scheduled maintenance for gas capturing equipment including:
  - o Vapor Recovery Tower
  - o Vapor Recovery Unit
  - o Storage tanks
  - o Pipelines
  - o Emergency flaring



DJR OPERATING, LLC.  
OGRID NO: 371838  
NATURAL GAS MANAGEMENT PLAN  
CARSON UNIT 578H 582H 605H and 609H

## OPERATIONAL PRACTICES

### 19.15.27.8 A. Venting and Flaring of Natural Gas

DJR Operating, LLC (DJR) understands the requirements of NMAC 19.15.27.8 which states that the venting and flaring of natural gas during drilling, completion or production that constitutes waste as defined in 19.15.2 are prohibited.

### 19.15.27.8 B. Venting and flaring during drilling operations

- DJR shall capture or combust natural gas if technically feasible during drilling operations using best industry practices.
- A flare stack with a 100% capacity for expected volumes will be set on location of the facility at least 100 feet from the nearest surface hole location, well heads, and storage tanks.
- In the event of an emergency, DJR will vent natural gas in order to avoid substantial impact. DJR shall report the vented or flared gas to the NMOCD.

### 19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, DJR utilizes the following:

- DJR facilities are built and ready from day 1 of Flowback.
- Individual well test separators will be set to properly separate gas and liquids. Temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline. See Separation Equipment for details.
- Should the facility not yet be capable of processing gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or temporary flare to manage natural gas. This flare would meet the following requirements:
  - 1) An appropriately sized flare stack with an automatic igniter.
  - 2) DJR analyzes the natural gas samples twice per week.
  - 3) DJR routes the natural gas into a gathering pipeline as soon as the pipeline specifications are met.
  - 4) DJR provides the NMOCD with pipeline specifications and natural gas data.



#### **19.15.27.8 D. Venting and flaring during production operations**

During Production Operations DJR will not vent or flare natural gas except under the following circumstances:

1. During an emergency or malfunction
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided:
  - a. DJR does not vent after the well achieves a stabilized rate and pressure.
  - b. DJR will remain present on-site during liquids unloading by manual purging and take all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time.
  - c. DJR will optimize the system to minimize natural gas venting on any well equipped with a plunger lift or auto control system.
  - d. Best Management Practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided:
  - a. DJR receives approval from the NMOCD.
  - b. DJR remains in compliance with the NM gas capture requirements.
  - c. DJR submits an updated C-129 form to the NMOCD.
4. During the following activities unless prohibited:
  - a. Gauging or sampling a storage tank or low-pressure production vessel.
  - b. Loading out liquids from a storage tank.
  - c. Repair and maintenance.
  - d. Normal operation of gas activated pneumatic controller or pump.
  - e. Normal operation of a storage tank but not including venting from a thief hatch.
  - f. Normal operation of dehydration units.
  - g. Normal operations of compressors, compressor engines, turbines, valves, flanges, and connectors.
  - h. During a bradenhead, packer leakage test, or production test lasting less than 24-hours.
  - i. When natural gas does not meet the gathering pipeline specifications.
  - j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

#### **19.15.27.8 E. Performance standards**

1. DJR has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
2. DJR will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it its designed with an auto ignition system.
3. Flare stacks will appropriately sized and designed to ensure proper combustion efficiency.
  - a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.



- b. Previously installed flare stacks will be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts DJR of flare malfunction within 18 months after May 25, 2021.
  - c. Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if located at a well or facility with average daily production of 60,000 cubic feet of natural gas or less.
  - d. Flare stacks will be located at least 100 feet from the well and storage tanks and securely anchored.
4. DJR will conduct an AVO inspection on all components for leaks and defects on a weekly basis.
  5. DJR will make and keep records of AVO inspections which will be available to the NMOCD for at least 5 years.
  6. DJR may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
  7. Facilities will be designed to minimize waste.
  8. DJR will resolve emergencies as promptly as possible.

**19.15.27.8 F. Measurement or estimation of vented and flared natural gas**

1. DJR will have meters on both the low- and high-pressure sides of the flares and the volumes will be recorded in DJR's SCADA system.
2. DJR will install equipment to measure the volume of flared natural gas that has an average daily production of 60,000 cubic feet or greater of natural gas.
3. DJR's measuring equipment will conform to the industry standards.
4. The measurement system is designed such that it cannot be bypassed except for inspections and servicing meters.
5. DJR will estimate the volume of vented or flared natural gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
6. DJR will estimate the volume of flared and vented natural gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on Form C-116.
7. DJR will install measuring equipment whenever the NMOCD determines that metering is necessary.



DJR OPERATING, LLC.  
OGRID NO: 371838  
NATURAL GAS MANAGEMENT PLAN  
CARSON UNIT 578H 582H 605H and 609H

### **BEST MANAGEMENT PRACTICES**

DJR Operating, LLC (DJR) utilizes the following Best Management Practices to minimize venting during active and planned maintenance.

DJR has a closed vent capture system to route emissions from the heater treater, tanks, and vapor recovery to the vapor recovery unit with an enclosed combustion device (ECD) for backup. The system is designed such that if the vapor recovery unit is taken out of service for any reason, the vapors will be routed to the ECD for combustion.

DJR will isolate and attempt to route all vapors to the vapor recovery unit or ECD prior to opening any lines for maintenance to minimize venting from the equipment.

DJR shall notify the NMOCD of venting or flaring that exceeds 50 MCF but less than 500 MCF in volume that either resulted from an emergency or malfunction, or an event lasting over eight hours or more cumulatively within any 24-hour period from a single event by filing a form C-129 no later than 15 days following the discovery or commencement of venting or flaring.

DJR shall notify the NMOCD verbally or by e-mail within 24-hours following discovery or commencement of venting or flaring that exceeds 500 MCF in volume or otherwise qualifies as a major release as defined in 19.15.29.7 NMAC from a single event and provide the information required in form C-129 to the NMOCD no later than 15 days that verifies, updates, or corrects the verbal or e-mail notification.

DJR will install measuring equipment to conform to industry standards such as American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS) Chapter 14.10 Measurement of Flow to Flares.

DJR's measuring equipment shall not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

DJR shall report the volume of vented and flared natural gas for each well or facility at which venting or flaring occurred on a monthly basis.

Rev 3



## DRILLING PLAN Carson Unit #582H San Juan County, New Mexico

**Surface Location**

957-ft FWL & 1622-ft FNL  
Sec 21 T25N R12W  
Graded Elevation 6296' MSL  
RKB Elevation 6310' (14' KB)

**SHL Geographical Coordinates (NAD-83)**

Latitude 36.3894333° N  
Longitude 108.1252222° W

**Kick Off Point for Horizontal Build Curve**

4155-ft MD  
4154-ft TVD

**Local Coordinates (from SHL)**

46-ft South  
54-ft West

**Heel Location (Pay zone entry)**

1362-ft FWL & 2120-ft FNL  
Sec 21 T25N R12W

**Heel Geographical Coordinates (NAD-83)**

Latitude 36.38806914° N  
Longitude 108.12114221° W

**Bottom Hole Location (TD)**

1864-ft FWL & 2302-ft FNL  
Sec 27 T25N R12W

**BHL Geographical Coordinates (NAD-83)**

Latitude 36.3730982° N  
Longitude 108.1015075° W

**Well objectives**

This well is planned as a 7940-ft lateral in the Gallup C sand.

**Bottom Hole temperature and pressure**

The temperature in the Gallup C horizontal objective is 134°F. Bottom hole pressure in the Gallup C is forecast to be 1985 psi.

**Formation Tops** (Sd = Sand; Sh = Shale; Siltstone = Slt, Coal = C; W = water; O = oil; G = gas; NP = no penetration)

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	186	186	Sd	W	8.3	8.4 – 8.8
Kirtland	335	335	Sh	-	8.3	8.4 – 8.8
Fruitland	916	916	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1161	1161	Sd	W	8.3	9.0 - 9.5
Lewis	1254	1254	Sh	-		9.0 - 9.5
Chacra	1903	1903	Sd	-	8.3	9.0 - 9.5
Menefee	2486	2486	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3554	3553	Sd	-	8.3	9.0 - 9.5
Mancos	3711	3710	Sh	-		9.0 - 9.5
Mancos Silt	4036	4035	Slt	O/G	6.6	9.0 - 9.5
Gallup A	4599	4563	Slt	O/G	6.6	9.0 - 9.5
Gallup B	4689	4628	Sd	O/G	6.6	8.8 - 9.0
Gallup C	4855	4722	Sd	O/G	6.6	8.8 - 9.0
Target	5163	4792	Sd	O/G	6.6	8.8 - 9.0

**Casing Program**

Casing OD	Hole Size	Weight (#/ft)	Grade	Coupling	MD Top	MD Bottom	TVD Top	TVD Bottom	Top of Cement
9-5/8"	12-1/4"	36	K-55	STC	surf	350	surf	350	surface
7"	8-3/4"	26	K-55	LTC	surf	5100	surf	4789	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	4822	13107	4706	4706	4822

Note: all casing will be new



Rev 3

**Casing Design Load Cases**

Description		Casing String		
		9-5/8" Surface	7" Intermediate	4-1/2" Production Liner
Collapse	Full internal evacuation <sup>1</sup>	✓	✓	✓
	Cementing	✓	✓	✓
Burst	Pressure test	✓ <sup>2</sup>	✓ <sup>2</sup>	✓
	Gas kick		✓ <sup>3</sup>	
	Fracture at shoe, 1/3 BHP at surface		✓ <sup>4</sup>	
	Injection down casing			✓ <sup>5</sup>
Axial	Dynamic load on casing coupling <sup>6</sup>	✓	✓	✓
Axial	Overpull <sup>7</sup>	✓	✓	✓

**Note #**

- 1 Fluid level at shoe, air column to surface, pore pressure outside
- 2 Tested to 80% of minimum internal yield with freshwater inside, pore pressure outside
- 3 50 bbl kick at TD, 0.50 ppg intensity, 4" drill pipe, 9.0 ppg mud, fracture gradient at shoe
- 4 2060 psi BHP, 687 psi surface pressure, 12.5 ppg EMW shoe integrity
- 5 Surface stimulation pressure of 8000 psi on 8.3 ppg fluid column. Stimulation will be down frac string, so load does not apply to 7" intermediate casing.
- 6 Shock load from abrupt pipe deceleration, evaluated against coupling rating
- 7 Overpull values as follows: Surface casing 20,000 lbs, Intermediate & Production 100,000 lbs

**Casing Design Factors**

Casing string	Casing OD	Design Factors			
		Burst	Collapse	Axial	Triaxial
Surface	9-5/8"	1.25	13.38	8.16	1.56
Intermediate	7"	1.25	1.50	1.68	1.34
Production liner	4-1/2"	1.37	3.68	1.88	1.69

**Cement Design**

9-5/8" Surface Casing

	<u>Lead</u>
Name	Redi-Mix
Type	I-II
Planned top	Surface
Density (ppg)	14.50
Yield (cf/sx)	1.61
Mix water (gal/sx)	7.41
Volume (sx)	114
Volume (bbls)	33
Volume (cu. ft.)	185
Excess %	50

7" Intermediate Casing

	<u>Lead</u>	<u>Tail</u>
	BJ Services	BJ Services
Type	III	Poz/G
Planned top	Surface	3655-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.50
Mix water (gal/sx)	13.26	7.20
Volume (sx)	354	231
Volume (bbls)	148	62
Volume (cu.ft.)	829	346
Excess %	55	55



Rev 3

4-1/2" Production Liner

	BJ Services
Type	Poz/G
Planned top	4822-ft
Density (ppg)	13.3
Yield (cf/sx)	1.56
Mix water (gal/sx)	7.71
Volume (sx)	696
Volume (bbls)	194
Volume (cu.ft)	1088
Excess %	40

**Wellhead & Pressure Control**

The well head will be an 11" 5M multi-bowl system. A 3M BOPE conforming to Onshore Order #2 will be installed on the surface casing. The BOP and accumulator will meet API 16D and 16E respectively.

A PVT mud monitoring system and a trip tank will be rigged up and operational for all hole intervals. An electronic geograph will be employed to monitor and record drilling data (ROP, WOB, SPM, Pressure, RPM and torque).

**Mud Program**

Surface hole will be drilled with a fresh water, native mud system. In intermediate hole, a low weight 7% KCl LSND drilling fluid will be used, with KCl providing chemical stability for the young shales and clays present in the interval. In production hole a LSND system with polymer and lubricant additives is programmed. Sufficient drill water and mud additives will be on hand to maintain adequate pit volumes and maintain well control.

Hole Section	Fluid type	Interval (MD)	Density (ppg)	Funnel Viscosity	Yield Point	Fluid Loss (cc/30 min)
Surface	Fresh water spud mud	0 – 350	8.4 – 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non-dispersed	350 – 5100	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5100 – 13107	8.8 – 9.2	34 – 38	6 – 8	6 – 8

**Cores, tests and logs**

Wellbore surveying: Drift (inclination only) surveys will be obtained in surface hole. MWD directional surveys will be taken in intermediate and production hole.

Logging while drilling: None in surface hole. MWD GR in intermediate and production hole.

Mud logging: a two-person mud logging unit with C1 – C4 gas analysis will be operational in intermediate and production hole.

Electric logging: No open hole electric logs are programmed. A cased hole GR/CCL will be run during completions for perforating depth control.

**Cuttings and drilling fluids management**

A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports with a bucket loader. Drying agents will be used if necessary. The solids will be taken to a licensed commercial disposal facility. Whole mud will be dewatered back to drill water and used as make up for subsequent wells or hauled off for disposal. A diagram of the closed loop system is included.

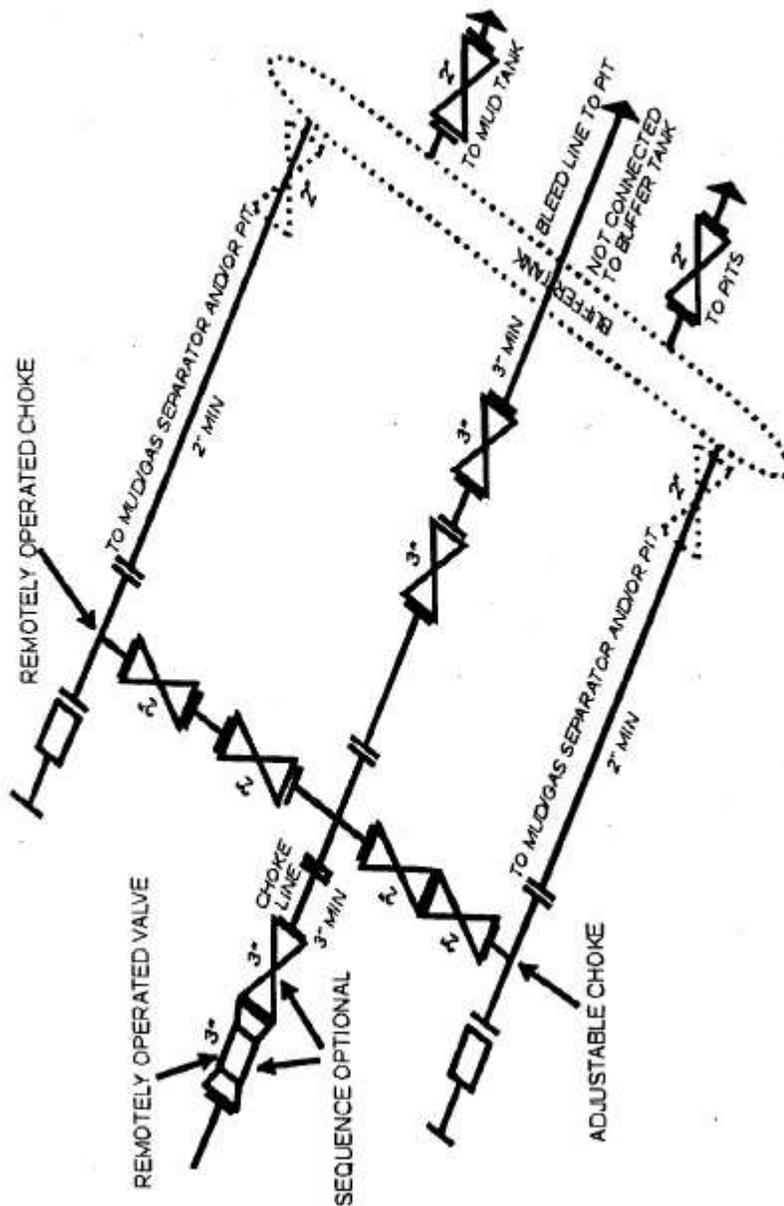
**Completion**

It is envisioned that this well will be completed with a multi-stage sand frac, using the plug and perf technique. After drilling out the plugs, the current plan is to install a 2-7/8" plunger-assisted gas lift tubing string. The stimulation and completion plan will be sundried at a later date.



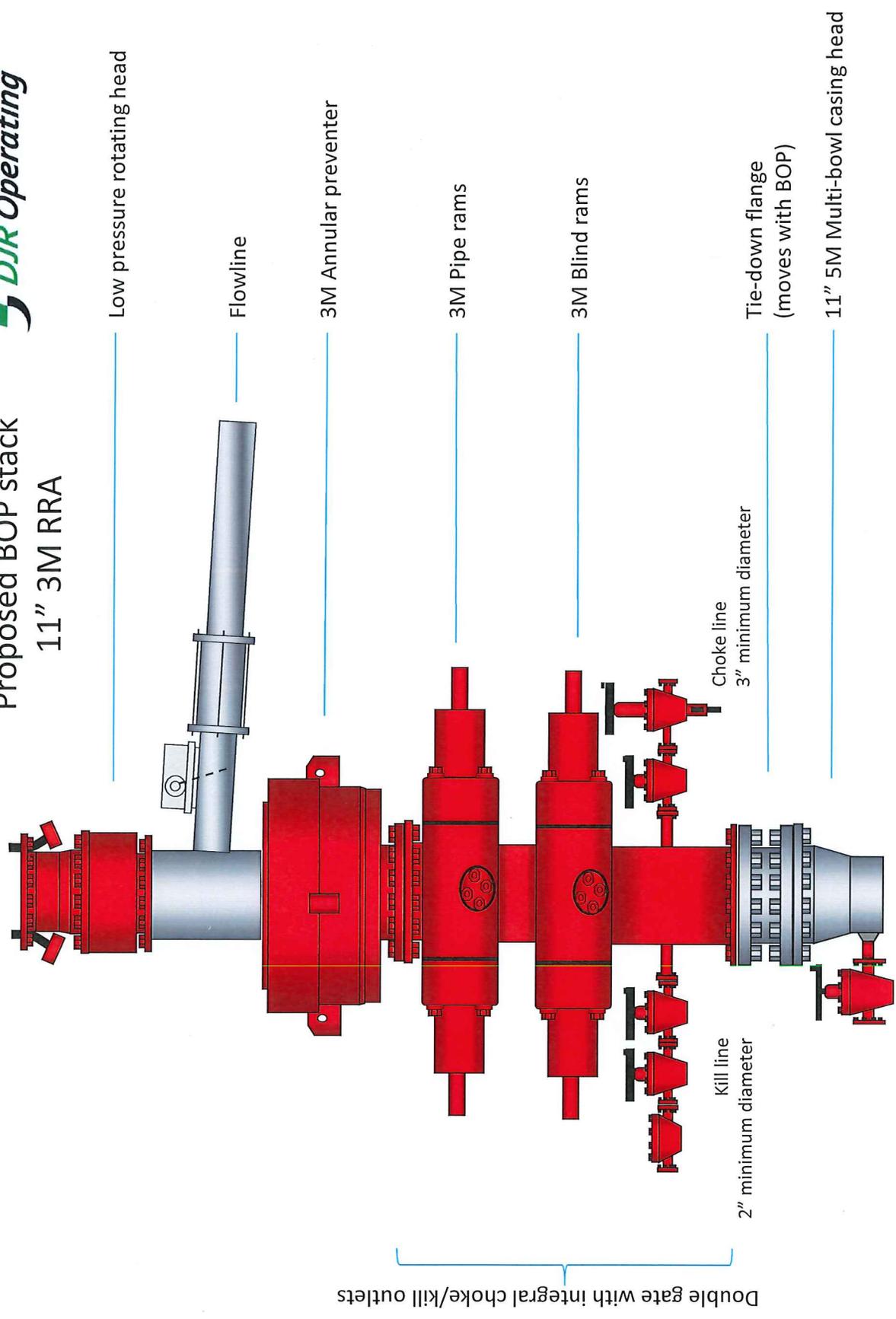
# Choke Manifold

Actual system to conform with Onshore Order 2





# Proposed BOP stack 11" 3M RRA





WELL DETAILS: Carson #582H

GL 6296' & RKB 14' @ 6310.00ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1961203.47	2637975.67	36.389	-108.123

Plan: APD rev 2 (Carson #582H/Original Drilling)

Created By: Janie Collins Date: 10:20, March 16 2021



Azimuths to True North:  
 Magnetic North: 8.8°  
 Magnetic Field  
 Strength: 49499.8 nT  
 Dip Angle: 62.8°  
 Date: 7/3/2020  
 Model: HDGM\_FIT

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
582H Heel	4784.00	-1197.01	256.79	1960005.70	2638228.87	36.386	-108.122
582H Toe	4706.00	-5943.80	5568.56	1955243.03	2643526.39	36.373	-108.104

SECTION DETAILS

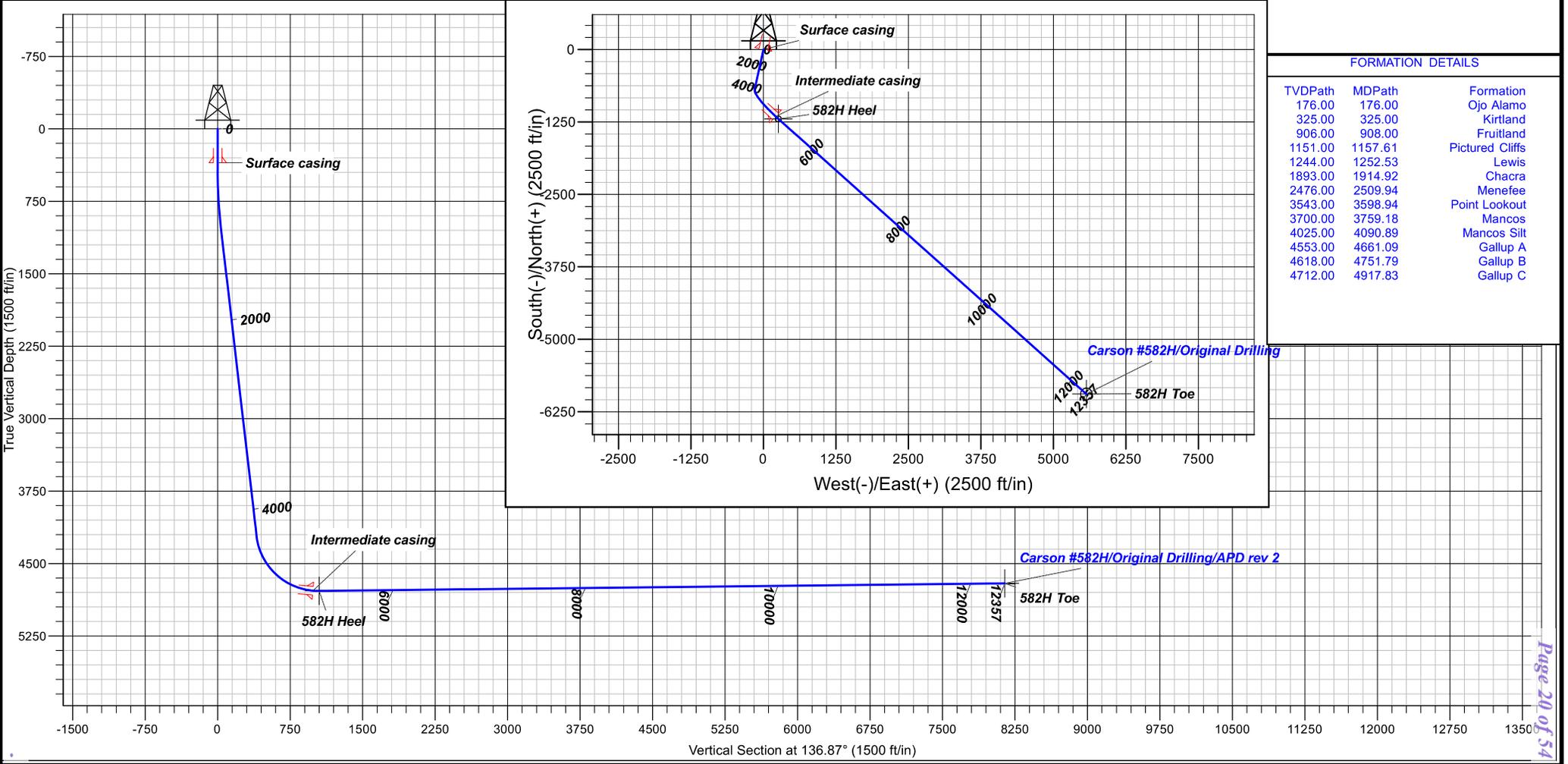
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
446.00	0.00	0.00	446.00	0.00	0.00	0.00	0.00	0.00	
1022.89	11.54	192.42	1019.00	-56.53	-12.45	2.00	192.42	32.74	
4288.81	11.54	192.42	4218.92	-694.47	-152.98	0.00	0.00	402.20	
5233.14	90.63	131.79	4784.00	-1197.01	256.79	9.00	-61.02	1049.10	582H Heel
12357.24	90.63	131.79	4706.00	-5943.80	5568.56	0.00	0.00	8144.78	582H Toe

CASING DETAILS

TVD	MD	Name
350.00	350.00	Surface casing
4781.58	5169.62	Intermediate casing

FORMATION DETAILS

TVDPATH	MDPATH	FORMATION
176.00	176.00	Ojo Alamo
325.00	325.00	Kirtland
906.00	908.00	Fruitland
1151.00	1157.61	Pictured Cliffs
1244.00	1252.53	Lewis
1893.00	1914.92	Chacra
2476.00	2509.94	Menefee
3543.00	3598.94	Point Lookout
3700.00	3759.18	Mancos
4025.00	4090.89	Mancos Silt
4553.00	4661.09	Gallup A
4618.00	4751.79	Gallup B
4712.00	4917.83	Gallup C





## **DJR Operating**

**Proposed Carson Unit**

**WC 21-1 Pad**

**Carson #582H - Slot 1**

**Original Drilling**

**Plan: APD Rev 3**

## **Standard Planning Report**

**03 June, 2021**





<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Company:</b>	DJR Operating	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Project:</b>	Proposed Carson Unit	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site:</b>	WC 21-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Drilling		
<b>Design:</b>	APD Rev 3		

<b>Project</b>	Proposed Carson Unit		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Western Zone		

<b>Site</b>	WC 21-1 Pad				
<b>Site Position:</b>		<b>Northing:</b>	1,961,183.47 usft	<b>Latitude:</b>	36.389
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,637,975.67 usft	<b>Longitude:</b>	-108.123
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	16.000 in	<b>Grid Convergence:</b>	-0.17 °

<b>Well</b>	Carson #582H - Slot 1					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	1,961,183.47 usft	<b>Latitude:</b>	36.389
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,637,975.67 usft	<b>Longitude:</b>	-108.123
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	6,295.99 ft

<b>Wellbore</b>	Original Drilling				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	12/31/2019	9.12	62.94	49,519.21954744

<b>Design</b>	APD Rev 3			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	133.86

<b>Plan Survey Tool Program</b>	<b>Date</b>	6/3/2021		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	13,107.09	APD Rev 3 (Original Drilling)	MWD+HDGM OWSG MWD + HDGM

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
445.98	0.00	0.00	445.98	0.00	0.00	0.00	0.00	0.00	0.00	
501.06	1.10	229.20	501.05	-0.35	-0.40	2.00	2.00	0.00	229.20	
4,154.52	1.10	229.20	4,153.84	-46.24	-53.57	0.00	0.00	0.00	0.00	
5,162.63	90.62	133.31	4,791.56	-496.61	406.18	9.00	8.88	-9.51	-95.88	582H Heel Rev 3
13,107.09	90.62	133.31	4,705.99	-5,945.87	6,186.54	0.00	0.00	0.00	0.00	582H Toe Rev 3



**Lonestar Consulting, LLC**  
Planning Report



<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Company:</b>	DJR Operating	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Project:</b>	Proposed Carson Unit	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site:</b>	WC 21-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Drilling		
<b>Design:</b>	APD Rev 3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
445.98	0.00	0.00	445.98	0.00	0.00	0.00	0.00	0.00	0.00
500.00	1.08	229.20	500.00	-0.33	-0.39	-0.05	2.00	2.00	0.00
501.06	1.10	229.20	501.05	-0.35	-0.40	-0.05	2.00	2.00	0.00
600.00	1.10	229.20	599.98	-1.59	-1.84	-0.23	0.00	0.00	0.00
700.00	1.10	229.20	699.96	-2.85	-3.30	-0.41	0.00	0.00	0.00
800.00	1.10	229.20	799.94	-4.10	-4.75	-0.58	0.00	0.00	0.00
900.00	1.10	229.20	899.92	-5.36	-6.21	-0.76	0.00	0.00	0.00
1,000.00	1.10	229.20	999.90	-6.61	-7.66	-0.94	0.00	0.00	0.00
1,100.00	1.10	229.20	1,099.89	-7.87	-9.12	-1.12	0.00	0.00	0.00
1,200.00	1.10	229.20	1,199.87	-9.13	-10.57	-1.30	0.00	0.00	0.00
1,300.00	1.10	229.20	1,299.85	-10.38	-12.03	-1.48	0.00	0.00	0.00
1,400.00	1.10	229.20	1,399.83	-11.64	-13.48	-1.66	0.00	0.00	0.00
1,500.00	1.10	229.20	1,499.81	-12.89	-14.94	-1.84	0.00	0.00	0.00
1,600.00	1.10	229.20	1,599.79	-14.15	-16.40	-2.02	0.00	0.00	0.00
1,700.00	1.10	229.20	1,699.78	-15.41	-17.85	-2.19	0.00	0.00	0.00
1,800.00	1.10	229.20	1,799.76	-16.66	-19.31	-2.37	0.00	0.00	0.00
1,900.00	1.10	229.20	1,899.74	-17.92	-20.76	-2.55	0.00	0.00	0.00
2,000.00	1.10	229.20	1,999.72	-19.18	-22.22	-2.73	0.00	0.00	0.00
2,100.00	1.10	229.20	2,099.70	-20.43	-23.67	-2.91	0.00	0.00	0.00
2,200.00	1.10	229.20	2,199.68	-21.69	-25.13	-3.09	0.00	0.00	0.00
2,300.00	1.10	229.20	2,299.66	-22.94	-26.58	-3.27	0.00	0.00	0.00
2,400.00	1.10	229.20	2,399.65	-24.20	-28.04	-3.45	0.00	0.00	0.00
2,500.00	1.10	229.20	2,499.63	-25.46	-29.49	-3.62	0.00	0.00	0.00
2,600.00	1.10	229.20	2,599.61	-26.71	-30.95	-3.80	0.00	0.00	0.00
2,700.00	1.10	229.20	2,699.59	-27.97	-32.40	-3.98	0.00	0.00	0.00
2,800.00	1.10	229.20	2,799.57	-29.23	-33.86	-4.16	0.00	0.00	0.00
2,900.00	1.10	229.20	2,899.55	-30.48	-35.32	-4.34	0.00	0.00	0.00
3,000.00	1.10	229.20	2,999.53	-31.74	-36.77	-4.52	0.00	0.00	0.00
3,100.00	1.10	229.20	3,099.52	-32.99	-38.23	-4.70	0.00	0.00	0.00
3,200.00	1.10	229.20	3,199.50	-34.25	-39.68	-4.88	0.00	0.00	0.00
3,300.00	1.10	229.20	3,299.48	-35.51	-41.14	-5.06	0.00	0.00	0.00
3,400.00	1.10	229.20	3,399.46	-36.76	-42.59	-5.23	0.00	0.00	0.00
3,500.00	1.10	229.20	3,499.44	-38.02	-44.05	-5.41	0.00	0.00	0.00
3,600.00	1.10	229.20	3,599.42	-39.27	-45.50	-5.59	0.00	0.00	0.00
3,700.00	1.10	229.20	3,699.41	-40.53	-46.96	-5.77	0.00	0.00	0.00
3,800.00	1.10	229.20	3,799.39	-41.79	-48.41	-5.95	0.00	0.00	0.00
3,900.00	1.10	229.20	3,899.37	-43.04	-49.87	-6.13	0.00	0.00	0.00
4,000.00	1.10	229.20	3,999.35	-44.30	-51.33	-6.31	0.00	0.00	0.00
4,100.00	1.10	229.20	4,099.33	-45.56	-52.78	-6.49	0.00	0.00	0.00
4,154.52	1.10	229.20	4,153.84	-46.24	-53.57	-6.58	0.00	0.00	0.00
4,200.00	4.13	148.69	4,199.28	-47.93	-53.05	-5.04	9.00	6.65	-177.03
4,300.00	13.03	138.07	4,298.06	-59.41	-43.63	9.71	9.00	8.90	-10.63
4,400.00	22.01	136.04	4,393.33	-81.32	-23.05	39.73	9.00	8.98	-2.03
4,500.00	31.00	135.15	4,482.73	-113.13	8.18	84.29	9.00	8.99	-0.89
4,600.00	39.99	134.63	4,564.06	-154.04	49.29	142.28	9.00	9.00	-0.52
4,700.00	48.99	134.28	4,635.33	-203.06	99.28	212.29	9.00	9.00	-0.35
4,800.00	57.99	134.01	4,694.77	-258.97	156.90	292.57	9.00	9.00	-0.27
4,900.00	66.98	133.79	4,740.92	-320.39	220.75	381.17	9.00	9.00	-0.22
5,000.00	75.98	133.60	4,772.64	-385.83	289.24	475.90	9.00	9.00	-0.19



**Lonestar Consulting, LLC**  
Planning Report



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<b>Company:</b>	DJR Operating	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Project:</b>	Proposed Carson Unit	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site:</b>	WC 21-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Drilling		
<b>Design:</b>	APD Rev 3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.00	84.98	133.42	4,789.16	-453.65	360.70	574.42	9.00	9.00	-0.18
5,162.63	90.62	133.31	4,791.56	-496.61	406.18	636.98	9.00	9.00	-0.17
5,200.00	90.62	133.31	4,791.16	-522.24	433.37	674.34	0.00	0.00	0.00
5,300.00	90.62	133.31	4,790.08	-590.83	506.13	774.33	0.00	0.00	0.00
5,400.00	90.62	133.31	4,789.01	-659.43	578.89	874.32	0.00	0.00	0.00
5,500.00	90.62	133.31	4,787.93	-728.02	651.65	974.31	0.00	0.00	0.00
5,600.00	90.62	133.31	4,786.85	-796.61	724.41	1,074.30	0.00	0.00	0.00
5,700.00	90.62	133.31	4,785.77	-865.20	797.17	1,174.29	0.00	0.00	0.00
5,800.00	90.62	133.31	4,784.70	-933.79	869.93	1,274.28	0.00	0.00	0.00
5,900.00	90.62	133.31	4,783.62	-1,002.39	942.69	1,374.27	0.00	0.00	0.00
6,000.00	90.62	133.31	4,782.54	-1,070.98	1,015.45	1,474.26	0.00	0.00	0.00
6,100.00	90.62	133.31	4,781.47	-1,139.57	1,088.21	1,574.25	0.00	0.00	0.00
6,200.00	90.62	133.31	4,780.39	-1,208.16	1,160.97	1,674.24	0.00	0.00	0.00
6,300.00	90.62	133.31	4,779.31	-1,276.75	1,233.73	1,774.23	0.00	0.00	0.00
6,400.00	90.62	133.31	4,778.23	-1,345.35	1,306.49	1,874.22	0.00	0.00	0.00
6,500.00	90.62	133.31	4,777.16	-1,413.94	1,379.25	1,974.21	0.00	0.00	0.00
6,600.00	90.62	133.31	4,776.08	-1,482.53	1,452.01	2,074.19	0.00	0.00	0.00
6,700.00	90.62	133.31	4,775.00	-1,551.12	1,524.77	2,174.18	0.00	0.00	0.00
6,800.00	90.62	133.31	4,773.93	-1,619.71	1,597.53	2,274.17	0.00	0.00	0.00
6,900.00	90.62	133.31	4,772.85	-1,688.31	1,670.29	2,374.16	0.00	0.00	0.00
7,000.00	90.62	133.31	4,771.77	-1,756.90	1,743.05	2,474.15	0.00	0.00	0.00
7,100.00	90.62	133.31	4,770.69	-1,825.49	1,815.81	2,574.14	0.00	0.00	0.00
7,200.00	90.62	133.31	4,769.62	-1,894.08	1,888.57	2,674.13	0.00	0.00	0.00
7,300.00	90.62	133.31	4,768.54	-1,962.67	1,961.33	2,774.12	0.00	0.00	0.00
7,400.00	90.62	133.31	4,767.46	-2,031.27	2,034.09	2,874.11	0.00	0.00	0.00
7,500.00	90.62	133.31	4,766.39	-2,099.86	2,106.84	2,974.10	0.00	0.00	0.00
7,600.00	90.62	133.31	4,765.31	-2,168.45	2,179.60	3,074.09	0.00	0.00	0.00
7,700.00	90.62	133.31	4,764.23	-2,237.04	2,252.36	3,174.08	0.00	0.00	0.00
7,800.00	90.62	133.31	4,763.15	-2,305.63	2,325.12	3,274.07	0.00	0.00	0.00
7,900.00	90.62	133.31	4,762.08	-2,374.23	2,397.88	3,374.06	0.00	0.00	0.00
8,000.00	90.62	133.31	4,761.00	-2,442.82	2,470.64	3,474.05	0.00	0.00	0.00
8,100.00	90.62	133.31	4,759.92	-2,511.41	2,543.40	3,574.04	0.00	0.00	0.00
8,200.00	90.62	133.31	4,758.84	-2,580.00	2,616.16	3,674.03	0.00	0.00	0.00
8,300.00	90.62	133.31	4,757.77	-2,648.59	2,688.92	3,774.02	0.00	0.00	0.00
8,400.00	90.62	133.31	4,756.69	-2,717.19	2,761.68	3,874.01	0.00	0.00	0.00
8,500.00	90.62	133.31	4,755.61	-2,785.78	2,834.44	3,974.00	0.00	0.00	0.00
8,600.00	90.62	133.31	4,754.54	-2,854.37	2,907.20	4,073.99	0.00	0.00	0.00
8,700.00	90.62	133.31	4,753.46	-2,922.96	2,979.96	4,173.98	0.00	0.00	0.00
8,800.00	90.62	133.31	4,752.38	-2,991.55	3,052.72	4,273.96	0.00	0.00	0.00
8,900.00	90.62	133.31	4,751.30	-3,060.15	3,125.48	4,373.95	0.00	0.00	0.00
9,000.00	90.62	133.31	4,750.23	-3,128.74	3,198.24	4,473.94	0.00	0.00	0.00
9,100.00	90.62	133.31	4,749.15	-3,197.33	3,271.00	4,573.93	0.00	0.00	0.00
9,200.00	90.62	133.31	4,748.07	-3,265.92	3,343.76	4,673.92	0.00	0.00	0.00
9,300.00	90.62	133.31	4,747.00	-3,334.51	3,416.52	4,773.91	0.00	0.00	0.00
9,400.00	90.62	133.31	4,745.92	-3,403.11	3,489.28	4,873.90	0.00	0.00	0.00
9,500.00	90.62	133.31	4,744.84	-3,471.70	3,562.04	4,973.89	0.00	0.00	0.00
9,600.00	90.62	133.31	4,743.76	-3,540.29	3,634.80	5,073.88	0.00	0.00	0.00
9,700.00	90.62	133.31	4,742.69	-3,608.88	3,707.56	5,173.87	0.00	0.00	0.00
9,800.00	90.62	133.31	4,741.61	-3,677.47	3,780.32	5,273.86	0.00	0.00	0.00
9,900.00	90.62	133.31	4,740.53	-3,746.07	3,853.08	5,373.85	0.00	0.00	0.00
10,000.00	90.62	133.31	4,739.46	-3,814.66	3,925.84	5,473.84	0.00	0.00	0.00
10,100.00	90.62	133.31	4,738.38	-3,883.25	3,998.60	5,573.83	0.00	0.00	0.00
10,200.00	90.62	133.31	4,737.30	-3,951.84	4,071.36	5,673.82	0.00	0.00	0.00
10,300.00	90.62	133.31	4,736.22	-4,020.43	4,144.12	5,773.81	0.00	0.00	0.00



**Lonestar Consulting, LLC**  
Planning Report



<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Company:</b>	DJR Operating	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Project:</b>	Proposed Carson Unit	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site:</b>	WC 21-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Drilling		
<b>Design:</b>	APD Rev 3		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,400.00	90.62	133.31	4,735.15	-4,089.03	4,216.88	5,873.80	0.00	0.00	0.00	
10,500.00	90.62	133.31	4,734.07	-4,157.62	4,289.64	5,973.79	0.00	0.00	0.00	
10,600.00	90.62	133.31	4,732.99	-4,226.21	4,362.40	6,073.78	0.00	0.00	0.00	
10,700.00	90.62	133.31	4,731.91	-4,294.80	4,435.15	6,173.77	0.00	0.00	0.00	
10,800.00	90.62	133.31	4,730.84	-4,363.39	4,507.91	6,273.76	0.00	0.00	0.00	
10,900.00	90.62	133.31	4,729.76	-4,431.99	4,580.67	6,373.75	0.00	0.00	0.00	
11,000.00	90.62	133.31	4,728.68	-4,500.58	4,653.43	6,473.74	0.00	0.00	0.00	
11,100.00	90.62	133.31	4,727.61	-4,569.17	4,726.19	6,573.72	0.00	0.00	0.00	
11,200.00	90.62	133.31	4,726.53	-4,637.76	4,798.95	6,673.71	0.00	0.00	0.00	
11,300.00	90.62	133.31	4,725.45	-4,706.35	4,871.71	6,773.70	0.00	0.00	0.00	
11,400.00	90.62	133.31	4,724.37	-4,774.95	4,944.47	6,873.69	0.00	0.00	0.00	
11,500.00	90.62	133.31	4,723.30	-4,843.54	5,017.23	6,973.68	0.00	0.00	0.00	
11,600.00	90.62	133.31	4,722.22	-4,912.13	5,089.99	7,073.67	0.00	0.00	0.00	
11,700.00	90.62	133.31	4,721.14	-4,980.72	5,162.75	7,173.66	0.00	0.00	0.00	
11,800.00	90.62	133.31	4,720.07	-5,049.32	5,235.51	7,273.65	0.00	0.00	0.00	
11,900.00	90.62	133.31	4,718.99	-5,117.91	5,308.27	7,373.64	0.00	0.00	0.00	
12,000.00	90.62	133.31	4,717.91	-5,186.50	5,381.03	7,473.63	0.00	0.00	0.00	
12,100.00	90.62	133.31	4,716.83	-5,255.09	5,453.79	7,573.62	0.00	0.00	0.00	
12,200.00	90.62	133.31	4,715.76	-5,323.68	5,526.55	7,673.61	0.00	0.00	0.00	
12,300.00	90.62	133.31	4,714.68	-5,392.28	5,599.31	7,773.60	0.00	0.00	0.00	
12,400.00	90.62	133.31	4,713.60	-5,460.87	5,672.07	7,873.59	0.00	0.00	0.00	
12,500.00	90.62	133.31	4,712.53	-5,529.46	5,744.83	7,973.58	0.00	0.00	0.00	
12,600.00	90.62	133.31	4,711.45	-5,598.05	5,817.59	8,073.57	0.00	0.00	0.00	
12,700.00	90.62	133.31	4,710.37	-5,666.64	5,890.35	8,173.56	0.00	0.00	0.00	
12,800.00	90.62	133.31	4,709.29	-5,735.24	5,963.11	8,273.55	0.00	0.00	0.00	
12,900.00	90.62	133.31	4,708.22	-5,803.83	6,035.87	8,373.54	0.00	0.00	0.00	
13,000.00	90.62	133.31	4,707.14	-5,872.42	6,108.63	8,473.53	0.00	0.00	0.00	
13,100.00	90.62	133.31	4,706.06	-5,941.01	6,181.39	8,573.52	0.00	0.00	0.00	
13,107.09	90.62	133.31	4,705.99	-5,945.87	6,186.54	8,580.60	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
582H Toe Rev 3 - hit/miss target - Circle (radius 100.00)	0.00	0.00	4,705.99	-5,945.87	6,186.54	1,955,219.11	2,644,144.36	36.373	-108.102
582H Heel Rev 3 - plan hits target center - Circle (radius 50.00)	0.00	0.00	4,791.56	-496.61	406.18	1,960,685.64	2,638,380.36	36.388	-108.121

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
345.98	345.98	Surface	9.625	12.250		
5,099.99	4,789.16	Intermediate	7.000	8.750		



**Lonestar Consulting, LLC**  
Planning Report



<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Company:</b>	DJR Operating	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Project:</b>	Proposed Carson Unit	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site:</b>	WC 21-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Drilling		
<b>Design:</b>	APD Rev 3		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
186.00	186.00	Ojo Alamo		0.00	0.00	
335.00	335.00	Kirtland		0.00	0.00	
916.08	916.00	Fruitland		0.00	0.00	
1,161.12	1,161.00	Pictured Cliffs		0.00	0.00	
1,254.14	1,254.00	Lewis		0.00	0.00	
1,903.26	1,903.00	Chacra		0.00	0.00	
2,486.37	2,486.00	Menefee		0.00	0.00	
3,553.56	3,552.99	Point Lookout		0.00	0.00	
3,710.59	3,709.99	Mancos		0.00	0.00	
4,035.65	4,034.99	Mancos Silt		0.00	0.00	
4,598.60	4,562.99	Gallup A		0.00	0.00	
4,688.93	4,627.99	Gallup B		0.00	0.00	
4,855.26	4,721.99	Gallup C		0.00	0.00	



## **DJR Operating**

**Proposed Carson Unit**

**WC 21-1 Pad**

**Carson #582H**

**Original Drilling**

**APD Rev 3**

## **Anticollision Report**

**03 June, 2021**





**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	APD Rev 3		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum centre distance of 10,000.02ft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	6/3/2021		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	13,107.09	APD Rev 3 (Original Drilling)	MWD+HDGM	OWSG MWD + HDGM

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
WC 21-1 Pad						
Bob Brewer 1 - OH - OH	5,462.33	4,768.71	868.74	696.15	5.034	CC, ES
Bob Brewer 1 - OH - OH	5,500.00	4,768.30	869.56	696.19	5.016	SF
Carson #578H - Original Drilling - APD Rev 3	315.27	315.27	20.00	18.15	10.801	CC
Carson #578H - Original Drilling - APD Rev 3	445.98	445.87	20.14	17.35	7.233	ES
Carson #578H - Original Drilling - APD Rev 3	13,107.09	12,774.52	1,230.97	788.71	2.783	SF
Carson #605H - Original Drilling - APD Rev 3	445.98	445.98	40.00	37.21	14.343	CC, ES
Carson #605H - Original Drilling - APD Rev 3	700.00	697.53	49.21	44.66	10.824	SF
Carson #609H - Original Drilling - APD Rev 3	1,000.97	1,001.76	59.11	52.45	8.884	CC
Carson #609H - Original Drilling - APD Rev 3	3,800.00	3,800.53	70.20	43.41	2.621	ES
Carson #609H - Original Drilling - APD Rev 3	4,154.52	4,155.02	72.90	43.55	2.484	SF
Hunter Wash 44223 - OH - OH	11,243.80	1,151.00	3,592.57	3,535.75	63.219	CC
Hunter Wash 44223 - OH - OH	11,300.00	1,151.00	3,593.01	3,535.59	62.573	ES
Hunter Wash 44223 - OH - OH	13,107.09	1,151.00	4,047.03	3,964.58	49.082	SF
Renate Hixon 1 - OH - OH	7,475.44	4,596.99	601.01	394.36	2.908	CC
Renate Hixon 1 - OH - OH	7,500.00	4,596.99	601.51	394.32	2.903	ES, SF

<b>Offset Design:</b> WC 21-1 Pad - Bob Brewer 1 - OH - OH													<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b> 158-INCLINOMETER													<b>Offset Well Error:</b>	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Reference Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Warning		
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)			
0.00	0.00	0.00	0.00	0.00	0.00	178.78	-1,334.31	28.32	1,334.76					
100.00	100.00	80.00	80.00	0.15	2.43	178.78	-1,334.31	28.32	1,334.61	1,332.03	2.58	516.541		
200.00	200.00	180.00	180.00	0.51	5.47	178.78	-1,334.31	28.32	1,334.61	1,328.63	5.98	223.214		
300.00	300.00	280.01	280.00	0.87	8.50	178.78	-1,334.31	28.32	1,334.61	1,325.23	9.37	142.365		
393.49	393.49	373.50	373.49	1.21	11.34	178.78	-1,333.91	28.32	1,334.21	1,321.66	12.55	106.321		
400.00	400.00	379.57	379.56	1.23	11.53	178.78	-1,333.91	28.32	1,334.21	1,321.45	12.76	104.589		
445.98	445.98	422.50	422.49	1.39	12.83	178.78	-1,333.97	28.32	1,334.28	1,320.05	14.22	93.799		
501.06	501.05	473.92	473.91	1.58	14.39	-50.44	-1,334.18	28.32	1,334.16	1,318.18	15.98	83.510		
600.00	599.98	579.99	579.98	1.92	17.61	-50.50	-1,334.31	28.32	1,333.06	1,313.53	19.53	68.255		
700.00	699.96	679.97	679.96	2.26	20.65	-50.57	-1,334.31	28.32	1,331.84	1,308.93	22.91	58.132		
800.00	799.94	779.96	779.94	2.61	23.69	-50.63	-1,334.31	28.32	1,330.62	1,304.32	26.29	50.604		
900.00	899.92	879.94	879.92	2.96	26.72	-50.70	-1,334.31	28.32	1,329.40	1,299.72	29.68	44.789		
1,000.00	999.90	979.92	979.90	3.31	29.76	-50.76	-1,334.31	28.32	1,328.18	1,295.11	33.07	40.163		



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Bob Brewer 1 - OH - OH													Offset Site Error:	0.00 ft	
Survey Program: 158-INCLINOMETER													Offset Well Error:		0.00 ft
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
1,100.00	1,099.89	1,079.90	1,079.89	3.67	32.79	-50.82	-1,334.31	28.32	1,326.97	1,290.51	36.46	36.395			
1,200.00	1,199.87	1,179.88	1,179.87	4.02	35.83	-50.89	-1,334.31	28.32	1,325.75	1,285.90	39.85	33.268			
1,300.00	1,299.85	1,279.41	1,279.39	4.38	38.85	-50.95	-1,334.04	28.32	1,324.27	1,281.05	43.23	30.634			
1,400.00	1,399.83	1,378.25	1,378.23	4.74	41.86	-51.02	-1,334.12	28.32	1,323.14	1,276.56	46.59	28.402			
1,500.00	1,499.81	1,477.10	1,477.08	5.09	44.86	-51.08	-1,334.28	28.32	1,322.10	1,272.15	49.94	26.471			
1,600.00	1,599.79	1,579.83	1,579.79	5.45	47.98	-51.15	-1,334.31	28.32	1,320.91	1,267.49	53.42	24.726			
1,700.00	1,699.78	1,679.81	1,679.78	5.81	51.01	-51.21	-1,334.31	28.32	1,319.71	1,262.89	56.81	23.228			
1,800.00	1,799.76	1,778.94	1,778.90	6.17	54.02	-51.28	-1,333.46	28.32	1,317.65	1,257.47	60.18	21.894			
1,900.00	1,899.74	1,875.77	1,875.72	6.52	56.96	-51.34	-1,333.64	28.32	1,316.64	1,253.16	63.48	20.741			
2,000.00	1,999.72	1,972.60	1,972.55	6.88	59.90	-51.40	-1,334.05	28.32	1,315.86	1,249.08	66.78	19.705			
2,100.00	2,099.70	2,079.76	2,079.70	7.24	63.16	-51.47	-1,334.31	28.32	1,314.91	1,244.51	70.39	18.680			
2,200.00	2,199.68	2,179.74	2,179.68	7.60	66.20	-51.54	-1,334.31	28.32	1,313.71	1,239.92	73.79	17.804			
2,300.00	2,299.66	2,279.08	2,279.02	7.96	69.21	-51.60	-1,334.09	28.32	1,312.29	1,235.13	77.16	17.007			
2,400.00	2,399.65	2,377.74	2,377.68	8.32	72.21	-51.67	-1,334.18	28.32	1,311.20	1,230.68	80.52	16.285			
2,500.00	2,499.63	2,479.71	2,479.63	8.68	75.30	-51.74	-1,334.31	28.32	1,310.13	1,226.16	83.97	15.602			
2,600.00	2,599.61	2,579.70	2,579.61	9.04	78.34	-51.80	-1,334.31	28.32	1,308.94	1,221.57	87.36	14.982			
2,700.00	2,699.59	2,679.68	2,679.59	9.40	81.38	-51.87	-1,334.31	28.32	1,307.75	1,216.99	90.76	14.409			
2,800.00	2,799.57	2,775.60	2,775.50	9.75	84.29	-51.93	-1,333.38	28.32	1,305.65	1,211.61	94.03	13.885			
2,900.00	2,899.55	2,871.15	2,871.04	10.11	87.19	-52.00	-1,333.84	28.32	1,304.94	1,207.65	97.29	13.413			
3,000.00	2,999.53	2,979.70	2,979.53	10.47	90.49	-52.07	-1,334.31	28.32	1,304.20	1,203.25	100.95	12.920			
3,100.00	3,099.52	3,079.68	3,079.52	10.83	93.52	-52.13	-1,334.31	28.32	1,303.02	1,198.67	104.34	12.488			
3,200.00	3,199.50	3,179.66	3,179.50	11.19	96.56	-52.20	-1,334.31	28.32	1,301.84	1,194.10	107.74	12.084			
3,300.00	3,299.48	3,275.42	3,275.25	11.55	99.47	-52.27	-1,333.37	28.32	1,299.73	1,188.73	111.00	11.709			
3,400.00	3,399.46	3,371.10	3,370.92	11.91	102.37	-52.33	-1,333.84	28.32	1,299.05	1,184.78	114.27	11.369			
3,500.00	3,499.44	3,479.68	3,479.44	12.27	105.67	-52.40	-1,334.31	28.32	1,298.31	1,180.39	117.92	11.010			
3,600.00	3,599.42	3,579.66	3,579.42	12.63	108.71	-52.47	-1,334.31	28.32	1,297.14	1,175.82	121.32	10.692			
3,700.00	3,699.41	3,679.64	3,679.41	12.99	111.74	-52.54	-1,334.31	28.32	1,295.97	1,171.25	124.71	10.392			
3,800.00	3,799.39	3,775.86	3,775.61	13.35	114.67	-52.61	-1,333.31	28.32	1,293.81	1,165.81	127.99	10.108			
3,900.00	3,899.37	3,871.67	3,871.42	13.71	117.58	-52.67	-1,333.75	28.32	1,293.10	1,161.83	131.26	9.851			
4,000.00	3,999.35	3,979.67	3,979.35	14.07	120.85	-52.74	-1,334.31	28.32	1,292.47	1,157.56	134.90	9.581			
4,100.00	4,099.33	4,079.65	4,079.33	14.43	123.89	-52.81	-1,334.31	28.32	1,291.30	1,153.01	138.30	9.337			
4,154.52	4,153.84	4,134.16	4,133.84	14.62	125.55	-52.85	-1,334.31	28.32	1,290.67	1,150.52	140.15	9.209			
4,200.00	4,199.28	4,179.59	4,179.28	14.78	126.93	27.75	-1,334.31	28.32	1,288.95	1,147.27	141.69	9.097			
4,250.00	4,248.96	4,227.63	4,227.30	14.96	128.39	36.18	-1,333.27	28.32	1,283.31	1,139.99	143.31	8.954			
4,300.00	4,298.06	4,274.61	4,274.28	15.13	129.81	39.41	-1,333.37	28.32	1,275.99	1,131.09	144.91	8.806			
4,350.00	4,346.29	4,320.79	4,320.46	15.30	131.21	41.64	-1,333.54	28.32	1,266.04	1,119.57	146.47	8.644			
4,400.00	4,393.33	4,365.89	4,365.55	15.46	132.58	43.68	-1,333.78	28.32	1,253.54	1,105.55	148.00	8.470			
4,450.00	4,438.91	4,409.63	4,409.30	15.62	133.91	45.79	-1,334.09	28.32	1,238.65	1,089.17	149.48	8.287			
4,500.00	4,482.73	4,463.10	4,462.73	15.79	135.54	48.31	-1,334.31	28.32	1,221.35	1,070.09	151.26	8.075			
4,550.00	4,524.54	4,504.91	4,504.54	15.97	136.81	50.95	-1,334.31	28.32	1,201.81	1,049.12	152.68	7.871			
4,600.00	4,564.06	4,544.44	4,544.06	16.18	138.01	53.88	-1,334.31	28.32	1,180.45	1,026.41	154.05	7.663			
4,650.00	4,601.07	4,581.44	4,581.07	16.41	139.13	57.09	-1,334.31	28.32	1,157.57	1,002.23	155.35	7.452			
4,700.00	4,635.33	4,615.70	4,615.33	16.69	140.17	60.57	-1,334.31	28.32	1,133.48	976.89	156.59	7.239			
4,750.00	4,666.62	4,647.00	4,646.62	17.01	141.12	64.26	-1,334.31	28.32	1,108.50	950.73	157.77	7.026			
4,800.00	4,694.77	4,675.14	4,674.77	17.39	141.98	68.09	-1,334.31	28.32	1,083.00	924.10	158.90	6.815			
4,850.00	4,719.58	4,699.95	4,699.58	17.83	142.73	71.95	-1,334.31	28.32	1,057.37	897.38	160.00	6.609			
4,900.00	4,740.92	4,721.29	4,720.92	18.33	143.38	75.73	-1,334.31	28.32	1,032.01	870.96	161.06	6.408			
4,950.00	4,758.64	4,739.01	4,738.64	18.91	143.91	79.32	-1,334.31	28.32	1,007.33	845.23	162.09	6.215			
5,000.00	4,772.64	4,753.01	4,752.64	19.55	144.34	82.60	-1,334.31	28.32	983.72	820.61	163.11	6.031			
5,050.00	4,782.83	4,763.21	4,762.83	20.26	144.65	85.48	-1,334.31	28.32	961.58	797.47	164.11	5.859			
5,100.00	4,789.16	4,769.53	4,769.16	21.02	144.84	87.90	-1,334.31	28.32	941.29	776.20	165.09	5.702			
5,150.00	4,791.57	4,771.95	4,771.57	21.83	144.92	89.81	-1,334.31	28.32	923.18	757.13	166.05	5.560			



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Bob Brewer 1 - OH - OH													Offset Site Error:	0.00 ft			
Survey Program: 158-INCLINOMETER													Offset Well Error:	0.00 ft			
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor					
5,162.63	4,791.56	4,771.94	4,771.56	22.04	144.91	90.21	-1,334.31	28.32	918.98	752.70	166.28	5.527					
5,200.00	4,791.16	4,771.53	4,771.16	22.68	144.90	90.19	-1,334.31	28.32	907.48	740.49	166.99	5.434					
5,300.00	4,790.08	4,770.46	4,770.08	24.52	144.87	90.12	-1,334.31	28.32	883.77	714.72	169.05	5.228					
5,400.00	4,789.01	4,769.38	4,769.01	26.49	144.84	90.04	-1,334.31	28.32	870.97	699.74	171.23	5.087					
5,462.33	4,788.33	4,768.71	4,768.33	27.78	144.82	90.00	-1,334.31	28.32	868.74	696.15	172.59	5.034 CC, ES					
5,500.00	4,787.93	4,768.30	4,767.93	28.57	144.80	89.97	-1,334.31	28.32	869.56	696.19	173.37	5.016 SF					
5,600.00	4,786.85	4,767.22	4,766.85	30.73	144.77	89.90	-1,334.31	28.32	879.58	704.25	175.33	5.017					
5,700.00	4,785.77	4,766.15	4,765.77	32.96	144.74	89.83	-1,334.31	28.32	900.66	723.65	177.01	5.088					
5,800.00	4,784.70	4,765.07	4,764.70	35.25	144.71	89.76	-1,334.31	28.32	932.05	753.69	178.36	5.226					
5,900.00	4,783.62	4,763.99	4,763.62	37.59	144.67	89.69	-1,334.31	28.32	972.75	793.37	179.38	5.423					
6,000.00	4,782.54	4,762.92	4,762.54	39.96	144.64	89.62	-1,334.31	28.32	1,021.65	841.54	180.11	5.672					
6,100.00	4,781.47	4,761.84	4,761.47	42.37	144.61	89.55	-1,334.31	28.32	1,077.63	897.05	180.58	5.968					
6,200.00	4,780.39	4,760.76	4,760.39	44.80	144.58	89.48	-1,334.31	28.32	1,139.65	958.79	180.86	6.301					
6,300.00	4,779.31	4,759.68	4,759.31	47.25	144.54	89.40	-1,334.31	28.32	1,206.78	1,025.79	180.99	6.668					
6,400.00	4,778.23	4,758.61	4,758.23	49.73	144.51	89.33	-1,334.31	28.32	1,278.21	1,097.21	181.00	7.062					
6,500.00	4,777.16	4,757.53	4,757.16	52.22	144.48	89.26	-1,334.31	28.32	1,353.27	1,172.34	180.93	7.479					
6,600.00	4,776.08	4,756.45	4,756.08	54.72	144.44	89.19	-1,334.31	28.32	1,431.38	1,250.57	180.81	7.916					
6,700.00	4,775.00	4,755.38	4,755.00	57.23	144.41	89.12	-1,334.31	28.32	1,512.07	1,331.42	180.65	8.370					
6,800.00	4,773.93	4,754.30	4,753.93	59.76	144.38	89.05	-1,334.31	28.32	1,594.95	1,414.48	180.47	8.838					
6,900.00	4,772.85	4,753.22	4,752.85	62.30	144.35	88.98	-1,334.31	28.32	1,679.69	1,499.42	180.27	9.318					
7,000.00	4,771.77	4,752.14	4,751.77	64.84	144.31	88.91	-1,334.31	28.32	1,766.03	1,585.96	180.06	9.808					
7,100.00	4,770.69	4,751.07	4,750.69	67.39	144.28	88.84	-1,334.31	28.32	1,853.74	1,673.88	179.86	10.307					
7,200.00	4,769.62	4,749.99	4,749.62	69.95	144.25	88.77	-1,334.31	28.32	1,942.64	1,762.99	179.65	10.813					
7,300.00	4,768.54	4,748.91	4,748.54	72.51	144.22	88.69	-1,334.31	28.32	2,032.57	1,853.12	179.45	11.327					
7,400.00	4,767.46	4,747.84	4,747.46	75.08	144.18	88.62	-1,334.31	28.32	2,123.40	1,944.15	179.25	11.846					
7,500.00	4,766.39	4,746.76	4,746.39	77.65	144.15	88.55	-1,334.31	28.32	2,215.02	2,035.96	179.06	12.370					
7,600.00	4,765.31	4,745.68	4,745.31	80.23	144.12	88.48	-1,334.31	28.32	2,307.34	2,128.46	178.88	12.899					
7,700.00	4,764.23	4,744.60	4,744.23	82.81	144.08	88.41	-1,334.31	28.32	2,400.27	2,221.57	178.70	13.432					
7,800.00	4,763.15	4,743.53	4,743.15	85.40	144.05	88.34	-1,334.31	28.32	2,493.75	2,315.22	178.53	13.968					
7,900.00	4,762.08	4,742.45	4,742.08	87.99	144.02	88.27	-1,334.31	28.32	2,587.71	2,409.34	178.37	14.508					
8,000.00	4,761.00	4,741.37	4,741.00	90.58	143.99	88.20	-1,334.31	28.32	2,682.11	2,503.90	178.21	15.050					
8,100.00	4,759.92	4,740.30	4,739.92	93.17	143.95	88.13	-1,334.31	28.32	2,776.90	2,598.84	178.06	15.595					
8,200.00	4,758.84	4,739.22	4,738.84	95.77	143.92	88.06	-1,334.31	28.32	2,872.05	2,694.13	177.92	16.142					
8,300.00	4,757.77	4,738.14	4,737.77	98.37	143.89	87.98	-1,334.31	28.32	2,967.51	2,789.73	177.78	16.692					
8,400.00	4,756.69	4,737.06	4,736.69	100.97	143.86	87.91	-1,334.31	28.32	3,063.27	2,885.61	177.65	17.243					
8,500.00	4,755.61	4,735.99	4,735.61	103.57	143.82	87.84	-1,334.31	28.32	3,159.28	2,981.75	177.53	17.796					
8,600.00	4,754.54	4,734.91	4,734.54	106.18	143.79	87.77	-1,334.31	28.32	3,255.54	3,078.13	177.41	18.350					
8,700.00	4,753.46	4,733.83	4,733.46	108.78	143.76	87.70	-1,334.31	28.32	3,352.01	3,174.72	177.30	18.906					
8,800.00	4,752.38	4,732.75	4,732.38	111.39	143.72	87.63	-1,334.31	28.32	3,448.69	3,271.50	177.19	19.463					
8,900.00	4,751.30	4,731.68	4,731.30	114.00	143.69	87.56	-1,334.31	28.32	3,545.55	3,368.46	177.09	20.022					
9,000.00	4,750.23	4,730.60	4,730.23	116.61	143.66	87.49	-1,334.31	28.32	3,642.58	3,465.59	176.99	20.581					
9,100.00	4,749.15	4,729.52	4,729.15	119.22	143.63	87.42	-1,334.31	28.32	3,739.76	3,562.87	176.89	21.142					
9,200.00	4,748.07	4,728.45	4,728.07	121.83	143.59	87.35	-1,334.31	28.32	3,837.09	3,660.29	176.80	21.703					
9,300.00	4,747.00	4,727.37	4,727.00	124.45	143.56	87.28	-1,334.31	28.32	3,934.55	3,757.84	176.72	22.265					
9,400.00	4,745.92	4,726.29	4,725.92	127.06	143.53	87.20	-1,334.31	28.32	4,032.14	3,855.51	176.63	22.828					
9,500.00	4,744.84	4,725.21	4,724.84	129.68	143.50	87.13	-1,334.31	28.32	4,129.84	3,953.29	176.55	23.391					
9,600.00	4,743.76	4,724.14	4,723.76	132.30	143.46	87.06	-1,334.31	28.32	4,227.65	4,051.17	176.48	23.956					
9,700.00	4,742.69	4,723.06	4,722.69	134.92	143.43	86.99	-1,334.31	28.32	4,325.56	4,149.15	176.41	24.520					
9,800.00	4,741.61	4,721.98	4,721.61	137.53	143.40	86.92	-1,334.31	28.32	4,423.56	4,247.22	176.34	25.086					
9,900.00	4,740.53	4,720.91	4,720.53	140.15	143.37	86.85	-1,334.31	28.32	4,521.65	4,345.38	176.27	25.652					
10,000.00	4,739.46	4,719.83	4,719.46	142.77	143.33	86.78	-1,334.31	28.32	4,619.82	4,443.61	176.21	26.218					
10,100.00	4,738.38	4,718.75	4,718.38	145.40	143.30	86.71	-1,334.31	28.32	4,718.07	4,541.92	176.15	26.785					



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Bob Brewer 1 - OH - OH											Offset Site Error:	0.00 ft	
Survey Program: 158-INCLINOMETER											Offset Well Error:	0.00 ft	
Reference				Semi Major Axis			Offset Wellbore Centre				Distance		Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,200.00	4,737.30	4,717.67	4,717.30	148.02	143.27	86.64	-1,334.31	28.32	4,816.39	4,640.30	176.09	27.352	
10,300.00	4,736.22	4,716.60	4,716.22	150.64	143.23	86.57	-1,334.31	28.32	4,914.78	4,738.74	176.03	27.919	
10,400.00	4,735.15	4,715.52	4,715.15	153.26	143.20	86.50	-1,334.31	28.32	5,013.23	4,837.25	175.98	28.487	
10,500.00	4,734.07	4,714.44	4,714.07	155.89	143.17	86.43	-1,334.31	28.32	5,111.74	4,935.81	175.93	29.055	
10,600.00	4,732.99	4,713.37	4,712.99	158.51	143.14	86.36	-1,334.31	28.32	5,210.31	5,034.42	175.88	29.624	
10,700.00	4,731.91	4,712.29	4,711.91	161.13	143.10	86.28	-1,334.31	28.32	5,308.93	5,133.09	175.84	30.192	
10,800.00	4,730.84	4,711.21	4,710.84	163.76	143.07	86.21	-1,334.31	28.32	5,407.60	5,231.81	175.79	30.761	
10,900.00	4,729.76	4,710.13	4,709.76	166.38	143.04	86.14	-1,334.31	28.32	5,506.32	5,330.57	175.75	31.330	
11,000.00	4,728.68	4,709.06	4,708.68	169.01	143.01	86.07	-1,334.31	28.32	5,605.08	5,429.37	175.71	31.900	
11,100.00	4,727.61	4,707.98	4,707.61	171.64	142.97	86.00	-1,334.31	28.32	5,703.89	5,528.22	175.67	32.469	
11,200.00	4,726.53	4,706.90	4,706.53	174.26	142.94	85.93	-1,334.31	28.32	5,802.74	5,627.10	175.64	33.038	
11,300.00	4,725.45	4,705.83	4,705.45	176.89	142.91	85.86	-1,334.31	28.32	5,901.62	5,726.02	175.60	33.608	
11,400.00	4,724.37	4,704.75	4,704.37	179.52	142.87	85.79	-1,334.31	28.32	6,000.54	5,824.98	175.57	34.178	
11,500.00	4,723.30	4,703.67	4,703.30	182.14	142.84	85.72	-1,334.31	28.32	6,099.50	5,923.96	175.54	34.748	
11,600.00	4,722.22	4,702.59	4,702.22	184.77	142.81	85.65	-1,334.31	28.32	6,198.49	6,022.99	175.51	35.317	
11,700.00	4,721.14	4,701.52	4,701.14	187.40	142.78	85.58	-1,334.31	28.32	6,297.52	6,122.04	175.48	35.887	
11,800.00	4,720.07	4,700.44	4,700.07	190.03	142.74	85.51	-1,334.31	28.32	6,396.57	6,221.12	175.45	36.457	
11,900.00	4,718.99	4,699.36	4,698.99	192.66	142.71	85.44	-1,334.31	28.32	6,495.65	6,320.22	175.43	37.027	
12,000.00	4,717.91	4,698.28	4,697.91	195.29	142.68	85.37	-1,334.31	28.32	6,594.76	6,419.36	175.41	37.597	
12,100.00	4,716.83	4,697.21	4,696.83	197.92	142.65	85.30	-1,334.31	28.32	6,693.90	6,518.51	175.38	38.167	
12,200.00	4,715.76	4,696.13	4,695.76	200.55	142.61	85.22	-1,334.31	28.32	6,793.06	6,617.70	175.36	38.737	
12,300.00	4,714.68	4,695.05	4,694.68	203.18	142.58	85.15	-1,334.31	28.32	6,892.24	6,716.90	175.34	39.307	
12,400.00	4,713.60	4,693.98	4,693.60	205.81	142.55	85.08	-1,334.31	28.32	6,991.45	6,816.13	175.32	39.877	
12,500.00	4,712.53	4,692.90	4,692.53	208.44	142.51	85.01	-1,334.31	28.32	7,090.68	6,915.37	175.31	40.447	
12,600.00	4,711.45	4,691.82	4,691.45	211.07	142.48	84.94	-1,334.31	28.32	7,189.93	7,014.64	175.29	41.017	
12,700.00	4,710.37	4,690.74	4,690.37	213.70	142.45	84.87	-1,334.31	28.32	7,289.20	7,113.93	175.28	41.587	
12,800.00	4,709.29	4,689.67	4,689.29	216.33	142.42	84.80	-1,334.31	28.32	7,388.49	7,213.23	175.26	42.156	
12,900.00	4,708.22	4,688.59	4,688.22	218.96	142.38	84.73	-1,334.31	28.32	7,487.80	7,312.55	175.25	42.726	
13,000.00	4,707.14	4,687.51	4,687.14	221.59	142.35	84.66	-1,334.31	28.32	7,587.13	7,411.89	175.24	43.296	
13,107.09	4,705.99	4,686.36	4,685.99	224.11	142.32	84.59	-1,334.31	28.32	7,693.52	7,518.29	175.23	43.905	



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Carson #578H - Original Drilling - APD Rev 3														Offset Site Error:	0.00 ft		
Survey Program: 0-MWD+HDGM														Rule Assigned:		Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)							
0.00	0.00	0.00	0.00	0.00	0.00	-0.17	20.00	-0.06	20.00								
100.00	100.00	100.00	100.00	0.15	0.15	-0.17	20.00	-0.06	20.00	19.69	0.31	64.875					
200.00	200.00	200.00	200.00	0.51	0.51	-0.17	20.00	-0.06	20.00	18.97	1.03	19.508					
300.00	300.00	300.00	300.00	0.87	0.87	-0.17	20.00	-0.06	20.00	18.26	1.74	11.480					
315.27	315.27	315.27	315.27	0.93	0.93	-0.17	20.00	-0.06	20.00	18.15	1.85	10.801 CC					
400.00	400.00	399.99	399.99	1.23	1.23	-0.16	20.00	-0.06	20.00	17.54	2.46	8.134					
445.98	445.98	445.87	445.87	1.39	1.39	1.01	20.13	0.35	20.14	17.35	2.78	7.233 ES					
501.06	501.05	500.77	500.75	1.58	1.58	136.69	20.58	1.77	21.04	17.88	3.17	6.647					
600.00	599.98	599.05	598.88	1.92	1.93	150.74	22.18	6.80	25.32	21.47	3.85	6.577					
700.00	699.96	697.78	697.22	2.26	2.29	164.36	24.82	15.07	33.32	28.78	4.54	7.332					
800.00	799.94	795.67	794.38	2.61	2.65	174.59	28.45	26.46	45.44	40.20	5.24	8.677					
900.00	899.92	892.52	890.03	2.96	3.03	-178.41	33.03	40.84	61.52	55.60	5.92	10.388					
1,000.00	999.90	988.11	983.91	3.31	3.42	-173.65	38.51	58.04	81.30	74.70	6.60	12.323					
1,100.00	1,099.89	1,082.27	1,075.73	3.67	3.82	-170.36	44.83	77.89	104.56	97.29	7.26	14.396					
1,200.00	1,199.87	1,174.84	1,165.28	4.02	4.25	-168.00	51.94	100.20	131.13	123.22	7.91	16.574					
1,300.00	1,299.85	1,265.65	1,252.35	4.38	4.70	-166.27	59.76	124.76	160.89	152.33	8.56	18.803					
1,400.00	1,399.83	1,356.21	1,338.36	4.74	5.17	-164.94	68.35	151.74	193.59	184.38	9.21	21.028					
1,500.00	1,499.81	1,450.35	1,427.54	5.09	5.69	-163.92	77.51	180.48	227.13	217.21	9.91	22.914					
1,600.00	1,599.79	1,544.49	1,516.72	5.45	6.22	-163.17	86.66	209.23	260.71	250.09	10.62	24.542					
1,700.00	1,699.78	1,638.63	1,605.90	5.81	6.76	-162.59	95.82	237.97	294.33	282.99	11.34	25.959					
1,800.00	1,799.76	1,732.78	1,695.08	6.17	7.30	-162.12	104.98	266.72	327.97	315.91	12.06	27.203					
1,900.00	1,899.74	1,826.92	1,784.26	6.52	7.86	-161.75	114.13	295.46	361.62	348.84	12.78	28.303					
2,000.00	1,999.72	1,921.06	1,873.44	6.88	8.41	-161.44	123.29	324.20	395.28	381.78	13.50	29.281					
2,100.00	2,099.70	2,015.21	1,962.62	7.24	8.97	-161.17	132.44	352.95	428.96	414.73	14.22	30.156					
2,200.00	2,199.68	2,109.35	2,051.80	7.60	9.54	-160.95	141.60	381.69	462.64	447.69	14.95	30.943					
2,300.00	2,299.66	2,203.49	2,140.97	7.96	10.10	-160.75	150.75	410.43	496.32	480.65	15.68	31.655					
2,400.00	2,399.65	2,297.64	2,230.15	8.32	10.67	-160.58	159.91	439.18	530.01	513.61	16.41	32.302					
2,500.00	2,499.63	2,391.78	2,319.33	8.68	11.24	-160.43	169.06	467.92	563.71	546.57	17.14	32.892					
2,600.00	2,599.61	2,485.92	2,408.51	9.04	11.82	-160.30	178.22	496.67	597.41	579.54	17.87	33.432					
2,700.00	2,699.59	2,580.06	2,497.69	9.40	12.39	-160.18	187.38	525.41	631.11	612.50	18.60	33.928					
2,800.00	2,799.57	2,674.21	2,586.87	9.75	12.96	-160.08	196.53	554.15	664.81	645.47	19.33	34.385					
2,900.00	2,899.55	2,768.35	2,676.05	10.11	13.54	-159.98	205.69	582.90	698.51	678.44	20.07	34.808					
3,000.00	2,999.53	2,862.49	2,765.23	10.47	14.12	-159.89	214.84	611.64	732.22	711.41	20.80	35.200					
3,100.00	3,099.52	2,956.64	2,854.41	10.83	14.69	-159.81	224.00	640.38	765.92	744.39	21.54	35.564					
3,200.00	3,199.50	3,050.78	2,943.58	11.19	15.27	-159.74	233.15	669.13	799.63	777.36	22.27	35.904					
3,300.00	3,299.48	3,144.92	3,032.76	11.55	15.85	-159.67	242.31	697.87	833.34	810.33	23.01	36.221					
3,400.00	3,399.46	3,239.07	3,121.94	11.91	16.43	-159.61	251.47	726.62	867.05	843.31	23.74	36.518					
3,500.00	3,499.44	3,333.21	3,211.12	12.27	17.01	-159.55	260.62	755.36	900.76	876.28	24.48	36.796					
3,600.00	3,599.42	3,427.35	3,300.30	12.63	17.59	-159.50	269.78	784.10	934.47	909.25	25.22	37.058					
3,700.00	3,699.41	3,521.49	3,389.48	12.99	18.17	-159.45	278.93	812.85	968.18	942.23	25.95	37.304					
3,800.00	3,799.39	3,615.64	3,478.66	13.35	18.75	-159.40	288.09	841.59	1,001.89	975.20	26.69	37.537					
3,900.00	3,899.37	3,709.78	3,567.84	13.71	19.33	-159.36	297.24	870.33	1,035.61	1,008.18	27.43	37.756					
4,000.00	3,999.35	3,803.92	3,657.02	14.07	19.92	-159.32	306.40	899.08	1,069.32	1,041.15	28.17	37.964					
4,100.00	4,099.33	3,898.07	3,746.20	14.43	20.50	-159.28	315.55	927.82	1,103.04	1,074.13	28.91	38.160					
4,154.52	4,153.84	3,949.40	3,794.82	14.62	20.82	-159.26	320.55	943.49	1,121.42	1,092.11	29.31	38.263					
4,200.00	4,199.28	3,992.43	3,835.58	14.78	21.08	-77.62	324.73	956.63	1,136.05	1,106.41	29.64	38.326					
4,250.00	4,248.96	4,040.07	3,880.71	14.96	21.38	-68.64	329.36	971.18	1,150.49	1,120.48	30.01	38.340					
4,300.00	4,298.06	4,087.77	3,925.89	15.13	21.67	-65.49	334.00	985.74	1,163.14	1,132.76	30.38	38.290					
4,350.00	4,346.29	4,135.23	3,970.85	15.30	21.97	-63.95	338.62	1,000.23	1,174.01	1,143.25	30.75	38.178					
4,400.00	4,393.33	4,182.16	4,015.31	15.46	22.26	-63.20	343.18	1,014.56	1,183.11	1,151.98	31.13	38.007					
4,450.00	4,438.91	4,228.28	4,058.99	15.62	22.54	-62.95	347.67	1,028.64	1,190.52	1,159.00	31.51	37.777					
4,500.00	4,482.73	4,273.29	4,101.63	15.79	22.82	-63.08	352.05	1,042.38	1,196.33	1,164.42	31.91	37.488					



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Carson #578H - Original Drilling - APD Rev 3													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD+HDGM													Rule Assigned:		Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
4,550.00	4,524.54	4,316.92	4,142.97	15.97	23.09	-63.51	356.29	1,055.71	1,200.67	1,168.34	32.33	37.142				
4,600.00	4,564.06	4,358.91	4,182.74	16.18	23.35	-64.17	360.37	1,068.53	1,203.69	1,170.92	32.77	36.736				
4,650.00	4,601.07	4,398.99	4,220.70	16.41	23.60	-65.01	364.27	1,080.76	1,205.57	1,172.33	33.24	36.270				
4,700.00	4,635.33	4,436.91	4,256.62	16.69	23.83	-66.00	367.96	1,092.34	1,206.50	1,172.75	33.75	35.743				
4,750.00	4,666.62	4,469.67	4,287.66	17.01	24.04	-66.98	371.13	1,102.36	1,206.71	1,172.41	34.30	35.180				
4,800.00	4,694.77	4,493.17	4,309.81	17.39	24.19	-67.74	372.95	1,109.98	1,206.59	1,171.74	34.85	34.623				
4,850.00	4,719.58	4,516.67	4,331.80	17.83	24.35	-68.55	374.15	1,118.18	1,206.33	1,170.84	35.49	33.986				
4,900.00	4,740.92	4,540.17	4,353.59	18.33	24.51	-69.41	374.73	1,126.96	1,206.00	1,169.76	36.24	33.277				
4,950.00	4,758.64	4,563.67	4,375.15	18.91	24.68	-70.29	374.70	1,136.30	1,205.70	1,168.60	37.10	32.501				
5,000.00	4,772.64	4,587.16	4,396.45	19.55	24.86	-71.20	374.04	1,146.18	1,205.51	1,167.44	38.06	31.672				
5,026.38	4,778.50	4,600.00	4,407.97	19.92	24.96	-71.71	373.41	1,151.81	1,205.48	1,166.86	38.62	31.214				
5,050.00	4,782.83	4,610.63	4,417.45	20.26	25.05	-72.13	372.76	1,156.59	1,205.51	1,166.38	39.13	30.807				
5,100.00	4,789.16	4,634.09	4,438.12	21.02	25.24	-73.06	370.86	1,167.50	1,205.81	1,165.52	40.30	29.924				
5,150.00	4,791.57	4,657.50	4,458.41	21.83	25.43	-73.98	368.36	1,178.90	1,206.50	1,164.96	41.54	29.046				
5,162.63	4,791.56	4,663.40	4,463.47	22.04	25.48	-74.21	367.63	1,181.86	1,206.74	1,164.88	41.86	28.825				
5,200.00	4,791.16	4,681.88	4,479.16	22.68	25.65	-74.99	365.10	1,191.30	1,207.96	1,165.10	42.86	28.185				
5,300.00	4,790.08	4,743.61	4,529.69	24.52	26.21	-77.50	353.95	1,224.89	1,215.34	1,169.58	45.75	26.564				
5,400.00	4,789.01	4,830.70	4,595.42	26.49	27.09	-80.75	331.29	1,277.24	1,227.47	1,178.42	49.04	25.029				
5,500.00	4,787.93	4,956.54	4,676.62	28.57	28.54	-84.71	285.06	1,361.21	1,241.85	1,188.98	52.88	23.487				
5,600.00	4,786.85	5,135.19	4,758.57	30.73	30.96	-88.64	195.47	1,491.46	1,254.34	1,196.83	57.52	21.808				
5,700.00	4,785.77	5,361.57	4,797.76	32.96	34.49	-90.54	51.89	1,660.46	1,259.55	1,196.69	62.86	20.038				
5,800.00	4,784.70	5,467.48	4,796.68	35.25	36.26	-90.55	-21.04	1,737.26	1,259.17	1,192.01	67.17	18.747				
5,900.00	4,783.62	5,567.48	4,795.59	37.59	38.04	-90.55	-89.91	1,809.75	1,258.79	1,187.23	71.56	17.591				
6,000.00	4,782.54	5,667.48	4,794.51	39.96	39.91	-90.55	-158.78	1,882.25	1,258.40	1,182.34	76.06	16.544				
6,100.00	4,781.47	5,767.48	4,793.42	42.37	41.87	-90.55	-227.65	1,954.74	1,258.02	1,177.35	80.66	15.596				
6,200.00	4,780.39	5,867.48	4,792.33	44.80	43.90	-90.55	-296.53	2,027.23	1,257.63	1,172.29	85.34	14.737				
6,300.00	4,779.31	5,967.48	4,791.24	47.25	46.00	-90.55	-365.40	2,099.73	1,257.24	1,167.16	90.08	13.956				
6,400.00	4,778.23	6,067.48	4,790.15	49.73	48.15	-90.55	-434.27	2,172.22	1,256.86	1,161.97	94.88	13.246				
6,500.00	4,777.16	6,167.48	4,789.06	52.22	50.35	-90.55	-503.14	2,244.71	1,256.47	1,156.74	99.73	12.598				
6,600.00	4,776.08	6,267.48	4,787.97	54.72	52.59	-90.54	-572.01	2,317.21	1,256.09	1,151.46	104.62	12.006				
6,700.00	4,775.00	6,367.48	4,786.88	57.23	54.87	-90.54	-640.89	2,389.70	1,255.70	1,146.15	109.55	11.463				
6,800.00	4,773.93	6,467.48	4,785.79	59.76	57.18	-90.54	-709.76	2,462.20	1,255.31	1,140.81	114.51	10.963				
6,900.00	4,772.85	6,567.48	4,784.70	62.30	59.51	-90.54	-778.63	2,534.69	1,254.93	1,135.44	119.49	10.502				
7,000.00	4,771.77	6,667.48	4,783.61	64.84	61.88	-90.54	-847.50	2,607.18	1,254.54	1,130.04	124.50	10.077				
7,100.00	4,770.69	6,767.48	4,782.52	67.39	64.26	-90.54	-916.37	2,679.68	1,254.16	1,124.63	129.53	9.682				
7,200.00	4,769.62	6,867.47	4,781.44	69.95	66.66	-90.54	-985.24	2,752.17	1,253.77	1,119.19	134.58	9.316				
7,300.00	4,768.54	6,967.47	4,780.35	72.51	69.09	-90.54	-1,054.12	2,824.67	1,253.38	1,113.74	139.64	8.976				
7,400.00	4,767.46	7,067.47	4,779.26	75.08	71.52	-90.54	-1,122.99	2,897.16	1,253.00	1,108.27	144.72	8.658				
7,500.00	4,766.39	7,167.47	4,778.17	77.65	73.97	-90.54	-1,191.86	2,969.65	1,252.61	1,102.79	149.82	8.361				
7,600.00	4,765.31	7,267.47	4,777.08	80.23	76.44	-90.54	-1,260.73	3,042.15	1,252.23	1,097.30	154.92	8.083				
7,700.00	4,764.23	7,367.47	4,775.99	82.81	78.91	-90.54	-1,329.60	3,114.64	1,251.84	1,091.80	160.04	7.822				
7,800.00	4,763.15	7,467.47	4,774.90	85.40	81.40	-90.54	-1,398.47	3,187.13	1,251.45	1,086.29	165.17	7.577				
7,900.00	4,762.08	7,567.47	4,773.81	87.99	83.89	-90.54	-1,467.35	3,259.63	1,251.07	1,080.76	170.30	7.346				
8,000.00	4,761.00	7,667.47	4,772.72	90.58	86.40	-90.54	-1,536.22	3,332.12	1,250.68	1,075.23	175.45	7.128				
8,100.00	4,759.92	7,767.47	4,771.63	93.17	88.91	-90.54	-1,605.09	3,404.62	1,250.30	1,069.70	180.60	6.923				
8,200.00	4,758.84	7,867.47	4,770.54	95.77	91.43	-90.54	-1,673.96	3,477.11	1,249.91	1,064.15	185.76	6.729				
8,300.00	4,757.77	7,967.47	4,769.45	98.37	93.95	-90.54	-1,742.83	3,549.60	1,249.53	1,058.60	190.92	6.545				
8,400.00	4,756.69	8,067.47	4,768.37	100.97	96.48	-90.54	-1,811.70	3,622.10	1,249.14	1,053.04	196.10	6.370				
8,500.00	4,755.61	8,167.46	4,767.28	103.57	99.02	-90.54	-1,880.58	3,694.59	1,248.75	1,047.48	201.27	6.204				
8,600.00	4,754.54	8,267.46	4,766.19	106.18	101.56	-90.54	-1,949.45	3,767.08	1,248.37	1,041.91	206.45	6.047				
8,700.00	4,753.46	8,367.46	4,765.10	108.78	104.11	-90.54	-2,018.32	3,839.58	1,247.98	1,036.34	211.64	5.897				
8,800.00	4,752.38	8,467.46	4,764.01	111.39	106.66	-90.54	-2,087.19	3,912.07	1,247.60	1,030.77	216.83	5.754				



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Carson #578H - Original Drilling - APD Rev 3													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 ft
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance			Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	4,751.30	8,567.46	4,762.92	114.00	109.21	-90.54	-2,156.06	3,984.57	1,247.21	1,025.19	222.02	5.617		
9,000.00	4,750.23	8,667.46	4,761.83	116.61	111.77	-90.54	-2,224.93	4,057.06	1,246.82	1,019.60	227.22	5.487		
9,100.00	4,749.15	8,767.46	4,760.74	119.22	114.34	-90.54	-2,293.81	4,129.55	1,246.44	1,014.01	232.42	5.363		
9,200.00	4,748.07	8,867.46	4,759.65	121.83	116.90	-90.53	-2,362.68	4,202.05	1,246.05	1,008.42	237.63	5.244		
9,300.00	4,747.00	8,967.46	4,758.56	124.45	119.47	-90.53	-2,431.55	4,274.54	1,245.67	1,002.83	242.83	5.130		
9,400.00	4,745.92	9,067.46	4,757.47	127.06	122.04	-90.53	-2,500.42	4,347.04	1,245.28	997.23	248.04	5.020		
9,500.00	4,744.84	9,167.46	4,756.38	129.68	124.62	-90.53	-2,569.29	4,419.53	1,244.89	991.64	253.26	4.916		
9,600.00	4,743.76	9,267.46	4,755.30	132.30	127.19	-90.53	-2,638.16	4,492.02	1,244.51	986.03	258.47	4.815		
9,700.00	4,742.69	9,367.46	4,754.21	134.92	129.77	-90.53	-2,707.04	4,564.52	1,244.12	980.43	263.69	4.718		
9,800.00	4,741.61	9,467.46	4,753.12	137.53	132.35	-90.53	-2,775.91	4,637.01	1,243.74	974.82	268.91	4.625		
9,900.00	4,740.53	9,567.45	4,752.03	140.15	134.94	-90.53	-2,844.78	4,709.50	1,243.35	969.22	274.13	4.536		
10,000.00	4,739.46	9,667.45	4,750.94	142.77	137.52	-90.53	-2,913.65	4,782.00	1,242.96	963.61	279.36	4.449		
10,100.00	4,738.38	9,767.45	4,749.85	145.40	140.11	-90.53	-2,982.52	4,854.49	1,242.58	958.00	284.58	4.366		
10,200.00	4,737.30	9,867.45	4,748.76	148.02	142.70	-90.53	-3,051.39	4,926.99	1,242.19	952.38	289.81	4.286		
10,300.00	4,736.22	9,967.45	4,747.67	150.64	145.29	-90.53	-3,120.27	4,999.48	1,241.81	946.77	295.04	4.209		
10,400.00	4,735.15	10,067.45	4,746.58	153.26	147.88	-90.53	-3,189.14	5,071.97	1,241.42	941.15	300.27	4.134		
10,500.00	4,734.07	10,167.45	4,745.49	155.89	150.47	-90.53	-3,258.01	5,144.47	1,241.03	935.53	305.50	4.062		
10,600.00	4,732.99	10,267.45	4,744.40	158.51	153.07	-90.53	-3,326.88	5,216.96	1,240.65	929.91	310.74	3.993		
10,700.00	4,731.91	10,367.45	4,743.31	161.13	155.67	-90.53	-3,395.75	5,289.46	1,240.26	924.29	315.97	3.925		
10,800.00	4,730.84	10,467.45	4,742.23	163.76	158.26	-90.53	-3,464.62	5,361.95	1,239.88	918.67	321.21	3.860		
10,900.00	4,729.76	10,567.45	4,741.14	166.38	160.86	-90.53	-3,533.50	5,434.44	1,239.49	913.05	326.44	3.797		
11,000.00	4,728.68	10,667.45	4,740.05	169.01	163.46	-90.53	-3,602.37	5,506.94	1,239.10	907.42	331.68	3.736		
11,100.00	4,727.61	10,767.45	4,738.96	171.64	166.07	-90.53	-3,671.24	5,579.43	1,238.72	901.80	336.92	3.677		
11,200.00	4,726.53	10,867.44	4,737.87	174.26	168.67	-90.53	-3,740.11	5,651.92	1,238.33	896.17	342.16	3.619		
11,300.00	4,725.45	10,967.44	4,736.78	176.89	171.27	-90.53	-3,808.98	5,724.42	1,237.95	890.54	347.41	3.563		
11,400.00	4,724.37	11,067.44	4,735.69	179.52	173.88	-90.53	-3,877.86	5,796.91	1,237.56	884.91	352.65	3.509		
11,500.00	4,723.30	11,167.44	4,734.60	182.14	176.48	-90.53	-3,946.73	5,869.41	1,237.17	879.28	357.89	3.457		
11,600.00	4,722.22	11,267.44	4,733.51	184.77	179.09	-90.53	-4,015.60	5,941.90	1,236.79	873.65	363.14	3.406		
11,700.00	4,721.14	11,367.44	4,732.42	187.40	181.69	-90.53	-4,084.47	6,014.39	1,236.40	868.02	368.38	3.356		
11,800.00	4,720.07	11,467.44	4,731.33	190.03	184.30	-90.52	-4,153.34	6,086.89	1,236.02	862.39	373.63	3.308		
11,900.00	4,718.99	11,567.44	4,730.24	192.66	186.91	-90.52	-4,222.21	6,159.38	1,235.63	856.76	378.87	3.261		
12,000.00	4,717.91	11,667.44	4,729.16	195.29	189.52	-90.52	-4,291.09	6,231.87	1,235.24	851.12	384.12	3.216		
12,100.00	4,716.83	11,767.44	4,728.07	197.92	192.13	-90.52	-4,359.96	6,304.37	1,234.86	845.49	389.37	3.171		
12,200.00	4,715.76	11,867.44	4,726.98	200.55	194.74	-90.52	-4,428.83	6,376.86	1,234.47	839.85	394.62	3.128		
12,300.00	4,714.68	11,967.44	4,725.89	203.18	197.35	-90.52	-4,497.70	6,449.36	1,234.09	834.22	399.87	3.086		
12,400.00	4,713.60	12,067.44	4,724.80	205.81	199.96	-90.52	-4,566.57	6,521.85	1,233.70	828.58	405.12	3.045		
12,500.00	4,712.53	12,167.44	4,723.71	208.44	202.58	-90.52	-4,635.44	6,594.34	1,233.31	822.94	410.37	3.005		
12,600.00	4,711.45	12,267.43	4,722.62	211.07	205.19	-90.52	-4,704.32	6,666.84	1,232.93	817.31	415.62	2.966		
12,700.00	4,710.37	12,367.43	4,721.53	213.70	207.80	-90.52	-4,773.19	6,739.33	1,232.54	811.67	420.87	2.929		
12,800.00	4,709.29	12,467.43	4,720.44	216.33	210.42	-90.52	-4,842.06	6,811.83	1,232.16	806.03	426.13	2.892		
12,900.00	4,708.22	12,567.43	4,719.35	218.96	213.03	-90.52	-4,910.93	6,884.32	1,231.77	800.39	431.38	2.855		
13,000.00	4,707.14	12,667.43	4,718.26	221.59	215.65	-90.52	-4,979.80	6,956.81	1,231.38	794.75	436.63	2.820		
13,107.09	4,705.99	12,774.52	4,717.10	224.41	218.45	-90.52	-5,053.55	7,034.44	1,230.97	788.71	442.26	2.783 SF		



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Carson #605H - Original Drilling - APD Rev 3													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.00	0.00	0.00	0.00	0.00	0.00	-0.17	40.00	-0.12	40.00	40.00				
100.00	100.00	100.00	100.00	0.15	0.15	-0.17	40.00	-0.12	40.00	39.69	0.31	129.750		
200.00	200.00	200.00	200.00	0.51	0.51	-0.17	40.00	-0.12	40.00	38.97	1.03	39.016		
300.00	300.00	300.00	300.00	0.87	0.87	-0.17	40.00	-0.12	40.00	38.26	1.74	22.960		
400.00	400.00	400.00	400.00	1.23	1.23	-0.17	40.00	-0.12	40.00	37.54	2.46	16.266		
445.98	445.98	445.98	445.98	1.39	1.39	-0.17	40.00	-0.12	40.00	37.21	2.79	14.343	CC, ES	
501.06	501.05	500.73	500.73	1.58	1.59	131.86	40.21	0.36	40.57	37.39	3.17	12.788		
600.00	599.98	598.85	598.78	1.92	1.93	137.96	41.65	3.61	43.60	39.74	3.85	11.319		
700.00	699.96	697.53	697.21	2.26	2.29	146.43	44.46	9.98	49.21	44.66	4.55	10.824	SF	
800.00	799.94	795.49	794.63	2.61	2.65	155.33	48.61	19.36	58.20	52.96	5.24	11.103		
900.00	899.92	892.51	890.71	2.96	3.01	163.26	54.04	31.65	71.03	65.10	5.93	11.973		
1,000.00	999.90	988.40	985.16	3.31	3.39	169.69	60.70	46.71	87.77	81.16	6.61	13.271		
1,100.00	1,099.89	1,082.94	1,077.71	3.67	3.78	174.68	68.51	64.38	108.29	101.01	7.28	14.869		
1,200.00	1,199.87	1,175.98	1,168.11	4.02	4.19	178.49	77.39	84.49	132.41	124.47	7.94	16.678		
1,300.00	1,299.85	1,267.36	1,256.15	4.38	4.61	-178.60	87.27	106.85	159.93	151.35	8.58	18.635		
1,400.00	1,399.83	1,358.91	1,343.59	4.74	5.07	-176.31	98.23	131.65	190.52	181.28	9.24	20.624		
1,500.00	1,499.81	1,453.65	1,433.89	5.09	5.56	-174.55	109.82	157.87	221.96	212.02	9.94	22.326		
1,600.00	1,599.79	1,548.39	1,524.19	5.45	6.06	-173.23	121.41	184.09	253.55	242.90	10.65	23.805		
1,700.00	1,699.78	1,643.12	1,614.48	5.81	6.57	-172.20	133.00	210.31	285.22	273.86	11.36	25.100		
1,800.00	1,799.76	1,737.86	1,704.78	6.17	7.09	-171.37	144.58	236.52	316.97	304.89	12.08	26.240		
1,900.00	1,899.74	1,832.60	1,795.08	6.52	7.61	-170.70	156.17	262.74	348.76	335.96	12.80	27.251		
2,000.00	1,999.72	1,927.34	1,885.38	6.88	8.14	-170.14	167.76	288.96	380.59	367.07	13.52	28.152		
2,100.00	2,099.70	2,022.08	1,975.68	7.24	8.67	-169.66	179.34	315.18	412.45	398.21	14.24	28.961		
2,200.00	2,199.68	2,116.82	2,065.98	7.60	9.21	-169.25	190.93	341.40	444.33	429.36	14.97	29.689		
2,300.00	2,299.66	2,211.56	2,156.27	7.96	9.75	-168.90	202.52	367.62	476.22	460.53	15.69	30.349		
2,400.00	2,399.65	2,306.30	2,246.57	8.32	10.29	-168.59	214.11	393.84	508.13	491.72	16.42	30.949		
2,500.00	2,499.63	2,401.03	2,336.87	8.68	10.83	-168.32	225.69	420.06	540.06	522.91	17.15	31.496		
2,600.00	2,599.61	2,495.77	2,427.17	9.04	11.37	-168.08	237.28	446.27	571.99	554.11	17.88	31.998		
2,700.00	2,699.59	2,590.51	2,517.47	9.40	11.92	-167.86	248.87	472.49	603.93	585.32	18.61	32.460		
2,800.00	2,799.57	2,685.25	2,607.76	9.75	12.46	-167.67	260.45	498.71	635.88	616.54	19.34	32.886		
2,900.00	2,899.55	2,779.99	2,698.06	10.11	13.01	-167.49	272.04	524.93	667.83	647.76	20.07	33.280		
3,000.00	2,999.53	2,874.73	2,788.36	10.47	13.56	-167.33	283.63	551.15	699.79	678.99	20.80	33.645		
3,100.00	3,099.52	2,969.47	2,878.66	10.83	14.11	-167.19	295.21	577.37	731.75	710.22	21.53	33.985		
3,200.00	3,199.50	3,064.20	2,968.96	11.19	14.66	-167.05	306.80	603.59	763.72	741.45	22.26	34.302		
3,300.00	3,299.48	3,158.94	3,059.25	11.55	15.21	-166.93	318.39	629.81	795.69	772.69	23.00	34.599		
3,400.00	3,399.46	3,253.68	3,149.55	11.91	15.76	-166.82	329.98	656.02	827.66	803.93	23.73	34.876		
3,500.00	3,499.44	3,348.42	3,239.85	12.27	16.31	-166.71	341.56	682.24	859.63	835.17	24.47	35.136		
3,600.00	3,599.42	3,443.16	3,330.15	12.63	16.86	-166.62	353.15	708.46	891.61	866.41	25.20	35.381		
3,700.00	3,699.41	3,537.90	3,420.45	12.99	17.41	-166.52	364.74	734.68	923.59	897.66	25.94	35.612		
3,800.00	3,799.39	3,632.64	3,510.74	13.35	17.96	-166.44	376.32	760.90	955.57	928.90	26.67	35.829		
3,900.00	3,899.37	3,727.38	3,601.04	13.71	18.52	-166.36	387.91	787.12	987.56	960.15	27.41	36.035		
4,000.00	3,999.35	3,822.11	3,691.34	14.07	19.07	-166.29	399.50	813.34	1,019.54	991.40	28.14	36.229		
4,100.00	4,099.33	3,916.85	3,781.64	14.43	19.62	-166.22	411.09	839.56	1,051.53	1,022.65	28.88	36.413		
4,154.52	4,153.84	3,968.51	3,830.87	14.62	19.92	-166.18	417.40	853.85	1,068.97	1,039.69	29.28	36.509		
4,200.00	4,199.28	4,011.75	3,872.09	14.78	20.18	-84.52	422.69	865.82	1,082.99	1,053.38	29.61	36.573		
4,250.00	4,248.96	4,059.47	3,917.57	14.96	20.46	-75.52	428.53	879.03	1,097.13	1,067.15	29.98	36.600		
4,300.00	4,298.06	4,107.11	3,962.97	15.13	20.73	-72.33	434.36	892.21	1,109.90	1,079.56	30.34	36.579		
4,350.00	4,346.29	4,154.36	4,008.01	15.30	21.01	-70.73	440.13	905.28	1,121.31	1,090.60	30.71	36.509		
4,400.00	4,393.33	4,200.92	4,052.39	15.46	21.28	-69.90	445.83	918.17	1,131.39	1,100.30	31.09	36.394		
4,450.00	4,438.91	4,246.53	4,095.86	15.62	21.55	-69.57	451.41	930.79	1,140.21	1,108.74	31.47	36.233		
4,500.00	4,482.73	4,295.62	4,142.66	15.79	21.84	-69.70	457.47	944.32	1,147.86	1,115.96	31.90	35.983		
4,550.00	4,524.54	4,369.17	4,213.15	15.97	22.23	-71.03	470.25	960.80	1,153.79	1,121.24	32.55	35.447		



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Carson #605H - Original Drilling - APD Rev 3													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD+HDGM													Rule Assigned:		Offset Well Error:	0.00 ft
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
4,600.00	4,564.06	4,428.43	4,269.90	16.18	22.50	-72.51	484.77	969.57	1,158.24	1,125.13	33.11	34.983				
4,650.00	4,601.07	4,474.14	4,313.33	16.41	22.69	-73.84	498.46	973.53	1,162.05	1,128.44	33.61	34.572				
4,700.00	4,635.33	4,508.12	4,345.25	16.69	22.82	-74.86	509.99	974.88	1,165.87	1,131.78	34.09	34.198				
4,750.00	4,666.62	4,532.41	4,367.84	17.01	22.90	-75.50	518.93	975.00	1,170.15	1,135.58	34.57	33.849				
4,800.00	4,694.77	4,548.88	4,383.03	17.39	22.96	-75.76	525.31	974.69	1,175.18	1,140.11	35.07	33.514				
4,850.00	4,719.58	4,559.10	4,392.39	17.83	22.99	-75.68	529.39	974.33	1,181.12	1,145.53	35.59	33.188				
4,900.00	4,740.92	4,564.31	4,397.14	18.33	23.01	-75.28	531.51	974.10	1,188.05	1,151.90	36.15	32.866				
4,950.00	4,758.64	4,565.48	4,398.21	18.91	23.01	-74.61	531.99	974.05	1,195.96	1,159.21	36.75	32.543				
5,000.00	4,772.64	4,563.40	4,396.31	19.55	23.00	-73.71	531.14	974.15	1,204.80	1,167.41	37.39	32.220				
5,050.00	4,782.83	4,558.67	4,391.99	20.26	22.99	-72.62	529.22	974.35	1,214.47	1,176.39	38.07	31.897				
5,100.00	4,789.16	4,550.00	4,384.05	21.02	22.96	-71.30	525.75	974.66	1,224.86	1,186.09	38.77	31.592				
5,150.00	4,791.57	4,550.00	4,384.05	21.83	22.96	-70.34	525.75	974.66	1,235.85	1,196.25	39.60	31.208				
5,162.63	4,791.56	4,540.57	4,375.38	22.04	22.93	-69.67	522.05	974.89	1,238.67	1,198.96	39.72	31.188				
5,200.00	4,791.16	4,533.45	4,368.80	22.68	22.91	-69.34	519.32	974.99	1,247.63	1,207.35	40.28	30.971				
5,300.00	4,790.08	4,516.76	4,353.32	24.52	22.85	-68.58	513.11	975.00	1,276.43	1,234.61	41.83	30.517				
5,400.00	4,789.01	4,500.00	4,337.66	26.49	22.79	-67.82	507.13	974.68	1,311.95	1,268.64	43.31	30.291				
5,500.00	4,787.93	4,500.00	4,337.66	28.57	22.79	-67.82	507.13	974.68	1,353.77	1,308.88	44.89	30.157				
5,600.00	4,786.85	4,481.05	4,319.85	30.73	22.72	-66.94	500.71	973.92	1,401.21	1,355.10	46.11	30.387				
5,700.00	4,785.77	4,472.34	4,311.63	32.96	22.68	-66.54	497.88	973.42	1,453.92	1,406.60	47.32	30.726				
5,800.00	4,784.70	4,450.00	4,290.45	35.25	22.60	-65.51	490.97	971.75	1,511.48	1,463.27	48.21	31.352				
5,900.00	4,783.62	4,450.00	4,290.45	37.59	22.60	-65.51	490.97	971.75	1,572.94	1,523.70	49.25	31.940				
6,000.00	4,782.54	4,450.00	4,290.45	39.96	22.60	-65.51	490.97	971.75	1,638.21	1,588.05	50.16	32.662				
6,100.00	4,781.47	4,450.00	4,290.45	42.37	22.60	-65.51	490.97	971.75	1,706.84	1,655.89	50.95	33.501				
6,200.00	4,780.39	4,450.00	4,290.45	44.80	22.60	-65.51	490.97	971.75	1,778.45	1,726.81	51.64	34.440				
6,300.00	4,779.31	4,450.00	4,290.45	47.25	22.60	-65.51	490.97	971.75	1,852.69	1,800.45	52.24	35.467				
6,400.00	4,778.23	4,450.00	4,290.45	49.73	22.60	-65.51	490.97	971.75	1,929.25	1,876.50	52.76	36.570				
6,500.00	4,777.16	4,430.28	4,271.67	52.22	22.51	-64.61	485.28	969.78	2,007.54	1,954.58	52.96	37.905				
6,600.00	4,776.08	4,427.02	4,268.56	54.72	22.50	-64.46	484.38	969.41	2,087.88	2,034.56	53.32	39.160				
6,700.00	4,775.00	4,424.03	4,265.70	57.23	22.48	-64.32	483.57	969.06	2,169.83	2,116.21	53.62	40.466				
6,800.00	4,773.93	4,421.27	4,263.07	59.76	22.47	-64.19	482.82	968.73	2,253.22	2,199.34	53.89	41.814				
6,900.00	4,772.85	4,400.00	4,242.72	62.30	22.38	-63.21	477.35	965.87	2,338.22	2,284.34	53.88	43.394				
7,000.00	4,771.77	4,400.00	4,242.72	64.84	22.38	-63.21	477.35	965.87	2,423.99	2,369.88	54.11	44.794				
7,100.00	4,770.69	4,400.00	4,242.72	67.39	22.38	-63.21	477.35	965.87	2,510.82	2,456.50	54.32	46.225				
7,200.00	4,769.62	4,400.00	4,242.72	69.95	22.38	-63.21	477.35	965.87	2,598.59	2,544.09	54.50	47.684				
7,300.00	4,768.54	4,400.00	4,242.72	72.51	22.38	-63.21	477.35	965.87	2,687.21	2,632.56	54.65	49.168				
7,400.00	4,767.46	4,400.00	4,242.72	75.08	22.38	-63.21	477.35	965.87	2,776.61	2,721.82	54.79	50.674				
7,500.00	4,766.39	4,400.00	4,242.72	77.65	22.38	-63.21	477.35	965.87	2,866.71	2,811.79	54.92	52.200				
7,600.00	4,765.31	4,400.00	4,242.72	80.23	22.38	-63.21	477.35	965.87	2,957.44	2,902.42	55.03	53.744				
7,700.00	4,764.23	4,400.00	4,242.72	82.81	22.38	-63.21	477.35	965.87	3,048.76	2,993.63	55.13	55.304				
7,800.00	4,763.15	4,400.00	4,242.72	85.40	22.38	-63.21	477.35	965.87	3,140.60	3,085.39	55.22	56.879				
7,900.00	4,762.08	4,400.00	4,242.72	87.99	22.38	-63.21	477.35	965.87	3,232.93	3,177.64	55.30	58.466				
8,000.00	4,761.00	4,400.00	4,242.72	90.58	22.38	-63.21	477.35	965.87	3,325.70	3,270.33	55.37	60.065				
8,100.00	4,759.92	4,400.00	4,242.72	93.17	22.38	-63.21	477.35	965.87	3,418.88	3,363.45	55.43	61.674				
8,200.00	4,758.84	4,400.00	4,242.72	95.77	22.38	-63.21	477.35	965.87	3,512.44	3,456.94	55.49	63.293				
8,300.00	4,757.77	4,400.00	4,242.72	98.37	22.38	-63.21	477.35	965.87	3,606.34	3,550.79	55.55	64.921				
8,400.00	4,756.69	4,400.00	4,242.72	100.97	22.38	-63.21	477.35	965.87	3,700.56	3,644.96	55.60	66.556				
8,500.00	4,755.61	4,400.00	4,242.72	103.57	22.38	-63.21	477.35	965.87	3,795.07	3,739.43	55.65	68.198				
8,600.00	4,754.54	4,400.00	4,242.72	106.18	22.38	-63.21	477.35	965.87	3,889.86	3,834.17	55.69	69.846				
8,700.00	4,753.46	4,400.00	4,242.72	108.78	22.38	-63.21	477.35	965.87	3,984.91	3,929.18	55.73	71.500				
8,800.00	4,752.38	4,400.00	4,242.72	111.39	22.38	-63.21	477.35	965.87	4,080.19	4,024.42	55.77	73.159				
8,900.00	4,751.30	4,400.00	4,242.72	114.00	22.38	-63.21	477.35	965.87	4,175.69	4,119.88	55.81	74.823				
9,000.00	4,750.23	4,400.00	4,242.72	116.61	22.38	-63.21	477.35	965.87	4,271.40	4,215.56	55.84	76.490				



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Carson #605H - Original Drilling - APD Rev 3													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD+HDGM													Rule Assigned:		Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
9,100.00	4,749.15	4,400.00	4,242.72	119.22	22.38	-63.21	477.35	965.87	4,367.30	4,311.43	55.88	78.161				
9,200.00	4,748.07	4,400.00	4,242.72	121.83	22.38	-63.21	477.35	965.87	4,463.38	4,407.47	55.91	79.835				
9,300.00	4,747.00	4,400.00	4,242.72	124.45	22.38	-63.21	477.35	965.87	4,559.63	4,503.69	55.94	81.512				
9,400.00	4,745.92	4,400.00	4,242.72	127.06	22.38	-63.21	477.35	965.87	4,656.04	4,600.07	55.97	83.191				
9,500.00	4,744.84	4,400.00	4,242.72	129.68	22.38	-63.21	477.35	965.87	4,752.59	4,696.60	56.00	84.872				
9,600.00	4,743.76	4,400.00	4,242.72	132.30	22.38	-63.21	477.35	965.87	4,849.29	4,793.26	56.03	86.555				
9,700.00	4,742.69	4,400.00	4,242.72	134.92	22.38	-63.21	477.35	965.87	4,946.12	4,890.06	56.05	88.240				
9,800.00	4,741.61	4,400.00	4,242.72	137.53	22.38	-63.21	477.35	965.87	5,043.07	4,986.99	56.08	89.925				
9,900.00	4,740.53	4,400.00	4,242.72	140.15	22.38	-63.21	477.35	965.87	5,140.13	5,084.03	56.11	91.612				
10,000.00	4,739.46	4,400.00	4,242.72	142.77	22.38	-63.21	477.35	965.87	5,237.31	5,181.18	56.13	93.299				
10,100.00	4,738.38	4,400.00	4,242.72	145.40	22.38	-63.21	477.35	965.87	5,334.59	5,278.43	56.16	94.987				
10,200.00	4,737.30	4,400.00	4,242.72	148.02	22.38	-63.21	477.35	965.87	5,431.97	5,375.79	56.19	96.675				
10,300.00	4,736.22	4,400.00	4,242.72	150.64	22.38	-63.21	477.35	965.87	5,529.45	5,473.23	56.21	98.363				
10,400.00	4,735.15	4,400.00	4,242.72	153.26	22.38	-63.21	477.35	965.87	5,627.01	5,570.77	56.24	100.051				
10,500.00	4,734.07	4,400.00	4,242.72	155.89	22.38	-63.21	477.35	965.87	5,724.66	5,668.39	56.27	101.739				
10,600.00	4,732.99	4,400.00	4,242.72	158.51	22.38	-63.21	477.35	965.87	5,822.38	5,766.09	56.29	103.427				
10,700.00	4,731.91	4,400.00	4,242.72	161.13	22.38	-63.21	477.35	965.87	5,920.19	5,863.87	56.32	105.114				
10,800.00	4,730.84	4,400.00	4,242.72	163.76	22.38	-63.21	477.35	965.87	6,018.06	5,961.71	56.35	106.800				
10,900.00	4,729.76	4,400.00	4,242.72	166.38	22.38	-63.21	477.35	965.87	6,116.01	6,059.63	56.38	108.485				
11,000.00	4,728.68	4,400.00	4,242.72	169.01	22.38	-63.21	477.35	965.87	6,214.02	6,157.61	56.40	110.169				
11,100.00	4,727.61	4,400.00	4,242.72	171.64	22.38	-63.21	477.35	965.87	6,312.09	6,255.66	56.43	111.852				
11,200.00	4,726.53	4,400.00	4,242.72	174.26	22.38	-63.21	477.35	965.87	6,410.22	6,353.76	56.46	113.534				
11,300.00	4,725.45	4,400.00	4,242.72	176.89	22.38	-63.21	477.35	965.87	6,508.41	6,451.92	56.49	115.214				
11,400.00	4,724.37	4,400.00	4,242.72	179.52	22.38	-63.21	477.35	965.87	6,606.65	6,550.13	56.52	116.893				
11,500.00	4,723.30	4,400.00	4,242.72	182.14	22.38	-63.21	477.35	965.87	6,704.94	6,648.40	56.55	118.571				
11,600.00	4,722.22	4,377.12	4,220.77	184.77	22.27	-62.16	471.98	962.21	6,802.84	6,746.52	56.32	120.783				
11,700.00	4,721.14	4,376.80	4,220.47	187.40	22.27	-62.15	471.91	962.16	6,901.22	6,844.87	56.35	122.471				
11,800.00	4,720.07	4,376.50	4,220.18	190.03	22.26	-62.14	471.85	962.11	6,999.65	6,943.27	56.38	124.157				
11,900.00	4,718.99	4,376.20	4,219.89	192.66	22.26	-62.12	471.78	962.06	7,098.12	7,041.71	56.41	125.841				
12,000.00	4,717.91	4,375.91	4,219.61	195.29	22.26	-62.11	471.72	962.00	7,196.63	7,140.20	56.43	127.522				
12,100.00	4,716.83	4,375.62	4,219.34	197.92	22.26	-62.10	471.65	961.96	7,295.18	7,238.72	56.46	129.202				
12,200.00	4,715.76	4,375.35	4,219.08	200.55	22.26	-62.08	471.59	961.91	7,393.77	7,337.28	56.49	130.879				
12,300.00	4,714.68	4,375.08	4,218.82	203.18	22.26	-62.07	471.53	961.86	7,492.40	7,435.88	56.52	132.554				
12,400.00	4,713.60	4,374.82	4,218.57	205.81	22.26	-62.06	471.48	961.81	7,591.07	7,534.51	56.55	134.227				
12,500.00	4,712.53	4,374.56	4,218.32	208.44	22.25	-62.05	471.42	961.77	7,689.76	7,633.18	56.59	135.897				
12,600.00	4,711.45	4,374.31	4,218.08	211.07	22.25	-62.04	471.37	961.72	7,788.50	7,731.88	56.62	137.564				
12,700.00	4,710.37	4,374.07	4,217.85	213.70	22.25	-62.03	471.31	961.68	7,887.26	7,830.61	56.65	139.229				
12,800.00	4,709.29	4,373.83	4,217.62	216.33	22.25	-62.01	471.26	961.64	7,986.05	7,929.37	56.68	140.891				
12,900.00	4,708.22	4,373.60	4,217.40	218.96	22.25	-62.00	471.21	961.60	8,084.88	8,028.16	56.72	142.550				
13,000.00	4,707.14	4,373.37	4,217.18	221.59	22.25	-61.99	471.16	961.56	8,183.73	8,126.98	56.75	144.207				
13,107.09	4,705.99	4,350.00	4,194.75	224.41	22.13	-60.93	466.36	957.10	8,290.06	8,233.53	56.53	146.643				



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Carson #609H - Original Drilling - APD Rev 3													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-0.17	60.00	-0.18	60.00					
100.00	100.00	100.00	100.00	0.15	0.15	-0.17	60.00	-0.18	60.00	59.69	0.31	194.625		
200.00	200.00	200.00	200.00	0.51	0.51	-0.17	60.00	-0.18	60.00	58.97	1.03	58.524		
300.00	300.00	300.00	300.00	0.87	0.87	-0.17	60.00	-0.18	60.00	58.26	1.74	34.440		
400.00	400.00	400.04	400.04	1.23	1.23	-0.17	60.00	-0.18	60.00	57.54	2.46	24.403		
445.98	445.98	446.45	446.45	1.39	1.39	-0.55	59.80	-0.57	59.80	57.02	2.78	21.509		
501.06	501.05	501.89	501.87	1.58	1.58	129.38	59.12	-1.88	59.49	56.33	3.16	18.840		
600.00	599.98	600.83	600.76	1.92	1.92	128.10	57.69	-4.64	59.35	55.52	3.83	15.483		
700.00	699.96	700.82	700.70	2.26	2.27	126.79	56.25	-7.44	59.25	54.72	4.53	13.083		
800.00	799.94	800.81	800.64	2.61	2.62	125.49	54.81	-10.23	59.17	53.94	5.23	11.313		
900.00	899.92	900.80	900.58	2.96	2.98	124.18	53.37	-13.03	59.12	53.19	5.94	9.959		
1,000.00	999.90	1,000.79	1,000.52	3.31	3.34	122.86	51.92	-15.82	59.11	52.46	6.65	8.893		
1,000.97	1,000.87	1,001.76	1,001.49	3.32	3.34	122.85	51.91	-15.85	59.11	52.45	6.65	8.884	CC	
1,100.00	1,099.89	1,100.78	1,100.46	3.67	3.69	121.55	50.48	-18.62	59.12	51.76	7.36	8.035		
1,200.00	1,199.87	1,200.77	1,200.40	4.02	4.05	120.24	49.04	-21.41	59.17	51.10	8.07	7.330		
1,300.00	1,299.85	1,300.76	1,300.35	4.38	4.41	118.94	47.59	-24.21	59.24	50.46	8.79	6.743		
1,400.00	1,399.83	1,400.75	1,400.29	4.74	4.77	117.63	46.15	-27.00	59.35	49.85	9.50	6.246		
1,500.00	1,499.81	1,500.75	1,500.23	5.09	5.13	116.34	44.71	-29.80	59.49	49.27	10.22	5.821		
1,600.00	1,599.79	1,600.74	1,600.17	5.45	5.49	115.04	43.27	-32.59	59.66	48.72	10.94	5.455		
1,700.00	1,699.78	1,700.73	1,700.11	5.81	5.85	113.76	41.82	-35.39	59.86	48.20	11.66	5.136		
1,800.00	1,799.76	1,800.72	1,800.05	6.17	6.21	112.49	40.38	-38.18	60.09	47.71	12.37	4.856		
1,900.00	1,899.74	1,900.71	1,899.99	6.52	6.57	111.22	38.94	-40.98	60.34	47.25	13.09	4.609		
2,000.00	1,999.72	2,000.70	1,999.93	6.88	6.94	109.97	37.49	-43.77	60.63	46.82	13.81	4.390		
2,100.00	2,099.70	2,100.69	2,099.88	7.24	7.30	108.73	36.05	-46.57	60.95	46.42	14.53	4.194		
2,200.00	2,199.68	2,200.68	2,199.82	7.60	7.66	107.50	34.61	-49.36	61.29	46.04	15.25	4.018		
2,300.00	2,299.66	2,300.67	2,299.76	7.96	8.02	106.29	33.17	-52.16	61.66	45.69	15.97	3.861		
2,400.00	2,399.65	2,400.66	2,399.70	8.32	8.38	105.10	31.72	-54.95	62.06	45.37	16.69	3.718		
2,500.00	2,499.63	2,500.65	2,499.64	8.68	8.74	103.91	30.28	-57.75	62.49	45.08	17.41	3.588		
2,600.00	2,599.61	2,600.64	2,599.58	9.04	9.10	102.75	28.84	-60.54	62.94	44.81	18.13	3.471		
2,700.00	2,699.59	2,700.64	2,699.52	9.40	9.46	101.60	27.39	-63.34	63.42	44.56	18.86	3.363		
2,800.00	2,799.57	2,800.63	2,799.47	9.75	9.82	100.47	25.95	-66.13	63.92	44.35	19.58	3.265		
2,900.00	2,899.55	2,900.62	2,899.41	10.11	10.19	99.36	24.51	-68.93	64.45	44.15	20.30	3.175		
3,000.00	2,999.53	3,000.61	2,999.35	10.47	10.55	98.26	23.07	-71.72	65.00	43.98	21.02	3.093		
3,100.00	3,099.52	3,100.60	3,099.29	10.83	10.91	97.19	21.62	-74.52	65.58	43.84	21.74	3.016		
3,200.00	3,199.50	3,200.59	3,199.23	11.19	11.27	96.13	20.18	-77.31	66.17	43.71	22.46	2.946		
3,300.00	3,299.48	3,300.58	3,299.17	11.55	11.63	95.10	18.74	-80.11	66.79	43.61	23.18	2.881		
3,400.00	3,399.46	3,400.57	3,399.11	11.91	11.99	94.08	17.29	-82.90	67.43	43.53	23.90	2.821		
3,500.00	3,499.44	3,500.56	3,499.06	12.27	12.36	93.08	15.85	-85.70	68.09	43.47	24.62	2.765		
3,600.00	3,599.42	3,600.55	3,599.00	12.63	12.72	92.10	14.41	-88.49	68.78	43.43	25.35	2.714		
3,700.00	3,699.41	3,700.54	3,698.94	12.99	13.08	91.14	12.97	-91.29	69.48	43.41	26.07	2.665		
3,800.00	3,799.39	3,800.53	3,798.88	13.35	13.44	90.20	11.52	-94.08	70.20	43.41	26.79	2.621	ES	
3,900.00	3,899.37	3,900.53	3,898.82	13.71	13.80	89.28	10.08	-96.88	70.94	43.43	27.51	2.579		
4,000.00	3,999.35	4,000.52	3,998.76	14.07	14.16	88.38	8.64	-99.67	71.69	43.46	28.23	2.540		
4,100.00	4,099.33	4,100.51	4,098.70	14.43	14.52	87.50	7.19	-102.47	72.47	43.52	28.95	2.503		
4,154.52	4,153.84	4,155.02	4,153.19	14.62	14.72	87.03	6.41	-103.99	72.90	43.55	29.34	2.484	SF	
4,200.00	4,199.28	4,198.07	4,196.21	14.78	14.88	167.08	6.00	-105.43	75.24	45.59	29.64	2.538		
4,250.00	4,248.96	4,241.74	4,239.73	14.96	15.03	174.54	7.33	-108.75	84.42	54.56	29.85	2.828		
4,300.00	4,298.06	4,283.04	4,280.57	15.13	15.18	176.54	10.45	-113.90	100.62	70.68	29.94	3.361		
4,350.00	4,346.29	4,320.92	4,317.64	15.30	15.32	177.34	14.90	-120.32	123.30	93.37	29.93	4.120		
4,400.00	4,393.33	4,350.00	4,345.74	15.46	15.42	177.80	19.34	-126.33	151.86	122.26	29.60	5.131		
4,450.00	4,438.91	4,384.06	4,378.18	15.62	15.54	178.00	25.64	-134.54	185.26	155.54	29.73	6.232		
4,500.00	4,482.73	4,408.89	4,401.46	15.79	15.63	178.17	30.99	-141.33	222.99	193.41	29.58	7.538		



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Carson #609H - Original Drilling - APD Rev 3													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD+HDGM													Offset Well Error:		0.00 ft
Reference				Offset			Semi Major Axis			Distance			Rule Assigned:		Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
4,550.00	4,524.54	4,429.35	4,420.38	15.97	15.70	178.30	35.86	-147.41	264.21	234.77	29.44	8.974			
4,600.00	4,564.06	4,450.00	4,439.21	16.18	15.77	178.37	41.20	-153.99	308.27	278.79	29.48	10.457			
4,650.00	4,601.07	4,450.00	4,439.21	16.41	15.77	178.53	41.20	-153.99	354.55	325.65	28.90	12.267			
4,700.00	4,635.33	4,467.47	4,454.92	16.69	15.84	178.52	46.04	-159.89	402.20	373.07	29.13	13.807			
4,750.00	4,666.62	4,473.60	4,460.39	17.01	15.86	178.53	47.81	-162.04	451.13	422.05	29.08	15.513			
4,800.00	4,694.77	4,477.04	4,463.44	17.39	15.87	178.44	48.82	-163.27	500.75	471.69	29.06	17.232			
4,850.00	4,719.58	4,478.10	4,464.37	17.83	15.87	11.14	49.13	-163.64	550.70	521.64	29.06	18.947			
4,900.00	4,740.92	4,477.04	4,463.44	18.33	15.87	-0.97	48.82	-163.27	600.65	571.55	29.10	20.643			
4,950.00	4,758.64	4,474.14	4,460.86	18.91	15.86	-1.07	47.97	-162.23	650.30	621.15	29.15	22.307			
5,000.00	4,772.64	4,469.60	4,456.82	19.55	15.84	-1.10	46.65	-160.64	699.41	670.18	29.23	23.929			
5,050.00	4,782.83	4,463.62	4,451.48	20.26	15.82	-1.11	44.95	-158.57	747.73	718.41	29.32	25.500			
5,100.00	4,789.16	4,450.00	4,439.21	21.02	15.77	-1.14	41.20	-153.99	795.14	765.82	29.32	27.123			
5,150.00	4,791.57	4,450.00	4,439.21	21.83	15.77	-1.12	41.20	-153.99	841.26	811.66	29.60	28.422			
5,162.63	4,791.56	4,450.00	4,439.21	22.04	15.77	-1.12	41.20	-153.99	852.75	823.08	29.67	28.742			
5,200.00	4,791.16	4,450.00	4,439.21	22.68	15.77	-1.12	41.20	-153.99	886.75	856.87	29.88	29.679			
5,300.00	4,790.08	4,422.55	4,414.12	24.52	15.68	-1.18	34.19	-145.34	977.97	948.01	29.95	32.649			
5,400.00	4,789.01	4,400.00	4,393.17	26.49	15.60	-1.21	29.00	-138.82	1,070.39	1,040.32	30.07	35.599			
5,500.00	4,787.93	4,400.00	4,393.17	28.57	15.60	-1.21	29.00	-138.82	1,163.51	1,133.10	30.42	38.250			
5,600.00	4,786.85	4,382.76	4,376.95	30.73	15.54	-1.24	25.38	-134.21	1,257.34	1,226.82	30.52	41.200			
5,700.00	4,785.77	4,371.99	4,366.75	32.96	15.50	-1.25	23.27	-131.49	1,351.80	1,321.14	30.66	44.090			
5,800.00	4,784.70	4,350.00	4,345.74	35.25	15.42	-1.28	19.34	-126.33	1,446.95	1,416.28	30.68	47.169			
5,900.00	4,783.62	4,350.00	4,345.74	37.59	15.42	-1.28	19.34	-126.33	1,542.22	1,511.35	30.87	49.958			
6,000.00	4,782.54	4,350.00	4,345.74	39.96	15.42	-1.28	19.34	-126.33	1,638.06	1,607.02	31.04	52.778			
6,100.00	4,781.47	4,350.00	4,345.74	42.37	15.42	-1.28	19.34	-126.33	1,734.36	1,703.18	31.18	55.623			
6,200.00	4,780.39	4,330.64	4,327.07	44.80	15.35	-1.30	16.29	-122.22	1,830.67	1,799.49	31.17	58.724			
6,300.00	4,779.31	4,324.23	4,320.86	47.25	15.33	-1.31	15.36	-120.96	1,927.41	1,896.16	31.25	61.674			
6,400.00	4,778.23	4,300.00	4,297.23	49.73	15.24	-1.33	12.26	-116.58	2,024.74	1,993.53	31.21	64.875			
6,500.00	4,777.16	4,300.00	4,297.23	52.22	15.24	-1.33	12.26	-116.58	2,121.76	2,090.44	31.32	67.754			
6,600.00	4,776.08	4,300.00	4,297.23	54.72	15.24	-1.33	12.26	-116.58	2,219.04	2,187.63	31.41	70.644			
6,700.00	4,775.00	4,300.00	4,297.23	57.23	15.24	-1.33	12.26	-116.58	2,316.56	2,285.06	31.50	73.542			
6,800.00	4,773.93	4,300.00	4,297.23	59.76	15.24	-1.33	12.26	-116.58	2,414.27	2,382.69	31.58	76.445			
6,900.00	4,772.85	4,300.00	4,297.23	62.30	15.24	-1.33	12.26	-116.58	2,512.17	2,480.51	31.66	79.353			
7,000.00	4,771.77	4,300.00	4,297.23	64.84	15.24	-1.33	12.26	-116.58	2,610.23	2,578.50	31.73	82.264			
7,100.00	4,770.69	4,300.00	4,297.23	67.39	15.24	-1.33	12.26	-116.58	2,708.43	2,676.63	31.80	85.176			
7,200.00	4,769.62	4,300.00	4,297.23	69.95	15.24	-1.33	12.26	-116.58	2,806.76	2,774.89	31.86	88.088			
7,300.00	4,768.54	4,300.00	4,297.23	72.51	15.24	-1.33	12.26	-116.58	2,905.20	2,873.27	31.93	90.999			
7,400.00	4,767.46	4,276.40	4,274.04	75.08	15.16	-1.35	9.83	-112.94	3,003.21	2,971.33	31.88	94.192			
7,500.00	4,766.39	4,273.42	4,271.10	77.65	15.15	-1.35	9.56	-112.53	3,101.71	3,069.78	31.93	97.133			
7,600.00	4,765.31	4,250.00	4,247.93	80.23	15.06	-1.37	7.81	-109.63	3,200.68	3,168.79	31.90	100.347			
7,700.00	4,764.23	4,250.00	4,247.93	82.81	15.06	-1.37	7.81	-109.63	3,299.23	3,267.28	31.96	103.242			
7,800.00	4,763.15	4,250.00	4,247.93	85.40	15.06	-1.37	7.81	-109.63	3,397.87	3,365.85	32.02	106.133			
7,900.00	4,762.08	4,250.00	4,247.93	87.99	15.06	-1.37	7.81	-109.63	3,496.58	3,464.51	32.07	109.019			
8,000.00	4,761.00	4,250.00	4,247.93	90.58	15.06	-1.37	7.81	-109.63	3,595.36	3,563.23	32.13	111.901			
8,100.00	4,759.92	4,250.00	4,247.93	93.17	15.06	-1.37	7.81	-109.63	3,694.21	3,662.02	32.19	114.776			
8,200.00	4,758.84	4,250.00	4,247.93	95.77	15.06	-1.37	7.81	-109.63	3,793.12	3,760.88	32.24	117.646			
8,300.00	4,757.77	4,250.00	4,247.93	98.37	15.06	-1.37	7.81	-109.63	3,892.08	3,859.79	32.30	120.509			
8,400.00	4,756.69	4,250.00	4,247.93	100.97	15.06	-1.37	7.81	-109.63	3,991.10	3,958.75	32.35	123.365			
8,500.00	4,755.61	4,250.00	4,247.93	103.57	15.06	-1.37	7.81	-109.63	4,090.16	4,057.76	32.41	126.213			
8,600.00	4,754.54	4,250.00	4,247.93	106.18	15.06	-1.37	7.81	-109.63	4,189.27	4,156.81	32.46	129.054			
8,700.00	4,753.46	4,250.00	4,247.93	108.78	15.06	-1.37	7.81	-109.63	4,288.42	4,255.90	32.52	131.886			
8,800.00	4,752.38	4,250.00	4,247.93	111.39	15.06	-1.37	7.81	-109.63	4,387.61	4,355.04	32.57	134.710			
8,900.00	4,751.30	4,250.00	4,247.93	114.00	15.06	-1.37	7.81	-109.63	4,486.83	4,454.21	32.63	137.525			



**Lonestar Consulting, LLC**  
Anticollision Report



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<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Carson #609H - Original Drilling - APD Rev 3													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD+HDGM													Rule Assigned:		Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
9,000.00	4,750.23	4,250.00	4,247.93	116.61	15.06	-1.37	7.81	-109.63	4,586.09	4,553.41	32.68	140.331				
9,100.00	4,749.15	4,250.00	4,247.93	119.22	15.06	-1.37	7.81	-109.63	4,685.38	4,652.65	32.74	143.127				
9,200.00	4,748.07	4,250.00	4,247.93	121.83	15.06	-1.37	7.81	-109.63	4,784.70	4,751.91	32.79	145.914				
9,300.00	4,747.00	4,250.00	4,247.93	124.45	15.06	-1.37	7.81	-109.63	4,884.05	4,851.20	32.85	148.691				
9,400.00	4,745.92	4,250.00	4,247.93	127.06	15.06	-1.37	7.81	-109.63	4,983.42	4,950.52	32.90	151.458				
9,500.00	4,744.84	4,250.00	4,247.93	129.68	15.06	-1.37	7.81	-109.63	5,082.82	5,049.86	32.96	154.214				
9,600.00	4,743.76	4,250.00	4,247.93	132.30	15.06	-1.37	7.81	-109.63	5,182.24	5,149.22	33.02	156.959				
9,700.00	4,742.69	4,250.00	4,247.93	134.92	15.06	-1.37	7.81	-109.63	5,281.68	5,248.61	33.07	159.694				
9,800.00	4,741.61	4,250.00	4,247.93	137.53	15.06	-1.37	7.81	-109.63	5,381.15	5,348.01	33.13	162.418				
9,900.00	4,740.53	4,250.00	4,247.93	140.15	15.06	-1.37	7.81	-109.63	5,480.63	5,447.44	33.19	165.131				
10,000.00	4,739.46	4,250.00	4,247.93	142.77	15.06	-1.37	7.81	-109.63	5,580.13	5,546.88	33.25	167.832				
10,100.00	4,738.38	4,250.00	4,247.93	145.40	15.06	-1.37	7.81	-109.63	5,679.65	5,646.34	33.31	170.522				
10,200.00	4,737.30	4,250.00	4,247.93	148.02	15.06	-1.37	7.81	-109.63	5,779.18	5,745.82	33.37	173.200				
10,300.00	4,736.22	4,226.77	4,224.84	150.64	14.98	-1.39	6.65	-107.37	5,878.27	5,844.91	33.36	176.218				
10,400.00	4,735.15	4,225.83	4,223.90	153.26	14.98	-1.39	6.61	-107.29	5,977.79	5,944.38	33.42	178.889				
10,500.00	4,734.07	4,224.92	4,222.99	155.89	14.97	-1.39	6.58	-107.21	6,077.34	6,043.86	33.48	181.549				
10,600.00	4,732.99	4,224.03	4,222.11	158.51	14.97	-1.39	6.55	-107.14	6,176.89	6,143.36	33.53	184.195				
10,700.00	4,731.91	4,223.17	4,221.25	161.13	14.97	-1.39	6.52	-107.07	6,276.46	6,242.87	33.59	186.829				
10,800.00	4,730.84	4,200.00	4,198.14	163.76	14.88	-1.40	6.02	-105.53	6,376.47	6,342.88	33.59	189.824				
10,900.00	4,729.76	4,200.00	4,198.14	166.38	14.88	-1.40	6.02	-105.53	6,476.03	6,442.38	33.66	192.421				
11,000.00	4,728.68	4,200.00	4,198.14	169.01	14.88	-1.40	6.02	-105.53	6,575.61	6,541.89	33.72	195.007				
11,100.00	4,727.61	4,200.00	4,198.14	171.64	14.88	-1.40	6.02	-105.53	6,675.20	6,641.41	33.78	197.579				
11,200.00	4,726.53	4,200.00	4,198.14	174.26	14.88	-1.40	6.02	-105.53	6,774.80	6,740.94	33.85	200.139				
11,300.00	4,725.45	4,200.00	4,198.14	176.89	14.88	-1.40	6.02	-105.53	6,874.41	6,840.49	33.92	202.686				
11,400.00	4,724.37	4,200.00	4,198.14	179.52	14.88	-1.40	6.02	-105.53	6,974.03	6,940.05	33.98	205.220				
11,500.00	4,723.30	4,200.00	4,198.14	182.14	14.88	-1.40	6.02	-105.53	7,073.66	7,039.61	34.05	207.742				
11,600.00	4,722.22	4,200.00	4,198.14	184.77	14.88	-1.40	6.02	-105.53	7,173.30	7,139.19	34.12	210.250				
11,700.00	4,721.14	4,200.00	4,198.14	187.40	14.88	-1.40	6.02	-105.53	7,272.96	7,238.77	34.19	212.746				
11,800.00	4,720.07	4,200.00	4,198.14	190.03	14.88	-1.40	6.02	-105.53	7,372.62	7,338.36	34.25	215.228				
11,900.00	4,718.99	4,200.00	4,198.14	192.66	14.88	-1.40	6.02	-105.53	7,472.29	7,437.97	34.32	217.697				
12,000.00	4,717.91	4,200.00	4,198.14	195.29	14.88	-1.40	6.02	-105.53	7,571.97	7,537.58	34.39	220.154				
12,100.00	4,716.83	4,200.00	4,198.14	197.92	14.88	-1.40	6.02	-105.53	7,671.66	7,637.19	34.46	222.597				
12,200.00	4,715.76	4,200.00	4,198.14	200.55	14.88	-1.40	6.02	-105.53	7,771.36	7,736.82	34.54	225.026				
12,300.00	4,714.68	4,200.00	4,198.14	203.18	14.88	-1.40	6.02	-105.53	7,871.06	7,836.45	34.61	227.443				
12,400.00	4,713.60	4,200.00	4,198.14	205.81	14.88	-1.40	6.02	-105.53	7,970.77	7,936.09	34.68	229.846				
12,500.00	4,712.53	4,200.00	4,198.14	208.44	14.88	-1.40	6.02	-105.53	8,070.49	8,035.74	34.75	232.236				
12,600.00	4,711.45	4,200.00	4,198.14	211.07	14.88	-1.40	6.02	-105.53	8,170.21	8,135.39	34.82	234.613				
12,700.00	4,710.37	4,200.00	4,198.14	213.70	14.88	-1.40	6.02	-105.53	8,269.95	8,235.05	34.90	236.976				
12,800.00	4,709.29	4,200.00	4,198.14	216.33	14.88	-1.40	6.02	-105.53	8,369.69	8,334.71	34.97	239.326				
12,900.00	4,708.22	4,200.00	4,198.14	218.96	14.88	-1.40	6.02	-105.53	8,469.43	8,434.38	35.05	241.663				
13,000.00	4,707.14	4,200.00	4,198.14	221.59	14.88	-1.40	6.02	-105.53	8,569.18	8,534.06	35.12	243.986				
13,107.09	4,705.99	4,200.00	4,198.14	224.41	14.88	-1.40	6.02	-105.53	8,676.01	8,640.80	35.20	246.459				



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Hunter Wash 44223 - OH - OH													Offset Site Error:	0.00 ft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.00	0.00	8.00	8.00	0.00	0.32	131.80	-4,453.28	4,980.01	6,680.74					
100.00	100.00	108.00	108.00	0.15	4.32	131.80	-4,453.28	4,980.01	6,680.74	6,676.26	4.47	1,493.188		
200.00	200.00	208.00	208.00	0.51	8.32	131.80	-4,453.28	4,980.01	6,680.74	6,671.90	8.83	756.371		
300.00	300.00	308.00	308.00	0.87	12.32	131.80	-4,453.28	4,980.01	6,680.74	6,667.55	13.19	506.458		
400.00	400.00	408.00	408.00	1.23	16.32	131.80	-4,453.28	4,980.01	6,680.74	6,663.19	17.55	380.678		
445.98	445.98	453.98	453.98	1.39	18.16	131.80	-4,453.28	4,980.01	6,680.74	6,661.18	19.55	341.665		
501.06	501.05	509.05	509.05	1.58	20.36	-97.40	-4,453.28	4,980.01	6,680.81	6,658.86	21.95	304.419		
600.00	599.98	607.98	607.98	1.92	24.32	-97.42	-4,453.28	4,980.01	6,681.05	6,654.81	26.24	254.653		
700.00	699.96	707.96	707.96	2.26	28.32	-97.43	-4,453.28	4,980.01	6,681.30	6,650.72	30.58	218.494		
800.00	799.94	807.94	807.94	2.61	32.32	-97.45	-4,453.28	4,980.01	6,681.55	6,646.62	34.93	191.304		
900.00	899.92	907.92	907.92	2.96	36.32	-97.47	-4,453.28	4,980.01	6,681.80	6,642.52	39.28	170.122		
1,000.00	999.90	1,007.90	1,007.90	3.31	40.32	-97.48	-4,453.28	4,980.01	6,682.05	6,638.42	43.63	153.157		
1,100.00	1,099.89	1,107.89	1,107.89	3.67	44.32	-97.50	-4,453.28	4,980.01	6,682.30	6,634.32	47.98	139.266		
1,200.00	1,199.87	1,151.00	1,151.00	4.02	46.04	-97.51	-4,453.28	4,980.01	6,682.79	6,632.73	50.06	133.495		
1,300.00	1,299.85	1,151.00	1,151.00	4.38	46.04	-97.51	-4,453.28	4,980.01	6,684.64	6,634.24	50.40	132.619		
1,400.00	1,399.83	1,151.00	1,151.00	4.74	46.04	-97.51	-4,453.28	4,980.01	6,687.99	6,637.25	50.74	131.813		
1,500.00	1,499.81	1,151.00	1,151.00	5.09	46.04	-97.51	-4,453.28	4,980.01	6,692.83	6,641.76	51.06	131.074		
1,600.00	1,599.79	1,151.00	1,151.00	5.45	46.04	-97.51	-4,453.28	4,980.01	6,699.15	6,647.78	51.37	130.402		
1,700.00	1,699.78	1,151.00	1,151.00	5.81	46.04	-97.51	-4,453.28	4,980.01	6,706.96	6,655.29	51.67	129.796		
1,800.00	1,799.76	1,151.00	1,151.00	6.17	46.04	-97.51	-4,453.28	4,980.01	6,716.26	6,664.29	51.96	129.253		
1,900.00	1,899.74	1,151.00	1,151.00	6.52	46.04	-97.51	-4,453.28	4,980.01	6,727.02	6,674.78	52.24	128.774		
2,000.00	1,999.72	1,151.00	1,151.00	6.88	46.04	-97.51	-4,453.28	4,980.01	6,739.26	6,686.75	52.50	128.357		
2,100.00	2,099.70	1,151.00	1,151.00	7.24	46.04	-97.51	-4,453.28	4,980.01	6,752.95	6,700.19	52.76	127.999		
2,200.00	2,199.68	1,151.00	1,151.00	7.60	46.04	-97.51	-4,453.28	4,980.01	6,768.09	6,715.09	53.00	127.702		
2,300.00	2,299.66	1,151.00	1,151.00	7.96	46.04	-97.51	-4,453.28	4,980.01	6,784.67	6,731.44	53.23	127.462		
2,400.00	2,399.65	1,151.00	1,151.00	8.32	46.04	-97.51	-4,453.28	4,980.01	6,802.68	6,749.24	53.45	127.279		
2,500.00	2,499.63	1,151.00	1,151.00	8.68	46.04	-97.51	-4,453.28	4,980.01	6,822.11	6,768.46	53.65	127.152		
2,600.00	2,599.61	1,151.00	1,151.00	9.04	46.04	-97.51	-4,453.28	4,980.01	6,842.95	6,789.10	53.85	127.079		
2,700.00	2,699.59	1,151.00	1,151.00	9.40	46.04	-97.51	-4,453.28	4,980.01	6,865.18	6,811.15	54.03	127.059		
2,800.00	2,799.57	1,151.00	1,151.00	9.75	46.04	-97.51	-4,453.28	4,980.01	6,888.79	6,834.59	54.20	127.092		
2,900.00	2,899.55	1,151.00	1,151.00	10.11	46.04	-97.51	-4,453.28	4,980.01	6,913.77	6,859.40	54.36	127.176		
3,000.00	2,999.53	1,151.00	1,151.00	10.47	46.04	-97.51	-4,453.28	4,980.01	6,940.09	6,885.58	54.51	127.310		
3,100.00	3,099.52	1,151.00	1,151.00	10.83	46.04	-97.51	-4,453.28	4,980.01	6,967.76	6,913.10	54.65	127.493		
3,200.00	3,199.50	1,151.00	1,151.00	11.19	46.04	-97.51	-4,453.28	4,980.01	6,996.74	6,941.96	54.78	127.723		
3,300.00	3,299.48	1,151.00	1,151.00	11.55	46.04	-97.51	-4,453.28	4,980.01	7,027.03	6,972.13	54.90	128.001		
3,400.00	3,399.46	1,151.00	1,151.00	11.91	46.04	-97.51	-4,453.28	4,980.01	7,058.60	7,003.59	55.01	128.324		
3,500.00	3,499.44	1,151.00	1,151.00	12.27	46.04	-97.51	-4,453.28	4,980.01	7,091.44	7,036.34	55.10	128.693		
3,600.00	3,599.42	1,151.00	1,151.00	12.63	46.04	-97.51	-4,453.28	4,980.01	7,125.54	7,070.35	55.19	129.105		
3,700.00	3,699.41	1,151.00	1,151.00	12.99	46.04	-97.51	-4,453.28	4,980.01	7,160.87	7,105.60	55.27	129.560		
3,800.00	3,799.39	1,151.00	1,151.00	13.35	46.04	-97.51	-4,453.28	4,980.01	7,197.41	7,142.07	55.34	130.056		
3,900.00	3,899.37	1,151.00	1,151.00	13.71	46.04	-97.51	-4,453.28	4,980.01	7,235.16	7,179.76	55.40	130.594		
4,000.00	3,999.35	1,151.00	1,151.00	14.07	46.04	-97.51	-4,453.28	4,980.01	7,274.08	7,218.63	55.45	131.171		
4,100.00	4,099.33	1,151.00	1,151.00	14.43	46.04	-97.51	-4,453.28	4,980.01	7,314.16	7,258.66	55.50	131.788		
4,154.52	4,153.84	1,151.00	1,151.00	14.62	46.04	-97.51	-4,453.28	4,980.01	7,336.50	7,280.98	55.52	132.140		
4,200.00	4,199.28	1,151.00	1,151.00	14.78	46.04	-16.99	-4,453.28	4,980.01	7,353.90	7,298.37	55.53	132.436		
4,250.00	4,248.96	1,151.00	1,151.00	14.96	46.04	-8.93	-4,453.28	4,980.01	7,369.80	7,314.27	55.53	132.729		
4,300.00	4,298.06	1,151.00	1,151.00	15.13	46.04	-6.38	-4,453.28	4,980.01	7,382.25	7,326.73	55.52	132.969		
4,350.00	4,346.29	1,151.00	1,151.00	15.30	46.04	-5.13	-4,453.28	4,980.01	7,391.19	7,335.68	55.51	133.155		
4,400.00	4,393.33	1,151.00	1,151.00	15.46	46.04	-4.40	-4,453.28	4,980.01	7,396.58	7,341.09	55.49	133.286		
4,450.00	4,438.91	1,151.00	1,151.00	15.62	46.04	-3.93	-4,453.28	4,980.01	7,398.39	7,342.91	55.48	133.362		
4,500.00	4,482.73	1,151.00	1,151.00	15.79	46.04	-3.60	-4,453.28	4,980.01	7,396.61	7,341.16	55.45	133.384		
4,550.00	4,524.54	1,151.00	1,151.00	15.97	46.04	-3.37	-4,453.28	4,980.01	7,391.26	7,335.83	55.43	133.351		



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Hunter Wash 44223 - OH - OH													Offset Site Error:	0.00 ft		
Survey Program: 100-UNKNOWN													Rule Assigned:		Offset Well Error:	0.00 ft
Reference				Offset				Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
4,600.00	4,564.06	1,151.00	1,151.00	16.18	46.04	-3.21	-4,453.28	4,980.01	7,382.36	7,326.96	55.40	133.263				
4,650.00	4,601.07	1,151.00	1,151.00	16.41	46.04	-3.10	-4,453.28	4,980.01	7,369.94	7,314.58	55.36	133.119				
4,700.00	4,635.33	1,151.00	1,151.00	16.69	46.04	-3.03	-4,453.28	4,980.01	7,354.07	7,298.74	55.33	132.920				
4,750.00	4,666.62	1,151.00	1,151.00	17.01	46.04	-3.00	-4,453.28	4,980.01	7,334.83	7,279.54	55.29	132.666				
4,800.00	4,694.77	1,151.00	1,151.00	17.39	46.04	-2.99	-4,453.28	4,980.01	7,312.30	7,257.05	55.25	132.358				
4,850.00	4,719.58	1,151.00	1,151.00	17.83	46.04	-3.02	-4,453.28	4,980.01	7,286.60	7,231.39	55.20	131.995				
4,900.00	4,740.92	1,151.00	1,151.00	18.33	46.04	-3.07	-4,453.28	4,980.01	7,257.85	7,202.69	55.16	131.581				
4,950.00	4,758.64	1,151.00	1,151.00	18.91	46.04	-3.16	-4,453.28	4,980.01	7,226.19	7,171.08	55.11	131.115				
5,000.00	4,772.64	1,151.00	1,151.00	19.55	46.04	-3.29	-4,453.28	4,980.01	7,191.79	7,136.72	55.07	130.602				
5,050.00	4,782.83	1,151.00	1,151.00	20.26	46.04	-3.47	-4,453.28	4,980.01	7,154.81	7,099.79	55.02	130.041				
5,100.00	4,789.16	1,151.00	1,151.00	21.02	46.04	-3.71	-4,453.28	4,980.01	7,115.44	7,060.47	54.97	129.437				
5,150.00	4,791.57	1,151.00	1,151.00	21.83	46.04	-4.03	-4,453.28	4,980.01	7,073.90	7,018.98	54.92	128.792				
5,162.63	4,791.56	1,151.00	1,151.00	22.04	46.04	-4.13	-4,453.28	4,980.01	7,063.09	7,008.17	54.92	128.611				
5,200.00	4,791.16	1,151.00	1,151.00	22.68	46.04	-4.13	-4,453.28	4,980.01	7,030.94	6,976.06	54.88	128.121				
5,300.00	4,790.08	1,151.00	1,151.00	24.52	46.04	-4.13	-4,453.28	4,980.01	6,945.17	6,890.40	54.77	126.808				
5,400.00	4,789.01	1,151.00	1,151.00	26.49	46.04	-4.13	-4,453.28	4,980.01	6,859.78	6,805.11	54.67	125.480				
5,500.00	4,787.93	1,151.00	1,151.00	28.57	46.04	-4.13	-4,453.28	4,980.01	6,774.79	6,720.22	54.58	124.135				
5,600.00	4,786.85	1,151.00	1,151.00	30.73	46.04	-4.13	-4,453.28	4,980.01	6,690.22	6,635.73	54.49	122.776				
5,700.00	4,785.77	1,151.00	1,151.00	32.96	46.04	-4.13	-4,453.28	4,980.01	6,606.08	6,551.67	54.42	121.400				
5,800.00	4,784.70	1,151.00	1,151.00	35.25	46.04	-4.13	-4,453.28	4,980.01	6,522.39	6,468.04	54.35	120.009				
5,900.00	4,783.62	1,151.00	1,151.00	37.59	46.04	-4.13	-4,453.28	4,980.01	6,439.16	6,384.87	54.29	118.602				
6,000.00	4,782.54	1,151.00	1,151.00	39.96	46.04	-4.13	-4,453.28	4,980.01	6,356.42	6,302.17	54.24	117.180				
6,100.00	4,781.47	1,151.00	1,151.00	42.37	46.04	-4.13	-4,453.28	4,980.01	6,274.18	6,219.97	54.21	115.744				
6,200.00	4,780.39	1,151.00	1,151.00	44.80	46.04	-4.13	-4,453.28	4,980.01	6,192.46	6,138.28	54.18	114.294				
6,300.00	4,779.31	1,151.00	1,151.00	47.25	46.04	-4.13	-4,453.28	4,980.01	6,111.28	6,057.12	54.16	112.832				
6,400.00	4,778.23	1,151.00	1,151.00	49.73	46.04	-4.13	-4,453.28	4,980.01	6,030.67	5,976.51	54.16	111.357				
6,500.00	4,777.16	1,151.00	1,151.00	52.22	46.04	-4.13	-4,453.28	4,980.01	5,950.65	5,896.49	54.16	109.871				
6,600.00	4,776.08	1,151.00	1,151.00	54.72	46.04	-4.13	-4,453.28	4,980.01	5,871.24	5,817.07	54.17	108.376				
6,700.00	4,775.00	1,151.00	1,151.00	57.23	46.04	-4.13	-4,453.28	4,980.01	5,792.47	5,738.27	54.20	106.873				
6,800.00	4,773.93	1,151.00	1,151.00	59.76	46.04	-4.13	-4,453.28	4,980.01	5,714.36	5,660.13	54.24	105.362				
6,900.00	4,772.85	1,151.00	1,151.00	62.30	46.04	-4.13	-4,453.28	4,980.01	5,636.95	5,582.67	54.28	103.847				
7,000.00	4,771.77	1,151.00	1,151.00	64.84	46.04	-4.13	-4,453.28	4,980.01	5,560.25	5,505.92	54.34	102.329				
7,100.00	4,770.69	1,151.00	1,151.00	67.39	46.04	-4.13	-4,453.28	4,980.01	5,484.31	5,429.91	54.40	100.809				
7,200.00	4,769.62	1,151.00	1,151.00	69.95	46.04	-4.13	-4,453.28	4,980.01	5,409.15	5,354.67	54.48	99.289				
7,300.00	4,768.54	1,151.00	1,151.00	72.51	46.04	-4.13	-4,453.28	4,980.01	5,334.81	5,280.24	54.56	97.773				
7,400.00	4,767.46	1,151.00	1,151.00	75.08	46.04	-4.13	-4,453.28	4,980.01	5,261.31	5,206.65	54.66	96.261				
7,500.00	4,766.39	1,151.00	1,151.00	77.65	46.04	-4.13	-4,453.28	4,980.01	5,188.70	5,133.94	54.76	94.756				
7,600.00	4,765.31	1,151.00	1,151.00	80.23	46.04	-4.13	-4,453.28	4,980.01	5,117.02	5,062.15	54.87	93.261				
7,700.00	4,764.23	1,151.00	1,151.00	82.81	46.04	-4.13	-4,453.28	4,980.01	5,046.30	4,991.31	54.98	91.777				
7,800.00	4,763.15	1,151.00	1,151.00	85.40	46.04	-4.13	-4,453.28	4,980.01	4,976.58	4,921.47	55.11	90.308				
7,900.00	4,762.08	1,151.00	1,151.00	87.99	46.04	-4.13	-4,453.28	4,980.01	4,907.91	4,852.68	55.24	88.855				
8,000.00	4,761.00	1,151.00	1,151.00	90.58	46.04	-4.13	-4,453.28	4,980.01	4,840.33	4,784.97	55.37	87.421				
8,100.00	4,759.92	1,151.00	1,151.00	93.17	46.04	-4.13	-4,453.28	4,980.01	4,773.90	4,718.39	55.51	86.008				
8,200.00	4,758.84	1,151.00	1,151.00	95.77	46.04	-4.13	-4,453.28	4,980.01	4,708.64	4,653.00	55.65	84.619				
8,300.00	4,757.77	1,151.00	1,151.00	98.37	46.04	-4.13	-4,453.28	4,980.01	4,644.63	4,588.84	55.79	83.257				
8,400.00	4,756.69	1,151.00	1,151.00	100.97	46.04	-4.13	-4,453.28	4,980.01	4,581.90	4,525.97	55.93	81.924				
8,500.00	4,755.61	1,151.00	1,151.00	103.57	46.04	-4.13	-4,453.28	4,980.01	4,520.51	4,464.44	56.07	80.622				
8,600.00	4,754.54	1,151.00	1,151.00	106.18	46.04	-4.13	-4,453.28	4,980.01	4,460.52	4,404.31	56.21	79.354				
8,700.00	4,753.46	1,151.00	1,151.00	108.78	46.04	-4.13	-4,453.28	4,980.01	4,401.99	4,345.64	56.35	78.123				
8,800.00	4,752.38	1,151.00	1,151.00	111.39	46.04	-4.13	-4,453.28	4,980.01	4,344.97	4,288.49	56.48	76.931				
8,900.00	4,751.30	1,151.00	1,151.00	114.00	46.04	-4.13	-4,453.28	4,980.01	4,289.52	4,232.92	56.60	75.780				
9,000.00	4,750.23	1,151.00	1,151.00	116.61	46.04	-4.13	-4,453.28	4,980.01	4,235.71	4,178.99	56.72	74.674				



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Hunter Wash 44223 - OH - OH													Offset Site Error:	0.00 ft	
Survey Program: 100-UNKNOWN													Offset Well Error:		0.00 ft
Reference													Rule Assigned:		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
9,100.00	4,749.15	1,151.00	1,151.00	119.22	46.04	-4.13	-4,453.28	4,980.01	4,126.76	4,126.76	56.83	73.614			
9,200.00	4,748.07	1,151.00	1,151.00	121.83	46.04	-4.13	-4,453.28	4,980.01	4,133.24	4,076.32	56.93	72.603			
9,300.00	4,747.00	1,151.00	1,151.00	124.45	46.04	-4.13	-4,453.28	4,980.01	4,084.72	4,027.71	57.01	71.644			
9,400.00	4,745.92	1,151.00	1,151.00	127.06	46.04	-4.13	-4,453.28	4,980.01	4,038.09	3,981.01	57.08	70.739			
9,500.00	4,744.84	1,151.00	1,151.00	129.68	46.04	-4.13	-4,453.28	4,980.01	3,993.42	3,936.28	57.14	69.890			
9,600.00	4,743.76	1,151.00	1,151.00	132.30	46.04	-4.13	-4,453.28	4,980.01	3,950.78	3,893.61	57.18	69.099			
9,700.00	4,742.69	1,151.00	1,151.00	134.92	46.04	-4.13	-4,453.28	4,980.01	3,910.23	3,853.04	57.19	68.370			
9,800.00	4,741.61	1,151.00	1,151.00	137.53	46.04	-4.13	-4,453.28	4,980.01	3,871.84	3,814.65	57.19	67.703			
9,900.00	4,740.53	1,151.00	1,151.00	140.15	46.04	-4.13	-4,453.28	4,980.01	3,835.67	3,778.51	57.16	67.102			
10,000.00	4,739.46	1,151.00	1,151.00	142.77	46.04	-4.13	-4,453.28	4,980.01	3,801.79	3,744.68	57.11	66.568			
10,100.00	4,738.38	1,151.00	1,151.00	145.40	46.04	-4.13	-4,453.28	4,980.01	3,770.26	3,713.22	57.04	66.102			
10,200.00	4,737.30	1,151.00	1,151.00	148.02	46.04	-4.13	-4,453.28	4,980.01	3,741.14	3,684.20	56.94	65.706			
10,300.00	4,736.22	1,151.00	1,151.00	150.64	46.04	-4.13	-4,453.28	4,980.01	3,714.48	3,657.67	56.81	65.380			
10,400.00	4,735.15	1,151.00	1,151.00	153.26	46.04	-4.13	-4,453.28	4,980.01	3,690.34	3,633.67	56.67	65.125			
10,500.00	4,734.07	1,151.00	1,151.00	155.89	46.04	-4.13	-4,453.28	4,980.01	3,668.76	3,612.27	56.50	64.937			
10,600.00	4,732.99	1,151.00	1,151.00	158.51	46.04	-4.13	-4,453.28	4,980.01	3,649.80	3,593.49	56.31	64.812			
10,700.00	4,731.91	1,151.00	1,151.00	161.13	46.04	-4.13	-4,453.28	4,980.01	3,633.50	3,577.37	56.12	64.740			
10,800.00	4,730.84	1,151.00	1,151.00	163.76	46.04	-4.13	-4,453.28	4,980.01	3,619.88	3,563.94	55.95	64.704			
10,900.00	4,729.76	1,151.00	1,151.00	166.38	46.04	-4.13	-4,453.28	4,980.01	3,608.99	3,553.18	55.81	64.668			
11,000.00	4,728.68	1,151.00	1,151.00	169.01	46.04	-4.13	-4,453.28	4,980.01	3,600.84	3,545.07	55.77	64.565			
11,100.00	4,727.61	1,151.00	1,151.00	171.64	46.04	-4.13	-4,453.28	4,980.01	3,595.45	3,539.51	55.94	64.275			
11,200.00	4,726.53	1,151.00	1,151.00	174.26	46.04	-4.13	-4,453.28	4,980.01	3,592.84	3,536.38	56.46	63.635			
11,243.80	4,726.06	1,151.00	1,151.00	175.41	46.04	-4.13	-4,453.28	4,980.01	3,592.57	3,535.75	56.83	63.219	CC		
11,300.00	4,725.45	1,151.00	1,151.00	176.89	46.04	-4.13	-4,453.28	4,980.01	3,593.01	3,535.59	57.42	62.573	ES		
11,400.00	4,724.37	1,151.00	1,151.00	179.52	46.04	-4.13	-4,453.28	4,980.01	3,595.97	3,537.22	58.75	61.211			
11,500.00	4,723.30	1,151.00	1,151.00	182.14	46.04	-4.13	-4,453.28	4,980.01	3,601.70	3,541.41	60.29	59.743			
11,600.00	4,722.22	1,151.00	1,151.00	184.77	46.04	-4.13	-4,453.28	4,980.01	3,610.19	3,548.27	61.92	58.300			
11,700.00	4,721.14	1,151.00	1,151.00	187.40	46.04	-4.13	-4,453.28	4,980.01	3,621.42	3,557.83	63.59	56.946			
11,800.00	4,720.07	1,151.00	1,151.00	190.03	46.04	-4.13	-4,453.28	4,980.01	3,635.37	3,570.12	65.26	55.706			
11,900.00	4,718.99	1,151.00	1,151.00	192.66	46.04	-4.13	-4,453.28	4,980.01	3,652.01	3,585.11	66.90	54.589			
12,000.00	4,717.91	1,151.00	1,151.00	195.29	46.04	-4.13	-4,453.28	4,980.01	3,671.30	3,602.80	68.50	53.595			
12,100.00	4,716.83	1,151.00	1,151.00	197.92	46.04	-4.13	-4,453.28	4,980.01	3,693.19	3,623.14	70.06	52.718			
12,200.00	4,715.76	1,151.00	1,151.00	200.55	46.04	-4.13	-4,453.28	4,980.01	3,717.65	3,646.09	71.56	51.954			
12,300.00	4,714.68	1,151.00	1,151.00	203.18	46.04	-4.13	-4,453.28	4,980.01	3,744.62	3,671.61	73.00	51.295			
12,400.00	4,713.60	1,151.00	1,151.00	205.81	46.04	-4.13	-4,453.28	4,980.01	3,774.04	3,699.65	74.39	50.735			
12,500.00	4,712.53	1,151.00	1,151.00	208.44	46.04	-4.13	-4,453.28	4,980.01	3,805.87	3,730.16	75.71	50.267			
12,600.00	4,711.45	1,151.00	1,151.00	211.07	46.04	-4.13	-4,453.28	4,980.01	3,840.04	3,763.06	76.98	49.886			
12,700.00	4,710.37	1,151.00	1,151.00	213.70	46.04	-4.13	-4,453.28	4,980.01	3,876.48	3,798.30	78.18	49.585			
12,800.00	4,709.29	1,151.00	1,151.00	216.33	46.04	-4.13	-4,453.28	4,980.01	3,915.14	3,835.82	79.32	49.358			
12,900.00	4,708.22	1,151.00	1,151.00	218.96	46.04	-4.13	-4,453.28	4,980.01	3,955.96	3,875.55	80.40	49.202			
13,000.00	4,707.14	1,151.00	1,151.00	221.59	46.04	-4.13	-4,453.28	4,980.01	3,998.85	3,917.43	81.42	49.112			
13,107.09	4,705.99	1,151.00	1,151.00	224.41	46.04	-4.13	-4,453.28	4,980.01	4,047.03	3,964.58	82.45	49.082	SF		



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Renate Hixon 1 - OH - OH													Offset Site Error:	0.00 ft		
Survey Program: 232-INCLINOMETER													Rule Assigned:		Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
0.00	0.00	13.00	13.00	0.00	0.39	123.88	-1,665.11	2,480.23	2,987.33							
100.00	100.00	113.00	113.00	0.15	3.43	123.88	-1,665.11	2,480.23	2,987.33	2,983.74	3.59	833.073				
200.00	200.00	213.00	213.00	0.51	6.47	123.88	-1,665.11	2,480.23	2,987.33	2,980.34	6.98	427.912				
300.00	300.00	313.00	313.00	0.87	9.51	123.88	-1,665.11	2,480.23	2,987.33	2,976.95	10.38	287.894				
400.00	400.00	413.00	413.00	1.23	12.54	123.88	-1,665.11	2,480.23	2,987.33	2,973.55	13.77	216.916				
445.98	445.98	458.98	458.98	1.39	13.94	123.88	-1,665.11	2,480.23	2,987.33	2,971.99	15.33	194.832				
478.23	478.23	491.23	491.23	1.51	14.92	-105.33	-1,664.82	2,480.23	2,987.22	2,970.79	16.42	181.889				
501.06	501.05	513.74	513.74	1.58	15.60	-105.34	-1,664.83	2,480.23	2,987.31	2,970.12	17.19	173.829				
600.00	599.98	611.29	611.29	1.92	18.56	-105.37	-1,664.89	2,480.23	2,987.85	2,967.37	20.48	145.885				
700.00	699.96	709.90	709.90	2.26	21.56	-105.40	-1,665.03	2,480.23	2,988.44	2,964.62	23.82	125.465				
800.00	799.94	812.96	812.94	2.61	24.69	-105.44	-1,665.11	2,480.23	2,988.99	2,961.69	27.30	109.499				
900.00	899.92	912.94	912.92	2.96	27.72	-105.48	-1,665.11	2,480.23	2,989.50	2,958.82	30.68	97.428				
1,000.00	999.90	1,012.93	1,012.90	3.31	30.76	-105.51	-1,665.11	2,480.23	2,990.02	2,955.94	34.07	87.753				
1,017.52	1,017.42	1,030.23	1,030.21	3.37	31.29	-105.53	-1,664.21	2,480.23	2,989.61	2,954.95	34.66	86.253				
1,100.00	1,099.89	1,109.58	1,109.55	3.67	33.70	-105.56	-1,664.29	2,480.23	2,990.08	2,952.72	37.36	80.029				
1,200.00	1,199.87	1,205.78	1,205.75	4.02	36.62	-105.59	-1,664.60	2,480.23	2,990.77	2,950.13	40.64	73.593				
1,300.00	1,299.85	1,312.94	1,312.85	4.38	39.87	-105.62	-1,665.11	2,480.23	2,991.57	2,947.32	44.25	67.607				
1,400.00	1,399.83	1,412.92	1,412.83	4.74	42.91	-105.65	-1,665.11	2,480.23	2,992.08	2,944.44	47.64	62.803				
1,500.00	1,499.81	1,512.90	1,512.81	5.09	45.94	-105.69	-1,665.11	2,480.23	2,992.60	2,941.57	51.04	58.637				
1,544.70	1,544.51	1,557.46	1,557.36	5.25	47.30	-105.72	-1,663.99	2,480.23	2,992.22	2,939.67	52.55	56.942				
1,600.00	1,599.79	1,609.79	1,609.69	5.45	48.89	-105.74	-1,664.05	2,480.23	2,992.54	2,938.20	54.34	55.075				
1,700.00	1,699.78	1,704.46	1,704.35	5.81	51.76	-105.77	-1,664.38	2,480.23	2,993.25	2,935.69	57.57	51.995				
1,800.00	1,799.76	1,812.88	1,812.76	6.17	55.05	-105.79	-1,665.11	2,480.23	2,994.17	2,932.95	61.22	48.909				
1,900.00	1,899.74	1,912.86	1,912.74	6.52	58.09	-105.83	-1,665.11	2,480.23	2,994.69	2,930.08	64.61	46.348				
2,000.00	1,999.72	2,010.64	2,010.52	6.88	61.06	-105.87	-1,665.02	2,480.23	2,995.17	2,927.23	67.94	44.084				
2,100.00	2,099.70	2,112.83	2,112.70	7.24	64.16	-105.90	-1,665.11	2,480.23	2,995.74	2,924.34	71.40	41.955				
2,200.00	2,199.68	2,212.81	2,212.68	7.60	67.20	-105.94	-1,665.11	2,480.23	2,996.27	2,921.47	74.80	40.058				
2,300.00	2,299.66	2,312.80	2,312.66	7.96	70.24	-105.97	-1,665.11	2,480.23	2,996.80	2,918.61	78.19	38.325				
2,400.00	2,399.65	2,409.20	2,409.06	8.32	73.16	-106.02	-1,664.34	2,480.23	2,996.91	2,915.43	81.48	36.781				
2,500.00	2,499.63	2,505.27	2,505.12	8.68	76.08	-106.05	-1,664.67	2,480.23	2,997.63	2,912.87	84.76	35.368				
2,600.00	2,599.61	2,612.80	2,612.61	9.04	79.35	-106.08	-1,665.11	2,480.23	2,998.39	2,910.01	88.38	33.925				
2,700.00	2,699.59	2,712.78	2,712.59	9.40	82.38	-106.11	-1,665.11	2,480.23	2,998.92	2,907.15	91.78	32.676				
2,800.00	2,799.57	2,812.76	2,812.57	9.75	85.42	-106.15	-1,665.11	2,480.23	2,999.46	2,904.29	95.17	31.516				
2,821.57	2,821.14	2,834.31	2,834.11	9.83	86.07	-106.17	-1,664.02	2,480.23	2,998.98	2,903.08	95.90	31.270				
2,900.00	2,899.55	2,908.51	2,908.30	10.11	88.33	-106.20	-1,664.11	2,480.23	2,999.46	2,901.02	98.44	30.470				
3,000.00	2,999.53	3,003.12	3,002.91	10.47	91.20	-106.22	-1,664.52	2,480.23	3,000.22	2,898.55	101.67	29.509				
3,100.00	3,099.52	3,112.75	3,112.52	10.83	94.53	-106.25	-1,665.11	2,480.23	3,001.07	2,895.71	105.36	28.484				
3,200.00	3,199.50	3,212.73	3,212.50	11.19	97.57	-106.29	-1,665.11	2,480.23	3,001.61	2,892.85	108.76	27.599				
3,300.00	3,299.48	3,312.72	3,312.48	11.55	100.60	-106.32	-1,665.11	2,480.23	3,002.15	2,889.99	112.15	26.768				
3,400.00	3,399.46	3,410.38	3,410.14	11.91	103.57	-106.37	-1,664.63	2,480.23	3,002.43	2,886.95	115.48	26.000				
3,500.00	3,499.44	3,507.56	3,507.32	12.27	106.52	-106.40	-1,664.85	2,480.23	3,003.10	2,884.31	118.79	25.281				
3,600.00	3,599.42	3,612.68	3,612.42	12.63	109.71	-106.43	-1,665.11	2,480.23	3,003.77	2,881.43	122.34	24.553				
3,700.00	3,699.41	3,712.66	3,712.41	12.99	112.75	-106.46	-1,665.11	2,480.23	3,004.32	2,878.58	125.74	23.894				
3,800.00	3,799.39	3,812.64	3,812.39	13.35	115.78	-106.50	-1,665.11	2,480.23	3,004.86	2,875.73	129.13	23.270				
3,900.00	3,899.37	3,910.30	3,910.04	13.71	118.75	-106.54	-1,664.62	2,480.23	3,005.15	2,872.69	132.46	22.688				
4,000.00	3,999.35	4,007.55	4,007.29	14.07	121.70	-106.57	-1,664.84	2,480.23	3,005.82	2,870.05	135.77	22.139				
4,100.00	4,099.33	4,112.62	4,112.33	14.43	124.89	-106.61	-1,665.11	2,480.23	3,006.51	2,867.19	139.32	21.580				
4,154.52	4,153.84	4,167.13	4,166.84	14.62	126.55	-106.62	-1,665.11	2,480.23	3,006.81	2,865.63	141.17	21.299				
4,200.00	4,199.28	4,212.56	4,212.28	14.78	127.93	-26.20	-1,665.11	2,480.23	3,005.46	2,862.75	142.71	21.060				
4,250.00	4,248.96	4,262.25	4,261.96	14.96	129.44	-18.31	-1,665.11	2,480.23	3,000.31	2,855.92	144.39	20.779				
4,300.00	4,298.06	4,311.35	4,311.06	15.13	130.93	-15.99	-1,665.11	2,480.23	2,991.35	2,845.29	146.06	20.481				
4,350.00	4,346.29	4,359.57	4,359.29	15.30	132.39	-15.07	-1,665.11	2,480.23	2,978.63	2,830.94	147.69	20.168				



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: WC 21-1 Pad - Renate Hixon 1 - OH - OH													Offset Site Error:	0.00 ft		
Survey Program: 232-INCLINOMETER													Rule Assigned:		Offset Well Error:	0.00 ft
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
4,400.00	4,393.33	4,406.62	4,406.33	15.46	133.82	-14.75	-1,665.11	2,480.23	2,962.23	2,812.95	149.28	19.843				
4,450.00	4,438.91	4,452.19	4,451.91	15.62	135.21	-14.79	-1,665.11	2,480.23	2,942.26	2,791.44	150.83	19.508				
4,500.00	4,482.73	4,496.02	4,495.73	15.79	136.54	-15.10	-1,665.11	2,480.23	2,918.85	2,766.54	152.31	19.164				
4,550.00	4,524.54	4,537.82	4,537.54	15.97	137.81	-15.66	-1,665.11	2,480.23	2,892.14	2,738.41	153.73	18.814				
4,600.00	4,564.06	4,577.35	4,577.06	16.18	139.01	-16.47	-1,665.11	2,480.23	2,862.30	2,707.24	155.07	18.459				
4,650.00	4,601.07	4,596.99	4,596.66	16.41	139.60	-17.46	-1,665.11	2,480.23	2,829.58	2,673.79	155.79	18.162				
4,700.00	4,635.33	4,596.99	4,596.66	16.69	139.60	-18.61	-1,665.11	2,480.23	2,794.49	2,638.59	155.90	17.925				
4,750.00	4,666.62	4,596.99	4,596.66	17.01	139.60	-20.07	-1,665.11	2,480.23	2,757.24	2,601.27	155.98	17.677				
4,800.00	4,694.77	4,596.99	4,596.66	17.39	139.60	-21.92	-1,665.11	2,480.23	2,717.98	2,561.94	156.04	17.419				
4,850.00	4,719.58	4,596.99	4,596.66	17.83	139.60	-24.29	-1,665.11	2,480.23	2,676.86	2,520.77	156.08	17.150				
4,900.00	4,740.92	4,596.99	4,596.66	18.33	139.60	-27.35	-1,665.11	2,480.23	2,634.05	2,477.93	156.12	16.872				
4,950.00	4,758.64	4,596.99	4,596.66	18.91	139.60	-31.38	-1,665.11	2,480.23	2,589.75	2,433.60	156.15	16.585				
5,000.00	4,772.64	4,596.99	4,596.66	19.55	139.60	-36.79	-1,665.11	2,480.23	2,544.15	2,387.97	156.18	16.290				
5,050.00	4,782.83	4,596.99	4,596.66	20.26	139.60	-44.21	-1,665.11	2,480.23	2,497.47	2,341.25	156.22	15.987				
5,100.00	4,789.16	4,596.99	4,596.66	21.02	139.60	-54.45	-1,665.11	2,480.23	2,449.95	2,293.68	156.26	15.678				
5,150.00	4,791.57	4,596.99	4,596.66	21.83	139.60	-68.23	-1,665.11	2,480.23	2,401.84	2,245.51	156.33	15.364				
5,162.63	4,791.56	4,596.99	4,596.66	22.04	139.60	-72.27	-1,665.11	2,480.23	2,389.62	2,233.26	156.35	15.284				
5,200.00	4,791.16	4,596.99	4,596.66	22.68	139.60	-72.27	-1,665.11	2,480.23	2,353.47	2,197.06	156.41	15.046				
5,300.00	4,790.08	4,596.99	4,596.66	24.52	139.60	-72.27	-1,665.11	2,480.23	2,256.93	2,100.32	156.61	14.411				
5,400.00	4,789.01	4,596.99	4,596.66	26.49	139.60	-72.27	-1,665.11	2,480.23	2,160.71	2,003.84	156.87	13.774				
5,500.00	4,787.93	4,596.99	4,596.66	28.57	139.60	-72.27	-1,665.11	2,480.23	2,064.84	1,907.65	157.19	13.136				
5,600.00	4,786.85	4,596.99	4,596.66	30.73	139.60	-72.27	-1,665.11	2,480.23	1,969.38	1,811.79	157.59	12.497				
5,700.00	4,785.77	4,596.99	4,596.66	32.96	139.60	-72.27	-1,665.11	2,480.23	1,874.40	1,716.32	158.09	11.857				
5,800.00	4,784.70	4,596.99	4,596.66	35.25	139.60	-72.27	-1,665.11	2,480.23	1,779.97	1,621.28	158.69	11.217				
5,900.00	4,783.62	4,596.99	4,596.66	37.59	139.60	-72.27	-1,665.11	2,480.23	1,686.18	1,526.76	159.43	10.577				
6,000.00	4,782.54	4,596.99	4,596.66	39.96	139.60	-72.27	-1,665.11	2,480.23	1,593.15	1,432.83	160.31	9.938				
6,100.00	4,781.47	4,596.99	4,596.66	42.37	139.60	-72.27	-1,665.11	2,480.23	1,501.01	1,339.63	161.38	9.301				
6,200.00	4,780.39	4,596.99	4,596.66	44.80	139.60	-72.27	-1,665.11	2,480.23	1,409.95	1,247.28	162.67	8.668				
6,300.00	4,779.31	4,596.99	4,596.66	47.25	139.60	-72.27	-1,665.11	2,480.23	1,320.17	1,155.98	164.20	8.040				
6,400.00	4,778.23	4,596.99	4,596.66	49.73	139.60	-72.27	-1,665.11	2,480.23	1,231.98	1,065.96	166.02	7.421				
6,500.00	4,777.16	4,596.99	4,596.66	52.22	139.60	-72.27	-1,665.11	2,480.23	1,145.73	977.55	168.18	6.813				
6,600.00	4,776.08	4,596.99	4,596.66	54.72	139.60	-72.27	-1,665.11	2,480.23	1,061.88	891.16	170.72	6.220				
6,700.00	4,775.00	4,596.99	4,596.66	57.23	139.60	-72.27	-1,665.11	2,480.23	981.08	807.37	173.71	5.648				
6,800.00	4,773.93	4,596.99	4,596.66	59.76	139.60	-72.27	-1,665.11	2,480.23	904.11	726.93	177.18	5.103				
6,900.00	4,772.85	4,596.99	4,596.66	62.30	139.60	-72.27	-1,665.11	2,480.23	832.07	650.89	181.17	4.593				
7,000.00	4,771.77	4,596.99	4,596.66	64.84	139.60	-72.27	-1,665.11	2,480.23	766.32	580.66	185.66	4.128				
7,100.00	4,770.69	4,596.99	4,596.66	67.39	139.60	-72.27	-1,665.11	2,480.23	708.63	518.09	190.54	3.719				
7,200.00	4,769.62	4,596.99	4,596.66	69.95	139.60	-72.27	-1,665.11	2,480.23	661.12	465.53	195.58	3.380				
7,300.00	4,768.54	4,596.99	4,596.66	72.51	139.60	-72.27	-1,665.11	2,480.23	626.09	425.70	200.38	3.124				
7,400.00	4,767.46	4,596.99	4,596.66	75.08	139.60	-72.27	-1,665.11	2,480.23	605.72	401.30	204.42	2.963				
7,475.44	4,766.65	4,596.99	4,596.66	77.02	139.60	-72.27	-1,665.11	2,480.23	601.01	394.36	206.64	2.908 CC				
7,500.00	4,766.39	4,596.99	4,596.66	77.65	139.60	-72.27	-1,665.11	2,480.23	601.51	394.32	207.18	2.903 ES, SF				
7,600.00	4,765.31	4,596.99	4,596.66	80.23	139.60	-72.27	-1,665.11	2,480.23	613.78	405.39	208.39	2.945				
7,700.00	4,764.23	4,596.99	4,596.66	82.81	139.60	-72.27	-1,665.11	2,480.23	641.59	433.51	208.08	3.083				
7,800.00	4,763.15	4,596.99	4,596.66	85.40	139.60	-72.27	-1,665.11	2,480.23	683.04	476.45	206.60	3.306				
7,900.00	4,762.08	4,596.99	4,596.66	87.99	139.60	-72.27	-1,665.11	2,480.23	735.84	531.47	204.37	3.601				
8,000.00	4,761.00	4,596.99	4,596.66	90.58	139.60	-72.27	-1,665.11	2,480.23	797.73	595.96	201.77	3.954				
8,100.00	4,759.92	4,596.99	4,596.66	93.17	139.60	-72.27	-1,665.11	2,480.23	866.77	667.69	199.08	4.354				
8,200.00	4,758.84	4,596.99	4,596.66	95.77	139.60	-72.27	-1,665.11	2,480.23	941.38	744.91	196.47	4.792				
8,300.00	4,757.77	4,596.99	4,596.66	98.37	139.60	-72.27	-1,665.11	2,480.23	1,020.35	826.33	194.02	5.259				
8,400.00	4,756.69	4,596.99	4,596.66	100.97	139.60	-72.27	-1,665.11	2,480.23	1,102.74	910.97	191.77	5.750				
8,500.00	4,755.61	4,596.99	4,596.66	103.57	139.60	-72.27	-1,665.11	2,480.23	1,187.83	998.10	189.73	6.261				



**Lonestar Consulting, LLC**  
Anticollision Report



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

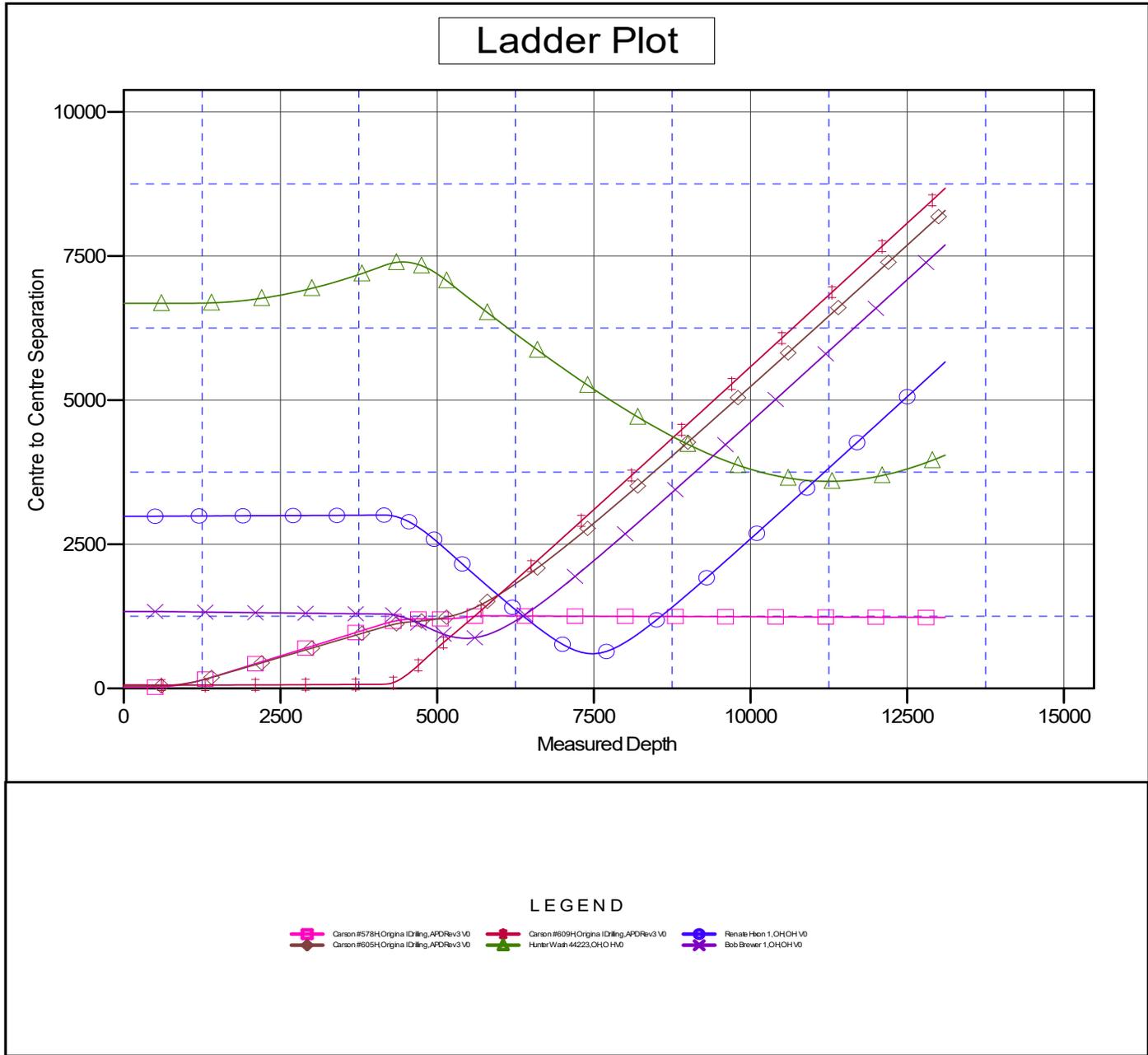
Offset Design: WC 21-1 Pad - Renate Hixon 1 - OH - OH													Offset Site Error:	0.00 ft
Survey Program: 232-INCLINOMETER													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,600.00	4,754.54	4,596.99	4,596.66	106.18	139.60	-72.27	-1,665.11	2,480.23	1,275.09	1,087.20	187.88	6.787		
8,700.00	4,753.46	4,596.99	4,596.66	108.78	139.60	-72.27	-1,665.11	2,480.23	1,364.10	1,177.87	186.23	7.325		
8,800.00	4,752.38	4,596.99	4,596.66	111.39	139.60	-72.27	-1,665.11	2,480.23	1,454.54	1,269.80	184.74	7.873		
8,900.00	4,751.30	4,596.99	4,596.66	114.00	139.60	-72.27	-1,665.11	2,480.23	1,546.15	1,362.75	183.40	8.430		
9,000.00	4,750.23	4,596.99	4,596.66	116.61	139.60	-72.27	-1,665.11	2,480.23	1,638.75	1,456.55	182.20	8.994		
9,100.00	4,749.15	4,596.99	4,596.66	119.22	139.60	-72.27	-1,665.11	2,480.23	1,732.17	1,551.06	181.11	9.564		
9,200.00	4,748.07	4,596.99	4,596.66	121.83	139.60	-72.27	-1,665.11	2,480.23	1,826.29	1,646.16	180.13	10.139		
9,300.00	4,747.00	4,596.99	4,596.66	124.45	139.60	-72.27	-1,665.11	2,480.23	1,921.00	1,741.76	179.24	10.718		
9,400.00	4,745.92	4,596.99	4,596.66	127.06	139.60	-72.27	-1,665.11	2,480.23	2,016.22	1,837.80	178.43	11.300		
9,500.00	4,744.84	4,596.99	4,596.66	129.68	139.60	-72.27	-1,665.11	2,480.23	2,111.89	1,934.20	177.69	11.885		
9,600.00	4,743.76	4,596.99	4,596.66	132.30	139.60	-72.27	-1,665.11	2,480.23	2,207.94	2,030.92	177.02	12.473		
9,700.00	4,742.69	4,596.99	4,596.66	134.92	139.60	-72.27	-1,665.11	2,480.23	2,304.32	2,127.92	176.40	13.063		
9,800.00	4,741.61	4,596.99	4,596.66	137.53	139.60	-72.27	-1,665.11	2,480.23	2,401.00	2,225.17	175.83	13.655		
9,900.00	4,740.53	4,596.99	4,596.66	140.15	139.60	-72.27	-1,665.11	2,480.23	2,497.94	2,322.63	175.32	14.248		
10,000.00	4,739.46	4,596.99	4,596.66	142.77	139.60	-72.27	-1,665.11	2,480.23	2,595.12	2,420.28	174.84	14.843		
10,100.00	4,738.38	4,596.99	4,596.66	145.40	139.60	-72.27	-1,665.11	2,480.23	2,692.50	2,518.10	174.40	15.439		
10,200.00	4,737.30	4,596.99	4,596.66	148.02	139.60	-72.27	-1,665.11	2,480.23	2,790.06	2,616.07	173.99	16.036		
10,300.00	4,736.22	4,596.99	4,596.66	150.64	139.60	-72.27	-1,665.11	2,480.23	2,887.80	2,714.18	173.62	16.633		
10,400.00	4,735.15	4,596.99	4,596.66	153.26	139.60	-72.27	-1,665.11	2,480.23	2,985.68	2,812.41	173.27	17.232		
10,500.00	4,734.07	4,596.99	4,596.66	155.89	139.60	-72.27	-1,665.11	2,480.23	3,083.70	2,910.75	172.94	17.831		
10,600.00	4,732.99	4,596.99	4,596.66	158.51	139.60	-72.27	-1,665.11	2,480.23	3,181.84	3,009.20	172.64	18.431		
10,700.00	4,731.91	4,596.99	4,596.66	161.13	139.60	-72.27	-1,665.11	2,480.23	3,280.09	3,107.73	172.37	19.030		
10,800.00	4,730.84	4,596.99	4,596.66	163.76	139.60	-72.27	-1,665.11	2,480.23	3,378.45	3,206.34	172.11	19.630		
10,900.00	4,729.76	4,596.99	4,596.66	166.38	139.60	-72.27	-1,665.11	2,480.23	3,476.90	3,305.03	171.87	20.230		
11,000.00	4,728.68	4,596.99	4,596.66	169.01	139.60	-72.27	-1,665.11	2,480.23	3,575.44	3,403.80	171.64	20.831		
11,100.00	4,727.61	4,596.99	4,596.66	171.64	139.60	-72.27	-1,665.11	2,480.23	3,674.05	3,502.62	171.43	21.431		
11,200.00	4,726.53	4,596.99	4,596.66	174.26	139.60	-72.27	-1,665.11	2,480.23	3,772.74	3,601.50	171.24	22.032		
11,300.00	4,725.45	4,596.99	4,596.66	176.89	139.60	-72.27	-1,665.11	2,480.23	3,871.50	3,700.44	171.06	22.633		
11,400.00	4,724.37	4,596.99	4,596.66	179.52	139.60	-72.27	-1,665.11	2,480.23	3,970.32	3,799.43	170.89	23.233		
11,500.00	4,723.30	4,596.99	4,596.66	182.14	139.60	-72.27	-1,665.11	2,480.23	4,069.19	3,898.46	170.73	23.834		
11,600.00	4,722.22	4,596.99	4,596.66	184.77	139.60	-72.27	-1,665.11	2,480.23	4,168.12	3,997.54	170.58	24.435		
11,700.00	4,721.14	4,596.99	4,596.66	187.40	139.60	-72.27	-1,665.11	2,480.23	4,267.10	4,096.65	170.45	25.035		
11,800.00	4,720.07	4,596.99	4,596.66	190.03	139.60	-72.27	-1,665.11	2,480.23	4,366.13	4,195.81	170.32	25.635		
11,900.00	4,718.99	4,596.99	4,596.66	192.66	139.60	-72.27	-1,665.11	2,480.23	4,465.20	4,295.00	170.20	26.235		
12,000.00	4,717.91	4,596.99	4,596.66	195.29	139.60	-72.27	-1,665.11	2,480.23	4,564.31	4,394.22	170.09	26.835		
12,100.00	4,716.83	4,596.99	4,596.66	197.92	139.60	-72.27	-1,665.11	2,480.23	4,663.45	4,493.47	169.98	27.435		
12,200.00	4,715.76	4,596.99	4,596.66	200.55	139.60	-72.27	-1,665.11	2,480.23	4,762.64	4,592.75	169.89	28.034		
12,300.00	4,714.68	4,596.99	4,596.66	203.18	139.60	-72.27	-1,665.11	2,480.23	4,861.85	4,692.05	169.80	28.633		
12,400.00	4,713.60	4,596.99	4,596.66	205.81	139.60	-72.27	-1,665.11	2,480.23	4,961.10	4,791.39	169.72	29.232		
12,500.00	4,712.53	4,596.99	4,596.66	208.44	139.60	-72.27	-1,665.11	2,480.23	5,060.38	4,890.74	169.64	29.830		
12,600.00	4,711.45	4,596.99	4,596.66	211.07	139.60	-72.27	-1,665.11	2,480.23	5,159.69	4,990.12	169.57	30.428		
12,700.00	4,710.37	4,596.99	4,596.66	213.70	139.60	-72.27	-1,665.11	2,480.23	5,259.02	5,089.51	169.50	31.026		
12,800.00	4,709.29	4,596.99	4,596.66	216.33	139.60	-72.27	-1,665.11	2,480.23	5,358.37	5,188.93	169.44	31.623		
12,900.00	4,708.22	4,596.99	4,596.66	218.96	139.60	-72.27	-1,665.11	2,480.23	5,457.76	5,288.37	169.39	32.220		
13,000.00	4,707.14	4,596.99	4,596.66	221.59	139.60	-72.27	-1,665.11	2,480.23	5,557.16	5,387.82	169.34	32.817		
13,107.09	4,705.99	4,596.99	4,596.66	224.41	139.60	-72.27	-1,665.11	2,480.23	5,663.63	5,494.34	169.29	33.455		



<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to GL 6296' & RKB 14' @ 6309.99ft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -107.833

Coordinates are relative to: Carson #582H - Slot 1  
 Coordinate System is US State Plane 1983, New Mexico Western Zone  
 Grid Convergence at Surface is: -0.17°

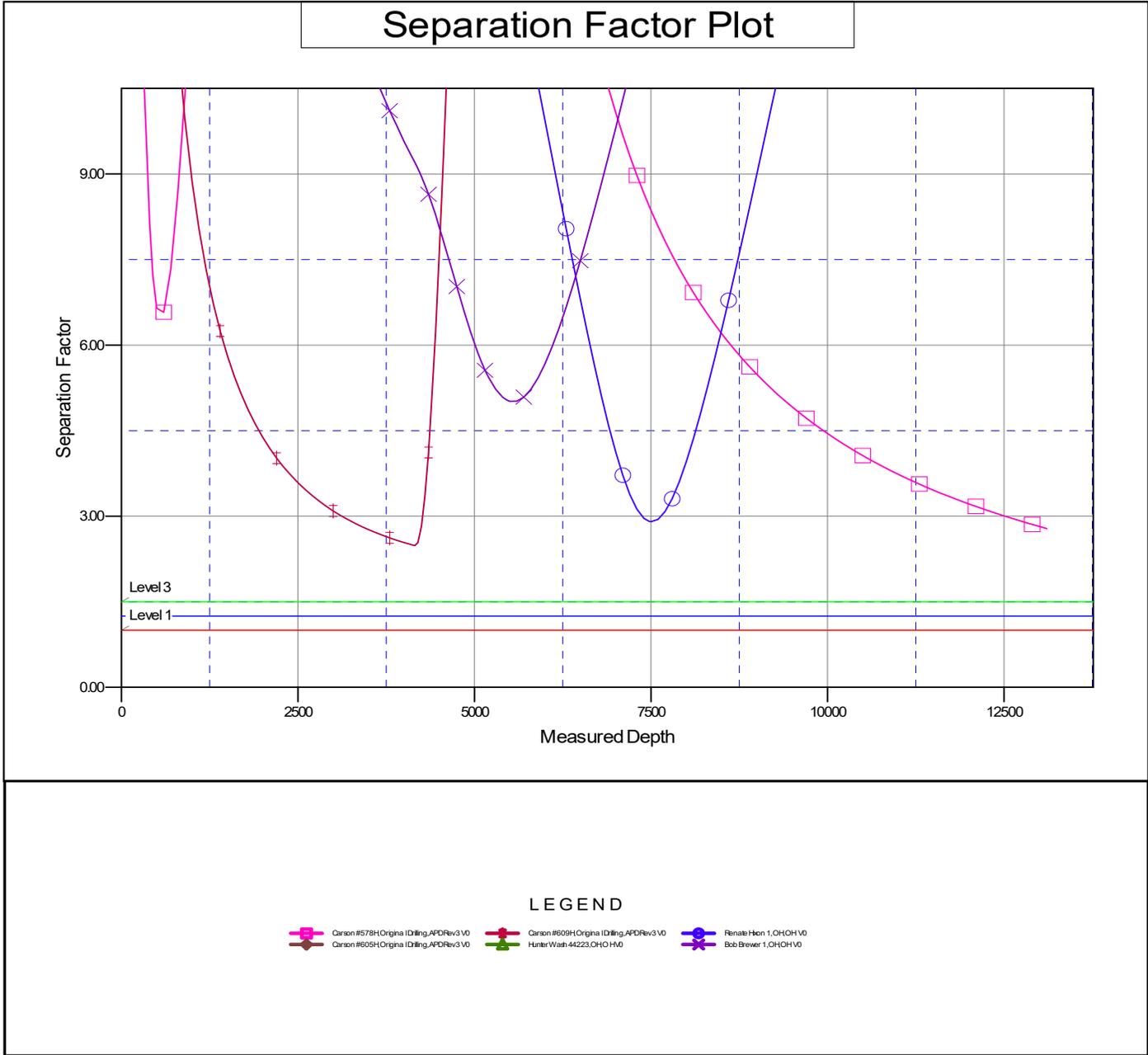




<b>Company:</b>	DJR Operating	<b>Local Co-ordinate Reference:</b>	Well Carson #582H - Slot 1
<b>Project:</b>	Proposed Carson Unit	<b>TVD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Reference Site:</b>	WC 21-1 Pad	<b>MD Reference:</b>	GL 6296' & RKB 14' @ 6309.99ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Carson #582H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	Grand Junction
<b>Reference Design:</b>	APD Rev 3	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to GL 6296' & RKB 14' @ 6309.99ft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -107.833

Coordinates are relative to: Carson #582H - Slot 1  
 Coordinate System is US State Plane 1983, New Mexico Western Zone  
 Grid Convergence at Surface is: -0.17°





# United States Department of the Interior



BUREAU OF LAND MANAGEMENT  
Farmington District Office  
6251 College Blvd, Suite A  
Farmington, New Mexico 87402

In Reply Refer To:  
3162.3-1(NMF0110)

\* DJR OPERATING LLC  
#582H CARSON UNIT  
Lease: NMSF078065 Agreement: NMNM78385A  
SH: SW $\frac{1}{4}$ NW $\frac{1}{4}$  Section 21, T.25 N., R.12 W.  
San Juan County, New Mexico  
BH: SE $\frac{1}{4}$ NW $\frac{1}{4}$  Section 27, T.25 N., R.12 W.  
San Juan County, New Mexico  
**\*Above Data Required on Well Sign**

## GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

The following special requirements apply and are effective when **checked**:

- A.  Note all surface/drilling conditions of approval attached.
- B.  The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
- C.  Test the surface casing to a minimum of \_\_\_\_\_ psi for 30 minutes.
- D.  Test all casing strings below the surface casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield burst) for a minimum of 30 minutes.
- E.  Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, New Mexico State Office, Reservoir Management Group, 301 Dinosaur Trail, Santa Fe, New Mexico 87508.  
The effective date of the agreement must be **prior** to any sales.
- F.  The use of co-flex hose is authorized contingent upon the following:
  - 1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
  - 2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
  - 3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

## I. GENERAL

- A. Full compliance with all applicable laws and regulations, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. BOP equipment (except the annular preventer) shall be tested utilizing a test plug to full working pressure for 10 minutes. No bleed-off of pressure is acceptable. (See 43 CFR 3172.6(b)(9)(ii)).
- G. The operator shall have sufficient weighting materials and lost circulation materials on location in the event of a pressure kick or in the event of lost circulation. (See 43 CFR 3172.8(a)).
- H. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare. (See 43 CFR 3172.8(b)(7)).
- I. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a Notice of Intent sundry within three business days. **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to Virgil Lucero at 505-793-1836.**
- J. **The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.**

- K. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all times, unless the well is secured with blowout preventers or cement plugs.
- L. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.
- M. **Commingling:** No production (oil, gas, and water) from the subject well should start until Sundry Notices (if necessary) granting variances from applicable regulations as related to commingling and off-lease measurement are approved by this office. (See 43 CFR 3173.14)

## **II. REPORTING REQUIREMENTS**

- A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.
- B. The following reports shall be filed with the BLM-Authorized Officer online through AFMSS 2 within 30 days after the work is completed.
  - 1. Provide complete information concerning.
    - a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
    - b. Intervals tested, perforated (include size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.
    - c. Subsequent Report of Abandonment, show the way the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.
  - 2. Well Completion Report will be submitted with 30 days after well has been completed.
    - a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.
  - 3. Submit a cement evaluation log if cement is not circulated to surface.
- C. Production Startup Notification is required no later than the 5<sup>th</sup> business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

### **III. DRILLER'S LOG**

The following shall be entered in the daily driller's log: 1) Blowout preventer pressures tests, including test pressures and results, 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results, and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

### **IV. GAS FLARING**

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of \* Days, 20 MMCF following its (completion)(recompletion), or flowback has been routed to the production separator, whichever first occurs, without the prior, written approval of the authorized officer in accordance with 43 CFR 3179.81. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*\*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the beginning of flowback following completion or recompletion.*

### **V. SAFETY**

- A. All rig heating stoves are to be of the explosion-proof type.
- B. Rig safety lines are to be installed.
- C. Hard hats and other Personal Protective Equipment (PPE) must be utilized.

### **VI. CHANGE OF PLANS OR ABANDONMENT**

- A. Any changes of plans required to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.I.
- B. If the well is dry, it is to be plugged in accordance with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section 1.I. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1c.
- C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drill site without prior approval from the BLM-Authorized Officer.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 536257

**ACKNOWLEDGMENTS**

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 536257
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

CONDITIONS

Action 536257

**CONDITIONS**

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 536257
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
scrues76	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/18/2025
scrues76	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/18/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/20/2026
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/20/2026
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	2/20/2026
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	2/20/2026
ward.rikala	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	2/20/2026