Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-045-38452

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

25. Signature	Name *(Printed/Typed)*	Date

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 01/29/2025

Additional Operator Remarks

Location of Well

0. SHL: NENW / 874 FNL / 2408 FWL / TWSP: 24N / RANGE: 8W / SECTION: 20 / LAT: 36.304702 / LONG: -107.705748 (TVD: 0 feet, MD: 0 feet)

PPP: SWNW / 1986 FNL / 158 FWL / TWSP: 24N / RANGE: 8W / SECTION: 20 / LAT: 36.301651 / LONG: -107.713384 (TVD: 5309 feet, MD: 5994 feet)

PPP: SESW / 852 FSL / 2647 FWL / TWSP: 24N / RANGE: 8W / SECTION: 18 / LAT: 36.309443 / LONG: -107.722862 (TVD: 5424 feet, MD: 15548 feet)

PPP: SENE / 1766 FNL / 1 FEL / TWSP: 24N / RANGE: 9W / SECTION: 13 / LAT: 36.316777 / LONG: -107.731786 (TVD: 5424 feet, MD: 15548 feet)

PPP: SWSE / 1 FSL / 1797 FEL / TWSP: 24N / RANGE: 8W / SECTION: 18 / LAT: 36.307105 / LONG: -107.20018 (TVD: 5424 feet, MD: 15548 feet)

PPP: SWNW / 2666 FNL / 876 FWL / TWSP: 24N / RANGE: 8W / SECTION: 18 / LAT: 36.314351 / LONG: -107.728833 (TVD: 5424 feet, MD: 15548 feet)

PPP: SENE / 1826 FNL / 1 FEL / TWSP: 24N / RANGE: 8W / SECTION: 19 / LAT: 36.302093 / LONG: -107.713921 (TVD: 5424 feet, MD: 15548 feet)

BHL: NENE / 573 FNL / 1164 FEL / TWSP: 24N / RANGE: 9W / SECTION: 13 / LAT: 36.320002 / LONG: -107.73571 (TVD: 5424 feet, MD: 15548 feet)

BLM Point of Contact

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

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-045-38452	98194	CROW CANYON MANCOS OIL POOL	
Property Code	**Property Name**		**Well Number**
333707	WHITE CROW		114H
OGRID No.	**Operator Name**		**Ground Level Elevation**
371838	DJR OPERATING, LLC		6700'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☒ Federal

Surface Location (SHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
C	20	24N	8W		874' NORTH	2408' WEST	36.304702° N	107.705748° W	SAN JUAN

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
A	13	24N	9W		573' NORTH	1164' EAST	36.320002° N	107.735710° W	SAN JUAN

Dedicated Acres PENETRATED SPACING UNIT;	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
SEC 20: SW/SW = 40 ACRES			Y	UNIT

Order Numbers: R-14090 R-14090A Well Setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
E	20	24N	8W		1986' NORTH	158' WEST	36.301651° N	107.713384° W	SAN JUAN

Fist Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
E	20	24N	8W		1986' NORTH	158' WEST	36.301651° N	107.713384° W	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
A	13	24N	9W		573' NORTH	1164' EAST	36.320002° N	107.735710° W	SAN JUAN

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
CROW CANYON AND BLANCO WASH		

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, ***and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest*** *in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.*

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Shaw-Marie Ford — Signature
5/1/2025 — Date

Shaw-Marie Ford — Printed Name

sford@enduringresources.com — E-mail Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor:

Certificate Number	Date of Survey
11393	JUNE 14, 2024

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

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
	98173	BLANCO WASH UNIT OIL POOL	
Property Code	**Property Name**		**Well Number**
333707	WHITE CROW		114H
OGRID No.	**Operator Name**		**Ground Level Elevation**
371838	DJR OPERATING, LLC		6700'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☒ Federal

Surface Location (SHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
C	20	24N	8W		874' NORTH	2408' WEST	36.304702° N	107.705748° W	SAN JUAN

Bottom Hole Location (BHL)

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A	13	24N	9W		573' NORTH	1164' EAST	36.320002° N	107.735710° W	SAN JUAN

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
PENETRATED SPACING UNIT; SEC 19: SE/NE, NE/NE & NW/NE (120 AC.); SEC 18: SE/SE, SW/SE, NW/SE, SE/SW, NE/SW, LOT 3, SE/NW, LOT 2 & LOT 1 (361.06 AC.); SEC 13: SE/NE, NE/NE & NW/NE (120 AC.) = 601.06 ACRES			Y	UNIT

Order Numbers: R-13931 Well Setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
E	20	24N	8W		1986' NORTH	158' WEST	36.301651° N	107.713384° W	SAN JUAN

Fist Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
E	20	24N	8W		1986' NORTH	158' WEST	36.301651° N	107.713384° W	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
A	13	24N	9W		573' NORTH	1164' EAST	36.320002° N	107.735710° W	SAN JUAN

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
CROW CANYON AND BLANCO WASH		

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, ***and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest*** *in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.*

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Shaw-Marie Ford 5/1/2025
Signature Date

Shaw-Marie Ford
Printed Name

sford@enduringresources.com
E-mail Address

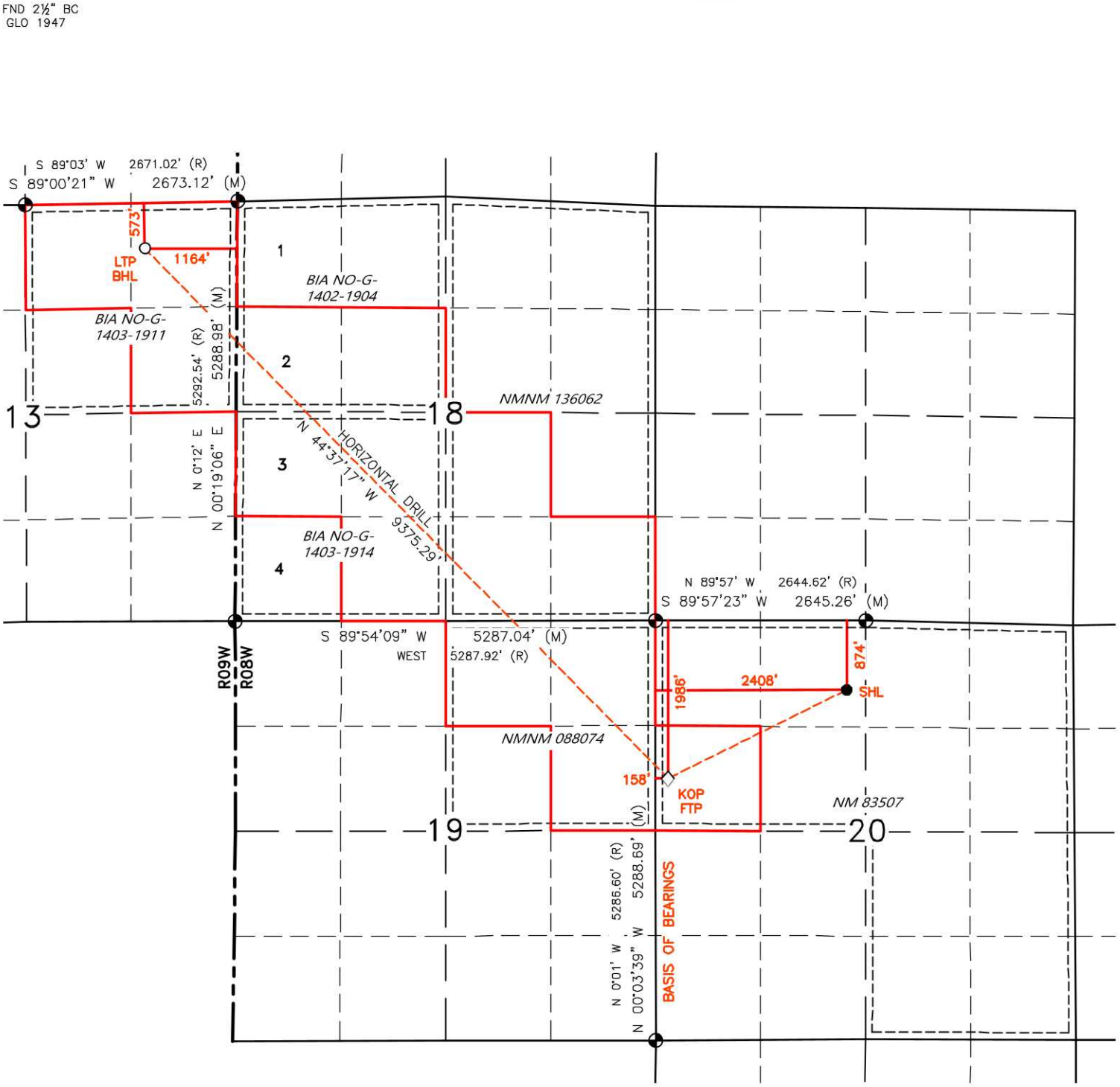
SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor:

Certificate Number	Date of Survey
11393	JUNE 14, 2024

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



SURFACE LOCATION (SHL)
874' FNL 2408' FWL
SEC. 20, T24N, R8W
LAT. 36.304702° N (NAD83)
LONG. 107.705748° W (NAD83)

FIRST TAKE POINT (FTP)
1986' FNL 158' FWL
SEC. 20, T24N, R8W
LAT. 36.301651° N (NAD83)
LONG. 107.713384° W (NAD83)

BOTTOM HOLE LOCATION (BHL)
573' FNL 1164' FEL
SEC. 13, T24N, R9W
LAT. 36.320002° N (NAD83)
LONG. 107.735710° W (NAD83)

KICK OFF POINT (KOP)
1986' FNL 158' FWL
SEC. 20, T24N, R8W
LAT. 36.301651° N (NAD83)
LONG. 107.713384° W (NAD83)

LAST TAKE POINT (LTP)
573' FNL 1164' FEL
SEC. 13, T24N, R9W
LAT. 36.320002° N (NAD83)
LONG. 107.735710° 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:** _11_/_5_/_2024_

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
White Crow 114H	TBD	C-20-24N-08W	874 FNL x 2408 FWL	438	655	157

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
White Crow 114H	TBD	12/25/2023	1/4/2025	1/25/2025	2/4/2025	2/7/2025

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:
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 11/5/2024
Phone: 505-716-3297

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
White Crow 114H
NENW C-20-24N-08W

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.

200 Energy Court
Farmington, NM 87401
Phone (505) 636-9720

DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
White Crow 114H
NENW C-20-24N-08W

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

200 Energy Court
Farmington, NM 87401
Phone (505) 636-9720

DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
White Crow 114H
NENW C-20-24N-08W

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.

DJR Operating, LLC

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 tall 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.

200 Energy Court
Farmington, NM 87401
Phone (505) 636-9720

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.

200 Energy Court
Farmington, NM 87401
Phone (505) 636-9720

DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
White Crow 114H
NENW C-20-24N-08W

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.

DJRs 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.

200 Energy Court
Farmington, NM 87401
Phone (505) 636-9720

ENDURING RESOURCES IV, LLC
6300 S SYRACUSE WAY, SUITE 525
CENTENNIAL, COLORADO 80211

DRILLING PLAN: ***Drill, complete, and equip single lateral in the Mancos-Gallup formation***

WELL INFORMATION:

Name: **White Crow 114H**
API Number: 30-045-unassigned
State: New Mexico
County: San Juan
Surface Elevation: 6,700 ft ASL (GL) 6,724 ft ASL (KB)
Surface Location: 20-24-8 Sec-Twn-Rng 874 ft FNL 2,408 ft FWL
36.304702 ° N latitude 107.705748 ° W longitude (NAD 83)
BH Location: 13-24-9 Sec-Twn-Rng 573 ft FNL 1,164 ft FEL
36.320002 ° N latitude 107.73571 ° W longitude (NAD 83)
Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**
South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on ISR #459 for 2.1 miles to T, Left (North) for 1.1 miles to access road on left for the White Crow 105H Pad. There are 7 wells on this location. From SouthEast (location entrance) to NorthWest: White Crow 105H, Crow Canyon 115H, 117H, White Crow 106H, 108H, CC 118H, WC 114H

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
Ojo Alamo	5,740	984	989	W	normal
Kirtland	5,600	1,124	1,135	W	normal
Fruitland	5,300	1,424	1,464	G, W	sub
Pictured Cliffs	4,981	1,743	1,832	G, W	sub
Lewis	4,911	1,813	1,912	G, W	normal
Chacra	4,601	2,123	2,269	G, W	normal
Cliff House	3,502	3,222	3,533	G, W	sub
Menefee	3,462	3,262	3,579	G, W	normal
Point Lookout	2,593	4,131	4,579	G, W	normal
Mancos	2,361	4,363	4,846	O,G	sub (~0.38)
Gallup (MNCS_A)	1,994	4,730	5,269	O,G	sub (~0.38)
MNCS_B	1,912	4,812	5,363	O,G	sub (~0.38)
MNCS_C	1,784	4,940	5,510	O,G	sub (~0.38)
MNCS_Cms	1,724	5,000	5,579	O,G	sub (~0.38)
MNCS_D	1,635	5,089	5,685	O,G	sub (~0.38)
MNCS_E	1,563	5,161	5,775	O,G	sub (~0.38)
MNCS_F	1,496	5,228	5,866	O,G	sub (~0.38)
MNCS_G	1,415	5,309	5,994	O,G	sub (~0.38)
MNCS_H	1,372	5,352	6,076	O,G	sub (~0.38)
MNCS_I	1,328	5,396	6,189	O,G	sub (~0.38)
FTP TARGET	**1,415**	**5,309**	**5,994**	**O,G**	**sub (~0.38)**
PROJECTED TD	**1,395**	**5,329**	**15,548**	**O,G**	**sub (~0.38)**

Surface: Nacimiento

Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Gallup

Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations

Max. pressure gradient:	0.43	psi/ft	Evacuated hole gradient:	0.22	psi/ft
Maximum anticipated BH pressure, assuming maximum pressure gradient:				**2,300**	**psi**
Maximum anticipated surface pressure, assuming partially evacuated hole:				**1,130**	**psi**

Temperature: **Maximum anticipated BHT is 125° F or less**

H_2S INFORMATION:

H_2S Zones: Encountering hydrogen-sulfide bearing zones is **NOT** anticipated.

Safety: Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; remote geo-steering from drill out of 7" casing to TD; gas detection from drillout of 9-5/8" casing to TD.

MWD / LWD: Gamma Ray from drillout of 9-5/8" casing to TD

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

Cased Hole Logs: CBL on 7" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Ensign

Rig No.: 140

Draw Works: Pacific Rim 1500AC (1,500 hp)

Mast: Process MFG Corp Swing Up Triple (136 ft, 750,000 lbs)

Top Drive: Tesco 400-EXI-600 (400 ton)

Prime Movers: 3 - CAT 3512C (1,350 hp)

Pumps: 2 - Gardner Denver PZ-11 (7,500 psi)

BOPE 1: T3 Annular & Shaffer double gate ram (11", 5,000 psi)

BOPE 2: T3 annular(11", 5,000 psi)

Choke 3", 5,000 psi

KB-GL (ft): 23.5

Note: Actual drilling rig may vary depending on availability at time the well is scheduled to be drilled.

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

1) Rig will be equipped with upper and lower kelly cocks with handles available.

2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.

3) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.

4) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.

5) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
6) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device.The valve will be maintained in the open position and shall only be closed when the there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement:

Pumps shall be equipped with stroke counters with displays in the dog-house. Slow pump speed shall be recorded daily and after mudding up, at a minimum, on the drilling report. A Pit Volume Totalizer will be installed and the readout will be displayed in the dog-house. Gas-detecting equipment will be installed at the shakers, and readouts will be available in the dog-house and the in the geologist's work-station (if geologist or mud-logger is on-site).

Closed-Loop System: A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to minimimize the amount of fluids and solids that require disposal.

Fluid Disposal : Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Envirotech, Inc.).

Solids Disposal :

Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Envirotech, Inc.).

Fluid Program: See "Detailed Drilling Plan" section and attached Newpark mud program for additional details.

DETAILED DRILLING PLAN:

SURFACE: ***Drill vertically to casing setting depth (plus necessary rathole), run casing, cement casing to surface.***

0 ft (MD)	**to**	**350 ft (MD)**	**Hole Section Length:**	**350 ft**
0 ft (TVD)	**to**	**350 ft (TVD)**	**Casing Required:**	**350 ft**

Note: Surface hole may be drilled, cased, and cemented with a smaller rig in advance of the drilling rig.

Fluid:

Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spud mud

Hole Size: 12-1/4"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, deviation survey

Logging: None

Casing Specs:

	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	K-55	STC	2,020	3,520	564,000	423,000
Loading					153	1,158	110,988	110,988
Min. S.F.					**13.21**	**3.04**	**5.08**	**3.81**

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient
Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling intermediate hole and 8.4 ppg equivalent external pressure gradient
Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): *Minumum: 3,400 Optimum: 4,530 Maximum: 5,660*

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Redi-Mix	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114	184

Calculated cement volumes assume gauge hole and the excess noted in table Csg ID 8.921

Mesa Ready Mix or first available Shoe Track L 44

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

INTERMEDIATE: ***Drill as per directional plan to casing setting depth, run casing, cement casing to surface.***

350 ft (MD)	to	6,318 ft (MD)	Hole Section Length:	5,968 ft
350 ft (TVD)	to	5,421 ft (TVD)	Casing Required:	6,318 ft

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (KCl)	8.8 - 9.2	15	8 - 14	12-Jun	10.8 - 11.2	No OBM

Hole Size: 8.75

Bit / Motor: 8-3/4" PDC bit w/mud motor

MWD / Survey: MWD Survey with inclination and azimuth survey (every 100' at a minimum), GR optional

Logging: None

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to **1,500** psi for 30 minutes.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	7	26.0	K-55	LTC	4,320	4,980	415,000	367,000
Loading					2,368	1,440	243,250	243,250
Min. S.F.					**1.82**	**3.46**	**1.71**	**1.51**

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient
Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling production hole and 8.4 ppg equivalent external pressure gradient
Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): *Minumum: 3,400 Optimum: 4,530 Maximum: 5,660*

Centralizers: 1 per joint in non-vertical hole; 1 per 2-joints in vertical hole

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Lead	III:POZ Blend	12.5	2.150	12.06	80%	0	580	1,248
Tail	Type III	13.5	1.710	8.88	30%	4,746	185	317

Annular Capacity				
0.16681	cuft/ft	*7" casing x 9-5/8" casing annulus*	Shoe Track L	44
0.1503	cuft/ft	*7" casing x 8-3/4" hole annulus*	Casing ID	6.276
0.2148	cuft/ft	*7" casing casing volume*		

Calculated cement volumes assume gauge hole and the excess noted in table

Drake Intermediate Cementing Program

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

PRODUCTION: *Drill to TD following directional plan, run casing, cement casing to surface.*

6,318	ft (MD)	to	15,548	ft (MD)	Hole Section Length:	9,230 ft	
5,421	ft (TVD)	to	5,329	ft (TVD)	Casing Required:	9,380 ft	
		Estimated KOP:	5,491	ft (MD)	4,923	ft (TVD)	
		Estimated Liner Top:	6,168	ft (MD)	5,389	ft (TVD)	
		Estimated Landing Point (FTP):	5,994	ft (MD)	5,309	ft (TVD)	
		Estimated Lateral Length:	9,554	ft (MD)			

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	pH	Comments	Comments
	WBM	8.7 - 9.0	NC	+20	±2	9-9.5	prod water	OBM as contingency

Hole Size: 6.125

Bit / Motor: 6-1/8" PDC bit w/mud motor

MWD / Survey: MWD with GR, inclination, and azimuth (survey every joint from KOP to Landing Point and survey every 100' minimum before KOP and after Landing Point)

Logging: GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to **1,500** psi for 30 minutes.

Liner/Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	4.500	11.6	P-110	BTC	7,560	10,690	367,000	385,000
Loading					2,633	8,805	255,632	255,632
Min. S.F.					**2.87**	**1.21**	**1.44**	**1.51**

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)
Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden fluid with 8.4 ppg equivalent external pressure gradient.
Tension: buoyed weight in 9.0 ppg fluid with 100,000 lbs over-pull. Tension calculations assume vertical hole to approximate drag in lateral.

MU Torque (ft lbs): *Minumum:* *BTC* *Optimum:* *BTC* *Maximum:* *BTC*

Centralizers: *Centralizer count and placement may be adjusted based on well conditions and as-drilled surveys.*

Cement:	Type	Weight (ppg)	Yield	Water	% Excess	Planned TOC	Total Cmt	Total Cmt (cu
Spacer	IntegraGuard Star	11		31.6		0	20 bbls	
Tail	G:POZ blend	13.3	1.520	7.54	30%	6,168	788	1,197
Displacement	*207*	*est bbls*						

Annular Capacities	0.1044	cuft/ft	*4-1/2" casing x 7" casing annulus*		
	0.09417	cuft/ft	*4-1/2" casing x 6-1/8" hole annulus*		
	0.0873	cuft/ft	*4-1/2" casing volume*	*est shoe jt ft*	100
	0.0102	bbls/ft	*4" DP capacity*		

Calculated cement volumes assume gauge hole and the excess noted in table
American Cementing Liner & Production Blend

Spacer	*S-8 Silica Flour 163.7 lbs/bbl*	Avis 616 viscosifier 11.6 lb/bbl	FP24 Defoamer .5 lb/bbl	IntegraGuard Star Plus 3K LCM 15 lb/bbl	SS201 Surfactant 1 gal/bbl			
Lead/Tail	*ASTM Type I/II*	BA90 Bonding Agent 5.0 lb/sx	Bentonite Viscosifier 8% BWOB	FL24 Fluid Loss .5% BWOB	IntegraGuard GW86 Viscosifier .1% BWOB	R7C Retarder .2% BWOB	FP24 Defoamer 0.3% BWOB, Anti-Static .01 lb/sx	
	Type G 50%	Pozzolan Fly Ash Extender 50%	BA90 Bonding Agent 3.0 lb/sx	Bentonite Viscosifier 4% BWOB	FL24 Fluid Loss .4% BWOB	IntegraGuard GW86 Viscosifier .1% BWOB	R3 Retarder .5% BWOB	FP24 Defoamer .3% BWOB, IntegraSeal 0.25 lb/sx

Notify NMOCD & BLM if cement is not circulated to surface.

Note: This well will not be considered an unorthodox well location as defined by NMAC19.15.16.15.C.5. As defined in

FINISH WELL: ***ND BOP, cap well, RDMO.***

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 9,454

Est Frac Inform: *39 Frac Stages 152,000 bbls slick water 12,300,000 lbs proppant*

Flowback: Flow back through production tubing as pressures allow

Production: Produce through production tubing via gas-lift into permanent production and storage facilities

ESTIMATED START DATES:

Drilling: 12/16/2024

Completion: 1/15/2025

Production: 1/29/2025

Prepared by:	**Greg Olson**	**1/25/2024**
Updated:	**Greg Olson**	**4/11/2024**
	Greg Olson	**9/13/2024**

WELL NAME: White Crow 114H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Gallup formation

API Number: *30-045-unassigned*

AFE Number: *Not yet assigned*

ER Well Number: *Not yet assigned*

State: New Mexico

County: San Juan

Surface Elev.:	6,700	ft ASL (GL)	6,724	ft ASL (KB)		
Surface Location:	20-24-8	Sec-Twn- Rng	874	ft FNL	2,408	ft FWL
BH Location:	13-24-9	Sec-Twn- Rng	573	ft FNL	1164	ft FEL

Driving Directions: ***FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:***

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on ISR #459 for 2.1 miles to T, Left (North) for 1.1 miles to access road on left for the White Crow 105H Pad. There are 7 wells on this location. From SouthEast (location entrance) to NorthWest: White Crow 105H, Crow Canyon 115H, 117H, White Crow 106H, 108H, CC 118H, WC 114H

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	6,318 ft
KOP (MD)	5,491 ft
KOP (TVD)	4,923 ft
Target (TVD)	5,309 ft
Curve BUR	10 °/100 ft
POE (MD)	5,994 ft
TD (MD)	15,548 ft
Lat Len (ft)	9,554 ft

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	12.250	350	9.625	36	K-55	STC	0	350
Intermediate	8.750	6,318	7	26.0	K-55	LTC	0	6,318
Production	6.125	15,548	4.500	11.6	P-110	BTC	6,168	15,548

CEMENT PROPERTIES SUMMARY:

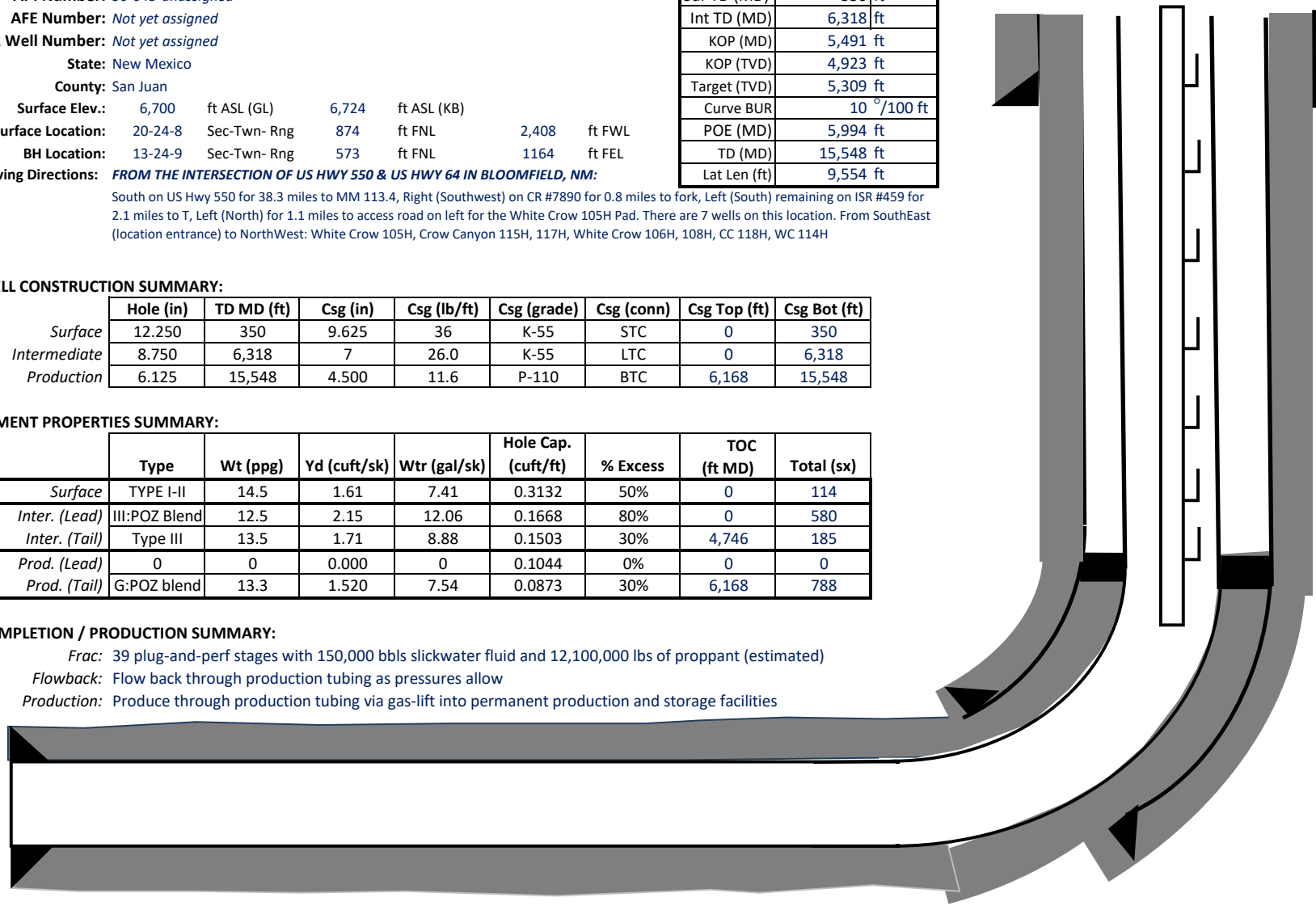
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114
Inter. (Lead)	III:POZ Blend	12.5	2.15	12.06	0.1668	80%	0	580
Inter. (Tail)	Type III	13.5	1.71	8.88	0.1503	30%	4,746	185
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.520	7.54	0.0873	30%	6,168	788

COMPLETION / PRODUCTION SUMMARY:

Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow

Production: Produce through production tubing via gas-lift into permanent production and storage facilities

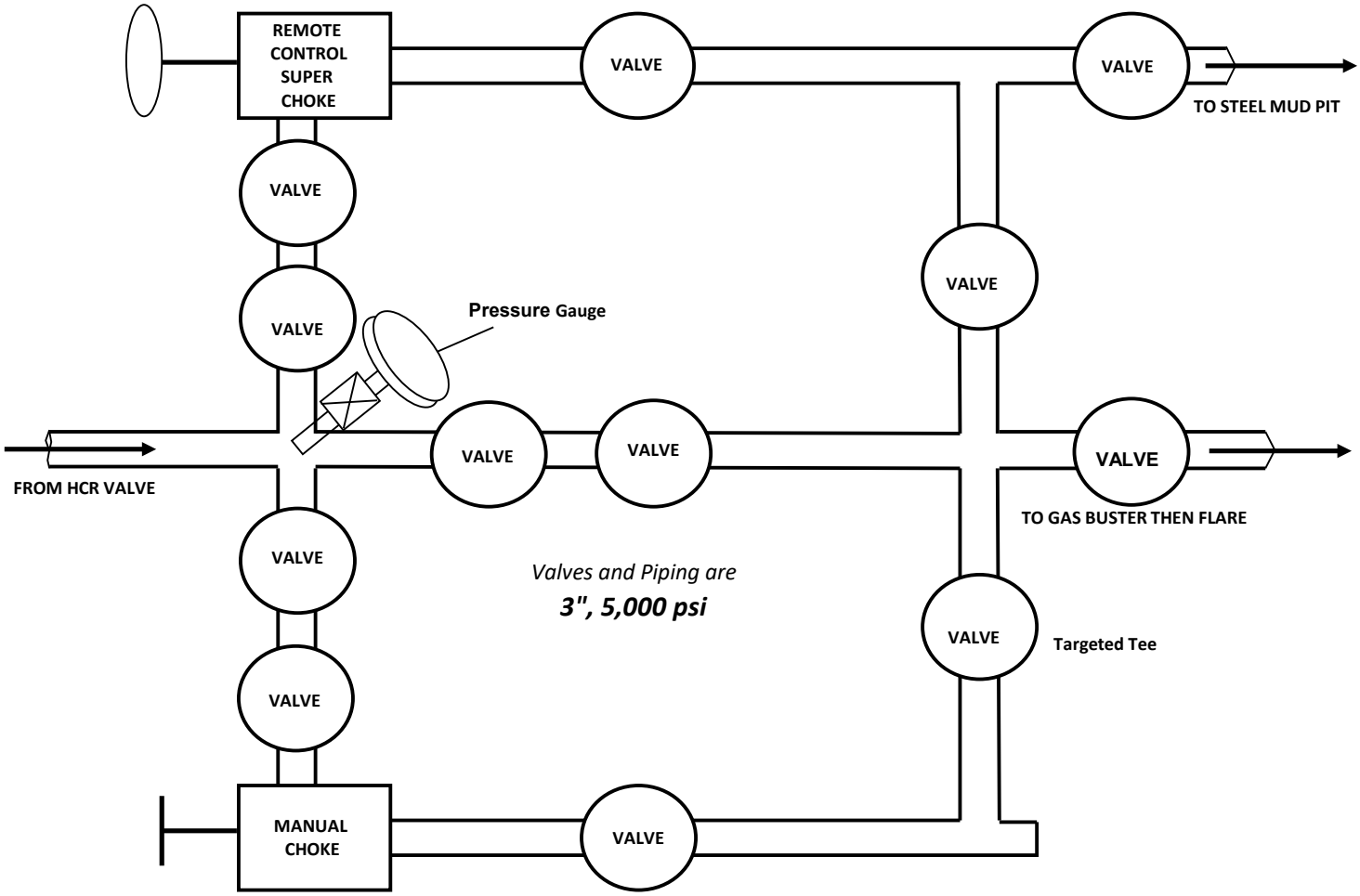


Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	984	989
Kirtland	1,124	1,135
Fruitland	1,424	1,464
Pictured Cliffs	1,743	1,832
Lewis	1,813	1,912
Chacra	2,123	2,269
Cliff House	3,222	3,533
Menefee	3,262	3,579
Point Lookout	4,131	4,579
Mancos	4,363	4,846
Gallup (MNCS_A)	4,730	5,269
MNCS_B	4,812	5,363
MNCS_C	4,940	5,510
MNCS_Cms	5,000	5,579
MNCS_D	5,089	5,685
MNCS_E	5,161	5,775
MNCS_F	5,228	5,866
MNCS_G	5,309	5,994
MNCS_H	5,352	6,076
MNCS_I	5,396	6,189
FTP TARGET	5,309	5,994
PROJECTED TD	5,329	15,548

White Crow 114H

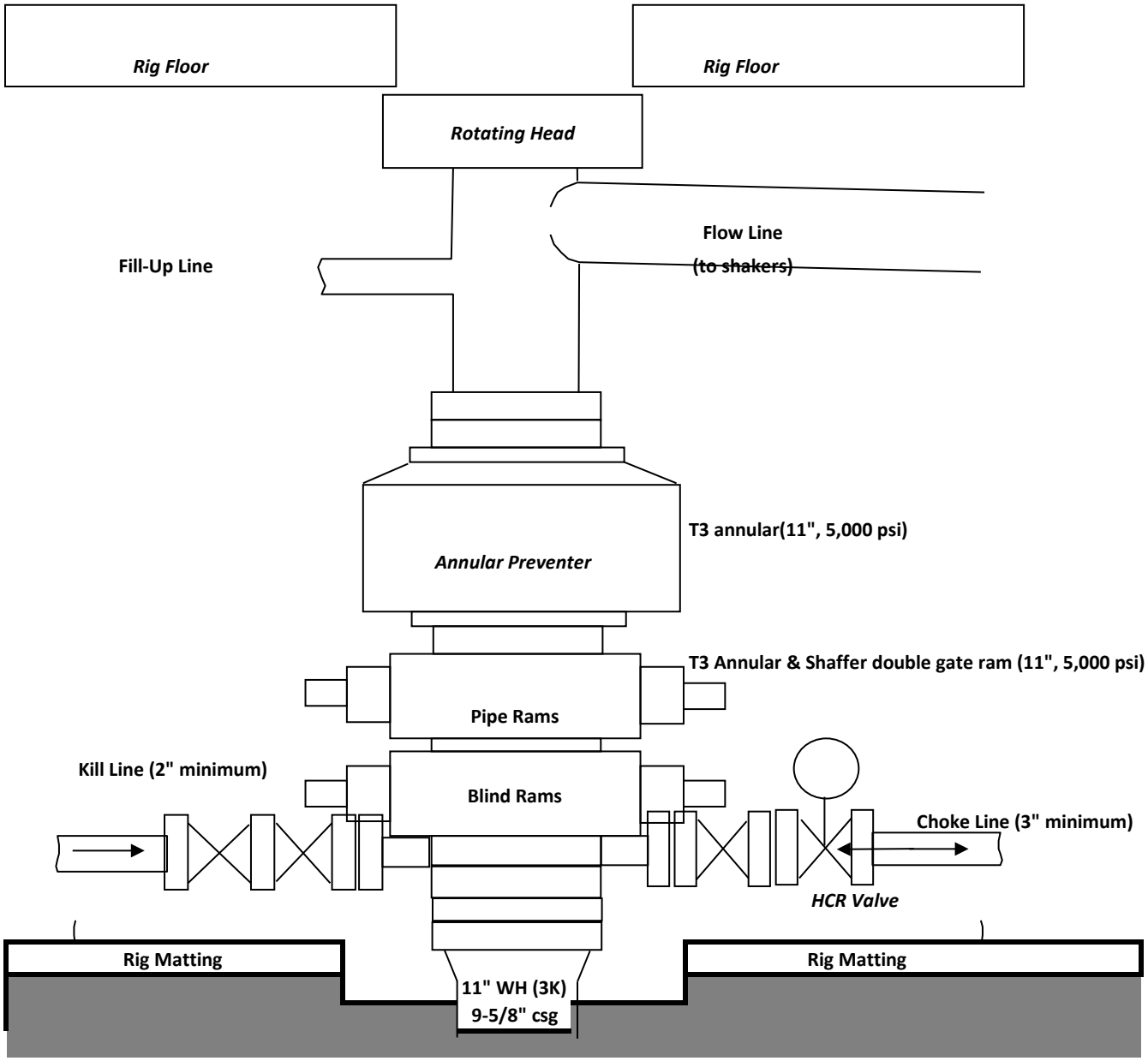
NOTE: EXACT BOPE AND CHOKE CONFIRGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

CHOKE MANIFOLD



NOTE: EXACT BOPE AND CHOKE CONFIRGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

BOPE



Well: White Crow 114H
Site: White Crow (105,106,108&114)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig:

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6700+23.5 @ 6723.50ft

Surface location:

Northing	Easting	Latitude	Longitude
1930236.17	2760684.10	36.30470200	-107.70574800

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.374°

Azimuths to Grid North
True North: -0.08°
Magnetic North: 8.37°

Magnetic Field
Strength: 49029.9nT
Dip Angle: 62.74°
Date: 8/30/2024
Model: IGRF2020

MARKSMAN DIRECTIONAL

CASING DETAILS

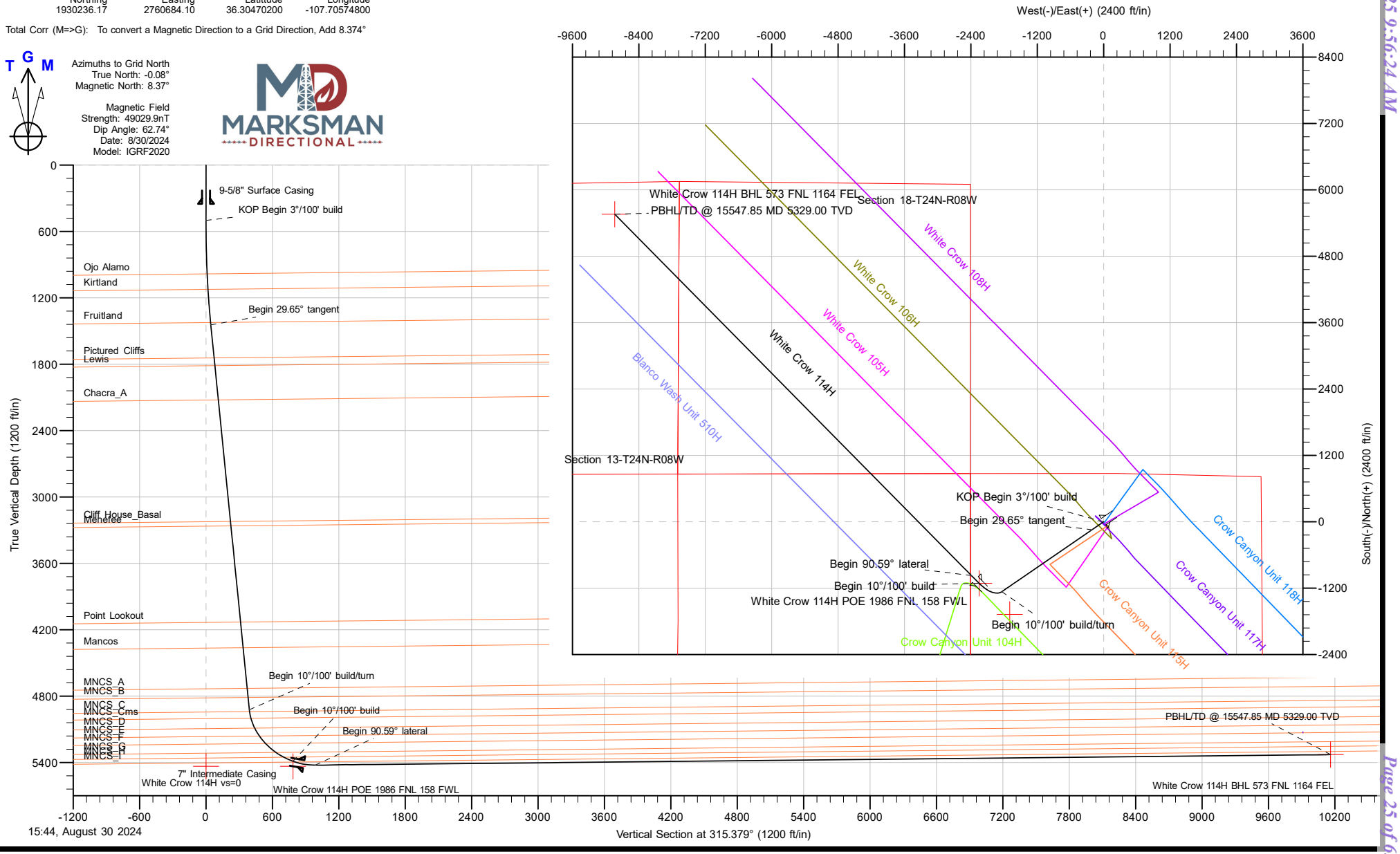
TVD	MD	Size
350.00	350.00	9-5/8
5414.85	6268.20	7

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000	0.00	
2	500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 3°/100' build
3	1488.30	29.65	235.505	1444.78	-141.61	-206.09	3.00	235.505	43.96	Begin 29.65° tangent
4	5490.90	29.65	235.505	4923.33	-1262.97	-1837.98	0.00	0.000	392.08	Begin 10°/100' build/turn
5	6168.20	70.00	315.379	5389.00	-1113.52	-2248.54	10.00	91.586	786.84	Begin 10°/100' build
6	6374.11	90.59	315.379	5423.52	-969.84	-2390.34	10.00	0.000	988.70	Begin 90.59° lateral
7	15547.85	90.59	315.379	5329.00	5559.35	-8833.81	0.00	0.000	10161.96	PBHL/TD @ 15547.85 MD 5329.00 TVD

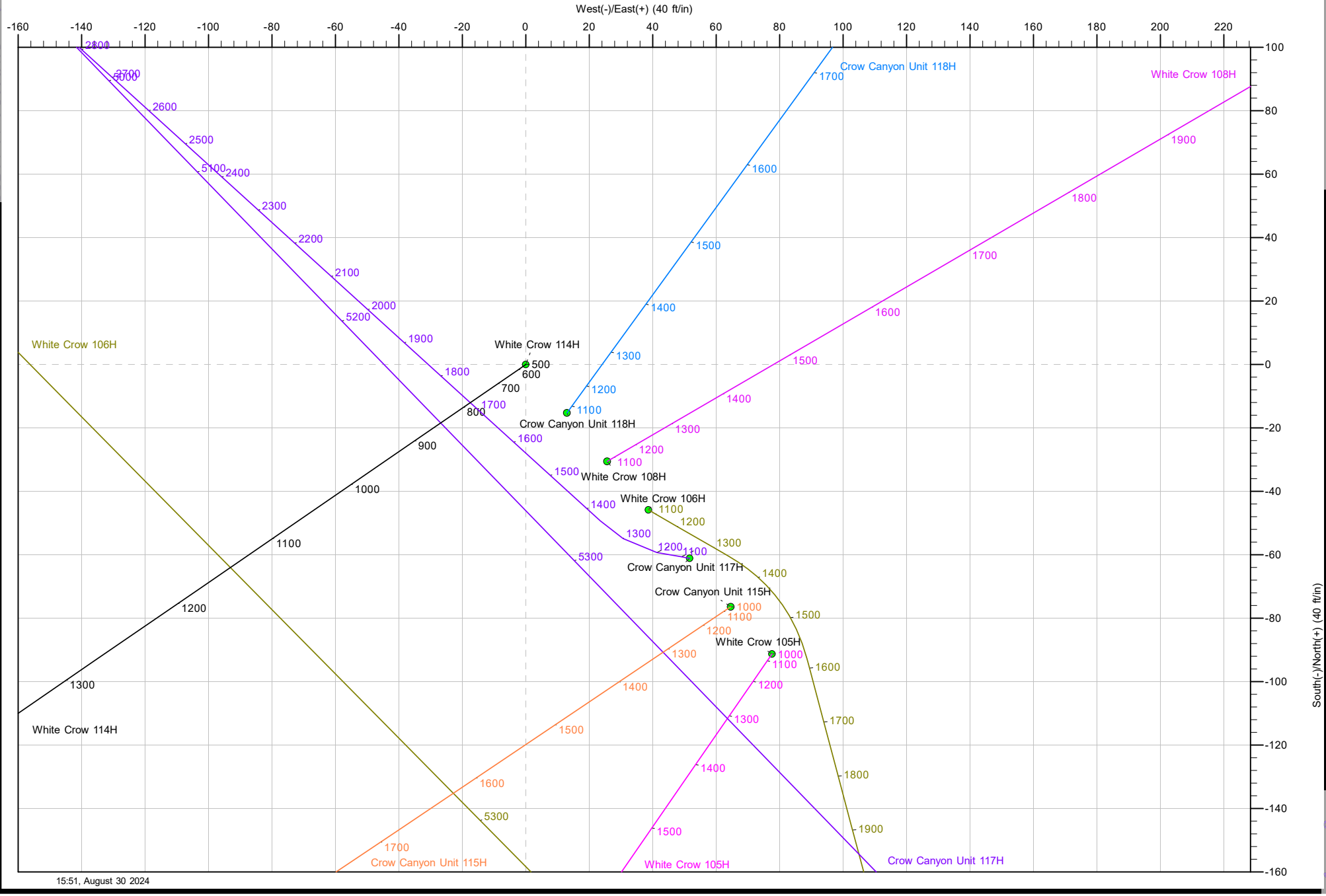
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
White Crow 114H BHL 573 FNL 1164 FEL	5329.00	5559.35	-8833.81	1935795.50	2751850.31	36.32000200	-107.73571000
White Crow 114H POE 1986 FNL 158 FWL	5434.00	-1113.52	-2248.54	1929122.64	2758435.56	36.30165100	-107.71338400
White Crow 114H vs=0	5434.00	-1673.56	-1695.86	1928562.61	2758988.24	36.30011066	-107.71151072



15:44, August 30 2024

Well: White Crow 114H
Site: White Crow (105,106,108&114)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig:



Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project San Juan County, New Mexico NAD83 NM W

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

Site White Crow (105,106,108&114)

Site Position:		**Northing:**	1,930,236.17 usft	**Latitude:**	36.30470200
From:	Lat/Long	**Easting:**	2,760,684.10 usft	**Longitude:**	-107.70574800
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "		

Well White Crow 114H, Surf loc: 874 FNL 2408 FWL Section 20-T24N-R08W

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,930,236.17 usft	**Latitude:**	36.30470200
	+E/-W	0.00 ft	**Easting:**	2,760,684.10 usft	**Longitude:**	-107.70574800
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,700.00 ft
Grid Convergence:		0.076 °				

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/30/2024	8.449	62.744	49,029.90654030

Design rev0

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	315.379

Plan Survey Tool Program **Date** 8/30/2024

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,547.85	rev0 (Original Hole)	MWD	
				OWSG MWD - Standard	

Plan Sections

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,488.30	29.65	235.505	1,444.78	-141.61	-206.09	3.00	3.00	0.00	235.505	
5,490.90	29.65	235.505	4,923.33	-1,262.97	-1,837.98	0.00	0.00	0.00	0.000	
6,168.20	70.00	315.379	5,389.00	-1,113.52	-2,248.54	10.00	5.96	11.79	91.586	
6,374.11	90.59	315.379	5,423.52	-969.84	-2,390.34	10.00	10.00	0.00	0.000	
15,547.85	90.59	315.379	5,329.00	5,559.35	-8,833.81	0.00	0.00	0.00	0.000	White Crow 114H BHl

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00	0.00	0.000	350.00	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
600.00	3.00	235.505	599.95	-1.48	-2.16	0.46	3.00	3.00	0.00
700.00	6.00	235.505	699.63	-5.93	-8.62	1.84	3.00	3.00	0.00
800.00	9.00	235.505	798.77	-13.32	-19.38	4.13	3.00	3.00	0.00
900.00	12.00	235.505	897.08	-23.64	-34.40	7.34	3.00	3.00	0.00
989.22	14.68	235.505	983.89	-35.29	-51.36	10.96	3.00	3.00	0.00
Ojo Alamo									
1,000.00	15.00	235.505	994.31	-36.86	-53.63	11.44	3.00	3.00	0.00
1,100.00	18.00	235.505	1,090.18	-52.94	-77.04	16.43	3.00	3.00	0.00
1,135.47	19.06	235.505	1,123.81	-59.32	-86.33	18.42	3.00	3.00	0.00
Kirtland									
1,200.00	21.00	235.505	1,184.43	-71.84	-104.55	22.30	3.00	3.00	0.00
1,300.00	24.00	235.505	1,276.81	-93.51	-136.08	29.03	3.00	3.00	0.00
1,400.00	27.00	235.505	1,367.06	-117.89	-171.56	36.60	3.00	3.00	0.00
1,463.98	28.92	235.505	1,423.57	-134.88	-196.28	41.87	3.00	3.00	0.00
Fruitland									
1,488.30	29.65	235.505	1,444.78	-141.61	-206.09	43.96	3.00	3.00	0.00
Begin 29.65° tangent									
1,500.00	29.65	235.505	1,454.95	-144.89	-210.86	44.98	0.00	0.00	0.00
1,600.00	29.65	235.505	1,541.85	-172.91	-251.63	53.68	0.00	0.00	0.00
1,700.00	29.65	235.505	1,628.76	-200.92	-292.40	62.37	0.00	0.00	0.00
1,800.00	29.65	235.505	1,715.67	-228.94	-333.17	71.07	0.00	0.00	0.00
1,831.72	29.65	235.505	1,743.24	-237.83	-346.10	73.83	0.00	0.00	0.00
Pictured Cliffs									
1,900.00	29.65	235.505	1,802.58	-256.95	-373.94	79.77	0.00	0.00	0.00
1,912.19	29.65	235.505	1,813.17	-260.37	-378.91	80.83	0.00	0.00	0.00
Lewis									
2,000.00	29.65	235.505	1,889.48	-284.97	-414.71	88.47	0.00	0.00	0.00
2,100.00	29.65	235.505	1,976.39	-312.99	-455.48	97.16	0.00	0.00	0.00
2,200.00	29.65	235.505	2,063.30	-341.00	-496.25	105.86	0.00	0.00	0.00
2,268.52	29.65	235.505	2,122.85	-360.20	-524.19	111.82	0.00	0.00	0.00
Chacra_A									
2,300.00	29.65	235.505	2,150.21	-369.02	-537.02	114.56	0.00	0.00	0.00
2,400.00	29.65	235.505	2,237.11	-397.03	-577.80	123.26	0.00	0.00	0.00
2,500.00	29.65	235.505	2,324.02	-425.05	-618.57	131.95	0.00	0.00	0.00
2,600.00	29.65	235.505	2,410.93	-453.07	-659.34	140.65	0.00	0.00	0.00
2,700.00	29.65	235.505	2,497.83	-481.08	-700.11	149.35	0.00	0.00	0.00
2,800.00	29.65	235.505	2,584.74	-509.10	-740.88	158.04	0.00	0.00	0.00
2,900.00	29.65	235.505	2,671.65	-537.11	-781.65	166.74	0.00	0.00	0.00
3,000.00	29.65	235.505	2,758.56	-565.13	-822.42	175.44	0.00	0.00	0.00
3,100.00	29.65	235.505	2,845.46	-593.14	-863.19	184.14	0.00	0.00	0.00
3,200.00	29.65	235.505	2,932.37	-621.16	-903.96	192.83	0.00	0.00	0.00
3,300.00	29.65	235.505	3,019.28	-649.18	-944.73	201.53	0.00	0.00	0.00
3,400.00	29.65	235.505	3,106.18	-677.19	-985.50	210.23	0.00	0.00	0.00
3,500.00	29.65	235.505	3,193.09	-705.21	-1,026.27	218.92	0.00	0.00	0.00

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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)
3,532.94	29.65	235.505	3,221.72	-714.43	-1,039.70	221.79	0.00	0.00	0.00
Cliff House_Basal									
3,578.92	29.65	235.505	3,261.67	-727.32	-1,058.45	225.79	0.00	0.00	0.00
Menefee									
3,600.00	29.65	235.505	3,280.00	-733.22	-1,067.04	227.62	0.00	0.00	0.00
3,700.00	29.65	235.505	3,366.91	-761.24	-1,107.82	236.32	0.00	0.00	0.00
3,800.00	29.65	235.505	3,453.81	-789.25	-1,148.59	245.02	0.00	0.00	0.00
3,900.00	29.65	235.505	3,540.72	-817.27	-1,189.36	253.71	0.00	0.00	0.00
4,000.00	29.65	235.505	3,627.63	-845.29	-1,230.13	262.41	0.00	0.00	0.00
4,100.00	29.65	235.505	3,714.53	-873.30	-1,270.90	271.11	0.00	0.00	0.00
4,200.00	29.65	235.505	3,801.44	-901.32	-1,311.67	279.81	0.00	0.00	0.00
4,300.00	29.65	235.505	3,888.35	-929.33	-1,352.44	288.50	0.00	0.00	0.00
4,400.00	29.65	235.505	3,975.26	-957.35	-1,393.21	297.20	0.00	0.00	0.00
4,500.00	29.65	235.505	4,062.16	-985.36	-1,433.98	305.90	0.00	0.00	0.00
4,578.95	29.65	235.505	4,130.78	-1,007.48	-1,466.17	312.76	0.00	0.00	0.00
Point Lookout									
4,600.00	29.65	235.505	4,149.07	-1,013.38	-1,474.75	314.59	0.00	0.00	0.00
4,700.00	29.65	235.505	4,235.98	-1,041.40	-1,515.52	323.29	0.00	0.00	0.00
4,800.00	29.65	235.505	4,322.88	-1,069.41	-1,556.29	331.99	0.00	0.00	0.00
4,845.63	29.65	235.505	4,362.54	-1,082.20	-1,574.90	335.96	0.00	0.00	0.00
Mancos									
4,900.00	29.65	235.505	4,409.79	-1,097.43	-1,597.06	340.69	0.00	0.00	0.00
5,000.00	29.65	235.505	4,496.70	-1,125.44	-1,637.84	349.38	0.00	0.00	0.00
5,100.00	29.65	235.505	4,583.61	-1,153.46	-1,678.61	358.08	0.00	0.00	0.00
5,200.00	29.65	235.505	4,670.51	-1,181.48	-1,719.38	366.78	0.00	0.00	0.00
5,268.63	29.65	235.505	4,730.16	-1,200.70	-1,747.36	372.75	0.00	0.00	0.00
MNCS_A									
5,300.00	29.65	235.505	4,757.42	-1,209.49	-1,760.15	375.47	0.00	0.00	0.00
5,362.89	29.65	235.505	4,812.08	-1,227.11	-1,785.79	380.94	0.00	0.00	0.00
MNCS_B									
5,400.00	29.65	235.505	4,844.33	-1,237.51	-1,800.92	384.17	0.00	0.00	0.00
5,490.90	29.65	235.505	4,923.33	-1,262.97	-1,837.98	392.08	0.00	0.00	0.00
Begin 10°/100' build/turn									
5,500.00	29.64	237.344	4,931.24	-1,265.46	-1,841.73	392.94	10.00	-0.14	20.22
5,510.02	29.65	239.369	4,939.94	-1,268.06	-1,845.95	394.05	10.00	0.16	20.22
MNCS_C									
5,550.00	30.02	247.377	4,974.64	-1,276.95	-1,863.70	400.19	10.00	0.92	20.03
5,579.15	30.58	253.047	4,999.82	-1,281.92	-1,877.52	406.37	10.00	1.94	19.45
MNCS_Cms									
5,600.00	31.13	256.968	5,017.71	-1,284.68	-1,887.85	411.66	10.00	2.64	18.81
5,650.00	32.91	265.793	5,060.13	-1,288.60	-1,914.00	427.24	10.00	3.55	17.65
5,685.26	34.50	271.464	5,089.46	-1,289.04	-1,933.54	440.65	10.00	4.52	16.08
MNCS_D									
5,700.00	35.24	273.695	5,101.56	-1,288.66	-1,941.96	446.83	10.00	5.02	15.13
5,750.00	38.03	280.658	5,141.70	-1,284.88	-1,971.51	470.28	10.00	5.57	13.93
5,774.80	39.55	283.784	5,161.02	-1,281.59	-1,986.69	483.29	10.00	6.14	12.61
MNCS_E									
5,800.00	41.18	286.758	5,180.23	-1,277.28	-2,002.43	497.41	10.00	6.45	11.80
5,850.00	44.61	292.106	5,216.87	-1,265.92	-2,034.48	528.00	10.00	6.86	10.70
5,866.44	45.79	293.721	5,228.45	-1,261.38	-2,045.22	538.78	10.00	7.17	9.82
MNCS_F									
5,900.00	48.26	296.824	5,251.33	-1,250.89	-2,067.41	561.84	10.00	7.37	9.25
5,950.00	52.08	301.023	5,283.36	-1,232.29	-2,100.98	598.65	10.00	7.65	8.40

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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)
5,994.25	55.58	304.384	5,309.48	-1,212.98	-2,131.02	633.49	10.00	7.90	7.60
MNCS_G									
6,000.00	56.04	304.799	5,312.71	-1,210.28	-2,134.93	638.16	10.00	8.02	7.23
6,050.00	60.10	308.236	5,339.15	-1,185.02	-2,169.00	680.08	10.00	8.12	6.87
6,076.17	62.26	309.922	5,351.76	-1,170.57	-2,186.80	702.86	10.00	8.25	6.44
MNCS_H									
6,100.00	64.25	311.400	5,362.49	-1,156.70	-2,202.94	724.07	10.00	8.33	6.20
6,150.00	68.46	314.349	5,382.54	-1,125.53	-2,236.48	769.82	10.00	8.42	5.90
6,168.20	70.00	315.379	5,389.00	-1,113.52	-2,248.54	786.84	10.00	8.49	5.66
Begin 10°/100' build									
6,188.81	72.06	315.379	5,395.70	-1,099.66	-2,262.23	806.32	10.00	10.00	0.00
MNCS_I									
6,200.00	73.18	315.379	5,399.04	-1,092.05	-2,269.73	817.00	10.00	10.00	0.00
6,250.00	78.18	315.379	5,411.40	-1,057.58	-2,303.75	865.43	10.00	10.00	0.00
6,268.20	80.00	315.379	5,414.85	-1,044.86	-2,316.30	883.30	10.00	10.00	0.00
7" Intermediate Casing									
6,300.00	83.18	315.379	5,419.50	-1,022.48	-2,338.39	914.75	10.00	10.00	0.00
6,350.00	88.18	315.379	5,423.26	-987.00	-2,373.40	964.60	10.00	10.00	0.00
6,374.11	90.59	315.379	5,423.52	-969.84	-2,390.34	988.70	10.00	10.00	0.00
Begin 90.59° lateral									
6,400.00	90.59	315.379	5,423.26	-951.41	-2,408.52	1,014.59	0.00	0.00	0.00
6,500.00	90.59	315.379	5,422.23	-880.24	-2,478.76	1,114.59	0.00	0.00	0.00
6,600.00	90.59	315.379	5,421.20	-809.07	-2,549.00	1,214.58	0.00	0.00	0.00
6,700.00	90.59	315.379	5,420.17	-737.90	-2,619.24	1,314.58	0.00	0.00	0.00
6,800.00	90.59	315.379	5,419.14	-666.72	-2,689.48	1,414.57	0.00	0.00	0.00
6,900.00	90.59	315.379	5,418.10	-595.55	-2,759.71	1,514.57	0.00	0.00	0.00
7,000.00	90.59	315.379	5,417.07	-524.38	-2,829.95	1,614.56	0.00	0.00	0.00
7,100.00	90.59	315.379	5,416.04	-453.21	-2,900.19	1,714.56	0.00	0.00	0.00
7,200.00	90.59	315.379	5,415.01	-382.03	-2,970.43	1,814.55	0.00	0.00	0.00
7,300.00	90.59	315.379	5,413.98	-310.86	-3,040.67	1,914.54	0.00	0.00	0.00
7,400.00	90.59	315.379	5,412.95	-239.69	-3,110.90	2,014.54	0.00	0.00	0.00
7,500.00	90.59	315.379	5,411.92	-168.52	-3,181.14	2,114.53	0.00	0.00	0.00
7,600.00	90.59	315.379	5,410.89	-97.34	-3,251.38	2,214.53	0.00	0.00	0.00
7,700.00	90.59	315.379	5,409.86	-26.17	-3,321.62	2,314.52	0.00	0.00	0.00
7,800.00	90.59	315.379	5,408.83	45.00	-3,391.86	2,414.52	0.00	0.00	0.00
7,900.00	90.59	315.379	5,407.80	116.17	-3,462.09	2,514.51	0.00	0.00	0.00
8,000.00	90.59	315.379	5,406.77	187.35	-3,532.33	2,614.51	0.00	0.00	0.00
8,100.00	90.59	315.379	5,405.74	258.52	-3,602.57	2,714.50	0.00	0.00	0.00
8,200.00	90.59	315.379	5,404.71	329.69	-3,672.81	2,814.50	0.00	0.00	0.00
8,300.00	90.59	315.379	5,403.68	400.86	-3,743.05	2,914.49	0.00	0.00	0.00
8,400.00	90.59	315.379	5,402.65	472.04	-3,813.29	3,014.49	0.00	0.00	0.00
8,500.00	90.59	315.379	5,401.62	543.21	-3,883.52	3,114.48	0.00	0.00	0.00
8,600.00	90.59	315.379	5,400.59	614.38	-3,953.76	3,214.48	0.00	0.00	0.00
8,700.00	90.59	315.379	5,399.56	685.55	-4,024.00	3,314.47	0.00	0.00	0.00
8,800.00	90.59	315.379	5,398.53	756.73	-4,094.24	3,414.47	0.00	0.00	0.00
8,900.00	90.59	315.379	5,397.50	827.90	-4,164.48	3,514.46	0.00	0.00	0.00
9,000.00	90.59	315.379	5,396.47	899.07	-4,234.71	3,614.45	0.00	0.00	0.00
9,100.00	90.59	315.379	5,395.44	970.25	-4,304.95	3,714.45	0.00	0.00	0.00
9,200.00	90.59	315.379	5,394.41	1,041.42	-4,375.19	3,814.44	0.00	0.00	0.00
9,300.00	90.59	315.379	5,393.38	1,112.59	-4,445.43	3,914.44	0.00	0.00	0.00
9,400.00	90.59	315.379	5,392.35	1,183.76	-4,515.67	4,014.43	0.00	0.00	0.00
9,500.00	90.59	315.379	5,391.32	1,254.94	-4,585.91	4,114.43	0.00	0.00	0.00
9,600.00	90.59	315.379	5,390.28	1,326.11	-4,656.14	4,214.42	0.00	0.00	0.00

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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)
9,700.00	90.59	315.379	5,389.25	1,397.28	-4,726.38	4,314.42	0.00	0.00	0.00
9,800.00	90.59	315.379	5,388.22	1,468.45	-4,796.62	4,414.41	0.00	0.00	0.00
9,900.00	90.59	315.379	5,387.19	1,539.63	-4,866.86	4,514.41	0.00	0.00	0.00
10,000.00	90.59	315.379	5,386.16	1,610.80	-4,937.10	4,614.40	0.00	0.00	0.00
10,100.00	90.59	315.379	5,385.13	1,681.97	-5,007.33	4,714.40	0.00	0.00	0.00
10,200.00	90.59	315.379	5,384.10	1,753.14	-5,077.57	4,814.39	0.00	0.00	0.00
10,300.00	90.59	315.379	5,383.07	1,824.32	-5,147.81	4,914.39	0.00	0.00	0.00
10,400.00	90.59	315.379	5,382.04	1,895.49	-5,218.05	5,014.38	0.00	0.00	0.00
10,500.00	90.59	315.379	5,381.01	1,966.66	-5,288.29	5,114.37	0.00	0.00	0.00
10,600.00	90.59	315.379	5,379.98	2,037.83	-5,358.53	5,214.37	0.00	0.00	0.00
10,700.00	90.59	315.379	5,378.95	2,109.01	-5,428.76	5,314.36	0.00	0.00	0.00
10,800.00	90.59	315.379	5,377.92	2,180.18	-5,499.00	5,414.36	0.00	0.00	0.00
10,900.00	90.59	315.379	5,376.89	2,251.35	-5,569.24	5,514.35	0.00	0.00	0.00
11,000.00	90.59	315.379	5,375.86	2,322.52	-5,639.48	5,614.35	0.00	0.00	0.00
11,100.00	90.59	315.379	5,374.83	2,393.70	-5,709.72	5,714.34	0.00	0.00	0.00
11,200.00	90.59	315.379	5,373.80	2,464.87	-5,779.95	5,814.34	0.00	0.00	0.00
11,300.00	90.59	315.379	5,372.77	2,536.04	-5,850.19	5,914.33	0.00	0.00	0.00
11,400.00	90.59	315.379	5,371.74	2,607.21	-5,920.43	6,014.33	0.00	0.00	0.00
11,500.00	90.59	315.379	5,370.71	2,678.39	-5,990.67	6,114.32	0.00	0.00	0.00
11,600.00	90.59	315.379	5,369.68	2,749.56	-6,060.91	6,214.32	0.00	0.00	0.00
11,700.00	90.59	315.379	5,368.65	2,820.73	-6,131.15	6,314.31	0.00	0.00	0.00
11,800.00	90.59	315.379	5,367.62	2,891.91	-6,201.38	6,414.31	0.00	0.00	0.00
11,900.00	90.59	315.379	5,366.59	2,963.08	-6,271.62	6,514.30	0.00	0.00	0.00
12,000.00	90.59	315.379	5,365.56	3,034.25	-6,341.86	6,614.30	0.00	0.00	0.00
12,100.00	90.59	315.379	5,364.53	3,105.42	-6,412.10	6,714.29	0.00	0.00	0.00
12,200.00	90.59	315.379	5,363.50	3,176.60	-6,482.34	6,814.28	0.00	0.00	0.00
12,300.00	90.59	315.379	5,362.46	3,247.77	-6,552.57	6,914.28	0.00	0.00	0.00
12,400.00	90.59	315.379	5,361.43	3,318.94	-6,622.81	7,014.27	0.00	0.00	0.00
12,500.00	90.59	315.379	5,360.40	3,390.11	-6,693.05	7,114.27	0.00	0.00	0.00
12,600.00	90.59	315.379	5,359.37	3,461.29	-6,763.29	7,214.26	0.00	0.00	0.00
12,700.00	90.59	315.379	5,358.34	3,532.46	-6,833.53	7,314.26	0.00	0.00	0.00
12,800.00	90.59	315.379	5,357.31	3,603.63	-6,903.77	7,414.25	0.00	0.00	0.00
12,900.00	90.59	315.379	5,356.28	3,674.80	-6,974.00	7,514.25	0.00	0.00	0.00
13,000.00	90.59	315.379	5,355.25	3,745.98	-7,044.24	7,614.24	0.00	0.00	0.00
13,100.00	90.59	315.379	5,354.22	3,817.15	-7,114.48	7,714.24	0.00	0.00	0.00
13,200.00	90.59	315.379	5,353.19	3,888.32	-7,184.72	7,814.23	0.00	0.00	0.00
13,300.00	90.59	315.379	5,352.16	3,959.49	-7,254.96	7,914.23	0.00	0.00	0.00
13,400.00	90.59	315.379	5,351.13	4,030.67	-7,325.19	8,014.22	0.00	0.00	0.00
13,500.00	90.59	315.379	5,350.10	4,101.84	-7,395.43	8,114.22	0.00	0.00	0.00
13,600.00	90.59	315.379	5,349.07	4,173.01	-7,465.67	8,214.21	0.00	0.00	0.00
13,700.00	90.59	315.379	5,348.04	4,244.18	-7,535.91	8,314.21	0.00	0.00	0.00
13,800.00	90.59	315.379	5,347.01	4,315.36	-7,606.15	8,414.20	0.00	0.00	0.00
13,900.00	90.59	315.379	5,345.98	4,386.53	-7,676.39	8,514.19	0.00	0.00	0.00
14,000.00	90.59	315.379	5,344.95	4,457.70	-7,746.62	8,614.19	0.00	0.00	0.00
14,100.00	90.59	315.379	5,343.92	4,528.87	-7,816.86	8,714.18	0.00	0.00	0.00
14,200.00	90.59	315.379	5,342.89	4,600.05	-7,887.10	8,814.18	0.00	0.00	0.00
14,300.00	90.59	315.379	5,341.86	4,671.22	-7,957.34	8,914.17	0.00	0.00	0.00
14,400.00	90.59	315.379	5,340.83	4,742.39	-8,027.58	9,014.17	0.00	0.00	0.00
14,500.00	90.59	315.379	5,339.80	4,813.57	-8,097.81	9,114.16	0.00	0.00	0.00
14,600.00	90.59	315.379	5,338.77	4,884.74	-8,168.05	9,214.16	0.00	0.00	0.00
14,700.00	90.59	315.379	5,337.74	4,955.91	-8,238.29	9,314.15	0.00	0.00	0.00
14,800.00	90.59	315.379	5,336.71	5,027.08	-8,308.53	9,414.15	0.00	0.00	0.00
14,900.00	90.59	315.379	5,335.68	5,098.26	-8,378.77	9,514.14	0.00	0.00	0.00
15,000.00	90.59	315.379	5,334.65	5,169.43	-8,449.01	9,614.14	0.00	0.00	0.00

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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)
15,100.00	90.59	315.379	5,333.61	5,240.60	-8,519.24	9,714.13	0.00	0.00	0.00
15,200.00	90.59	315.379	5,332.58	5,311.77	-8,589.48	9,814.13	0.00	0.00	0.00
15,300.00	90.59	315.379	5,331.55	5,382.95	-8,659.72	9,914.12	0.00	0.00	0.00
15,400.00	90.59	315.379	5,330.52	5,454.12	-8,729.96	10,014.11	0.00	0.00	0.00
15,500.00	90.59	315.379	5,329.49	5,525.29	-8,800.20	10,114.11	0.00	0.00	0.00
15,547.85	90.59	315.379	5,329.00	5,559.35	-8,833.81	10,161.96	0.00	0.00	0.00
PBHL/TD @ 15547.85 MD 5329.00 TVD									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
350.00	350.00	9-5/8" Surface Casing	9-5/8	12-1/4
6,268.20	5,414.85	7" Intermediate Casing	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
989.22	983.89	Ojo Alamo		-0.590	315.379
1,135.47	1,123.81	Kirtland		-0.590	315.379
1,463.98	1,423.57	Fruitland		-0.590	315.379
1,831.72	1,743.24	Pictured Cliffs		-0.590	315.379
1,912.19	1,813.17	Lewis		-0.590	315.379
2,268.52	2,122.85	Chacra_A		-0.590	315.379
3,532.94	3,221.72	Cliff House_Basal		-0.590	315.379
3,578.92	3,261.67	Menefee		-0.590	315.379
4,578.95	4,130.78	Point Lookout		-0.590	315.379
4,845.63	4,362.54	Mancos		-0.590	315.379
5,268.63	4,730.16	MNCS_A		-0.590	315.379
5,362.89	4,812.08	MNCS_B		-0.590	315.379
5,510.02	4,939.94	MNCS_C		-0.590	315.379
5,579.15	4,999.82	MNCS_Cms		-0.590	315.379
5,685.26	5,089.46	MNCS_D		-0.590	315.379
5,774.80	5,161.02	MNCS_E		-0.590	315.379
5,866.44	5,228.45	MNCS_F		-0.590	315.379
5,994.25	5,309.48	MNCS_G		-0.590	315.379
6,076.17	5,351.76	MNCS_H		-0.590	315.379
6,188.81	5,395.70	MNCS_I		-0.590	315.379

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
500.00	500.00	0.00	0.00	KOP Begin 3°/100' build
1,488.30	1,444.78	-141.61	-206.09	Begin 29.65° tangent
5,490.90	4,923.33	-1,262.97	-1,837.98	Begin 10°/100' build/turn
6,168.20	5,389.00	-1,113.52	-2,248.54	Begin 10°/100' build
6,374.11	5,423.52	-969.84	-2,390.34	Begin 90.59° lateral
15,547.85	5,329.00	5,559.35	-8,833.81	PBHL/TD @ 15547.85 MD 5329.00 TVD

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project San Juan County, New Mexico NAD83 NM W

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

Site White Crow (105,106,108&114)

Site Position:		**Northing:**	1,930,236.17 usft	**Latitude:**	36.30470200
From:	Lat/Long	**Easting:**	2,760,684.10 usft	**Longitude:**	-107.70574800
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "		

Well White Crow 114H, Surf loc: 874 FNL 2408 FWL Section 20-T24N-R08W

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,930,236.17 usft	**Latitude:**	36.30470200
	+E/-W	0.00 ft	**Easting:**	2,760,684.10 usft	**Longitude:**	-107.70574800
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,700.00 ft
Grid Convergence:		0.076 °				

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/30/2024	8.449	62.744	49,029.90654030

Design rev0

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	315.379

Plan Survey Tool Program **Date** 8/30/2024

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,547.85	rev0 (Original Hole)	MWD	
				OWSG MWD - Standard	

Plan Sections

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,488.30	29.65	235.505	1,444.78	-141.61	-206.09	3.00	3.00	0.00	235.505	
5,490.90	29.65	235.505	4,923.33	-1,262.97	-1,837.98	0.00	0.00	0.00	0.000	
6,168.20	70.00	315.379	5,389.00	-1,113.52	-2,248.54	10.00	5.96	11.79	91.586	
6,374.11	90.59	315.379	5,423.52	-969.84	-2,390.34	10.00	10.00	0.00	0.000	
15,547.85	90.59	315.379	5,329.00	5,559.35	-8,833.81	0.00	0.00	0.00	0.000	White Crow 114H BHl

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,930,236.17	2,760,684.10	36.30470200	-107.70574800
100.00	0.00	0.000	100.00	0.00	0.00	1,930,236.17	2,760,684.10	36.30470200	-107.70574800
200.00	0.00	0.000	200.00	0.00	0.00	1,930,236.17	2,760,684.10	36.30470200	-107.70574800
300.00	0.00	0.000	300.00	0.00	0.00	1,930,236.17	2,760,684.10	36.30470200	-107.70574800
350.00	0.00	0.000	350.00	0.00	0.00	1,930,236.17	2,760,684.10	36.30470200	-107.70574800
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	1,930,236.17	2,760,684.10	36.30470200	-107.70574800
500.00	0.00	0.000	500.00	0.00	0.00	1,930,236.17	2,760,684.10	36.30470200	-107.70574800
KOP Begin 3°/100' build									
600.00	3.00	235.505	599.95	-1.48	-2.16	1,930,234.69	2,760,681.95	36.30469794	-107.70575533
700.00	6.00	235.505	699.63	-5.93	-8.62	1,930,230.24	2,760,675.48	36.30468576	-107.70577730
800.00	9.00	235.505	798.77	-13.32	-19.38	1,930,222.85	2,760,664.72	36.30466549	-107.70581384
900.00	12.00	235.505	897.08	-23.64	-34.40	1,930,212.53	2,760,649.71	36.30463720	-107.70586485
989.22	14.68	235.505	983.89	-35.29	-51.36	1,930,200.88	2,760,632.74	36.30460524	-107.70592247
Ojo Alamo									
1,000.00	15.00	235.505	994.31	-36.86	-53.63	1,930,199.31	2,760,630.47	36.30460095	-107.70593020
1,100.00	18.00	235.505	1,090.18	-52.94	-77.04	1,930,183.23	2,760,607.06	36.30455686	-107.70600971
1,135.47	19.06	235.505	1,123.81	-59.32	-86.33	1,930,176.85	2,760,597.77	36.30453935	-107.70604127
Kirtland									
1,200.00	21.00	235.505	1,184.43	-71.84	-104.55	1,930,164.33	2,760,579.56	36.30450503	-107.70610315
1,300.00	24.00	235.505	1,276.81	-93.51	-136.08	1,930,142.66	2,760,548.02	36.30444561	-107.70621028
1,400.00	27.00	235.505	1,367.06	-117.89	-171.56	1,930,118.28	2,760,512.54	36.30437877	-107.70633079
1,463.98	28.92	235.505	1,423.57	-134.88	-196.28	1,930,101.29	2,760,487.82	36.30433220	-107.70641477
Fruitland									
1,488.30	29.65	235.505	1,444.78	-141.61	-206.09	1,930,094.55	2,760,478.02	36.30431372	-107.70644808
Begin 29.65° tangent									
1,500.00	29.65	235.505	1,454.95	-144.89	-210.86	1,930,091.28	2,760,473.25	36.30430474	-107.70646428
1,600.00	29.65	235.505	1,541.85	-172.91	-251.63	1,930,063.26	2,760,432.47	36.30422792	-107.70660278
1,700.00	29.65	235.505	1,628.76	-200.92	-292.40	1,930,035.25	2,760,391.70	36.30415111	-107.70674127
1,800.00	29.65	235.505	1,715.67	-228.94	-333.17	1,930,007.23	2,760,350.93	36.30407430	-107.70687977
1,831.72	29.65	235.505	1,743.24	-237.83	-346.10	1,929,998.34	2,760,338.00	36.30404993	-107.70692370
Pictured Cliffs									
1,900.00	29.65	235.505	1,802.58	-256.95	-373.94	1,929,979.21	2,760,310.16	36.30399748	-107.70701826
1,912.19	29.65	235.505	1,813.17	-260.37	-378.91	1,929,975.80	2,760,305.19	36.30398812	-107.70703514
Lewis									
2,000.00	29.65	235.505	1,889.48	-284.97	-414.71	1,929,951.20	2,760,269.39	36.30392067	-107.70715676
2,100.00	29.65	235.505	1,976.39	-312.99	-455.48	1,929,923.18	2,760,228.62	36.30384385	-107.70729525
2,200.00	29.65	235.505	2,063.30	-341.00	-496.25	1,929,895.17	2,760,187.85	36.30376704	-107.70743374
2,268.52	29.65	235.505	2,122.85	-360.20	-524.19	1,929,875.97	2,760,159.91	36.30371440	-107.70752864
Chacra_A									
2,300.00	29.65	235.505	2,150.21	-369.02	-537.02	1,929,867.15	2,760,147.08	36.30369022	-107.70757224
2,400.00	29.65	235.505	2,237.11	-397.03	-577.80	1,929,839.14	2,760,106.31	36.30361341	-107.70771073
2,500.00	29.65	235.505	2,324.02	-425.05	-618.57	1,929,811.12	2,760,065.54	36.30353659	-107.70784922
2,600.00	29.65	235.505	2,410.93	-453.07	-659.34	1,929,783.10	2,760,024.77	36.30345978	-107.70798772
2,700.00	29.65	235.505	2,497.83	-481.08	-700.11	1,929,755.09	2,759,984.00	36.30338296	-107.70812621
2,800.00	29.65	235.505	2,584.74	-509.10	-740.88	1,929,727.07	2,759,943.23	36.30330615	-107.70826470
2,900.00	29.65	235.505	2,671.65	-537.11	-781.65	1,929,699.06	2,759,902.46	36.30322933	-107.70840319
3,000.00	29.65	235.505	2,758.56	-565.13	-822.42	1,929,671.04	2,759,861.68	36.30315251	-107.70854169
3,100.00	29.65	235.505	2,845.46	-593.14	-863.19	1,929,643.03	2,759,820.91	36.30307570	-107.70868018
3,200.00	29.65	235.505	2,932.37	-621.16	-903.96	1,929,615.01	2,759,780.14	36.30299888	-107.70881867
3,300.00	29.65	235.505	3,019.28	-649.18	-944.73	1,929,586.99	2,759,739.37	36.30292207	-107.70895716
3,400.00	29.65	235.505	3,106.18	-677.19	-985.50	1,929,558.98	2,759,698.60	36.30284525	-107.70909565
3,500.00	29.65	235.505	3,193.09	-705.21	-1,026.27	1,929,530.96	2,759,657.83	36.30276843	-107.70923414

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,532.94	29.65	235.505	3,221.72	-714.43	-1,039.70	1,929,521.73	2,759,644.40	36.30274313	-107.70927976
Cliff House_Basal									
3,578.92	29.65	235.505	3,261.67	-727.32	-1,058.45	1,929,508.85	2,759,625.66	36.30270781	-107.70934343
Menefee									
3,600.00	29.65	235.505	3,280.00	-733.22	-1,067.04	1,929,502.95	2,759,617.06	36.30269162	-107.70937263
3,700.00	29.65	235.505	3,366.91	-761.24	-1,107.82	1,929,474.93	2,759,576.29	36.30261480	-107.70951112
3,800.00	29.65	235.505	3,453.81	-789.25	-1,148.59	1,929,446.92	2,759,535.52	36.30253798	-107.70964961
3,900.00	29.65	235.505	3,540.72	-817.27	-1,189.36	1,929,418.90	2,759,494.75	36.30246116	-107.70978810
4,000.00	29.65	235.505	3,627.63	-845.29	-1,230.13	1,929,390.88	2,759,453.98	36.30238435	-107.70992659
4,100.00	29.65	235.505	3,714.53	-873.30	-1,270.90	1,929,362.87	2,759,413.21	36.30230753	-107.71006508
4,200.00	29.65	235.505	3,801.44	-901.32	-1,311.67	1,929,334.85	2,759,372.44	36.30223071	-107.71020357
4,300.00	29.65	235.505	3,888.35	-929.33	-1,352.44	1,929,306.84	2,759,331.67	36.30215389	-107.71034205
4,400.00	29.65	235.505	3,975.26	-957.35	-1,393.21	1,929,278.82	2,759,290.89	36.30207707	-107.71048054
4,500.00	29.65	235.505	4,062.16	-985.36	-1,433.98	1,929,250.81	2,759,250.12	36.30200026	-107.71061903
4,578.95	29.65	235.505	4,130.78	-1,007.48	-1,466.17	1,929,228.69	2,759,217.93	36.30193960	-107.71072837
Point Lookout									
4,600.00	29.65	235.505	4,149.07	-1,013.38	-1,474.75	1,929,222.79	2,759,209.35	36.30192344	-107.71075752
4,700.00	29.65	235.505	4,235.98	-1,041.40	-1,515.52	1,929,194.77	2,759,168.58	36.30184662	-107.71089600
4,800.00	29.65	235.505	4,322.88	-1,069.41	-1,556.29	1,929,166.76	2,759,127.81	36.30176980	-107.71103449
4,845.63	29.65	235.505	4,362.54	-1,082.20	-1,574.90	1,929,153.97	2,759,109.21	36.30173475	-107.71109768
Mancos									
4,900.00	29.65	235.505	4,409.79	-1,097.43	-1,597.06	1,929,138.74	2,759,087.04	36.30169298	-107.71117298
5,000.00	29.65	235.505	4,496.70	-1,125.44	-1,637.84	1,929,110.73	2,759,046.27	36.30161616	-107.71131146
5,100.00	29.65	235.505	4,583.61	-1,153.46	-1,678.61	1,929,082.71	2,759,005.50	36.30153934	-107.71144995
5,200.00	29.65	235.505	4,670.51	-1,181.48	-1,719.38	1,929,054.70	2,758,964.73	36.30146252	-107.71158844
5,268.63	29.65	235.505	4,730.16	-1,200.70	-1,747.36	1,929,035.47	2,758,936.75	36.30140980	-107.71168348
MNCS_A									
5,300.00	29.65	235.505	4,757.42	-1,209.49	-1,760.15	1,929,026.68	2,758,923.96	36.30138570	-107.71172692
5,362.89	29.65	235.505	4,812.08	-1,227.11	-1,785.79	1,929,009.06	2,758,898.32	36.30133739	-107.71181402
MNCS_B									
5,400.00	29.65	235.505	4,844.33	-1,237.51	-1,800.92	1,928,998.66	2,758,883.19	36.30130888	-107.71186541
5,490.90	29.65	235.505	4,923.33	-1,262.97	-1,837.98	1,928,973.20	2,758,846.13	36.30123905	-107.71199129
Begin 10°/100' build/turn									
5,500.00	29.64	237.344	4,931.24	-1,265.46	-1,841.73	1,928,970.71	2,758,842.38	36.30123223	-107.71200403
5,510.02	29.65	239.369	4,939.94	-1,268.06	-1,845.95	1,928,968.11	2,758,838.16	36.30122510	-107.71201835
MNCS_C									
5,550.00	30.02	247.377	4,974.64	-1,276.95	-1,863.70	1,928,959.22	2,758,820.41	36.30120074	-107.71207862
5,579.15	30.58	253.047	4,999.82	-1,281.92	-1,877.52	1,928,954.25	2,758,806.58	36.30118714	-107.71212558
MNCS_Cms									
5,600.00	31.13	256.968	5,017.71	-1,284.68	-1,887.85	1,928,951.49	2,758,796.26	36.30117959	-107.71216063
5,650.00	32.91	265.793	5,060.13	-1,288.60	-1,914.00	1,928,947.58	2,758,770.10	36.30116893	-107.71224941
5,685.26	34.50	271.464	5,089.46	-1,289.04	-1,933.54	1,928,947.13	2,758,750.56	36.30116777	-107.71231572
MNCS_D									
5,700.00	35.24	273.695	5,101.56	-1,288.66	-1,941.96	1,928,947.51	2,758,742.14	36.30116884	-107.71234430
5,750.00	38.03	280.658	5,141.70	-1,284.88	-1,971.51	1,928,951.29	2,758,712.59	36.30117933	-107.71244457
5,774.80	39.55	283.784	5,161.02	-1,281.59	-1,986.69	1,928,954.58	2,758,697.42	36.30118843	-107.71249605
MNCS_E									
5,800.00	41.18	286.758	5,180.23	-1,277.28	-2,002.43	1,928,958.89	2,758,681.68	36.30120031	-107.71254946
5,850.00	44.61	292.106	5,216.87	-1,265.92	-2,034.48	1,928,970.25	2,758,649.63	36.30123162	-107.71265817
5,866.44	45.79	293.721	5,228.45	-1,261.38	-2,045.22	1,928,974.79	2,758,638.89	36.30124414	-107.71269461
MNCS_F									
5,900.00	48.26	296.824	5,251.33	-1,250.89	-2,067.41	1,928,985.28	2,758,616.70	36.30127304	-107.71276987
5,950.00	52.08	301.023	5,283.36	-1,232.29	-2,100.98	1,929,003.88	2,758,583.13	36.30132423	-107.71288372

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,994.25	55.58	304.384	5,309.48	-1,212.98	-2,131.02	1,929,023.19	2,758,553.09	36.30137739	-107.71298558
MNCS_G									
6,000.00	56.04	304.799	5,312.71	-1,210.28	-2,134.93	1,929,025.89	2,758,549.18	36.30138482	-107.71299885
6,050.00	60.10	308.236	5,339.15	-1,185.02	-2,169.00	1,929,051.15	2,758,515.10	36.30145433	-107.71311437
6,076.17	62.26	309.922	5,351.76	-1,170.57	-2,186.80	1,929,065.61	2,758,497.31	36.30149410	-107.71317470
MNCS_H									
6,100.00	64.25	311.400	5,362.49	-1,156.70	-2,202.94	1,929,079.47	2,758,481.17	36.30153225	-107.71322942
6,150.00	68.46	314.349	5,382.54	-1,125.53	-2,236.48	1,929,110.64	2,758,447.63	36.30161798	-107.71334312
6,168.20	70.00	315.379	5,389.00	-1,113.52	-2,248.54	1,929,122.65	2,758,435.57	36.30165100	-107.71338400
Begin 10°/100' build									
6,188.81	72.06	315.379	5,395.70	-1,099.66	-2,262.23	1,929,136.51	2,758,421.88	36.30168914	-107.71343039
MNCS_I									
6,200.00	73.18	315.379	5,399.04	-1,092.05	-2,269.73	1,929,144.12	2,758,414.38	36.30171005	-107.71345582
6,250.00	78.18	315.379	5,411.40	-1,057.58	-2,303.75	1,929,178.59	2,758,380.36	36.30180486	-107.71357113
6,268.20	80.00	315.379	5,414.85	-1,044.86	-2,316.30	1,929,191.31	2,758,367.81	36.30183985	-107.71361368
7" Intermediate Casing									
6,300.00	83.18	315.379	5,419.50	-1,022.48	-2,338.39	1,929,213.69	2,758,345.71	36.30190142	-107.71368856
6,350.00	88.18	315.379	5,423.26	-987.00	-2,373.40	1,929,249.17	2,758,310.70	36.30199899	-107.71380723
6,374.11	90.59	315.379	5,423.52	-969.84	-2,390.34	1,929,266.33	2,758,293.77	36.30204618	-107.71386462
Begin 90.59° lateral									
6,400.00	90.59	315.379	5,423.26	-951.41	-2,408.52	1,929,284.76	2,758,275.59	36.30209687	-107.71392626
6,500.00	90.59	315.379	5,422.23	-880.24	-2,478.76	1,929,355.93	2,758,205.35	36.30229262	-107.71416434
6,600.00	90.59	315.379	5,421.20	-809.07	-2,549.00	1,929,427.10	2,758,135.11	36.30248837	-107.71440242
6,700.00	90.59	315.379	5,420.17	-737.90	-2,619.24	1,929,498.27	2,758,064.87	36.30268412	-107.71464049
6,800.00	90.59	315.379	5,419.14	-666.72	-2,689.48	1,929,569.44	2,757,994.63	36.30287987	-107.71487857
6,900.00	90.59	315.379	5,418.10	-595.55	-2,759.71	1,929,640.62	2,757,924.40	36.30307562	-107.71511665
7,000.00	90.59	315.379	5,417.07	-524.38	-2,829.95	1,929,711.79	2,757,854.16	36.30327137	-107.71535474
7,100.00	90.59	315.379	5,416.04	-453.21	-2,900.19	1,929,782.96	2,757,783.92	36.30346712	-107.71559282
7,200.00	90.59	315.379	5,415.01	-382.03	-2,970.43	1,929,854.13	2,757,713.68	36.30366287	-107.71583090
7,300.00	90.59	315.379	5,413.98	-310.86	-3,040.67	1,929,925.31	2,757,643.44	36.30385862	-107.71606899
7,400.00	90.59	315.379	5,412.95	-239.69	-3,110.90	1,929,996.48	2,757,573.21	36.30405437	-107.71630707
7,500.00	90.59	315.379	5,411.92	-168.52	-3,181.14	1,930,067.65	2,757,502.97	36.30425011	-107.71654516
7,600.00	90.59	315.379	5,410.89	-97.34	-3,251.38	1,930,138.82	2,757,432.73	36.30444586	-107.71678325
7,700.00	90.59	315.379	5,409.86	-26.17	-3,321.62	1,930,210.00	2,757,362.49	36.30464161	-107.71702134
7,800.00	90.59	315.379	5,408.83	45.00	-3,391.86	1,930,281.17	2,757,292.25	36.30483735	-107.71725943
7,900.00	90.59	315.379	5,407.80	116.17	-3,462.09	1,930,352.34	2,757,222.02	36.30503310	-107.71749752
8,000.00	90.59	315.379	5,406.77	187.35	-3,532.33	1,930,423.51	2,757,151.78	36.30522884	-107.71773562
8,100.00	90.59	315.379	5,405.74	258.52	-3,602.57	1,930,494.69	2,757,081.54	36.30542459	-107.71797371
8,200.00	90.59	315.379	5,404.71	329.69	-3,672.81	1,930,565.86	2,757,011.30	36.30562033	-107.71821181
8,300.00	90.59	315.379	5,403.68	400.86	-3,743.05	1,930,637.03	2,756,941.06	36.30581607	-107.71844991
8,400.00	90.59	315.379	5,402.65	472.04	-3,813.29	1,930,708.20	2,756,870.82	36.30601182	-107.71868800
8,500.00	90.59	315.379	5,401.62	543.21	-3,883.52	1,930,779.38	2,756,800.59	36.30620756	-107.71892610
8,600.00	90.59	315.379	5,400.59	614.38	-3,953.76	1,930,850.55	2,756,730.35	36.30640330	-107.71916420
8,700.00	90.59	315.379	5,399.56	685.55	-4,024.00	1,930,921.72	2,756,660.11	36.30659904	-107.71940231
8,800.00	90.59	315.379	5,398.53	756.73	-4,094.24	1,930,992.89	2,756,589.87	36.30679478	-107.71964041
8,900.00	90.59	315.379	5,397.50	827.90	-4,164.48	1,931,064.07	2,756,519.63	36.30699053	-107.71987851
9,000.00	90.59	315.379	5,396.47	899.07	-4,234.71	1,931,135.24	2,756,449.40	36.30718627	-107.72011662
9,100.00	90.59	315.379	5,395.44	970.25	-4,304.95	1,931,206.41	2,756,379.16	36.30738201	-107.72035473
9,200.00	90.59	315.379	5,394.41	1,041.42	-4,375.19	1,931,277.58	2,756,308.92	36.30757774	-107.72059283
9,300.00	90.59	315.379	5,393.38	1,112.59	-4,445.43	1,931,348.76	2,756,238.68	36.30777348	-107.72083094
9,400.00	90.59	315.379	5,392.35	1,183.76	-4,515.67	1,931,419.93	2,756,168.44	36.30796922	-107.72106905
9,500.00	90.59	315.379	5,391.32	1,254.94	-4,585.91	1,931,491.10	2,756,098.21	36.30816496	-107.72130716
9,600.00	90.59	315.379	5,390.28	1,326.11	-4,656.14	1,931,562.27	2,756,027.97	36.30836070	-107.72154528
9,700.00	90.59	315.379	5,389.25	1,397.28	-4,726.38	1,931,633.45	2,755,957.73	36.30855643	-107.72178339

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,800.00	90.59	315.379	5,388.22	1,468.45	-4,796.62	1,931,704.62	2,755,887.49	36.30875217	-107.72202151
9,900.00	90.59	315.379	5,387.19	1,539.63	-4,866.86	1,931,775.79	2,755,817.25	36.30894791	-107.72225962
10,000.00	90.59	315.379	5,386.16	1,610.80	-4,937.10	1,931,846.96	2,755,747.02	36.30914364	-107.72249774
10,100.00	90.59	315.379	5,385.13	1,681.97	-5,007.33	1,931,918.14	2,755,676.78	36.30933938	-107.72273586
10,200.00	90.59	315.379	5,384.10	1,753.14	-5,077.57	1,931,989.31	2,755,606.54	36.30953511	-107.72297398
10,300.00	90.59	315.379	5,383.07	1,824.32	-5,147.81	1,932,060.48	2,755,536.30	36.30973084	-107.72321210
10,400.00	90.59	315.379	5,382.04	1,895.49	-5,218.05	1,932,131.65	2,755,466.06	36.30992658	-107.72345022
10,500.00	90.59	315.379	5,381.01	1,966.66	-5,288.29	1,932,202.83	2,755,395.83	36.31012231	-107.72368834
10,600.00	90.59	315.379	5,379.98	2,037.83	-5,358.53	1,932,274.00	2,755,325.59	36.31031804	-107.72392647
10,700.00	90.59	315.379	5,378.95	2,109.01	-5,428.76	1,932,345.17	2,755,255.35	36.31051377	-107.72416459
10,800.00	90.59	315.379	5,377.92	2,180.18	-5,499.00	1,932,416.34	2,755,185.11	36.31070951	-107.72440272
10,900.00	90.59	315.379	5,376.89	2,251.35	-5,569.24	1,932,487.52	2,755,114.87	36.31090524	-107.72464085
11,000.00	90.59	315.379	5,375.86	2,322.52	-5,639.48	1,932,558.69	2,755,044.64	36.31110097	-107.72487898
11,100.00	90.59	315.379	5,374.83	2,393.70	-5,709.72	1,932,629.86	2,754,974.40	36.31129670	-107.72511711
11,200.00	90.59	315.379	5,373.80	2,464.87	-5,779.95	1,932,701.03	2,754,904.16	36.31149243	-107.72535524
11,300.00	90.59	315.379	5,372.77	2,536.04	-5,850.19	1,932,772.21	2,754,833.92	36.31168816	-107.72559337
11,400.00	90.59	315.379	5,371.74	2,607.21	-5,920.43	1,932,843.38	2,754,763.68	36.31188389	-107.72583151
11,500.00	90.59	315.379	5,370.71	2,678.39	-5,990.67	1,932,914.55	2,754,693.45	36.31207961	-107.72606964
11,600.00	90.59	315.379	5,369.68	2,749.56	-6,060.91	1,932,985.72	2,754,623.21	36.31227534	-107.72630778
11,700.00	90.59	315.379	5,368.65	2,820.73	-6,131.15	1,933,056.90	2,754,552.97	36.31247107	-107.72654592
11,800.00	90.59	315.379	5,367.62	2,891.91	-6,201.38	1,933,128.07	2,754,482.73	36.31266680	-107.72678406
11,900.00	90.59	315.379	5,366.59	2,963.08	-6,271.62	1,933,199.24	2,754,412.49	36.31286252	-107.72702220
12,000.00	90.59	315.379	5,365.56	3,034.25	-6,341.86	1,933,270.41	2,754,342.26	36.31305825	-107.72726034
12,100.00	90.59	315.379	5,364.53	3,105.42	-6,412.10	1,933,341.58	2,754,272.02	36.31325397	-107.72749848
12,200.00	90.59	315.379	5,363.50	3,176.60	-6,482.34	1,933,412.76	2,754,201.78	36.31344970	-107.72773662
12,300.00	90.59	315.379	5,362.46	3,247.77	-6,552.57	1,933,483.93	2,754,131.54	36.31364542	-107.72797477
12,400.00	90.59	315.379	5,361.43	3,318.94	-6,622.81	1,933,555.10	2,754,061.30	36.31384115	-107.72821291
12,500.00	90.59	315.379	5,360.40	3,390.11	-6,693.05	1,933,626.27	2,753,991.07	36.31403687	-107.72845106
12,600.00	90.59	315.379	5,359.37	3,461.29	-6,763.29	1,933,697.45	2,753,920.83	36.31423259	-107.72868921
12,700.00	90.59	315.379	5,358.34	3,532.46	-6,833.53	1,933,768.62	2,753,850.59	36.31442831	-107.72892736
12,800.00	90.59	315.379	5,357.31	3,603.63	-6,903.77	1,933,839.79	2,753,780.35	36.31462404	-107.72916551
12,900.00	90.59	315.379	5,356.28	3,674.80	-6,974.00	1,933,910.96	2,753,710.11	36.31481976	-107.72940366
13,000.00	90.59	315.379	5,355.25	3,745.98	-7,044.24	1,933,982.14	2,753,639.88	36.31501548	-107.72964181
13,100.00	90.59	315.379	5,354.22	3,817.15	-7,114.48	1,934,053.31	2,753,569.64	36.31521120	-107.72987997
13,200.00	90.59	315.379	5,353.19	3,888.32	-7,184.72	1,934,124.48	2,753,499.40	36.31540692	-107.73011812
13,300.00	90.59	315.379	5,352.16	3,959.49	-7,254.96	1,934,195.65	2,753,429.16	36.31560264	-107.73035628
13,400.00	90.59	315.379	5,351.13	4,030.67	-7,325.19	1,934,266.83	2,753,358.92	36.31579836	-107.73059444
13,500.00	90.59	315.379	5,350.10	4,101.84	-7,395.43	1,934,338.00	2,753,288.69	36.31599408	-107.73083260
13,600.00	90.59	315.379	5,349.07	4,173.01	-7,465.67	1,934,409.17	2,753,218.45	36.31618980	-107.73107076
13,700.00	90.59	315.379	5,348.04	4,244.18	-7,535.91	1,934,480.34	2,753,148.21	36.31638551	-107.73130892
13,800.00	90.59	315.379	5,347.01	4,315.36	-7,606.15	1,934,551.52	2,753,077.97	36.31658123	-107.73154708
13,900.00	90.59	315.379	5,345.98	4,386.53	-7,676.39	1,934,622.69	2,753,007.73	36.31677695	-107.73178524
14,000.00	90.59	315.379	5,344.95	4,457.70	-7,746.62	1,934,693.86	2,752,937.50	36.31697266	-107.73202341
14,100.00	90.59	315.379	5,343.92	4,528.87	-7,816.86	1,934,765.03	2,752,867.26	36.31716838	-107.73226158
14,200.00	90.59	315.379	5,342.89	4,600.05	-7,887.10	1,934,836.21	2,752,797.02	36.31736409	-107.73249974
14,300.00	90.59	315.379	5,341.86	4,671.22	-7,957.34	1,934,907.38	2,752,726.78	36.31755981	-107.73273791
14,400.00	90.59	315.379	5,340.83	4,742.39	-8,027.58	1,934,978.55	2,752,656.54	36.31775552	-107.73297608
14,500.00	90.59	315.379	5,339.80	4,813.57	-8,097.81	1,935,049.72	2,752,586.31	36.31795124	-107.73321425
14,600.00	90.59	315.379	5,338.77	4,884.74	-8,168.05	1,935,120.90	2,752,516.07	36.31814695	-107.73345242
14,700.00	90.59	315.379	5,337.74	4,955.91	-8,238.29	1,935,192.07	2,752,445.83	36.31834266	-107.73369060
14,800.00	90.59	315.379	5,336.71	5,027.08	-8,308.53	1,935,263.24	2,752,375.59	36.31853838	-107.73392877
14,900.00	90.59	315.379	5,335.68	5,098.26	-8,378.77	1,935,334.41	2,752,305.35	36.31873409	-107.73416695
15,000.00	90.59	315.379	5,334.65	5,169.43	-8,449.01	1,935,405.59	2,752,235.11	36.31892980	-107.73440513
15,100.00	90.59	315.379	5,333.61	5,240.60	-8,519.24	1,935,476.76	2,752,164.88	36.31912551	-107.73464330
15,200.00	90.59	315.379	5,332.58	5,311.77	-8,589.48	1,935,547.93	2,752,094.64	36.31932122	-107.73488148

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,300.00	90.59	315.379	5,331.55	5,382.95	-8,659.72	1,935,619.10	2,752,024.40	36.31951693	-107.73511966
15,400.00	90.59	315.379	5,330.52	5,454.12	-8,729.96	1,935,690.28	2,751,954.16	36.31971264	-107.73535784
15,500.00	90.59	315.379	5,329.49	5,525.29	-8,800.20	1,935,761.45	2,751,883.92	36.31990835	-107.73559603
15,547.85	90.59	315.379	5,329.00	5,559.35	-8,833.81	1,935,795.51	2,751,850.31	36.32000200	-107.73571000
PBHL/TD @ 15547.85 MD 5329.00 TVD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
White Crow 114H BHL 5 - plan hits target center - Point	0.00	0.000	5,329.00	5,559.35	-8,833.81	1,935,795.51	2,751,850.31	36.32000200	-107.73571000
White Crow 114H vs=0 - plan misses target center by 558.86ft at 5757.51ft MD (5147.59 TVD, -1283.98 N, -1976.08 E) - Point	0.00	0.000	5,434.00	-1,673.56	-1,695.86	1,928,562.61	2,758,988.25	36.30011066	-107.71151073
White Crow 114H POE 1 - plan misses target center by 42.48ft at 6182.83ft MD (5393.83 TVD, -1103.70 N, -2258.24 E) - Point	0.00	0.000	5,434.00	-1,113.52	-2,248.54	1,929,122.65	2,758,435.57	36.30165100	-107.71338400

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
350.00	350.00	9-5/8" Surface Casing	9-5/8	12-1/4
6,268.20	5,414.85	7" Intermediate Casing	7	8-3/4

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well White Crow 114H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site:	White Crow (105,106,108&114)	**North Reference:**	Grid
Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
989.22	983.89	Ojo Alamo		-0.590	315.379
1,135.47	1,123.81	Kirtland		-0.590	315.379
1,463.98	1,423.57	Fruitland		-0.590	315.379
1,831.72	1,743.24	Pictured Cliffs		-0.590	315.379
1,912.19	1,813.17	Lewis		-0.590	315.379
2,268.52	2,122.85	Chacra_A		-0.590	315.379
3,532.94	3,221.72	Cliff House_Basal		-0.590	315.379
3,578.92	3,261.67	Menefee		-0.590	315.379
4,578.95	4,130.78	Point Lookout		-0.590	315.379
4,845.63	4,362.54	Mancos		-0.590	315.379
5,268.63	4,730.16	MNCS_A		-0.590	315.379
5,362.89	4,812.08	MNCS_B		-0.590	315.379
5,510.02	4,939.94	MNCS_C		-0.590	315.379
5,579.15	4,999.82	MNCS_Cms		-0.590	315.379
5,685.26	5,089.46	MNCS_D		-0.590	315.379
5,774.80	5,161.02	MNCS_E		-0.590	315.379
5,866.44	5,228.45	MNCS_F		-0.590	315.379
5,994.25	5,309.48	MNCS_G		-0.590	315.379
6,076.17	5,351.76	MNCS_H		-0.590	315.379
6,188.81	5,395.70	MNCS_I		-0.590	315.379

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
500.00	500.00	0.00	0.00	KOP Begin 3°/100' build
1,488.30	1,444.78	-141.61	-206.09	Begin 29.65° tangent
5,490.90	4,923.33	-1,262.97	-1,837.98	Begin 10°/100' build/turn
6,168.20	5,389.00	-1,113.52	-2,248.54	Begin 10°/100' build
6,374.11	5,423.52	-969.84	-2,390.34	Begin 90.59° lateral
15,547.85	5,329.00	5,559.35	-8,833.81	PBHL/TD @ 15547.85 MD 5329.00 TVD

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Reference rev0

Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,754.79ft	**Error Surface:**	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 8/30/2024

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	15,547.85	rev0 (Original Hole)	MWD	OWSG MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Blanco Wash Unit (510, 511 & 512)						
Blanco Wash Unit 510H - Original Hole - rev0	6,182.19	6,116.80	1,083.84	1,028.47	19.573	CC
Blanco Wash Unit 510H - Original Hole - rev0	15,400.00	15,270.09	1,100.96	647.54	2.428	ES, SF
Crow Canyon Unit (102, 103 & 104)						
Crow Canyon Unit 104H - Original Hole - rev0	6,022.21	5,874.17	84.85	34.16	1.674	Level 3<2.00, CC, ES, SF
Crow Canyon Unit (115,117&118)						
Crow Canyon Unit 115H - Original Hole - rev0	500.00	500.00	100.04	96.62	29.283	CC
Crow Canyon Unit 115H - Original Hole - rev0	600.00	599.95	100.33	96.21	24.352	ES
Crow Canyon Unit 115H - Original Hole - rev0	4,200.00	4,216.34	542.96	507.75	15.421	SF
Crow Canyon Unit 117H - Original Hole - rev0	500.00	500.00	79.99	76.58	23.416	CC
Crow Canyon Unit 117H - Original Hole - rev0	600.00	599.95	80.30	76.18	19.489	ES
Crow Canyon Unit 117H - Original Hole - rev0	900.00	897.08	93.84	87.56	14.955	SF
Crow Canyon Unit 118H - Original Hole - rev0	500.00	500.00	20.05	16.63	5.868	CC
Crow Canyon Unit 118H - Original Hole - rev0	600.00	599.95	20.48	16.36	4.971	ES
Crow Canyon Unit 118H - Original Hole - rev0	700.00	699.63	23.54	18.72	4.883	SF
White Crow (105,106,108&114)						
White Crow 105H - Original Hole - rev0	500.00	500.00	119.81	116.39	35.070	CC
White Crow 105H - Original Hole - rev0	600.00	599.95	120.10	115.98	29.150	ES
White Crow 105H - Original Hole - rev0	15,547.85	15,944.03	1,107.48	644.57	2.392	SF
White Crow 106H - Original Hole - rev0	500.00	500.00	59.95	56.53	17.548	CC
White Crow 106H - Original Hole - rev0	600.00	599.95	60.26	56.14	14.626	ES
White Crow 106H - Original Hole - rev0	800.00	798.77	66.52	60.98	12.011	SF
White Crow 108H - Original Hole - rev0	500.00	500.00	39.90	36.49	11.680	CC
White Crow 108H - Original Hole - rev0	600.00	599.95	40.24	36.12	9.767	ES
White Crow 108H - Original Hole - rev0	800.00	798.77	48.24	42.70	8.712	SF

Offset Design: Blanco Wash Unit (510, 511 & 512) - Blanco Wash Unit 510H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD **Rule Assigned:** **Offset Well Error:** 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,700.00	4,235.98	4,470.78	4,387.80	36.76	20.03	-29.887	-2,531.75	-2,386.14	1,733.18	1,693.02	40.16	43.161	
4,800.00	4,322.88	4,500.00	4,416.86	37.72	20.15	-30.237	-2,530.51	-2,383.39	1,681.90	1,640.59	41.30	40.720	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: Blanco Wash Unit (510, 511 & 512) - Blanco Wash Unit 510H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Rule Assigned:

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.00	4,409.79	4,567.04	4,483.70	38.67	20.38	-31.027	-2,528.34	-2,378.60	1,632.37	1,589.88	42.48	38.426	
5,000.00	4,496.70	4,617.67	4,534.26	39.63	20.55	-31.611	-2,527.35	-2,376.40	1,585.14	1,541.47	43.67	36.301	
5,100.00	4,583.61	4,683.42	4,600.00	40.59	20.75	-32.348	-2,526.88	-2,375.37	1,540.21	1,495.35	44.86	34.331	
5,200.00	4,670.51	4,748.43	4,665.01	41.54	20.93	-33.077	-2,526.88	-2,375.37	1,496.81	1,450.73	46.08	32.483	
5,300.00	4,757.42	4,835.34	4,751.92	42.50	21.18	-34.100	-2,526.88	-2,375.37	1,453.97	1,406.63	47.34	30.715	
5,400.00	4,844.33	5,281.26	5,160.73	43.46	22.02	-33.045	-2,421.70	-2,479.42	1,402.25	1,357.58	44.67	31.393	
5,500.00	4,931.24	5,569.41	5,318.56	44.41	22.12	-24.854	-2,253.01	-2,646.31	1,333.01	1,291.19	41.82	31.875	
5,600.00	5,017.71	5,681.38	5,344.70	45.38	22.09	-44.315	-2,175.74	-2,722.75	1,265.54	1,222.94	42.60	29.710	
5,700.00	5,101.56	5,761.34	5,350.20	46.33	22.39	-60.878	-2,119.07	-2,778.81	1,206.02	1,161.81	44.21	27.281	
5,800.00	5,180.23	5,812.51	5,350.56	47.23	22.92	-73.652	-2,082.69	-2,814.80	1,157.39	1,111.21	46.18	25.064	
5,900.00	5,251.33	5,877.48	5,351.03	48.06	23.69	-81.584	-2,036.51	-2,860.49	1,121.26	1,072.93	48.33	23.200	
6,000.00	5,312.71	5,954.27	5,351.57	48.81	24.70	-86.033	-1,981.92	-2,914.49	1,097.77	1,047.10	50.67	21.665	
6,100.00	5,362.49	6,040.55	5,352.19	49.47	25.91	-88.070	-1,920.59	-2,975.16	1,086.22	1,033.05	53.18	20.426	
6,182.19	5,393.38	6,116.80	5,352.73	49.94	27.06	-88.041	-1,866.38	-3,028.79	1,083.84	1,028.47	55.38	19.573 CC	
6,200.00	5,399.04	6,133.73	5,352.85	50.05	27.32	-87.958	-1,854.34	-3,040.70	1,084.96	1,029.10	55.86	19.424	
6,300.00	5,419.50	6,231.63	5,353.55	50.67	28.90	-86.837	-1,784.75	-3,109.55	1,085.99	1,027.27	58.72	18.493	
6,400.00	5,423.26	6,331.49	5,354.26	51.37	30.59	-86.649	-1,713.75	-3,179.78	1,086.29	1,024.55	61.74	17.596	
6,500.00	5,422.23	6,431.48	5,354.98	52.14	32.35	-86.741	-1,642.68	-3,250.09	1,086.31	1,021.40	64.91	16.736	
6,600.00	5,421.20	6,531.46	5,355.69	52.99	34.17	-86.833	-1,571.60	-3,320.41	1,086.33	1,018.10	68.24	15.920	
6,700.00	5,420.17	6,631.45	5,356.40	53.92	36.05	-86.925	-1,500.52	-3,390.72	1,086.36	1,014.66	71.70	15.151	
6,800.00	5,419.14	6,731.43	5,357.11	54.92	37.97	-87.017	-1,429.44	-3,461.04	1,086.39	1,011.11	75.28	14.431	
6,900.00	5,418.10	6,831.42	5,357.83	55.99	39.93	-87.110	-1,358.36	-3,531.35	1,086.42	1,007.46	78.96	13.759	
7,000.00	5,417.07	6,931.40	5,358.54	57.14	41.92	-87.202	-1,287.28	-3,601.67	1,086.46	1,003.72	82.74	13.132	
7,100.00	5,416.04	7,031.38	5,359.25	58.36	43.94	-87.294	-1,216.20	-3,671.99	1,086.49	999.91	86.58	12.549	
7,200.00	5,415.01	7,131.37	5,359.97	59.64	45.98	-87.386	-1,145.13	-3,742.30	1,086.53	996.03	90.50	12.006	
7,300.00	5,413.98	7,231.35	5,360.68	60.98	48.05	-87.478	-1,074.05	-3,812.62	1,086.58	992.10	94.47	11.501	
7,400.00	5,412.95	7,331.34	5,361.39	62.39	50.14	-87.570	-1,002.97	-3,882.93	1,086.62	988.12	98.50	11.032	
7,500.00	5,411.92	7,431.32	5,362.11	63.85	52.24	-87.662	-931.89	-3,953.25	1,086.67	984.10	102.57	10.594	
7,600.00	5,410.89	7,531.31	5,362.82	65.36	54.36	-87.754	-860.81	-4,023.56	1,086.72	980.03	106.69	10.186	
7,700.00	5,409.86	7,631.29	5,363.53	66.92	56.49	-87.846	-789.73	-4,093.88	1,086.78	975.94	110.84	9.805	
7,800.00	5,408.83	7,731.28	5,364.24	68.53	58.63	-87.938	-718.66	-4,164.20	1,086.83	971.81	115.02	9.449	
7,900.00	5,407.80	7,831.26	5,364.96	70.17	60.78	-88.031	-647.58	-4,234.51	1,086.89	967.66	119.24	9.115	
8,000.00	5,406.77	7,931.25	5,365.67	71.86	62.95	-88.123	-576.50	-4,304.83	1,086.96	963.48	123.48	8.803	
8,100.00	5,405.74	8,031.23	5,366.38	73.59	65.12	-88.215	-505.42	-4,375.14	1,087.02	959.28	127.74	8.510	
8,200.00	5,404.71	8,131.22	5,367.10	75.35	67.30	-88.307	-434.34	-4,445.46	1,087.09	955.07	132.02	8.234	
8,300.00	5,403.68	8,231.20	5,367.81	77.14	69.49	-88.399	-363.26	-4,515.77	1,087.16	950.84	136.32	7.975	
8,400.00	5,402.65	8,331.19	5,368.52	78.95	71.68	-88.491	-292.18	-4,586.09	1,087.23	946.59	140.64	7.730	
8,500.00	5,401.62	8,431.17	5,369.23	80.80	73.88	-88.583	-221.11	-4,656.40	1,087.31	942.33	144.98	7.500	
8,600.00	5,400.59	8,531.16	5,369.95	82.67	76.08	-88.675	-150.03	-4,726.72	1,087.39	938.06	149.33	7.282	
8,700.00	5,399.56	8,631.14	5,370.66	84.57	78.29	-88.767	-78.95	-4,797.04	1,087.47	933.78	153.69	7.076	
8,800.00	5,398.53	8,731.12	5,371.37	86.48	80.51	-88.859	-7.87	-4,867.35	1,087.56	929.49	158.07	6.880	
8,900.00	5,397.50	8,831.11	5,372.09	88.42	82.73	-88.950	63.21	-4,937.67	1,087.65	925.19	162.46	6.695	
9,000.00	5,396.47	8,931.09	5,372.80	90.37	84.95	-89.042	134.29	-5,007.98	1,087.74	920.88	166.85	6.519	
9,100.00	5,395.44	9,031.08	5,373.51	92.34	87.17	-89.134	205.36	-5,078.30	1,087.83	916.57	171.26	6.352	
9,200.00	5,394.41	9,131.06	5,374.23	94.33	89.40	-89.226	276.44	-5,148.61	1,087.93	912.25	175.68	6.193	
9,300.00	5,393.38	9,231.05	5,374.94	96.33	91.63	-89.318	347.52	-5,218.93	1,088.03	907.93	180.10	6.041	
9,400.00	5,392.35	9,331.03	5,375.65	98.34	93.87	-89.410	418.60	-5,289.25	1,088.13	903.60	184.53	5.897	
9,500.00	5,391.32	9,431.02	5,376.36	100.37	96.11	-89.502	489.68	-5,359.56	1,088.23	899.27	188.96	5.759	
9,600.00	5,390.28	9,531.00	5,377.08	102.41	98.35	-89.594	560.76	-5,429.88	1,088.34	894.93	193.41	5.627	
9,700.00	5,389.25	9,630.99	5,377.79	104.46	100.59	-89.685	631.84	-5,500.19	1,088.45	890.60	197.85	5.501	
9,800.00	5,388.22	9,730.97	5,378.50	106.53	102.83	-89.777	702.91	-5,570.51	1,088.56	886.26	202.31	5.381	
9,900.00	5,387.19	9,830.96	5,379.22	108.60	105.08	-89.869	773.99	-5,640.82	1,088.68	881.91	206.77	5.265	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: Blanco Wash Unit (510, 511 & 512) - Blanco Wash Unit 510H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,000.00	5,386.16	9,930.94	5,379.93	110.68	107.33	-89.961	845.07	-5,711.14	1,088.80	877.57	211.23	5.155	
10,100.00	5,385.13	10,030.93	5,380.64	112.77	109.58	-90.052	916.15	-5,781.45	1,088.92	873.22	215.69	5.048	
10,200.00	5,384.10	10,130.91	5,381.35	114.87	111.83	-90.144	987.23	-5,851.77	1,089.04	868.88	220.16	4.946	
10,300.00	5,383.07	10,230.90	5,382.07	116.98	114.08	-90.236	1,058.31	-5,922.09	1,089.17	864.53	224.64	4.849	
10,400.00	5,382.04	10,330.88	5,382.78	119.09	116.34	-90.327	1,129.38	-5,992.40	1,089.30	860.19	229.12	4.754	
10,500.00	5,381.01	10,430.87	5,383.49	121.21	118.59	-90.419	1,200.46	-6,062.72	1,089.43	855.84	233.60	4.664	
10,600.00	5,379.98	10,530.85	5,384.21	123.34	120.85	-90.511	1,271.54	-6,133.03	1,089.57	851.49	238.08	4.577	
10,700.00	5,378.95	10,630.83	5,384.92	125.47	123.11	-90.602	1,342.62	-6,203.35	1,089.71	847.14	242.56	4.492	
10,800.00	5,377.92	10,730.82	5,385.63	127.61	125.37	-90.694	1,413.70	-6,273.66	1,089.85	842.80	247.05	4.411	
10,900.00	5,376.89	10,830.80	5,386.35	129.76	127.63	-90.785	1,484.78	-6,343.98	1,089.99	838.45	251.54	4.333	
11,000.00	5,375.86	10,930.79	5,387.06	131.91	129.89	-90.877	1,555.86	-6,414.30	1,090.14	834.11	256.03	4.258	
11,100.00	5,374.83	11,030.77	5,387.77	134.06	132.15	-90.968	1,626.93	-6,484.61	1,090.29	829.76	260.52	4.185	
11,200.00	5,373.80	11,130.76	5,388.48	136.22	134.42	-91.060	1,698.01	-6,554.93	1,090.44	825.42	265.02	4.115	
11,300.00	5,372.77	11,230.74	5,389.20	138.38	136.68	-91.151	1,769.09	-6,625.24	1,090.59	821.08	269.51	4.047	
11,400.00	5,371.74	11,330.73	5,389.91	140.55	138.95	-91.243	1,840.17	-6,695.56	1,090.75	816.75	274.01	3.981	
11,500.00	5,370.71	11,430.71	5,390.62	142.73	141.22	-91.334	1,911.25	-6,765.87	1,090.91	812.41	278.50	3.917	
11,600.00	5,369.68	11,530.70	5,391.34	144.90	143.48	-91.425	1,982.33	-6,836.19	1,091.08	808.07	283.00	3.855	
11,700.00	5,368.65	11,630.68	5,392.05	147.08	145.75	-91.517	2,053.40	-6,906.50	1,091.24	803.74	287.50	3.796	
11,800.00	5,367.62	11,730.67	5,392.76	149.27	148.02	-91.608	2,124.48	-6,976.82	1,091.41	799.41	292.00	3.738	
11,900.00	5,366.59	11,830.65	5,393.47	151.45	150.29	-91.699	2,195.56	-7,047.14	1,091.58	795.09	296.50	3.682	
12,000.00	5,365.56	11,930.64	5,394.19	153.64	152.56	-91.791	2,266.64	-7,117.45	1,091.76	790.76	300.99	3.627	
12,100.00	5,364.53	12,030.62	5,394.90	155.84	154.83	-91.882	2,337.72	-7,187.77	1,091.93	786.44	305.49	3.574	
12,200.00	5,363.50	12,130.61	5,395.61	158.03	157.10	-91.973	2,408.80	-7,258.08	1,092.11	782.12	309.99	3.523	
12,300.00	5,362.46	12,230.59	5,396.33	160.23	159.37	-92.064	2,479.88	-7,328.40	1,092.30	777.81	314.49	3.473	
12,400.00	5,361.43	12,330.58	5,397.04	162.43	161.65	-92.155	2,550.95	-7,398.71	1,092.48	773.50	318.99	3.425	
12,500.00	5,360.40	12,430.56	5,397.75	164.63	163.92	-92.246	2,622.03	-7,469.03	1,092.67	769.19	323.48	3.378	
12,600.00	5,359.37	12,530.54	5,398.47	166.84	166.19	-92.337	2,693.11	-7,539.35	1,092.86	764.88	327.98	3.332	
12,700.00	5,358.34	12,630.53	5,399.18	169.05	168.47	-92.429	2,764.19	-7,609.66	1,093.05	760.58	332.48	3.288	
12,800.00	5,357.31	12,730.51	5,399.89	171.26	170.74	-92.520	2,835.27	-7,679.98	1,093.25	756.28	336.97	3.244	
12,900.00	5,356.28	12,830.50	5,400.60	173.47	173.02	-92.610	2,906.35	-7,750.29	1,093.45	751.98	341.46	3.202	
13,000.00	5,355.25	12,930.48	5,401.32	175.69	175.29	-92.701	2,977.43	-7,820.61	1,093.65	747.69	345.96	3.161	
13,100.00	5,354.22	13,030.47	5,402.03	177.91	177.57	-92.792	3,048.50	-7,890.92	1,093.86	743.41	350.45	3.121	
13,200.00	5,353.19	13,130.45	5,402.74	180.12	179.84	-92.883	3,119.58	-7,961.24	1,094.06	739.12	354.94	3.082	
13,300.00	5,352.16	13,230.44	5,403.46	182.35	182.12	-92.974	3,190.66	-8,031.55	1,094.27	734.85	359.43	3.044	
13,400.00	5,351.13	13,330.42	5,404.17	184.57	184.40	-93.065	3,261.74	-8,101.87	1,094.49	730.57	363.91	3.008	
13,500.00	5,350.10	13,430.41	5,404.88	186.79	186.67	-93.156	3,332.82	-8,172.19	1,094.70	726.30	368.40	2.972	
13,600.00	5,349.07	13,530.39	5,405.60	189.02	188.95	-93.246	3,403.90	-8,242.50	1,094.92	722.04	372.88	2.936	
13,700.00	5,348.04	13,630.38	5,406.31	191.25	191.23	-93.337	3,474.97	-8,312.82	1,095.14	717.78	377.36	2.902	
13,800.00	5,347.01	13,730.36	5,407.02	193.47	193.51	-93.428	3,546.05	-8,383.13	1,095.37	713.52	381.84	2.869	
13,900.00	5,345.98	13,830.35	5,407.73	195.71	195.79	-93.518	3,617.13	-8,453.45	1,095.59	709.27	386.32	2.836	
14,000.00	5,344.95	13,930.33	5,408.45	197.94	198.06	-93.609	3,688.21	-8,523.76	1,095.82	705.03	390.80	2.804	
14,100.00	5,343.92	14,030.32	5,409.16	200.17	200.34	-93.699	3,759.29	-8,594.08	1,096.05	700.79	395.27	2.773	
14,200.00	5,342.89	14,130.30	5,409.87	202.40	202.62	-93.790	3,830.37	-8,664.40	1,096.29	696.55	399.74	2.743	
14,300.00	5,341.86	14,230.29	5,410.59	204.64	204.90	-93.880	3,901.45	-8,734.71	1,096.53	692.32	404.21	2.713	
14,400.00	5,340.83	14,330.27	5,411.30	206.88	207.18	-93.971	3,972.52	-8,805.03	1,096.77	688.10	408.67	2.684	
14,500.00	5,339.80	14,430.25	5,412.01	209.12	209.46	-94.061	4,043.60	-8,875.34	1,097.01	683.88	413.13	2.655	
14,600.00	5,338.77	14,530.24	5,412.72	211.36	211.74	-94.151	4,114.68	-8,945.66	1,097.26	679.66	417.59	2.628	
14,700.00	5,337.74	14,630.22	5,413.44	213.60	214.02	-94.242	4,185.76	-9,015.97	1,097.51	675.46	422.05	2.600	
14,800.00	5,336.71	14,730.21	5,414.15	215.84	216.30	-94.332	4,256.84	-9,086.29	1,097.76	671.26	426.50	2.574	
14,900.00	5,335.68	14,830.19	5,414.86	218.08	218.58	-94.422	4,327.92	-9,156.60	1,098.01	667.06	430.95	2.548	
15,000.00	5,334.65	14,930.18	5,415.58	220.32	220.87	-94.512	4,398.99	-9,226.92	1,098.27	662.87	435.40	2.522	
15,100.00	5,333.61	15,030.16	5,416.29	222.57	223.15	-94.603	4,470.07	-9,297.24	1,098.53	658.69	439.84	2.498	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: Blanco Wash Unit (510, 511 & 512) - Blanco Wash Unit 510H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,200.00	5,332.58	15,130.15	5,417.00	224.81	225.43	-94.693	4,541.15	-9,367.55	1,098.79	654.51	444.28	2.473	
15,300.00	5,331.55	15,230.13	5,417.72	227.06	227.71	-94.783	4,612.23	-9,437.87	1,099.05	650.34	448.71	2.449	
15,400.00	5,330.52	15,270.09	5,418.00	229.31	228.62	-94.819	4,640.64	-9,465.97	1,100.96	647.54	453.42	2.428 ES, SF	
15,500.00	5,329.49	15,270.09	5,418.00	231.56	228.62	-94.819	4,640.64	-9,465.97	1,111.17	657.77	453.40	2.451	
15,547.85	5,329.00	15,270.09	5,418.00	232.63	228.62	-94.819	4,640.64	-9,465.97	1,119.19	667.86	451.33	2.480	

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: Crow Canyon Unit (102, 103 & 104) - Crow Canyon Unit 104H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
3,900.00	3,540.72	4,405.17	4,089.35	29.12	26.65	14.983	-1,475.51	-2,673.02	1,715.11	1,679.11	36.00	47.642	
4,000.00	3,627.63	4,464.38	4,141.87	30.07	27.13	16.420	-1,449.38	-2,665.00	1,641.32	1,604.17	37.15	44.182	
4,100.00	3,714.53	4,523.58	4,194.39	31.03	27.60	17.960	-1,423.26	-2,656.98	1,568.19	1,529.82	38.37	40.866	
4,200.00	3,801.44	4,582.78	4,246.90	31.98	28.08	19.609	-1,397.13	-2,648.95	1,495.83	1,456.15	39.69	37.692	
4,300.00	3,888.35	4,641.99	4,299.42	32.94	28.56	21.378	-1,371.00	-2,640.93	1,424.36	1,383.27	41.10	34.660	
4,400.00	3,975.26	4,701.19	4,351.94	33.89	29.04	23.276	-1,344.88	-2,632.90	1,353.91	1,311.29	42.62	31.766	
4,500.00	4,062.16	4,760.40	4,404.46	34.85	29.52	25.313	-1,318.75	-2,624.88	1,284.66	1,240.38	44.28	29.011	
4,600.00	4,149.07	4,819.60	4,456.98	35.80	30.00	27.499	-1,292.62	-2,616.86	1,216.80	1,170.70	46.10	26.397	
4,700.00	4,235.98	4,878.80	4,509.49	36.76	30.48	29.844	-1,266.50	-2,608.83	1,150.59	1,102.50	48.09	23.928	
4,800.00	4,322.88	4,938.01	4,562.01	37.72	30.96	32.357	-1,240.37	-2,600.81	1,086.32	1,036.04	50.27	21.608	
4,900.00	4,409.79	4,997.21	4,614.53	38.67	31.44	35.047	-1,214.24	-2,592.79	1,024.36	971.68	52.68	19.446	
5,000.00	4,496.70	5,056.42	4,667.05	39.63	31.92	37.918	-1,188.12	-2,584.76	965.15	909.83	55.32	17.447	
5,100.00	4,583.61	5,505.94	5,071.27	40.59	34.30	58.940	-1,114.19	-2,432.34	901.59	850.41	51.18	17.618	
5,200.00	4,670.51	6,166.49	5,364.45	41.54	33.45	-90.124	-1,466.86	-2,006.12	808.01	778.52	29.50	27.395	
5,300.00	4,757.42	6,157.57	5,364.52	42.50	33.46	-89.007	-1,460.46	-2,012.33	708.42	678.82	29.60	23.934	
5,400.00	4,844.33	6,148.65	5,364.59	43.46	33.48	-87.536	-1,454.05	-2,018.55	608.83	579.13	29.70	20.499	
5,500.00	4,931.24	6,139.65	5,364.65	44.41	33.50	-87.526	-1,447.60	-2,024.81	509.25	479.45	29.80	17.090	
5,600.00	5,017.71	6,102.89	5,364.19	45.38	33.57	-101.768	-1,421.22	-2,050.41	411.04	381.61	29.43	13.965	
5,700.00	5,101.56	6,044.70	5,358.73	46.33	33.70	-109.273	-1,379.66	-2,090.73	315.29	285.49	29.80	10.579	
5,800.00	5,180.23	5,988.84	5,347.99	47.23	33.84	-110.711	-1,340.34	-2,128.89	223.58	191.94	31.64	7.066	
5,900.00	5,251.33	5,934.85	5,332.59	48.06	33.98	-103.949	-1,303.22	-2,164.92	140.62	104.63	35.99	3.907	
6,000.00	5,312.71	5,885.24	5,314.33	48.81	34.11	-87.604	-1,270.57	-2,197.49	87.17	38.21	48.96	1.780	Level 3<2.00
6,022.21	5,324.82	5,874.17	5,309.76	48.95	34.13	-82.350	-1,263.60	-2,204.77	84.85	34.16	50.69	1.674	Level 3<2.00, CC, ES, SF
6,100.00	5,362.49	5,835.33	5,292.36	49.47	34.22	-61.859	-1,240.13	-2,230.34	109.04	65.32	43.72	2.494	
6,200.00	5,399.04	5,785.95	5,267.23	50.05	34.31	-40.095	-1,212.61	-2,262.71	174.75	130.03	44.72	3.907	
6,300.00	5,419.50	5,736.42	5,238.83	50.67	34.38	-28.568	-1,187.81	-2,294.81	244.79	194.78	50.01	4.895	
6,400.00	5,423.26	5,686.90	5,207.44	51.37	34.42	-23.458	-1,166.02	-2,326.28	311.53	255.94	55.59	5.604	
6,500.00	5,422.23	5,650.00	5,182.24	52.14	34.43	-22.542	-1,151.82	-2,349.19	381.48	320.09	61.39	6.214	
6,600.00	5,421.20	5,600.00	5,145.85	52.99	34.42	-21.642	-1,135.49	-2,379.31	456.25	392.47	63.77	7.154	
6,700.00	5,420.17	5,571.05	5,123.69	53.92	34.39	-21.263	-1,127.60	-2,396.18	535.06	467.86	67.21	7.962	
6,800.00	5,419.14	5,550.00	5,107.11	54.92	34.37	-21.041	-1,122.60	-2,408.15	617.19	547.12	70.08	8.807	
6,900.00	5,418.10	5,517.53	5,080.84	55.99	34.32	-20.774	-1,116.13	-2,426.10	701.69	630.21	71.48	9.817	
7,000.00	5,417.07	5,500.00	5,066.33	57.14	34.29	-20.662	-1,113.27	-2,435.50	788.40	715.21	73.20	10.771	
7,100.00	5,416.04	5,476.55	5,046.58	58.36	34.24	-20.543	-1,110.14	-2,447.75	876.77	802.52	74.25	11.808	
7,200.00	5,415.01	5,450.00	5,023.81	59.64	34.18	-20.445	-1,107.56	-2,461.15	966.70	891.73	74.97	12.894	
7,300.00	5,413.98	5,450.00	5,023.81	60.98	34.18	-20.445	-1,107.56	-2,461.15	1,057.61	981.34	76.27	13.867	
7,400.00	5,412.95	5,430.97	5,007.24	62.39	34.12	-20.396	-1,106.35	-2,470.42	1,149.56	1,072.73	76.83	14.963	
7,500.00	5,411.92	5,418.84	4,996.57	63.85	34.08	-20.373	-1,105.85	-2,476.19	1,242.39	1,164.96	77.42	16.046	
7,600.00	5,410.89	5,400.00	4,979.88	65.36	34.02	-20.349	-1,105.51	-2,484.91	1,336.02	1,258.22	77.80	17.174	
7,700.00	5,409.86	5,400.00	4,979.88	66.92	34.02	-20.349	-1,105.51	-2,484.91	1,430.12	1,351.72	78.40	18.241	
7,800.00	5,408.83	5,400.00	4,979.88	68.53	34.02	-20.349	-1,105.51	-2,484.91	1,524.98	1,446.08	78.89	19.330	
7,900.00	5,407.80	5,380.65	4,962.57	70.17	33.95	-20.337	-1,105.71	-2,493.55	1,620.01	1,540.94	79.07	20.489	
8,000.00	5,406.77	5,373.08	4,955.75	71.86	33.92	-20.336	-1,105.93	-2,496.85	1,715.60	1,636.25	79.35	21.621	

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: Crow Canyon Unit (115,117&118) - Crow Canyon Unit 115H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	139.757	-76.36	64.63	100.04				
100.00	100.00	100.00	100.00	0.27	0.27	139.757	-76.36	64.63	100.04	99.49	0.55	182.399	
200.00	200.00	200.00	200.00	0.63	0.63	139.757	-76.36	64.63	100.04	98.77	1.27	79.057	
300.00	300.00	300.00	300.00	0.99	0.99	139.757	-76.36	64.63	100.04	98.06	1.98	50.465	
400.00	400.00	400.00	400.00	1.35	1.35	139.757	-76.36	64.63	100.04	97.34	2.70	37.061	
500.00	500.00	500.00	500.00	1.71	1.71	139.757	-76.36	64.63	100.04	96.62	3.42	29.283	CC
600.00	599.95	599.95	599.95	2.05	2.07	-97.226	-76.36	64.63	100.33	96.21	4.12	24.352	ES
700.00	699.63	699.63	699.63	2.40	2.42	-101.566	-76.36	64.63	101.62	96.80	4.82	21.079	
800.00	798.77	798.77	798.77	2.76	2.78	-108.405	-76.36	64.63	105.03	99.49	5.54	18.962	
900.00	897.08	897.08	897.08	3.16	3.13	-116.958	-76.36	64.63	112.19	105.91	6.28	17.871	
1,000.00	994.31	994.31	994.31	3.60	3.48	-126.083	-76.36	64.63	124.69	117.66	7.03	17.733	
1,100.00	1,090.18	1,095.32	1,095.28	4.09	3.83	-134.486	-77.69	62.66	141.96	134.17	7.79	18.224	
1,200.00	1,184.43	1,198.07	1,197.71	4.64	4.18	-141.039	-82.09	56.11	161.54	152.99	8.54	18.909	
1,300.00	1,276.81	1,302.38	1,301.12	5.27	4.54	-146.152	-89.69	44.81	182.56	173.26	9.30	19.627	
1,400.00	1,367.06	1,408.30	1,405.20	5.98	4.94	-150.191	-100.63	28.55	204.45	194.38	10.07	20.308	
1,500.00	1,454.95	1,515.91	1,509.66	6.78	5.38	-153.463	-115.01	7.16	226.75	215.91	10.85	20.909	
1,600.00	1,541.85	1,625.99	1,614.84	7.63	5.88	-156.049	-133.10	-19.74	246.34	234.72	11.62	21.198	
1,700.00	1,628.76	1,738.55	1,720.28	8.50	6.46	-157.741	-155.07	-52.40	260.92	248.51	12.42	21.015	
1,800.00	1,715.67	1,841.04	1,814.75	9.39	7.06	-158.798	-177.25	-85.37	271.83	258.55	13.29	20.460	
1,900.00	1,802.58	1,940.35	1,906.23	10.29	7.67	-159.732	-198.82	-117.45	282.69	268.50	14.18	19.934	
2,000.00	1,889.48	2,039.66	1,997.70	11.20	8.30	-160.596	-220.39	-149.53	293.61	278.53	15.08	19.467	
2,100.00	1,976.39	2,138.96	2,089.18	12.12	8.96	-161.398	-241.96	-181.60	304.59	288.60	15.99	19.052	
2,200.00	2,063.30	2,238.27	2,180.65	13.05	9.63	-162.144	-263.54	-213.68	315.63	298.73	16.90	18.682	
2,300.00	2,150.21	2,337.58	2,272.13	13.98	10.31	-162.839	-285.11	-245.75	326.72	308.91	17.81	18.349	
2,400.00	2,237.11	2,436.89	2,363.60	14.91	11.01	-163.489	-306.68	-277.83	337.85	319.13	18.72	18.051	
2,500.00	2,324.02	2,536.19	2,455.08	15.85	11.71	-164.098	-328.25	-309.91	349.02	329.39	19.63	17.781	
2,600.00	2,410.93	2,635.50	2,546.55	16.79	12.42	-164.669	-349.83	-341.98	360.23	339.69	20.54	17.536	
2,700.00	2,497.83	2,734.81	2,638.03	17.73	13.14	-165.205	-371.40	-374.06	371.47	350.02	21.46	17.313	
2,800.00	2,584.74	2,834.12	2,729.51	18.67	13.86	-165.710	-392.97	-406.13	382.75	360.38	22.37	17.109	
2,900.00	2,671.65	2,933.42	2,820.98	19.62	14.58	-166.186	-414.55	-438.21	394.05	370.76	23.29	16.922	
3,000.00	2,758.56	3,032.73	2,912.46	20.56	15.31	-166.635	-436.12	-470.29	405.37	381.17	24.20	16.749	
3,100.00	2,845.46	3,132.04	3,003.93	21.51	16.04	-167.060	-457.69	-502.36	416.72	391.60	25.12	16.590	
3,200.00	2,932.37	3,231.35	3,095.41	22.46	16.78	-167.462	-479.26	-534.44	428.09	402.06	26.04	16.443	
3,300.00	3,019.28	3,330.66	3,186.88	23.41	17.51	-167.844	-500.84	-566.51	439.48	412.53	26.95	16.305	
3,400.00	3,106.18	3,429.96	3,278.36	24.36	18.25	-168.206	-522.41	-598.59	450.89	423.02	27.87	16.178	
3,500.00	3,193.09	3,529.27	3,369.83	25.31	19.00	-168.551	-543.98	-630.67	462.32	433.53	28.79	16.058	
3,600.00	3,280.00	3,628.58	3,461.31	26.26	19.74	-168.878	-565.56	-662.74	473.76	444.05	29.71	15.946	
3,700.00	3,366.91	3,727.89	3,552.78	27.21	20.48	-169.191	-587.13	-694.82	485.21	454.59	30.63	15.841	
3,800.00	3,453.81	3,827.19	3,644.26	28.17	21.23	-169.489	-608.70	-726.89	496.68	465.13	31.55	15.743	
3,900.00	3,540.72	3,926.50	3,735.74	29.12	21.98	-169.773	-630.27	-758.97	508.17	475.69	32.47	15.650	
4,000.00	3,627.63	4,025.81	3,827.21	30.07	22.72	-170.045	-651.85	-791.04	519.66	486.27	33.39	15.562	
4,100.00	3,714.53	4,125.12	3,918.69	31.03	23.47	-170.305	-673.42	-823.12	531.17	496.85	34.32	15.479	
4,200.00	3,801.44	4,216.34	4,002.80	31.98	24.15	-170.538	-693.12	-852.42	542.96	507.75	35.21	15.421	SF
4,300.00	3,888.35	4,300.00	4,081.01	32.94	24.75	-170.789	-709.69	-877.06	557.99	521.95	36.04	15.483	
4,400.00	3,975.26	4,369.12	4,146.55	33.89	25.19	-171.028	-721.93	-895.25	576.83	540.12	36.71	15.714	
4,500.00	4,062.16	4,443.70	4,218.11	34.85	25.63	-171.312	-733.64	-912.66	599.55	562.21	37.34	16.056	
4,600.00	4,149.07	4,516.81	4,289.01	35.80	26.03	-171.611	-743.60	-927.47	626.01	588.11	37.90	16.518	
4,700.00	4,235.98	4,600.00	4,370.44	36.76	26.44	-171.967	-753.08	-941.56	656.23	617.69	38.54	17.026	
4,800.00	4,322.88	4,657.99	4,427.61	37.72	26.68	-172.222	-758.51	-949.64	689.68	650.88	38.80	17.776	
4,900.00	4,409.79	4,725.81	4,494.80	38.67	26.95	-172.522	-763.63	-957.26	726.64	687.49	39.15	18.560	
5,000.00	4,496.70	4,800.00	4,568.62	39.63	27.21	-172.849	-767.71	-963.31	766.90	727.31	39.59	19.370	
5,100.00	4,583.61	4,855.47	4,623.98	40.59	27.37	-173.091	-769.70	-966.28	810.12	770.44	39.68	20.415	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: Crow Canyon Unit (115,117&118) - Crow Canyon Unit 115H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.00	4,670.51	4,917.20	4,685.67	41.54	27.53	-173.355	-770.87	-968.02	856.36	816.49	39.88	21.476	
5,300.00	4,757.42	4,988.96	4,757.42	42.50	27.69	-173.652	-771.04	-968.27	905.16	864.91	40.25	22.488	
5,400.00	4,844.33	5,068.46	4,836.92	43.46	27.85	-173.936	-771.23	-968.09	954.50	913.72	40.78	23.405	
5,500.00	4,931.24	5,128.12	4,896.35	44.41	27.97	-175.977	-774.75	-964.68	1,005.60	964.62	40.99	24.535	
5,600.00	5,017.71	5,183.21	4,950.50	45.38	28.06	161.518	-781.92	-957.72	1,059.44	1,018.24	41.20	25.716	
5,700.00	5,101.56	5,228.99	4,994.61	46.33	28.14	142.127	-790.70	-949.21	1,115.78	1,074.40	41.38	26.965	
5,800.00	5,180.23	5,263.24	5,026.89	47.23	28.19	126.242	-798.91	-941.26	1,174.07	1,132.55	41.52	28.276	
5,900.00	5,251.33	5,286.03	5,047.97	48.06	28.22	113.068	-805.13	-935.23	1,233.65	1,191.99	41.66	29.613	
6,000.00	5,312.71	5,300.00	5,060.71	48.81	28.24	101.960	-809.24	-931.24	1,293.52	1,251.64	41.88	30.884	
6,100.00	5,362.49	5,300.00	5,060.71	49.47	28.24	92.227	-809.24	-931.24	1,352.41	1,310.33	42.08	32.141	
6,200.00	5,399.04	5,300.00	5,060.71	50.05	28.24	84.541	-809.24	-931.24	1,409.25	1,366.64	42.61	33.072	
6,300.00	5,419.50	5,300.00	5,060.71	50.67	28.24	77.422	-809.24	-931.24	1,467.75	1,424.26	43.48	33.756	
6,400.00	5,423.26	5,277.74	5,040.34	51.37	28.21	71.179	-802.80	-937.49	1,527.30	1,483.25	44.06	34.668	
6,500.00	5,422.23	5,250.00	5,014.50	52.14	28.17	70.041	-795.57	-944.49	1,589.78	1,545.19	44.59	35.654	
6,600.00	5,421.20	5,250.00	5,014.50	52.99	28.17	70.041	-795.57	-944.49	1,655.30	1,609.56	45.75	36.185	
6,700.00	5,420.17	5,250.00	5,014.50	53.92	28.17	70.041	-795.57	-944.49	1,724.14	1,677.31	46.84	36.813	

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: Crow Canyon Unit (115,117&118) - Crow Canyon Unit 117H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	139.789	-61.09	51.64	79.99				
100.00	100.00	100.00	100.00	0.27	0.27	139.789	-61.09	51.64	79.99	79.44	0.55	145.850	
200.00	200.00	200.00	200.00	0.63	0.63	139.789	-61.09	51.64	79.99	78.73	1.27	63.215	
300.00	300.00	300.00	300.00	0.99	0.99	139.789	-61.09	51.64	79.99	78.01	1.98	40.353	
400.00	400.00	400.00	400.00	1.35	1.35	139.789	-61.09	51.64	79.99	77.29	2.70	29.635	
500.00	500.00	500.00	500.00	1.71	1.71	139.789	-61.09	51.64	79.99	76.58	3.42	23.416	CC
600.00	599.95	599.95	599.95	2.05	2.07	-97.564	-61.09	51.64	80.30	76.18	4.12	19.489	ES
700.00	699.63	699.63	699.63	2.40	2.42	-102.967	-61.09	51.64	81.70	76.88	4.82	16.947	
800.00	798.77	798.77	798.77	2.76	2.78	-111.338	-61.09	51.64	85.59	80.06	5.54	15.454	
900.00	897.08	897.08	897.08	3.16	3.13	-121.416	-61.09	51.64	93.84	87.56	6.27	14.955	SF
1,000.00	994.31	994.31	994.31	3.60	3.48	-131.554	-61.09	51.64	108.03	101.01	7.02	15.389	
1,100.00	1,090.18	1,096.58	1,096.54	4.09	3.84	-141.176	-60.66	49.24	126.68	118.91	7.77	16.304	
1,200.00	1,184.43	1,199.64	1,199.28	4.64	4.20	-149.808	-59.28	41.38	147.22	138.72	8.50	17.325	
1,300.00	1,276.81	1,293.66	1,292.67	5.27	4.54	-157.416	-55.30	31.41	172.53	163.31	9.21	18.724	
1,400.00	1,367.06	1,383.79	1,381.87	5.98	4.88	-164.496	-47.28	21.32	205.93	196.02	9.92	20.766	
1,500.00	1,454.95	1,472.31	1,469.34	6.78	5.22	-170.195	-38.14	11.26	246.86	236.23	10.63	23.226	
1,600.00	1,541.85	1,559.93	1,555.92	7.63	5.56	-174.550	-29.08	1.30	291.30	279.97	11.33	25.714	
1,700.00	1,628.76	1,647.54	1,642.49	8.50	5.90	-177.778	-20.03	-8.67	336.77	324.73	12.05	27.955	
1,800.00	1,715.67	1,735.16	1,729.07	9.39	6.25	179.747	-10.98	-18.63	382.91	370.13	12.78	29.954	
1,900.00	1,802.58	1,822.78	1,815.65	10.29	6.60	177.796	-1.93	-28.59	429.51	415.97	13.54	31.730	
2,000.00	1,889.48	1,910.39	1,902.22	11.20	6.96	176.222	7.12	-38.55	476.42	462.12	14.30	33.309	
2,100.00	1,976.39	1,998.01	1,988.80	12.12	7.32	174.928	16.17	-48.51	523.57	508.49	15.08	34.715	
2,200.00	2,063.30	2,085.63	2,075.38	13.05	7.68	173.845	25.22	-58.47	570.90	555.03	15.87	35.971	
2,300.00	2,150.21	2,173.24	2,161.95	13.98	8.04	172.926	34.27	-68.43	618.36	601.69	16.67	37.097	
2,400.00	2,237.11	2,260.86	2,248.53	14.91	8.41	172.138	43.32	-78.39	665.92	648.45	17.47	38.110	
2,500.00	2,324.02	2,348.48	2,335.11	15.85	8.77	171.454	52.38	-88.35	713.57	695.29	18.29	39.024	
2,600.00	2,410.93	2,436.09	2,421.68	16.79	9.14	170.856	61.43	-98.31	761.30	742.19	19.10	39.852	
2,700.00	2,497.83	2,523.71	2,508.26	17.73	9.51	170.327	70.48	-108.27	809.07	789.15	19.93	40.606	
2,800.00	2,584.74	2,611.33	2,594.84	18.67	9.88	169.858	79.53	-118.23	856.90	836.15	20.75	41.292	
2,900.00	2,671.65	2,698.94	2,681.41	19.62	10.25	169.437	88.58	-128.19	904.76	883.18	21.58	41.921	
3,000.00	2,758.56	2,784.54	2,766.14	20.56	10.60	169.136	96.75	-137.18	952.73	930.34	22.39	42.556	
3,100.00	2,845.46	2,869.32	2,850.49	21.51	10.93	169.104	102.41	-143.41	1,000.95	977.80	23.15	43.236	
3,200.00	2,932.37	2,953.70	2,934.74	22.46	11.24	169.307	105.55	-146.86	1,049.43	1,025.56	23.88	43.953	
3,300.00	3,019.28	3,038.25	3,019.28	23.41	11.53	169.708	106.25	-147.64	1,098.20	1,073.62	24.57	44.691	
3,400.00	3,106.18	3,125.16	3,106.18	24.36	11.81	170.148	106.25	-147.64	1,147.08	1,121.81	25.28	45.383	
3,500.00	3,193.09	3,212.07	3,193.09	25.31	12.10	170.552	106.25	-147.64	1,196.02	1,170.04	25.98	46.034	
3,600.00	3,280.00	3,298.97	3,280.00	26.26	12.39	170.925	106.25	-147.64	1,245.00	1,218.31	26.69	46.648	
3,700.00	3,366.91	3,385.88	3,366.91	27.21	12.68	171.270	106.25	-147.64	1,294.02	1,266.62	27.40	47.227	
3,800.00	3,453.81	3,472.79	3,453.81	28.17	12.98	171.589	106.25	-147.64	1,343.07	1,314.96	28.11	47.774	
3,900.00	3,540.72	3,559.69	3,540.72	29.12	13.27	171.886	106.25	-147.64	1,392.15	1,363.32	28.83	48.292	
4,000.00	3,627.63	3,646.60	3,627.63	30.07	13.56	172.163	106.25	-147.64	1,441.25	1,411.71	29.54	48.782	
4,100.00	3,714.53	3,733.51	3,714.53	31.03	13.86	172.422	106.25	-147.64	1,490.38	1,460.12	30.26	49.246	
4,200.00	3,801.44	3,820.42	3,801.44	31.98	14.15	172.664	106.25	-147.64	1,539.54	1,508.55	30.98	49.687	
4,300.00	3,888.35	3,907.32	3,888.35	32.94	14.45	172.891	106.25	-147.64	1,588.71	1,557.00	31.71	50.106	
4,400.00	3,975.26	3,994.23	3,975.26	33.89	14.75	173.105	106.25	-147.64	1,637.90	1,605.47	32.43	50.505	
4,500.00	4,062.16	4,081.14	4,062.16	34.85	15.04	173.307	106.25	-147.64	1,687.10	1,653.95	33.16	50.884	
4,600.00	4,149.07	4,168.04	4,149.07	35.80	15.34	173.497	106.25	-147.64	1,736.32	1,702.44	33.88	51.245	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: Crow Canyon Unit (115,117&118) - Crow Canyon Unit 118H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	139.628	-15.27	12.98	20.05				
100.00	100.00	100.00	100.00	0.27	0.27	139.628	-15.27	12.98	20.05	19.50	0.55	36.549	
200.00	200.00	200.00	200.00	0.63	0.63	139.628	-15.27	12.98	20.05	18.78	1.27	15.841	
300.00	300.00	300.00	300.00	0.99	0.99	139.628	-15.27	12.98	20.05	18.06	1.98	10.112	
400.00	400.00	400.00	400.00	1.35	1.35	139.628	-15.27	12.98	20.05	17.35	2.70	7.426	
500.00	500.00	500.00	500.00	1.71	1.71	139.628	-15.27	12.98	20.05	16.63	3.42	5.868	CC
600.00	599.95	599.95	599.95	2.05	2.07	-103.163	-15.27	12.98	20.48	16.36	4.12	4.971	ES
700.00	699.63	699.63	699.63	2.40	2.42	-121.971	-15.27	12.98	23.54	18.72	4.82	4.883	SF
800.00	798.77	798.77	798.77	2.76	2.78	-141.702	-15.27	12.98	32.42	26.89	5.53	5.859	
900.00	897.08	897.08	897.08	3.16	3.13	-155.035	-15.27	12.98	48.11	41.86	6.25	7.698	
1,000.00	994.31	994.31	994.31	3.60	3.48	-162.906	-15.27	12.98	70.03	63.06	6.97	10.052	
1,100.00	1,090.18	1,086.35	1,086.32	4.09	3.81	-168.085	-13.69	14.13	99.33	91.67	7.66	12.962	
1,200.00	1,184.43	1,173.49	1,173.26	4.64	4.12	-172.007	-8.90	17.61	137.87	129.55	8.33	16.560	
1,300.00	1,276.81	1,255.01	1,254.26	5.27	4.42	-174.849	-1.52	22.97	185.12	176.18	8.95	20.693	
1,400.00	1,367.06	1,330.28	1,328.64	5.98	4.69	-176.922	7.78	29.72	240.38	230.86	9.52	25.242	
1,500.00	1,454.95	1,400.00	1,397.08	6.78	4.96	-178.506	18.50	37.50	302.87	292.80	10.07	30.070	
1,600.00	1,541.85	1,462.65	1,458.14	7.63	5.21	-179.725	29.85	45.75	369.53	359.00	10.53	35.086	
1,700.00	1,628.76	1,522.75	1,516.25	8.50	5.46	179.300	42.26	54.75	438.54	427.56	10.97	39.964	
1,800.00	1,715.67	1,579.42	1,570.57	9.39	5.71	178.504	55.31	64.23	509.68	498.29	11.39	44.756	
1,900.00	1,802.58	1,632.85	1,621.34	10.29	5.96	177.838	68.80	74.02	582.79	571.00	11.79	49.446	
2,000.00	1,889.48	1,683.24	1,668.76	11.20	6.21	177.268	82.58	84.02	657.68	645.52	12.16	54.087	
2,100.00	1,976.39	1,738.19	1,720.02	12.12	6.49	176.705	98.59	95.65	734.08	721.48	12.60	58.272	
2,200.00	2,063.30	1,802.20	1,779.65	13.05	6.83	176.157	117.43	109.32	810.76	797.62	13.15	61.672	
2,300.00	2,150.21	1,866.20	1,839.27	13.98	7.18	175.704	136.26	123.00	887.48	873.77	13.71	64.754	
2,400.00	2,237.11	1,930.21	1,898.90	14.91	7.55	175.322	155.09	136.67	964.20	949.93	14.27	67.569	
2,500.00	2,324.02	1,994.22	1,958.52	15.85	7.92	174.996	173.92	150.34	1,040.95	1,026.11	14.84	70.147	
2,600.00	2,410.93	2,058.23	2,018.15	16.79	8.30	174.715	192.76	164.02	1,117.71	1,102.29	15.42	72.501	
2,700.00	2,497.83	2,122.23	2,077.78	17.73	8.68	174.470	211.59	177.69	1,194.47	1,178.47	16.00	74.670	
2,800.00	2,584.74	2,186.24	2,137.40	18.67	9.07	174.255	230.42	191.36	1,271.25	1,254.66	16.58	76.666	
2,900.00	2,671.65	2,250.25	2,197.03	19.62	9.47	174.064	249.25	205.03	1,348.03	1,330.86	17.17	78.506	
3,000.00	2,758.56	2,314.25	2,256.66	20.56	9.87	173.894	268.09	218.71	1,424.81	1,407.05	17.76	80.213	
3,100.00	2,845.46	2,378.26	2,316.28	21.51	10.27	173.741	286.92	232.38	1,501.60	1,483.24	18.36	81.793	
3,200.00	2,932.37	2,442.27	2,375.91	22.46	10.68	173.603	305.75	246.05	1,578.40	1,559.44	18.96	83.261	
3,300.00	3,019.28	2,506.28	2,435.54	23.41	11.09	173.477	324.58	259.72	1,655.20	1,635.64	19.56	84.631	
3,400.00	3,106.18	2,570.28	2,495.16	24.36	11.50	173.363	343.42	273.40	1,732.00	1,711.83	20.16	85.905	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: White Crow (105,106,108&114) - White Crow 105H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	139.623	-91.27	77.61	119.81				
100.00	100.00	100.00	100.00	0.27	0.27	139.623	-91.27	77.61	119.81	119.26	0.55	218.441	
200.00	200.00	200.00	200.00	0.63	0.63	139.623	-91.27	77.61	119.81	118.54	1.27	94.679	
300.00	300.00	300.00	300.00	0.99	0.99	139.623	-91.27	77.61	119.81	117.82	1.98	60.437	
400.00	400.00	400.00	400.00	1.35	1.35	139.623	-91.27	77.61	119.81	117.11	2.70	44.385	
500.00	500.00	500.00	500.00	1.71	1.71	139.623	-91.27	77.61	119.81	116.39	3.42	35.070	CC
600.00	599.95	599.95	599.95	2.05	2.07	-97.115	-91.27	77.61	120.10	115.98	4.12	29.150	ES
700.00	699.63	699.63	699.63	2.40	2.42	-100.745	-91.27	77.61	121.33	116.51	4.82	25.167	
800.00	798.77	798.77	798.77	2.76	2.78	-106.522	-91.27	77.61	124.43	118.90	5.54	22.464	
900.00	897.08	897.08	897.08	3.16	3.13	-113.908	-91.27	77.61	130.84	124.56	6.28	20.836	
1,000.00	994.31	994.31	994.31	3.60	3.48	-122.086	-91.27	77.61	142.08	135.04	7.04	20.184	
1,100.00	1,090.18	1,092.84	1,092.81	4.09	3.82	-129.636	-93.13	76.33	158.57	150.77	7.80	20.325	
1,200.00	1,184.43	1,192.63	1,192.30	4.64	4.15	-135.372	-99.26	72.10	178.94	170.37	8.57	20.881	
1,300.00	1,276.81	1,293.56	1,292.41	5.27	4.50	-139.545	-109.80	64.83	202.17	192.81	9.36	21.593	
1,400.00	1,367.06	1,395.64	1,392.82	5.98	4.87	-142.471	-124.88	54.43	227.56	217.37	10.19	22.325	
1,500.00	1,454.95	1,498.87	1,493.21	6.78	5.28	-144.481	-144.60	40.83	254.58	243.50	11.08	22.984	
1,600.00	1,541.85	1,604.04	1,594.02	7.63	5.74	-145.776	-169.25	23.83	280.38	268.36	12.02	23.334	
1,700.00	1,628.76	1,711.28	1,694.95	8.50	6.27	-145.945	-199.04	3.28	303.00	289.95	13.05	23.216	
1,800.00	1,715.67	1,819.94	1,794.98	9.39	6.87	-145.205	-233.94	-20.79	322.33	308.12	14.20	22.694	
1,900.00	1,802.58	1,918.36	1,884.44	10.29	7.48	-144.213	-267.73	-44.10	340.02	324.60	15.42	22.046	
2,000.00	1,889.48	2,016.62	1,973.75	11.20	8.11	-143.320	-301.46	-67.37	357.80	341.11	16.69	21.440	
2,100.00	1,976.39	2,114.88	2,063.05	12.12	8.77	-142.513	-335.20	-90.63	375.66	357.67	17.99	20.879	
2,200.00	2,063.30	2,213.14	2,152.36	13.05	9.44	-141.778	-368.93	-113.90	393.58	374.26	19.33	20.365	
2,300.00	2,150.21	2,311.40	2,241.67	13.98	10.13	-141.107	-402.66	-137.17	411.56	390.88	20.69	19.894	
2,400.00	2,237.11	2,409.66	2,330.98	14.91	10.83	-140.493	-436.39	-160.43	429.59	407.52	22.07	19.464	
2,500.00	2,324.02	2,507.93	2,420.29	15.85	11.54	-139.928	-470.13	-183.70	447.67	424.19	23.47	19.071	
2,600.00	2,410.93	2,606.19	2,509.59	16.79	12.26	-139.406	-503.86	-206.97	465.78	440.89	24.89	18.712	
2,700.00	2,497.83	2,704.45	2,598.90	17.73	12.99	-138.924	-537.59	-230.23	483.93	457.61	26.33	18.383	
2,800.00	2,584.74	2,802.71	2,688.21	18.67	13.72	-138.477	-571.33	-253.50	502.11	474.34	27.77	18.081	
2,900.00	2,671.65	2,900.97	2,777.52	19.62	14.45	-138.061	-605.06	-276.77	520.32	491.09	29.23	17.804	
3,000.00	2,758.56	2,999.23	2,866.83	20.56	15.19	-137.673	-638.79	-300.03	538.55	507.86	30.69	17.548	
3,100.00	2,845.46	3,097.49	2,956.13	21.51	15.94	-137.310	-672.52	-323.30	556.80	524.64	32.16	17.312	
3,200.00	2,932.37	3,195.75	3,045.44	22.46	16.68	-136.970	-706.26	-346.57	575.08	541.44	33.64	17.094	
3,300.00	3,019.28	3,294.01	3,134.75	23.41	17.43	-136.651	-739.99	-369.83	593.37	558.24	35.13	16.892	
3,400.00	3,106.18	3,392.27	3,224.06	24.36	18.19	-136.352	-773.72	-393.10	611.68	575.06	36.62	16.704	
3,500.00	3,193.09	3,490.53	3,313.37	25.31	18.94	-136.070	-807.45	-416.37	630.00	591.89	38.12	16.529	
3,600.00	3,280.00	3,588.79	3,402.67	26.26	19.70	-135.803	-841.19	-439.64	648.34	608.73	39.62	16.365	
3,700.00	3,366.91	3,687.05	3,491.98	27.21	20.45	-135.552	-874.92	-462.90	666.69	625.57	41.12	16.213	
3,800.00	3,453.81	3,785.31	3,581.29	28.17	21.21	-135.313	-908.65	-486.17	685.06	642.43	42.63	16.070	
3,900.00	3,540.72	3,883.57	3,670.60	29.12	21.97	-135.088	-942.39	-509.44	703.43	659.29	44.14	15.936	
4,000.00	3,627.63	3,981.84	3,759.91	30.07	22.73	-134.873	-976.12	-532.70	721.81	676.16	45.66	15.809	
4,100.00	3,714.53	4,080.10	3,849.21	31.03	23.50	-134.670	-1,009.85	-555.97	740.21	693.03	47.17	15.691	
4,200.00	3,801.44	4,176.50	3,936.84	31.98	24.24	-134.482	-1,042.92	-578.78	758.63	709.96	48.67	15.587	
4,300.00	3,888.35	4,260.01	4,013.67	32.94	24.86	-134.480	-1,069.86	-597.36	778.20	728.29	49.91	15.592	
4,400.00	3,975.26	4,342.74	4,091.12	33.89	25.42	-134.717	-1,093.79	-613.87	799.64	748.63	51.01	15.678	
4,500.00	4,062.16	4,424.39	4,168.72	34.85	25.94	-135.166	-1,114.69	-628.28	822.94	770.99	51.95	15.841	
4,600.00	4,149.07	4,500.00	4,241.48	35.80	26.38	-135.758	-1,131.58	-639.93	848.20	795.51	52.69	16.098	
4,700.00	4,235.98	4,583.41	4,322.63	36.76	26.81	-136.587	-1,147.46	-650.88	875.42	822.05	53.38	16.401	
4,800.00	4,322.88	4,660.32	4,398.13	37.72	27.16	-137.499	-1,159.50	-659.18	904.75	850.89	53.86	16.798	
4,900.00	4,409.79	4,735.25	4,472.19	38.67	27.47	-138.507	-1,168.81	-665.61	936.27	882.06	54.21	17.271	
5,000.00	4,496.70	4,800.00	4,536.51	39.63	27.71	-139.462	-1,174.93	-669.83	970.09	915.74	54.35	17.850	
5,100.00	4,583.61	4,878.61	4,614.88	40.59	27.96	-140.710	-1,179.93	-673.28	1,006.16	951.64	54.52	18.454	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: White Crow (105,106,108&114) - White Crow 105H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.00	4,670.51	6,110.95	5,397.25	41.54	29.93	174.649	-684.70	-1,162.32	1,041.75	997.30	44.45	23.435	
5,300.00	4,757.42	6,116.49	5,397.28	42.50	29.95	174.335	-680.59	-1,166.02	1,020.85	974.50	46.35	22.024	
5,400.00	4,844.33	6,121.88	5,397.32	43.46	29.97	174.029	-676.58	-1,169.62	1,009.44	961.50	47.94	21.057	
5,467.82	4,903.27	6,125.73	5,397.34	44.11	29.99	172.747	-673.71	-1,172.19	1,007.22	958.42	48.80	20.640	
5,500.00	4,931.24	6,127.18	5,397.35	44.41	29.99	172.105	-672.62	-1,173.16	1,007.82	958.68	49.14	20.510	
5,600.00	5,017.71	6,139.91	5,397.43	45.38	30.05	153.755	-663.11	-1,181.62	1,014.55	964.57	49.98	20.299	
5,700.00	5,101.56	6,164.78	5,397.58	46.33	30.17	137.093	-644.41	-1,198.01	1,027.69	977.17	50.52	20.342	
5,800.00	5,180.23	6,205.85	5,397.84	47.23	30.39	123.052	-613.27	-1,224.79	1,045.47	994.50	50.97	20.513	
5,900.00	5,251.33	6,268.61	5,398.24	48.06	30.76	111.331	-565.60	-1,265.60	1,064.94	1,013.27	51.68	20.607	
6,000.00	5,312.71	6,343.75	5,398.71	48.81	31.32	102.102	-508.52	-1,314.47	1,083.06	1,030.45	52.62	20.584	
6,100.00	5,362.49	6,455.47	5,399.41	49.47	32.37	94.646	-424.21	-1,387.76	1,096.55	1,041.51	55.04	19.923	
6,200.00	5,399.04	6,599.69	5,400.32	50.05	34.12	90.064	-319.41	-1,486.82	1,099.97	1,041.15	58.82	18.701	
6,204.79	5,400.41	6,604.29	5,400.35	50.08	34.19	89.997	-316.13	-1,490.05	1,099.97	1,041.04	58.93	18.665	
6,300.00	5,419.50	6,697.57	5,400.93	50.67	35.53	89.039	-249.74	-1,555.57	1,100.12	1,038.74	61.38	17.922	
6,400.00	5,423.26	6,797.43	5,401.56	51.37	37.08	88.870	-178.67	-1,625.71	1,100.18	1,035.77	64.41	17.081	
6,500.00	5,422.23	6,897.42	5,402.19	52.14	38.72	88.956	-107.50	-1,695.95	1,100.15	1,032.47	67.68	16.255	
6,600.00	5,421.20	6,997.41	5,402.82	52.99	40.45	89.043	-36.34	-1,766.18	1,100.12	1,029.02	71.09	15.474	
6,700.00	5,420.17	7,097.39	5,403.44	53.92	42.24	89.129	34.82	-1,836.41	1,100.09	1,025.46	74.63	14.740	
6,800.00	5,419.14	7,197.38	5,404.07	54.92	44.08	89.215	105.99	-1,906.64	1,100.06	1,021.78	78.28	14.053	
6,900.00	5,418.10	7,297.37	5,404.70	55.99	45.97	89.302	177.15	-1,976.87	1,100.04	1,018.01	82.03	13.411	
7,000.00	5,417.07	7,397.35	5,405.33	57.14	47.90	89.388	248.32	-2,047.11	1,100.02	1,014.17	85.85	12.813	
7,100.00	5,416.04	7,497.34	5,405.95	58.36	49.86	89.475	319.48	-2,117.34	1,100.00	1,010.25	89.75	12.256	
7,200.00	5,415.01	7,597.32	5,406.58	59.64	51.85	89.561	390.64	-2,187.57	1,099.99	1,006.27	93.72	11.737	
7,300.00	5,413.98	7,697.31	5,407.21	60.98	53.86	89.647	461.81	-2,257.80	1,099.97	1,002.24	97.73	11.255	
7,400.00	5,412.95	7,797.30	5,407.84	62.39	55.90	89.734	532.97	-2,328.03	1,099.96	998.16	101.80	10.805	
7,500.00	5,411.92	7,897.28	5,408.47	63.85	57.96	89.820	604.14	-2,398.27	1,099.95	994.04	105.92	10.385	
7,600.00	5,410.89	7,997.27	5,409.09	65.36	60.04	89.906	675.30	-2,468.50	1,099.95	989.88	110.07	9.994	
7,700.00	5,409.86	8,097.26	5,409.72	66.92	62.13	89.993	746.46	-2,538.73	1,099.95	985.70	114.25	9.628	
7,772.39	5,409.12	8,169.64	5,410.18	68.08	63.65	90.055	797.98	-2,589.57	1,099.94	982.66	117.29	9.378	
7,800.00	5,408.83	8,197.24	5,410.35	68.53	64.24	90.079	817.63	-2,608.96	1,099.94	981.48	118.46	9.285	
7,900.00	5,407.80	8,297.23	5,410.98	70.17	66.35	90.165	888.79	-2,679.19	1,099.95	977.24	122.70	8.964	
8,000.00	5,406.77	8,397.21	5,411.61	71.86	68.48	90.252	959.96	-2,749.43	1,099.95	972.98	126.97	8.663	
8,100.00	5,405.74	8,497.20	5,412.23	73.59	70.62	90.338	1,031.12	-2,819.66	1,099.96	968.70	131.26	8.380	
8,200.00	5,404.71	8,597.19	5,412.86	75.35	72.77	90.425	1,102.28	-2,889.89	1,099.97	964.40	135.57	8.114	
8,300.00	5,403.68	8,697.17	5,413.49	77.14	74.93	90.511	1,173.45	-2,960.12	1,099.98	960.09	139.89	7.863	
8,400.00	5,402.65	8,797.16	5,414.12	78.95	77.10	90.597	1,244.61	-3,030.35	1,099.99	955.76	144.23	7.626	
8,500.00	5,401.62	8,897.15	5,414.74	80.80	79.27	90.684	1,315.78	-3,100.59	1,100.01	951.42	148.59	7.403	
8,600.00	5,400.59	8,997.13	5,415.37	82.67	81.45	90.770	1,386.94	-3,170.82	1,100.03	947.07	152.96	7.192	
8,700.00	5,399.56	9,097.12	5,416.00	84.57	83.64	90.856	1,458.11	-3,241.05	1,100.05	942.71	157.34	6.992	
8,800.00	5,398.53	9,197.10	5,416.63	86.48	85.83	90.943	1,529.27	-3,311.28	1,100.08	938.34	161.73	6.802	
8,900.00	5,397.50	9,297.09	5,417.26	88.42	88.02	91.029	1,600.43	-3,381.51	1,100.10	933.97	166.14	6.622	
9,000.00	5,396.47	9,397.08	5,417.88	90.37	90.22	91.115	1,671.60	-3,451.75	1,100.13	929.58	170.55	6.451	
9,100.00	5,395.44	9,497.06	5,418.51	92.34	92.43	91.202	1,742.76	-3,521.98	1,100.17	925.19	174.97	6.288	
9,200.00	5,394.41	9,597.05	5,419.14	94.33	94.64	91.288	1,813.93	-3,592.21	1,100.20	920.80	179.40	6.133	
9,300.00	5,393.38	9,697.04	5,419.77	96.33	96.85	91.374	1,885.09	-3,662.44	1,100.24	916.40	183.83	5.985	
9,400.00	5,392.35	9,797.02	5,420.40	98.34	99.07	91.461	1,956.25	-3,732.67	1,100.28	912.00	188.27	5.844	
9,500.00	5,391.32	9,897.01	5,421.02	100.37	101.29	91.547	2,027.42	-3,802.91	1,100.32	907.60	192.72	5.709	
9,600.00	5,390.28	9,996.99	5,421.65	102.41	103.51	91.633	2,098.58	-3,873.14	1,100.36	903.19	197.17	5.581	
9,700.00	5,389.25	10,096.98	5,422.28	104.46	105.74	91.720	2,169.75	-3,943.37	1,100.41	898.78	201.63	5.457	
9,800.00	5,388.22	10,196.97	5,422.91	106.53	107.96	91.806	2,240.91	-4,013.60	1,100.46	894.36	206.09	5.340	
9,900.00	5,387.19	10,296.95	5,423.53	108.60	110.19	91.892	2,312.07	-4,083.83	1,100.51	889.95	210.56	5.227	
10,000.00	5,386.16	10,396.94	5,424.16	110.68	112.43	91.978	2,383.24	-4,154.07	1,100.56	885.53	215.03	5.118	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: White Crow (105,106,108&114) - White Crow 105H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.00	5,385.13	10,496.93	5,424.79	112.77	114.66	92.065	2,454.40	-4,224.30	1,100.62	881.12	219.50	5.014	
10,200.00	5,384.10	10,596.91	5,425.42	114.87	116.90	92.151	2,525.57	-4,294.53	1,100.68	876.70	223.98	4.914	
10,300.00	5,383.07	10,696.90	5,426.05	116.98	119.14	92.237	2,596.73	-4,364.76	1,100.74	872.28	228.46	4.818	
10,400.00	5,382.04	10,796.88	5,426.67	119.09	121.38	92.323	2,667.89	-4,434.99	1,100.81	867.87	232.94	4.726	
10,500.00	5,381.01	10,896.87	5,427.30	121.21	123.63	92.410	2,739.06	-4,505.23	1,100.87	863.45	237.43	4.637	
10,600.00	5,379.98	10,996.86	5,427.93	123.34	125.87	92.496	2,810.22	-4,575.46	1,100.94	859.03	241.91	4.551	
10,700.00	5,378.95	11,096.84	5,428.56	125.47	128.12	92.582	2,881.39	-4,645.69	1,101.02	854.62	246.40	4.468	
10,800.00	5,377.92	11,196.83	5,429.19	127.61	130.37	92.668	2,952.55	-4,715.92	1,101.09	850.20	250.89	4.389	
10,900.00	5,376.89	11,296.82	5,429.81	129.76	132.62	92.754	3,023.71	-4,786.15	1,101.17	845.79	255.38	4.312	
11,000.00	5,375.86	11,396.80	5,430.44	131.91	134.87	92.841	3,094.88	-4,856.39	1,101.25	841.38	259.87	4.238	
11,100.00	5,374.83	11,496.79	5,431.07	134.06	137.12	92.927	3,166.04	-4,926.62	1,101.33	836.97	264.36	4.166	
11,200.00	5,373.80	11,596.77	5,431.70	136.22	139.37	93.013	3,237.21	-4,996.85	1,101.41	832.56	268.85	4.097	
11,300.00	5,372.77	11,696.76	5,432.32	138.38	141.63	93.099	3,308.37	-5,067.08	1,101.50	828.15	273.35	4.030	
11,400.00	5,371.74	11,796.75	5,432.95	140.55	143.89	93.185	3,379.53	-5,137.31	1,101.59	823.75	277.84	3.965	
11,500.00	5,370.71	11,896.73	5,433.58	142.73	146.14	93.271	3,450.70	-5,207.55	1,101.68	819.34	282.34	3.902	
11,600.00	5,369.68	11,996.72	5,434.21	144.90	148.40	93.357	3,521.86	-5,277.78	1,101.77	814.94	286.83	3.841	
11,700.00	5,368.65	12,096.71	5,434.84	147.08	150.66	93.443	3,593.03	-5,348.01	1,101.87	810.54	291.33	3.782	
11,800.00	5,367.62	12,196.69	5,435.46	149.27	152.92	93.529	3,664.19	-5,418.24	1,101.97	806.15	295.82	3.725	
11,900.00	5,366.59	12,296.68	5,436.09	151.45	155.18	93.616	3,735.36	-5,488.47	1,102.07	801.76	300.31	3.670	
12,000.00	5,365.56	12,396.66	5,436.72	153.64	157.44	93.702	3,806.52	-5,558.71	1,102.18	797.37	304.81	3.616	
12,100.00	5,364.53	12,496.65	5,437.35	155.84	159.71	93.788	3,877.68	-5,628.94	1,102.28	792.98	309.30	3.564	
12,200.00	5,363.50	12,596.64	5,437.98	158.03	161.97	93.874	3,948.85	-5,699.17	1,102.39	788.60	313.79	3.513	
12,300.00	5,362.46	12,696.62	5,438.60	160.23	164.23	93.960	4,020.01	-5,769.40	1,102.50	784.22	318.28	3.464	
12,400.00	5,361.43	12,796.61	5,439.23	162.43	166.50	94.045	4,091.18	-5,839.63	1,102.62	779.84	322.77	3.416	
12,500.00	5,360.40	12,896.60	5,439.86	164.63	168.76	94.131	4,162.34	-5,909.87	1,102.74	775.47	327.26	3.370	
12,600.00	5,359.37	12,996.58	5,440.49	166.84	171.03	94.217	4,233.50	-5,980.10	1,102.85	771.10	331.75	3.324	
12,700.00	5,358.34	13,096.57	5,441.11	169.05	173.30	94.303	4,304.67	-6,050.33	1,102.98	766.74	336.24	3.280	
12,800.00	5,357.31	13,196.55	5,441.74	171.26	175.56	94.389	4,375.83	-6,120.56	1,103.10	762.38	340.72	3.238	
12,900.00	5,356.28	13,296.54	5,442.37	173.47	177.83	94.475	4,447.00	-6,190.79	1,103.23	758.02	345.20	3.196	
13,000.00	5,355.25	13,396.53	5,443.00	175.69	180.10	94.561	4,518.16	-6,261.03	1,103.36	753.67	349.69	3.155	
13,100.00	5,354.22	13,496.51	5,443.63	177.91	182.37	94.647	4,589.32	-6,331.26	1,103.49	749.32	354.16	3.116	
13,200.00	5,353.19	13,596.50	5,444.25	180.12	184.64	94.732	4,660.49	-6,401.49	1,103.62	744.98	358.64	3.077	
13,300.00	5,352.16	13,696.49	5,444.88	182.35	186.91	94.818	4,731.65	-6,471.72	1,103.76	740.64	363.12	3.040	
13,400.00	5,351.13	13,796.47	5,445.51	184.57	189.18	94.904	4,802.82	-6,541.95	1,103.90	736.31	367.59	3.003	
13,500.00	5,350.10	13,896.46	5,446.14	186.79	191.45	94.990	4,873.98	-6,612.19	1,104.04	731.98	372.06	2.967	
13,600.00	5,349.07	13,996.44	5,446.77	189.02	193.72	95.075	4,945.14	-6,682.42	1,104.18	727.65	376.53	2.933	
13,700.00	5,348.04	14,096.43	5,447.39	191.25	195.99	95.161	5,016.31	-6,752.65	1,104.33	723.33	380.99	2.899	
13,800.00	5,347.01	14,196.42	5,448.02	193.47	198.27	95.247	5,087.47	-6,822.88	1,104.48	719.02	385.46	2.865	
13,900.00	5,345.98	14,296.40	5,448.65	195.71	200.54	95.332	5,158.64	-6,893.11	1,104.63	714.71	389.92	2.833	
14,000.00	5,344.95	14,396.39	5,449.28	197.94	202.81	95.418	5,229.80	-6,963.35	1,104.78	710.41	394.37	2.801	
14,100.00	5,343.92	14,496.38	5,449.90	200.17	205.09	95.504	5,300.96	-7,033.58	1,104.94	706.11	398.83	2.770	
14,200.00	5,342.89	14,596.36	5,450.53	202.40	207.36	95.589	5,372.13	-7,103.81	1,105.10	701.82	403.28	2.740	
14,300.00	5,341.86	14,696.35	5,451.16	204.64	209.64	95.675	5,443.29	-7,174.04	1,105.26	697.53	407.73	2.711	
14,400.00	5,340.83	14,796.33	5,451.79	206.88	211.91	95.760	5,514.46	-7,244.27	1,105.42	693.25	412.17	2.682	
14,500.00	5,339.80	14,896.32	5,452.42	209.12	214.19	95.846	5,585.62	-7,314.51	1,105.59	688.98	416.61	2.654	
14,600.00	5,338.77	14,996.31	5,453.04	211.36	216.46	95.931	5,656.78	-7,384.74	1,105.76	684.71	421.05	2.626	
14,700.00	5,337.74	15,096.29	5,453.67	213.60	218.74	96.017	5,727.95	-7,454.97	1,105.93	680.44	425.48	2.599	
14,800.00	5,336.71	15,196.28	5,454.30	215.84	221.01	96.102	5,799.11	-7,525.20	1,106.10	676.19	429.91	2.573	
14,900.00	5,335.68	15,296.27	5,454.93	218.08	223.29	96.188	5,870.28	-7,595.43	1,106.28	671.94	434.34	2.547	
15,000.00	5,334.65	15,396.25	5,455.56	220.32	225.57	96.273	5,941.44	-7,665.67	1,106.46	667.70	438.76	2.522	
15,100.00	5,333.61	15,496.24	5,456.18	222.57	227.84	96.358	6,012.61	-7,735.90	1,106.64	663.46	443.18	2.497	
15,200.00	5,332.58	15,596.22	5,456.81	224.81	230.12	96.444	6,083.77	-7,806.13	1,106.82	659.23	447.59	2.473	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: White Crow (105,106,108&114) - White Crow 105H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,300.00	5,331.55	15,696.21	5,457.44	227.06	232.40	96.529	6,154.93	-7,876.36	1,107.01	655.01	452.00	2.449	
15,400.00	5,330.52	15,796.20	5,458.07	229.31	234.68	96.614	6,226.10	-7,946.59	1,107.19	650.79	456.40	2.426	
15,500.00	5,329.49	15,896.18	5,458.69	231.56	236.95	96.699	6,297.26	-8,016.83	1,107.38	646.59	460.80	2.403	
15,547.85	5,329.00	15,944.03	5,459.00	232.63	238.04	96.740	6,331.32	-8,050.43	1,107.48	644.57	462.90	2.392 SF	

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: White Crow (105,106,108&114) - White Crow 106H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	139.843	-45.82	38.66	59.95				
100.00	100.00	100.00	100.00	0.27	0.27	139.843	-45.82	38.66	59.95	59.40	0.55	109.301	
200.00	200.00	200.00	200.00	0.63	0.63	139.843	-45.82	38.66	59.95	58.68	1.27	47.374	
300.00	300.00	300.00	300.00	0.99	0.99	139.843	-45.82	38.66	59.95	57.97	1.98	30.241	
400.00	400.00	400.00	400.00	1.35	1.35	139.843	-45.82	38.66	59.95	57.25	2.70	22.209	
500.00	500.00	500.00	500.00	1.71	1.71	139.843	-45.82	38.66	59.95	56.53	3.42	17.548 CC	
600.00	599.95	599.95	599.95	2.05	2.07	-98.128	-45.82	38.66	60.26	56.14	4.12	14.626 ES	
700.00	699.63	699.63	699.63	2.40	2.42	-105.271	-45.82	38.66	61.86	57.04	4.82	12.832	
800.00	798.77	798.77	798.77	2.76	2.78	-115.977	-45.82	38.66	66.52	60.98	5.54	12.011 SF	
900.00	897.08	897.08	897.08	3.16	3.13	-128.000	-45.82	38.66	76.35	70.08	6.27	12.178	
1,000.00	994.31	994.31	994.31	3.60	3.48	-138.978	-45.82	38.66	92.73	85.72	7.01	13.237	
1,100.00	1,090.18	1,085.78	1,085.75	4.09	3.80	-146.835	-46.78	40.33	117.61	109.90	7.71	15.258	
1,200.00	1,184.43	1,173.82	1,173.58	4.64	4.10	-151.544	-49.77	45.50	152.06	143.67	8.38	18.137	
1,300.00	1,276.81	1,257.91	1,257.13	5.27	4.39	-154.086	-54.51	53.72	194.76	185.72	9.04	21.540	
1,400.00	1,367.06	1,338.41	1,336.64	5.98	4.68	-155.304	-60.77	64.54	244.82	235.12	9.69	25.255	
1,500.00	1,454.95	1,435.49	1,432.38	6.78	5.04	-156.215	-70.87	76.99	298.07	287.55	10.52	28.325	
1,600.00	1,541.85	1,537.43	1,532.98	7.63	5.42	-157.129	-84.70	85.85	348.93	337.56	11.37	30.686	
1,700.00	1,628.76	1,634.37	1,628.48	8.50	5.79	-157.475	-100.55	90.70	396.04	383.83	12.21	32.443	
1,800.00	1,715.67	1,722.83	1,715.61	9.39	6.13	-157.687	-115.37	94.65	442.64	429.63	13.01	34.029	
1,900.00	1,802.58	1,811.30	1,802.73	10.29	6.48	-157.859	-130.19	98.60	489.25	475.42	13.82	35.392	
2,000.00	1,889.48	1,899.76	1,889.86	11.20	6.83	-158.000	-145.01	102.55	535.86	521.21	14.65	36.572	
2,100.00	1,976.39	1,988.23	1,976.99	12.12	7.19	-158.120	-159.84	106.49	582.47	566.98	15.49	37.598	
2,200.00	2,063.30	2,076.70	2,064.11	13.05	7.56	-158.221	-174.66	110.44	629.08	612.74	16.34	38.497	
2,300.00	2,150.21	2,165.16	2,151.24	13.98	7.93	-158.309	-189.48	114.39	675.70	658.50	17.20	39.291	
2,400.00	2,237.11	2,253.63	2,238.36	14.91	8.30	-158.385	-204.31	118.33	722.32	704.26	18.06	39.996	
2,500.00	2,324.02	2,342.09	2,325.49	15.85	8.68	-158.452	-219.13	122.28	768.93	750.01	18.93	40.624	
2,600.00	2,410.93	2,430.56	2,412.61	16.79	9.06	-158.511	-233.95	126.23	815.55	795.75	19.80	41.187	
2,700.00	2,497.83	2,519.03	2,499.74	17.73	9.44	-158.564	-248.77	130.18	862.17	841.49	20.68	41.693	
2,800.00	2,584.74	2,607.49	2,586.87	18.67	9.82	-158.611	-263.60	134.12	908.79	887.23	21.56	42.151	
2,900.00	2,671.65	2,695.92	2,673.96	19.62	10.21	-158.655	-278.41	138.07	955.41	932.97	22.44	42.567	
3,000.00	2,758.56	2,783.63	2,760.69	20.56	10.57	-158.838	-290.97	141.41	1,002.07	978.77	23.30	43.016	
3,100.00	2,845.46	2,870.84	2,847.43	21.51	10.91	-159.250	-299.64	143.72	1,048.82	1,024.73	24.09	43.533	
3,200.00	2,932.37	2,957.19	2,933.63	22.46	11.22	-159.855	-304.44	145.00	1,095.73	1,070.90	24.83	44.126	
3,300.00	3,019.28	3,042.85	3,019.28	23.41	11.51	-160.620	-305.57	145.30	1,142.91	1,117.39	25.52	44.787	
3,400.00	3,106.18	3,129.76	3,106.18	24.36	11.78	-161.400	-305.57	145.30	1,190.30	1,164.11	26.19	45.450	
3,500.00	3,193.09	3,216.67	3,193.09	25.31	12.06	-162.122	-305.57	145.30	1,237.86	1,211.00	26.86	46.080	
3,600.00	3,280.00	3,303.57	3,280.00	26.26	12.33	-162.792	-305.57	145.30	1,285.56	1,258.02	27.54	46.679	
3,700.00	3,366.91	3,390.48	3,366.91	27.21	12.61	-163.414	-305.57	145.30	1,333.39	1,305.17	28.22	47.248	
3,800.00	3,453.81	3,477.39	3,453.81	28.17	12.89	-163.995	-305.57	145.30	1,381.34	1,352.43	28.91	47.789	
3,900.00	3,540.72	3,564.29	3,540.72	29.12	13.17	-164.537	-305.57	145.30	1,429.39	1,399.80	29.59	48.303	
4,000.00	3,627.63	3,651.20	3,627.63	30.07	13.45	-165.044	-305.57	145.30	1,477.53	1,447.25	30.28	48.793	
4,100.00	3,714.53	3,738.11	3,714.53	31.03	13.73	-165.520	-305.57	145.30	1,525.76	1,494.78	30.97	49.259	
4,200.00	3,801.44	3,825.02	3,801.44	31.98	14.01	-165.967	-305.57	145.30	1,574.06	1,542.39	31.67	49.703	
4,300.00	3,888.35	3,911.92	3,888.35	32.94	14.30	-166.387	-305.57	145.30	1,622.44	1,590.07	32.37	50.126	
4,400.00	3,975.26	3,998.83	3,975.26	33.89	14.59	-166.784	-305.57	145.30	1,670.88	1,637.81	33.07	50.530	
4,500.00	4,062.16	4,085.74	4,062.16	34.85	14.87	-167.159	-305.57	145.30	1,719.38	1,685.61	33.77	50.915	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Offset Design: White Crow (105,106,108&114) - White Crow 108H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

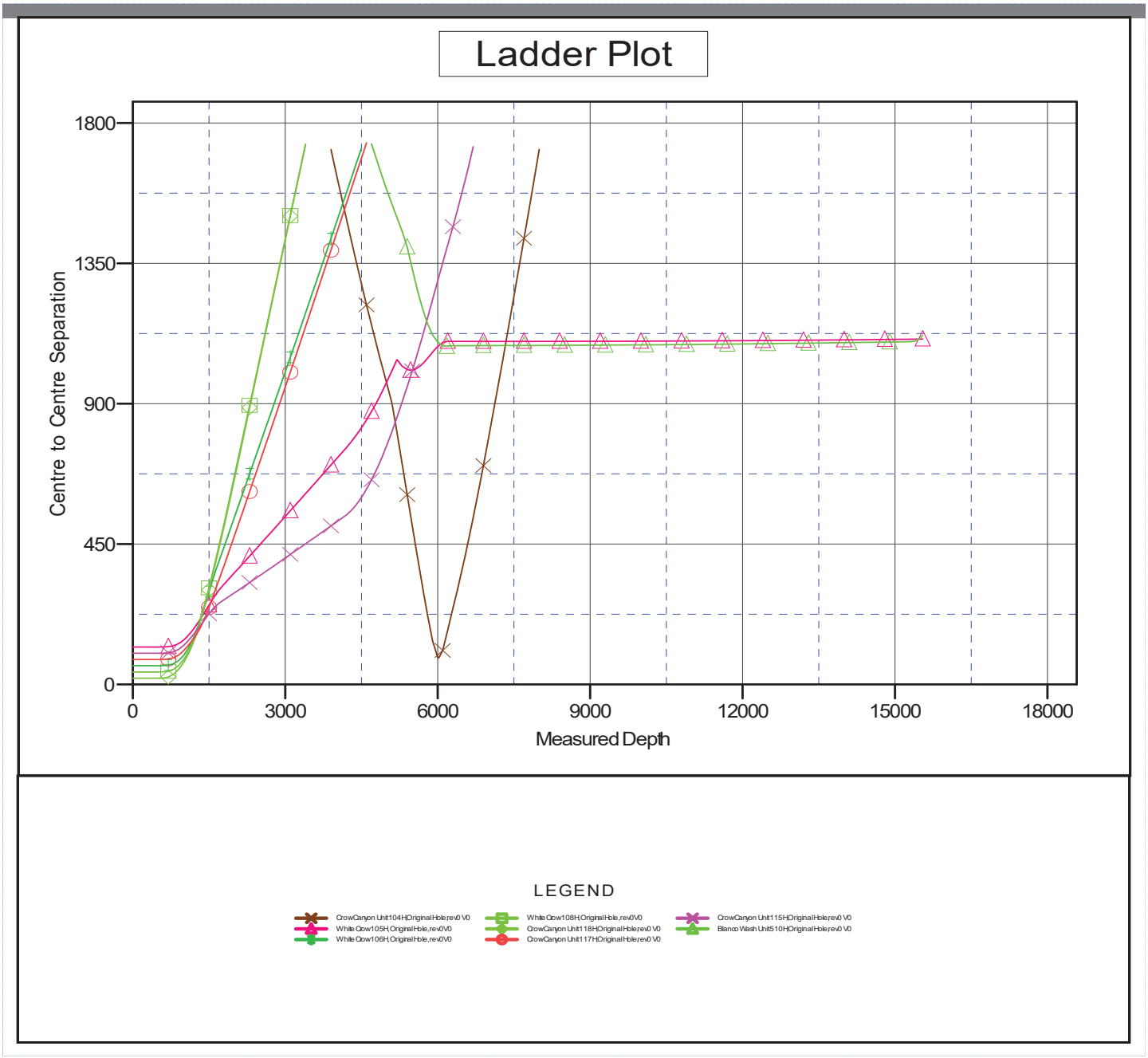
Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Rule Assigned: Distance Between Centres (ft)	Rule Assigned: Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	139.951	-30.54	25.67	39.90				
100.00	100.00	100.00	100.00	0.27	0.27	139.951	-30.54	25.67	39.90	39.35	0.55	72.752	
200.00	200.00	200.00	200.00	0.63	0.63	139.951	-30.54	25.67	39.90	38.64	1.27	31.533	
300.00	300.00	300.00	300.00	0.99	0.99	139.951	-30.54	25.67	39.90	37.92	1.98	20.129	
400.00	400.00	400.00	400.00	1.35	1.35	139.951	-30.54	25.67	39.90	37.20	2.70	14.782	
500.00	500.00	500.00	500.00	1.71	1.71	139.951	-30.54	25.67	39.90	36.49	3.42	11.680	CC
600.00	599.95	599.95	599.95	2.05	2.07	-99.254	-30.54	25.67	40.24	36.12	4.12	9.767	ES
700.00	699.63	699.63	699.63	2.40	2.42	-109.733	-30.54	25.67	42.22	37.40	4.82	8.758	
800.00	798.77	798.77	798.77	2.76	2.78	-124.248	-30.54	25.67	48.24	42.70	5.54	8.712	SF
900.00	897.08	897.08	897.08	3.16	3.13	-138.317	-30.54	25.67	60.47	54.21	6.26	9.657	
1,000.00	994.31	994.31	994.31	3.60	3.48	-149.188	-30.54	25.67	79.56	72.57	6.99	11.389	
1,100.00	1,090.18	1,085.63	1,085.61	4.09	3.80	-156.797	-29.58	27.33	107.05	99.37	7.68	13.934	
1,200.00	1,184.43	1,171.93	1,171.70	4.64	4.11	-162.091	-26.65	32.36	144.73	136.39	8.34	17.358	
1,300.00	1,276.81	1,252.52	1,251.79	5.27	4.40	-165.590	-22.15	40.08	191.71	182.76	8.95	21.421	
1,400.00	1,367.06	1,326.79	1,325.19	5.98	4.67	-167.887	-16.50	49.77	247.02	237.51	9.52	25.961	
1,500.00	1,454.95	1,400.00	1,397.08	6.78	4.95	-169.599	-9.53	61.73	309.80	299.70	10.10	30.679	
1,600.00	1,541.85	1,456.99	1,452.64	7.63	5.19	-170.853	-3.14	72.68	376.77	366.27	10.50	35.882	
1,700.00	1,628.76	1,515.97	1,509.72	8.50	5.43	-171.840	4.34	85.52	446.24	435.31	10.93	40.834	
1,800.00	1,715.67	1,571.51	1,563.02	9.39	5.68	-172.568	12.20	99.00	517.90	506.57	11.33	45.716	
1,900.00	1,802.58	1,623.82	1,612.79	10.29	5.92	-173.121	20.31	112.91	591.54	579.83	11.71	50.507	
2,000.00	1,889.48	1,676.27	1,662.24	11.20	6.18	-173.578	29.11	128.01	666.95	654.85	12.11	55.094	
2,100.00	1,976.39	1,741.17	1,723.25	12.12	6.52	-174.039	40.25	147.11	742.94	730.30	12.65	58.737	
2,200.00	2,063.30	1,806.07	1,784.27	13.05	6.87	-174.415	51.38	166.21	818.95	805.75	13.20	62.054	
2,300.00	2,150.21	1,870.97	1,845.29	13.98	7.23	-174.728	62.52	185.32	894.97	881.22	13.75	65.072	
2,400.00	2,237.11	1,935.86	1,906.30	14.91	7.60	-174.991	73.65	204.42	971.00	956.69	14.31	67.831	
2,500.00	2,324.02	2,000.76	1,967.32	15.85	7.97	-175.217	84.79	223.52	1,047.04	1,032.16	14.88	70.364	
2,600.00	2,410.93	2,065.66	2,028.33	16.79	8.35	-175.411	95.93	242.63	1,123.08	1,107.63	15.45	72.683	
2,700.00	2,497.83	2,130.56	2,089.35	17.73	8.74	-175.582	107.06	261.73	1,199.13	1,183.10	16.03	74.822	
2,800.00	2,584.74	2,195.46	2,150.36	18.67	9.13	-175.731	118.20	280.83	1,275.18	1,258.57	16.60	76.798	
2,900.00	2,671.65	2,260.36	2,211.38	19.62	9.53	-175.864	129.34	299.94	1,351.23	1,334.05	17.19	78.623	
3,000.00	2,758.56	2,325.26	2,272.39	20.56	9.93	-175.983	140.47	319.04	1,427.29	1,409.52	17.77	80.319	
3,100.00	2,845.46	2,390.15	2,333.41	21.51	10.33	-176.090	151.61	338.14	1,503.35	1,484.99	18.36	81.895	
3,200.00	2,932.37	2,455.05	2,394.42	22.46	10.74	-176.187	162.74	357.24	1,579.41	1,560.46	18.95	83.361	
3,300.00	3,019.28	2,519.95	2,455.44	23.41	11.15	-176.274	173.88	376.35	1,655.47	1,635.93	19.54	84.730	
3,400.00	3,106.18	2,584.85	2,516.45	24.36	11.56	-176.354	185.02	395.45	1,731.54	1,711.40	20.13	86.008	

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

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well White Crow 114H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6700+23.5 @ 6723.50ft
Reference Site:	White Crow (105,106,108&114)	**MD Reference:**	RKB=6700+23.5 @ 6723.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Original Hole	**Database:**	DT_Jul1724_v17
Reference Design:	rev0	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to RKB=6700+23.5 @ 6723.50ft
Offset Depths are relative to Offset Datum
Central Meridian is -107.83333333
Coordinates are relative to: White Crow 114H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.076°



Anticollision Report

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Reference Well:	White Crow 114H	**Survey Calculation Method:**	Minimum Curvature
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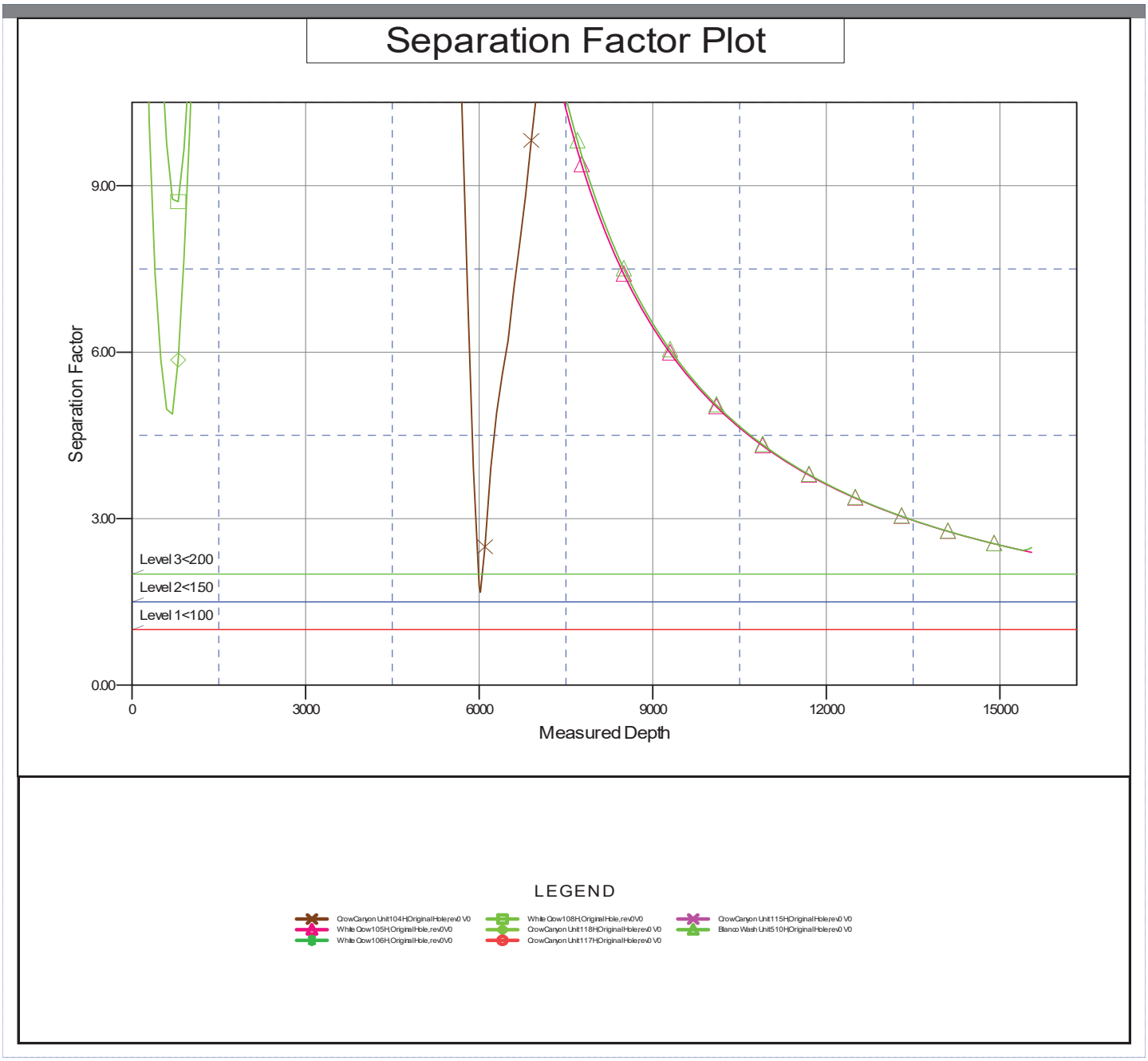

United States Department of the Interior

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

#114H WHITE CROW

Lease: NMNM83507 Agreement: TBD

SH: NE¼NW¼ Section 20, T. 24N., R. 8W.
San Juan County, New Mexico
BH: NE¼NE¼ Section 13, T. 24N., R. 9W.
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 all casing strings below the conductor 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. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

D. ☐ 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.

E. ☐ 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.

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. Unless drilling operations are commenced within three years according to 43 CFR 3171.14, approval of the Application for Permit to Drill will expire. No extensions will be granted.

L. 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.

M. 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.

N. **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 5th 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.

VII. PHONE NUMBERS

A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.

B. Emergency program changes after hours contact:

Virgil Lucero (505) 793-1836
Dustin Porch (505) 386-9876
Kenneth Rennick (505) 564-7742
Matthew Kade (505) 564-7736

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

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 426590
	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.	1/30/2025
scrues76	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/30/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	5/1/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	5/1/2025
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.	5/1/2025
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.	5/1/2025
ward.rikala	DHC must be approved prior to commingling production.	5/1/2025