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.
30-045-38438

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: 01/27/2025

Additional Operator Remarks

Location of Well

0. SHL: SESE / 677 FSL / 1075 FEL / TWSP: 23N / RANGE: 10W / SECTION: 1 / LAT: 36.250575 / LONG: -107.842775 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 10W / SECTION: 12 / LAT: 36.247436 / LONG: -107.847119 (TVD: 4779 feet, MD: 5269 feet)

PPP: LOT 3 / 0 FSL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 7 / LAT: 36.240941 / LONG: -107.839099 (TVD: 4936 feet, MD: 11860 feet)

BHL: SESW / 234 FSL / 2221 FWL / TWSP: 23N / RANGE: 9W / SECTION: 7 / LAT: 36.234825 / LONG: -107.831549 (TVD: 4936 feet, MD: 11860 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
30-045-38438	98205	PONDEROSA UNIT: MANCOS OIL

Property Code	Property Name	Well Number
334695	PONDEROSA UNIT	107H

OGRID No.	Operator Name	Ground Level Elevation
371838	DJR OPERATING, LLC	6857'

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
P	1	23N	10W		677' SOUTH	1075' EAST	36.250575° N	107.842775° 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
N	7	23N	9W		234' SOUTH	2221' FWL	36.234825° N	107.831549° W	SAN JUAN

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
PENETRATED SPACING UNIT; SEC 12: NE/4 & NE/SE (200 AC.); SEC 7: LOT 2 & SW/4 (200.42 AC.) = 400.42 ACRES			N	UNIT

Order Numbers: R-14194 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
B	12	23N	10W		462' NORTH	2359' EAST	36.247436° N	107.847119° 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
B	12	23N	10W		462' NORTH	2359' EAST	36.247436° N	107.847119° 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
N	7	23N	9W		234' SOUTH	2221' FWL	36.234825° N	107.831549° W	SAN JUAN

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
PONDEROSA		

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
1/17/2025 — 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.

HENRY P. BROADHURST, NEW MEXICO, 11393, 01/17/2025, PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor:

Certificate Number	Date of Survey
11393	JULY 9, 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.

FND 2½" BC
GLO 1947

FND 2½" BC
GLO 1942

FND 4" BC
GLO 1932

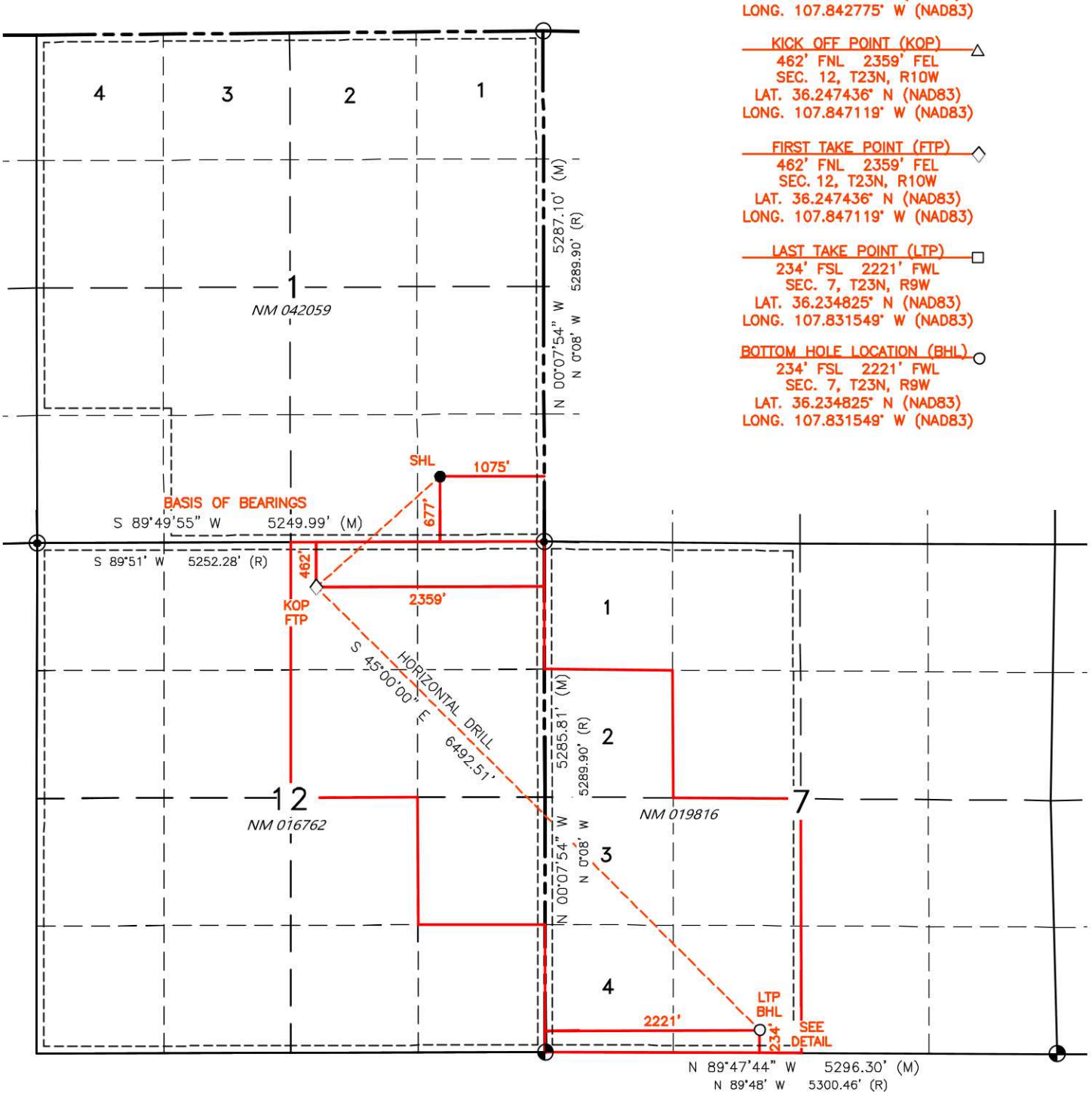
SURFACE LOCATION (SHL)
677' FSL 1075' FEL
SEC. 1, T23N, R10W
LAT. 36.250575° N (NAD83)
LONG. 107.842775° W (NAD83)

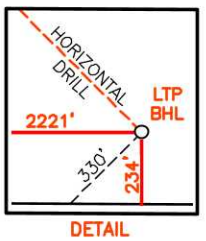
KICK OFF POINT (KOP)
462' FNL 2359' FEL
SEC. 12, T23N, R10W
LAT. 36.247436° N (NAD83)
LONG. 107.847119° W (NAD83)

FIRST TAKE POINT (FTP)
462' FNL 2359' FEL
SEC. 12, T23N, R10W
LAT. 36.247436° N (NAD83)
LONG. 107.847119° W (NAD83)

LAST TAKE POINT (LTP)
234' FSL 2221' FWL
SEC. 7, T23N, R9W
LAT. 36.234825° N (NAD83)
LONG. 107.831549° W (NAD83)

BOTTOM HOLE LOCATION (BHL)
234' FSL 2221' FWL
SEC. 7, T23N, R9W
LAT. 36.234825° N (NAD83)
LONG. 107.831549° 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:** _01_/_10_/_2025_

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Escrito P01 2310 COM 105H	TBD	P-01-23N-10W	682' FSL x 1056' FEL	213	53	85
Escrito P01 2310 FED COM 106H	TBD	P-01-23N-10W	646' FSL x 1191' FEL	309	695	124
Ponderosa Unit 107H	TBD	P-01-23N-10W	677' FSL x 1075' FEL	209	52	83
Escrito P01 2310 FED COM 108H	TBD	P-01-23N-10W	656' FSL x 1153' FEL	369	830	148
Escrito P01 2310 FED COM 113H	TBD	P-01-23N-10W	672' FSL x 1095' FEL	212	53	85
Escrito P01 2310 FED COM 133H	TBD	P-01-23N-10W	651' FSL x 1172' FEL	200	50	80
Escrito P01 2310 FED COM 134H	TBD	P-01-23N-10W	667' FSL x 1114' FEL	204	51	82
Ponderosa Unit 135H	TBD	P-01-23N-10W	687' FSL x 1037' FEL	213	53	85
Escrito P01 2310 137H	TBD	P-01-23N-10W	661' FSL x 1133' FEL	208	52	83

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
Escrito P01 2310 COM 105H	TBD	7/11/2025	7/18/2025	8/26/2025	9/10/2025	9/13/2025
Escrito P01 2310 FED COM 106H	TBD	7/13/2025	7/27/2025	8/26/2025	9/12/2025	9/15/2025
Ponderosa Unit 107H	TBD	7/15/2025	8/4/2025	8/26/2025	9/14/2025	9/17/2025
Escrito P01 2310 FED COM 108H	TBD	7/17/2025	8/12/2025	8/26/2025	9/16/2025	9/19/2025
Escrito P01 2310 FED COM 113H	TBD	7/19/2025	8/21/2025	8/26/2025	9/18/2025	9/21/2025
Escrito P01 2310 FED COM 133H	TBD	7/28/2025	8/23/2025	8/26/2025	9/20/2025	9/23/2025
Escrito P01 2310 FED COM 134H	TBD	8/5/2025	9/1/2025	8/26/2025	9/22/2025	9/25/2025
Ponderosa Unit 135H	TBD	8/13/2025	9/10/2025	8/26/2025	9/24/2025	9/27/2025
Escrito P01 2310 137H	TBD	7/18/2025	9/19/2025	8/26/2025	9/26/2025	9/29/2025

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: 1/10/2025
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
Escrito P01 2310 FED COM 105H, 106H, 108H, 113H, 133H, 134H, Escrito P01 2310 137H,
Ponderosa Unit 107H, and 135H
SESE P-01-23N-10W

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
Escrito P01 2310 FED COM 105H, 106H, 108H, 113H, 133H, 134H, Escrito P01 2310 137H,
Ponderosa Unit 107H, and 135H
SESE P-01-23N-10W

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
Escrito P01 2310 FED COM 105H, 106H, 108H, 113H, 133H, 134H, Escrito P01 2310 137H,
Ponderosa Unit 107H, and 135H
SESE P-01-23N-10W

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
Escrito P01 2310 FED COM 105H, 106H, 108H, 113H, 133H, 134H, Escrito P01 2310 137H,
Ponderosa Unit 107H, and 135H
SESE P-01-23N-10W

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: **Ponderosa Unit 107H**
API Number: Not yet assigned
AFE Number: Not yet assigned
ER Well Number: Not yet assigned
State: New Mexico
County: San Juan
Surface Elevation: 6,857 ft ASL (GL) 6,881 ft ASL (KB)
Surface Location: 1-23-10 Sec-Twn-Rng 677 ft FSL 1,075 ft FEL
36.250575 ° N latitude 107.842775 ° W longitude (NAD 83)
BH Location: 7-23-9 Sec-Twn-Rng 234 ft FSL 2,221 ft FWL
36.234825 ° N latitude 107.831549 ° 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 36.8 miles to Nageezi Post Office; Right (SouthWest) on Cty Road 7800/7786 for 5.2 miles to 3-way intersection; Right (NorthWest) on Cty Road 7825 for 1.2 mi location access on right side to Ponderosa Unit 099H PAD. There are 9 wells staked on this pad, from West to East: Ponderosa 106H, 133H, 108H, 137H, 134H, 135H, 107H, 105H, 113H.

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
Ojo Alamo	6,410	471	471	W	normal
Kirtland	6,330	551	551	W	normal
Fruitland	6,070	811	811	G, W	sub
Pictured Cliffs	5,630	1,251	1,252	G, W	sub
Lewis	5,480	1,401	1,404	G, W	normal
Chacra	5,280	1,601	1,611	G, W	normal
Cliff House	4,262	2,619	2,749	G, W	sub
Menefee	4,252	2,629	2,760	G, W	normal
Point Lookout	3,254	3,627	3,887	G, W	normal
Mancos	3,089	3,792	4,073	O,G	sub (~0.38)
Gallup (MNCS_A)	2,734	4,147	4,473	O,G	sub (~0.38)
MNCS_B	2,630	4,251	4,592	O,G	sub (~0.38)
MNCS_C	2,550	4,331	4,682	O,G	sub (~0.38)
MNCS_Cms	2,510	4,371	4,727	O,G	sub (~0.38)
MNCS_D	2,369	4,512	4,887	O,G	sub (~0.38)
MNCS_E	2,239	4,642	5,050	O,G	sub (~0.38)
MNCS_F	2,163	4,718	5,161	O,G	sub (~0.38)
MNCS_G	2,102	4,779	5,269	O,G	sub (~0.38)
MNCS_H	2,066	4,815	5,349	O,G	sub (~0.38)
MNCS_I	2,025	4,856	5,495	O,G	sub (~0.38)
FTP TARGET	**2,102**	**4,779**	**5,269**	**O,G**	**sub (~0.38)**
PROJECTED TD	**1,945**	**4,936**	**11,860**	**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:				**2,130**	**psi**
Maximum anticipated surface pressure, assuming partially evacuated hole:				**1,050**	**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 (Industrial Ecosystem, Inc. or 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 (Industrial Ecosystem, Inc. or 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	1,041	110,988	110,988
Min. S.F.	**13.21**	**3.38**	**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**	**5,554 ft (MD)**	**Hole Section Length:**	**5,204 ft**
350 ft (TVD)	**to**	**4,864 ft (TVD)**	**Casing Required:**	**5,554 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	6 - 12	10.8 - 11.2	No OBM

Hole Size (inches): 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					2,125	1,328	225,927	225,927
Min. S.F.					**2.03**	**3.75**	**1.84**	**1.62**

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	12.05	70%	0	458	984
Tail	Type III	13.5	1.710	8.88	30%	3,973	186	318

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

Spacer	10 bbls water f/b	10 bbls D-Mud Breaker (SAPP) f/b	10 bbls water f/b					
Lead	ASTM Type III 90/10 Poz	D-CSE 1 5.0% BWOC Strength Enhancer	D-MPA-2 .4% BWOC Fluid Loss & Gas Migration Control	D-SA 1 1.4% BWOC Na Metasilicate	D-CD 2 .4% BWOC Dispersant	Cello Flace LCM .25 lb/sx	D-FP 1 .5% BWOC Defoamer	D-R1 1.2% Retarder
Tail	ASTM Type III 90/10 Poz	D-CSE 1 5.0% BWOC Strength Enhancer	D-MPA-2 1.2% BWOC Fluid Loss & Gas Migration Control	Cello Flace LCM .25 lb/sx	D-FP 1 .5% BWOC Defoamer	D-R1 1.2% Retarder		

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.**

5,554	**ft (MD)**	**to**	**11,860**	**ft (MD)**	**Hole Section Length:**	**6,306 ft**
4,864	**ft (TVD)**	**to**	**4,936**	**ft (TVD)**	**Casing Required:**	**6,466 ft**

Estimated KOP:	**4,636**	**ft (MD)**	**4,290**	**ft (TVD)**
Estimated Liner Top:	**5,394**	**ft (MD)**	**4,831**	**ft (TVD)**
Estimated Landing Point (FTP):	**5,269**	**ft (MD)**	**4,779**	**ft (TVD)**
Estimated Lateral Length:	**6,591**	**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 7" 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					2,438	8,782	218,716	218,716
Min. S.F.					**3.10**	**1.22**	**1.68**	**1.76**

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	40 bbls	
Tail	G:POZ blend	13.3	1.520	7.50	25%	5,394	533	811

Displacement 154 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 NMAC 19.15.16.15.C.1.a and 19.15.16.15.C.1.b, no point in the completed interval shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth well. The boundaries of the completed interval, as defined by NMAC 19.15.16.7.B, are the last take point and first take point, as defined by NMAC 19.15.16.7.E and NMAC 19.15.16.7.J, respectively. In the case of this well, the last take point will be the bottom toe-initiation sleeve, and the first take point will be the top perforation. **Neither the toe-initiation sleeve nor the top perforation shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well.**

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

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 6,491

Est Frac Inform: 27 Frac Stages 104,000 bbls slick water 8,440,000 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: 2/14/2025

Production: 3/31/2025

Prepared by:	**Greg Olson**	**7/18/2024**
Updated:	**Greg Olson**	**12/2/2024**
	Greg Olson	**1/15/2025**

WELL NAME: **Ponderosa Unit 107H**

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

API Number: *Not yet assigned*

AFE Number: *Not yet assigned*

ER Well Number: *Not yet assigned*

State: New Mexico

County: San Juan

Surface Elev.:	6,857	ft ASL (GL)	6,881	ft ASL (KB)		
Surface Location:	1-23-10	Sec-Twn- Rng	677	ft FSL	1,075	ft FEL
BH Location:	7-23-9	Sec-Twn- Rng	234	ft FSL	2221	ft FWL

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

South on US Hwy 550 for 36.8 miles to Nageezi Post Office; Right (SouthWest) on Cty Road 7800/7786 for 5.2 miles to 3-way intersection; Right (NorthWest) on Cty Road 7825 for 1.2 mi location access on right side to Ponderosa Unit 099H PAD. There are 9 wells staked on this pad, from West to East: Ponderosa 106H, 133H, 108H, 137H, 134H, 135H, 107H, 105H, 113H.

QUICK REFERENCE		
Sur TD (MD)	350	ft
Int TD (MD)	5,554	ft
KOP (MD)	4,636	ft
KOP (TVD)	4,290	ft
Target (TVD)	4,779	ft
Curve BUR	10	°/100 ft
POE (MD)	5,269	ft
TD (MD)	11,860	ft
Lat Len (ft)	6,591	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	5,554	7	26.0	K-55	LTC	0	5,554
Production	6.125	11,860	4.500	11.6	P-110	BTC	5,394	11,860

CEMENT PROPERTIES SUMMARY:

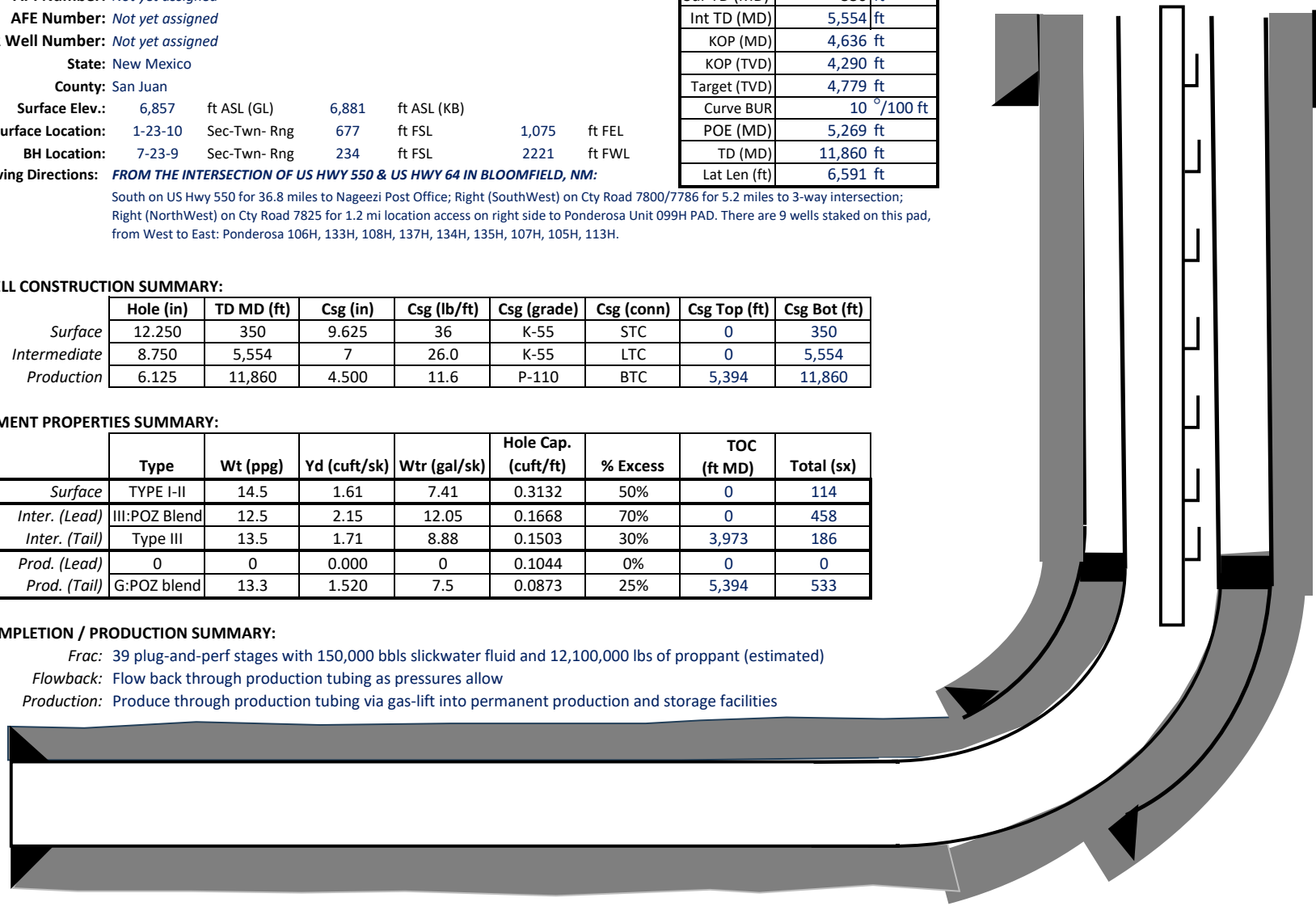
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114
Inter. (Lead)	III:POZ Blend	12.5	2.15	12.05	0.1668	70%	0	458
Inter. (Tail)	Type III	13.5	1.71	8.88	0.1503	30%	3,973	186
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.520	7.5	0.0873	25%	5,394	533

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

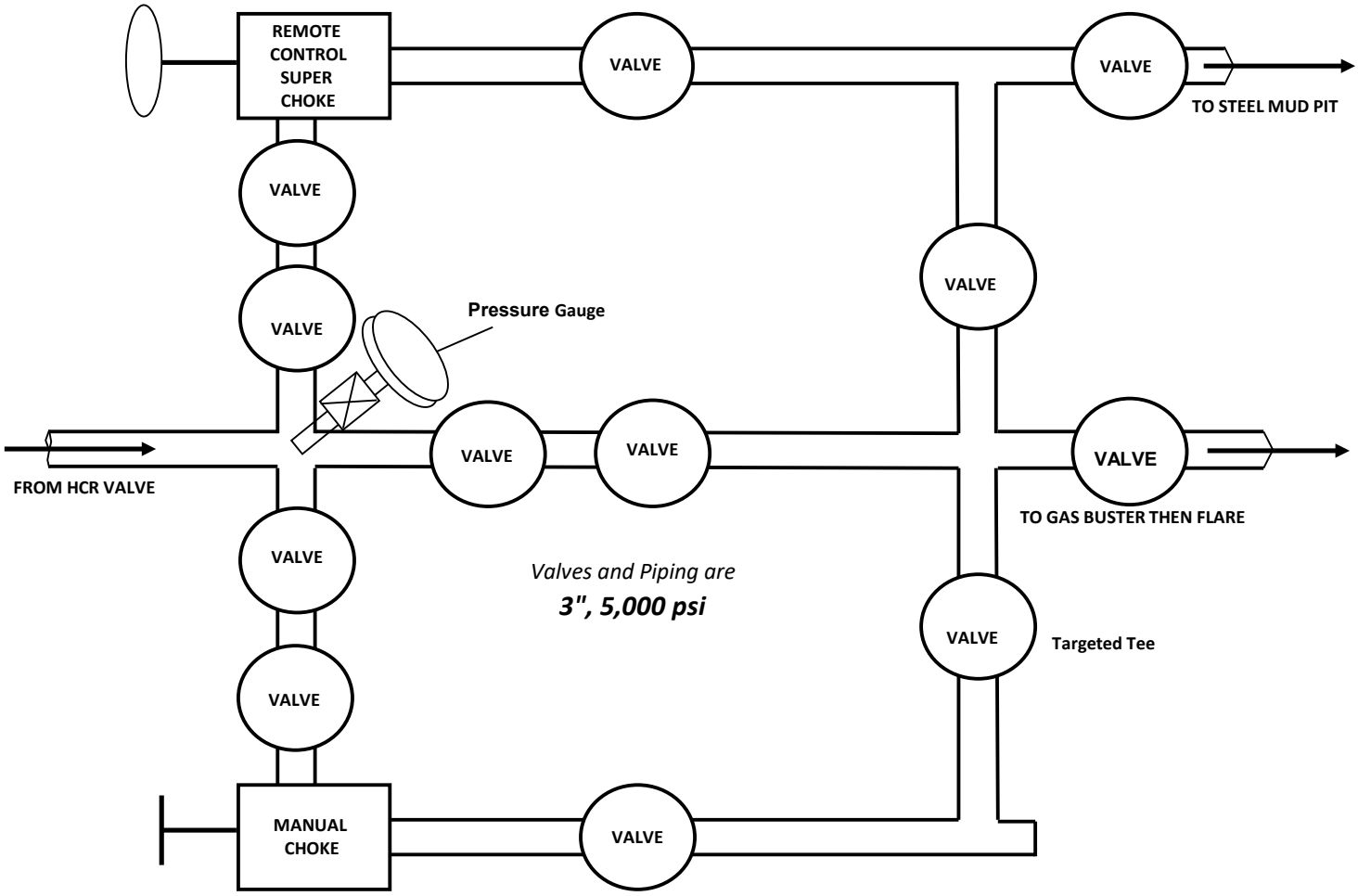


Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	471	471
Kirtland	551	551
Fruitland	811	811
Pictured Cliffs	1,251	1,252
Lewis	1,401	1,404
Chacra	1,601	1,611
Cliff House	2,619	2,749
Menefee	2,629	2,760
Point Lookout	3,627	3,887
Mancos	3,792	4,073
Gallup (MNCS_A)	4,147	4,473
MNCS_B	4,251	4,592
MNCS_C	4,331	4,682
MNCS_Cms	4,371	4,727
MNCS_D	4,512	4,887
MNCS_E	4,642	5,050
MNCS_F	4,718	5,161
MNCS_G	4,779	5,269
MNCS_H	4,815	5,349
MNCS_I	4,856	5,495
FTP TARGET	4,779	5,269
PROJECTED TD	4,936	11,860

PONDEROSA UNIT 107H

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.

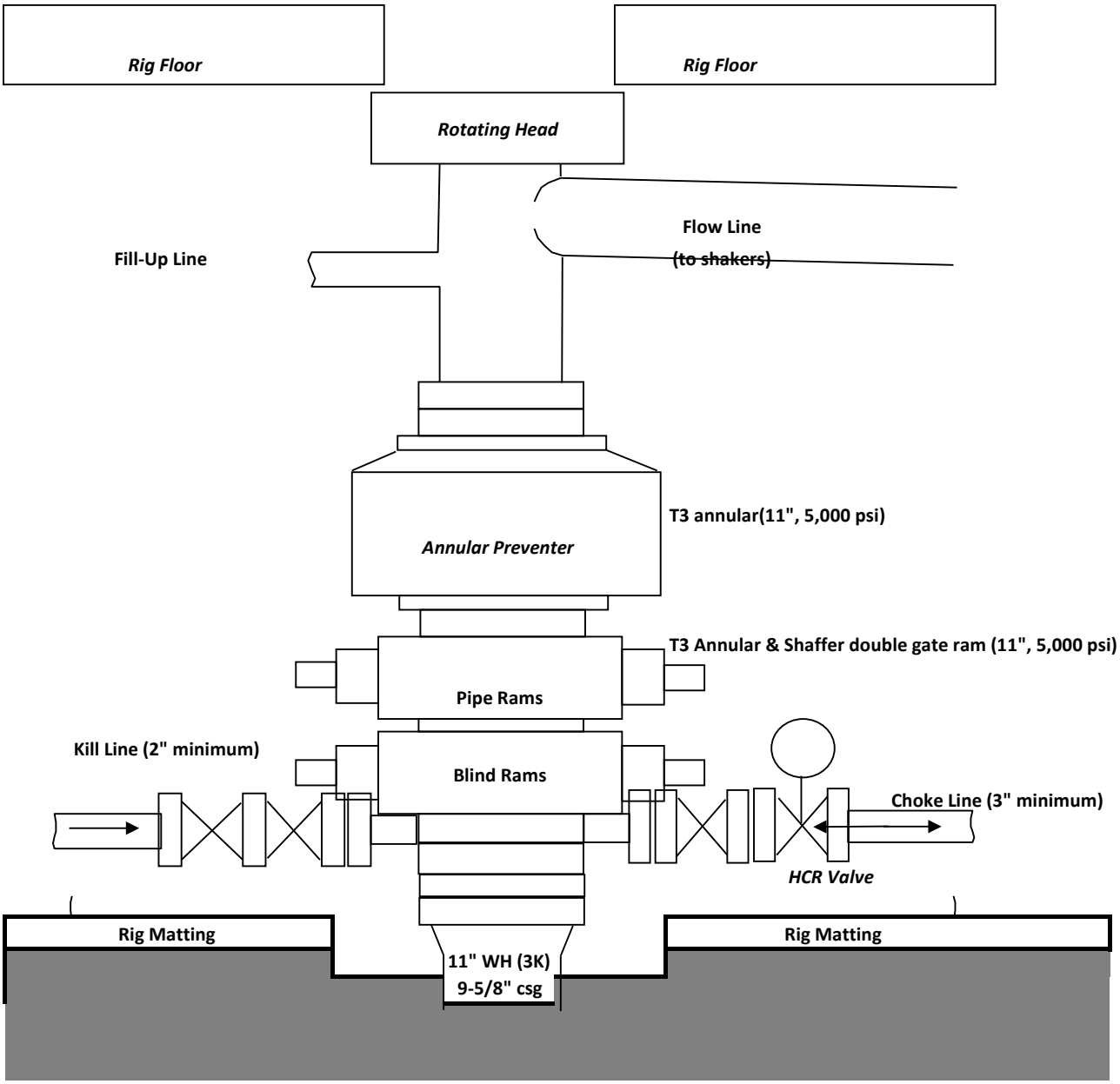
CHOKE MANIFOLD



PONDEROSA UNIT 107H

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: Ponderosa Unit 107H
Site: Ponderosa P01 (107 & 135 Escrito 105)
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=6857+23.5 @ 6880.50ft

Surface location:

Northing	Easting	Latitude	Longitude
1910507.96	2720307.80	36.25057500	-107.84277500

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.480°

Azimuths to Grid North
True North: 0.01°
Magnetic North: 8.48°

Magnetic Field
Strength: 48956.1nT
Dip Angle: 62.67°
Date: 11/27/2024
Model: IGRF2020

Section Details

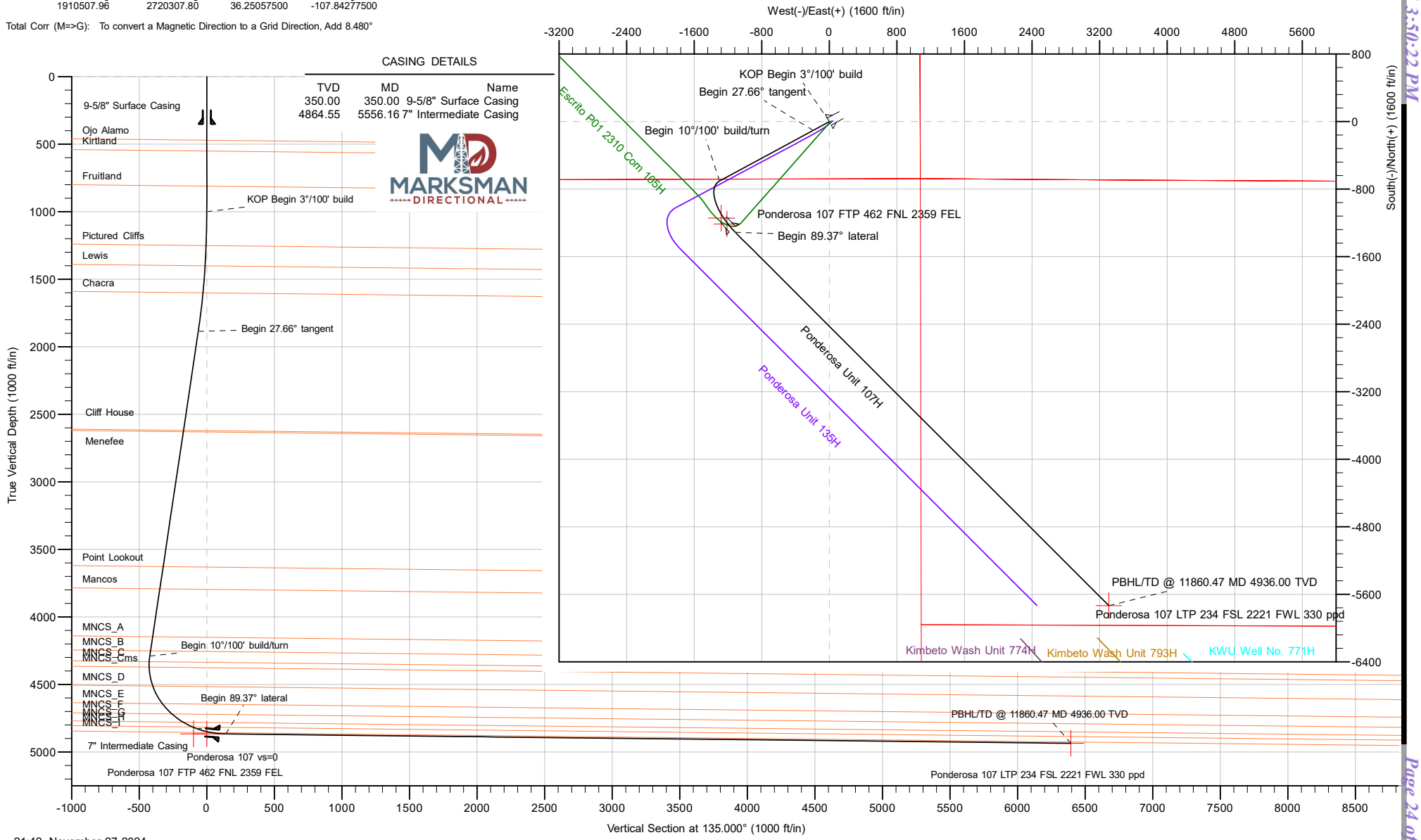
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000	0.00	
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 3°/100' build
3	1921.84	27.66	241.572	1886.46	-103.87	-191.88	3.00	241.572	-62.23	Begin 27.66° tangent
4	4635.62	27.66	241.572	4290.21	-703.52	-1299.59	0.00	0.000	-421.48	Begin 10°/100' build/turn
5	5382.54	70.00	146.450	4827.00	-1142.52	-1250.99	10.00	-103.982	-76.70	
6	5606.30	89.37	135.000	4867.01	-1311.39	-1112.01	10.00	-31.429	140.98	Begin 89.37° lateral
7	11860.47	89.37	135.000	4936.00	-5733.50	3310.09	0.00	0.000	6394.78	PBHL/TD @ 11860.47 MD 4936.00 TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Ponderosa 107 FTP 462 FNL 2359 FEL	4866.00	-1142.52	-1280.99	1909365.45	2719026.82	36.24743600	-107.84711900
Ponderosa 107 vs=0	4866.00	-1211.75	-1211.75	1909296.21	2719096.05	36.24724584	-107.84688415
Ponderosa 107 LTP 234 FSL 2221 FWL 330 ppd	4936.00	-5733.50	3310.09	1904774.48	2723617.88	36.23482500	-107.83154900

CASING DETAILS

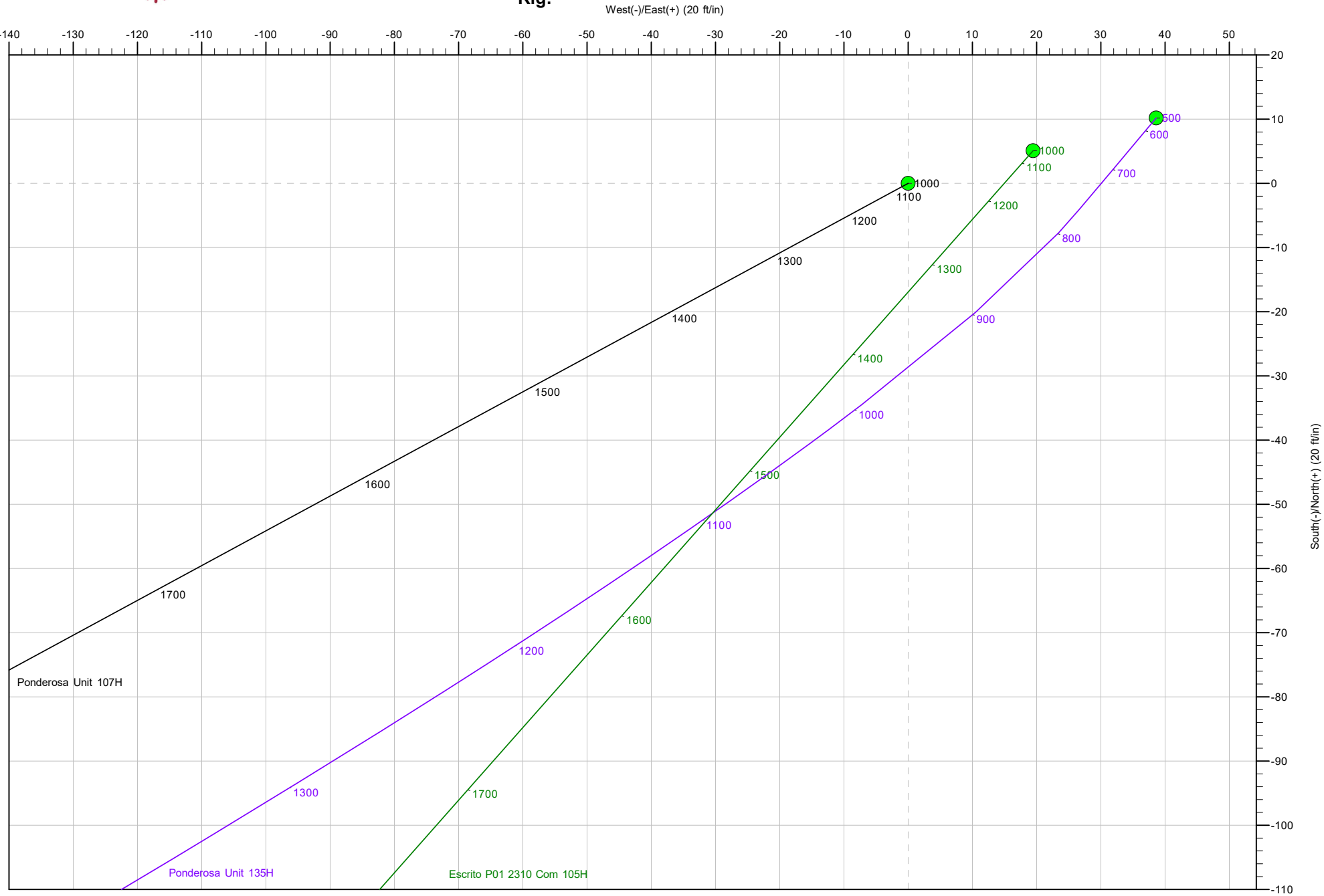
TVD	MD	Name
350.00	350.00	9-5/8" Surface Casing
4864.55	5556.16	7" Intermediate Casing



21:42, November 27 2024

Well: Ponderosa Unit 107H
Site: Ponderosa P01 (107 & 135 Escrito 105)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig:

MARKSMAN DIRECTIONAL



21:46, November 27 2024

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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	Ponderosa P01 (107 & 135 Escrito 105)				
Site Position:		**Northing:**	1,910,507.96 usft	**Latitude:**	36.25057500
From:	Lat/Long	**Easting:**	2,720,307.80 usft	**Longitude:**	-107.84277500
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "		

Well	Ponderosa Unit 107H, Surf loc: 677 FSL 1075 FEL Section 01-T23N-R10W					
Well Position	**+N/-S**	0.00 ft	**Northing:**	1,910,507.96 usft	**Latitude:**	36.25057500
	+E/-W	0.00 ft	**Easting:**	2,720,307.80 usft	**Longitude:**	-107.84277500
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,857.00 ft
Grid Convergence:		-0.006 °				

Wellbore	Original Hole			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	11/27/2024	8.474	62.670	48,956.12904061

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	135.000

Plan Survey Tool Program **Date** 11/27/2024

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	11,860.47	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	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,921.84	27.66	241.572	1,886.46	-103.87	-191.88	3.00	3.00	0.00	241.572	
4,635.62	27.66	241.572	4,290.21	-703.52	-1,299.59	0.00	0.00	0.00	0.000	
5,382.54	70.00	146.450	4,827.00	-1,142.52	-1,250.99	10.00	5.67	-12.74	-103.982	
5,606.30	89.37	135.000	4,867.01	-1,311.39	-1,112.01	10.00	8.66	-5.12	-31.429	
11,860.47	89.37	135.000	4,936.00	-5,733.50	3,310.09	0.00	0.00	0.00	0.000	Ponderosa 107 LTP 2

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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
471.00	0.00	0.000	471.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo									
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
551.00	0.00	0.000	551.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland									
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
811.00	0.00	0.000	811.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland									
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
1,100.00	3.00	241.572	1,099.95	-1.25	-2.30	-0.75	3.00	3.00	0.00
1,200.00	6.00	241.572	1,199.63	-4.98	-9.20	-2.98	3.00	3.00	0.00
1,251.68	7.55	241.572	1,250.95	-7.88	-14.56	-4.72	3.00	3.00	0.00
Pictured Cliffs									
1,300.00	9.00	241.572	1,298.77	-11.19	-20.68	-6.71	3.00	3.00	0.00
1,400.00	12.00	241.572	1,397.08	-19.87	-36.70	-11.90	3.00	3.00	0.00
1,403.87	12.12	241.572	1,400.87	-20.25	-37.41	-12.13	3.00	3.00	0.00
Lewis									
1,500.00	15.00	241.572	1,494.31	-30.98	-57.23	-18.56	3.00	3.00	0.00
1,600.00	18.00	241.572	1,590.18	-44.50	-82.20	-26.66	3.00	3.00	0.00
1,611.07	18.33	241.572	1,600.70	-46.14	-85.24	-27.64	3.00	3.00	0.00
Chacra									
1,700.00	21.00	241.572	1,684.43	-60.39	-111.56	-36.18	3.00	3.00	0.00
1,800.00	24.00	241.572	1,776.81	-78.61	-145.21	-47.09	3.00	3.00	0.00
1,900.00	27.00	241.572	1,867.06	-99.10	-183.06	-59.37	3.00	3.00	0.00
1,921.84	27.66	241.572	1,886.46	-103.87	-191.88	-62.23	3.00	3.00	0.00
Begin 27.66° tangent									
2,000.00	27.66	241.572	1,955.69	-121.14	-223.78	-72.58	0.00	0.00	0.00
2,100.00	27.66	241.572	2,044.27	-143.24	-264.60	-85.82	0.00	0.00	0.00
2,200.00	27.66	241.572	2,132.84	-165.33	-305.42	-99.05	0.00	0.00	0.00
2,300.00	27.66	241.572	2,221.42	-187.43	-346.23	-112.29	0.00	0.00	0.00
2,400.00	27.66	241.572	2,309.99	-209.53	-387.05	-125.53	0.00	0.00	0.00
2,500.00	27.66	241.572	2,398.57	-231.62	-427.87	-138.77	0.00	0.00	0.00
2,600.00	27.66	241.572	2,487.15	-253.72	-468.69	-152.01	0.00	0.00	0.00
2,700.00	27.66	241.572	2,575.72	-275.82	-509.51	-165.24	0.00	0.00	0.00
2,748.99	27.66	241.572	2,619.11	-286.64	-529.50	-171.73	0.00	0.00	0.00
Cliff House									
2,760.26	27.66	241.572	2,629.10	-289.13	-534.10	-173.22	0.00	0.00	0.00
Menefee									
2,800.00	27.66	241.572	2,664.30	-297.91	-550.32	-178.48	0.00	0.00	0.00
2,900.00	27.66	241.572	2,752.87	-320.01	-591.14	-191.72	0.00	0.00	0.00
3,000.00	27.66	241.572	2,841.45	-342.10	-631.96	-204.96	0.00	0.00	0.00

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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)
3,100.00	27.66	241.572	2,930.02	-364.20	-672.78	-218.20	0.00	0.00	0.00
3,200.00	27.66	241.572	3,018.60	-386.30	-713.60	-231.43	0.00	0.00	0.00
3,300.00	27.66	241.572	3,107.17	-408.39	-754.41	-244.67	0.00	0.00	0.00
3,400.00	27.66	241.572	3,195.75	-430.49	-795.23	-257.91	0.00	0.00	0.00
3,500.00	27.66	241.572	3,284.33	-452.59	-836.05	-271.15	0.00	0.00	0.00
3,600.00	27.66	241.572	3,372.90	-474.68	-876.87	-284.39	0.00	0.00	0.00
3,700.00	27.66	241.572	3,461.48	-496.78	-917.69	-297.63	0.00	0.00	0.00
3,800.00	27.66	241.572	3,550.05	-518.88	-958.50	-310.86	0.00	0.00	0.00
3,887.38	27.66	241.572	3,627.45	-538.18	-994.17	-322.43	0.00	0.00	0.00
Point Lookout									
3,900.00	27.66	241.572	3,638.63	-540.97	-999.32	-324.10	0.00	0.00	0.00
4,000.00	27.66	241.572	3,727.20	-563.07	-1,040.14	-337.34	0.00	0.00	0.00
4,073.36	27.66	241.572	3,792.18	-579.28	-1,070.08	-347.05	0.00	0.00	0.00
Mancos									
4,100.00	27.66	241.572	3,815.78	-585.16	-1,080.96	-350.58	0.00	0.00	0.00
4,200.00	27.66	241.572	3,904.36	-607.26	-1,121.77	-363.82	0.00	0.00	0.00
4,300.00	27.66	241.572	3,992.93	-629.36	-1,162.59	-377.05	0.00	0.00	0.00
4,400.00	27.66	241.572	4,081.51	-651.45	-1,203.41	-390.29	0.00	0.00	0.00
4,473.49	27.66	241.572	4,146.60	-667.69	-1,233.41	-400.02	0.00	0.00	0.00
MNCS_A									
4,500.00	27.66	241.572	4,170.08	-673.55	-1,244.23	-403.53	0.00	0.00	0.00
4,591.84	27.66	241.572	4,251.43	-693.84	-1,281.71	-415.69	0.00	0.00	0.00
MNCS_B									
4,600.00	27.66	241.572	4,258.66	-695.65	-1,285.05	-416.77	0.00	0.00	0.00
4,635.62	27.66	241.572	4,290.21	-703.52	-1,299.59	-421.48	0.00	0.00	0.00
Begin 10°/100' build/turn									
4,650.00	27.34	238.533	4,302.97	-706.83	-1,305.34	-423.21	10.00	-2.19	-21.14
4,681.85	26.89	231.614	4,331.32	-715.12	-1,317.22	-425.75	10.00	-1.43	-21.73
MNCS_C									
4,700.00	26.78	227.598	4,347.52	-720.43	-1,323.46	-426.41	10.00	-0.58	-22.12
4,726.65	26.83	221.687	4,371.31	-728.97	-1,331.90	-426.33	10.00	0.19	-22.18
MNCS_Cms									
4,750.00	27.08	216.563	4,392.13	-737.17	-1,338.57	-425.25	10.00	1.05	-21.95
4,800.00	28.20	206.048	4,436.45	-756.94	-1,350.54	-419.74	10.00	2.25	-21.03
4,850.00	30.06	196.503	4,480.14	-779.58	-1,359.29	-409.92	10.00	3.72	-19.09
4,886.67	31.82	190.243	4,511.60	-797.90	-1,363.62	-400.02	10.00	4.80	-17.07
MNCS_D									
4,900.00	32.54	188.126	4,522.88	-804.91	-1,364.75	-395.87	10.00	5.33	-15.88
4,950.00	35.49	180.904	4,564.34	-832.75	-1,366.88	-377.69	10.00	5.91	-14.45
5,000.00	38.81	174.710	4,604.20	-862.89	-1,365.67	-355.52	10.00	6.65	-12.39
5,050.00	42.42	169.383	4,642.16	-895.08	-1,361.11	-329.53	10.00	7.21	-10.66
5,050.29	42.44	169.354	4,642.38	-895.28	-1,361.08	-329.37	10.00	7.45	-9.90
MNCS_E									
5,100.00	46.24	164.761	4,677.94	-929.10	-1,353.26	-299.92	10.00	7.64	-9.24
5,150.00	50.22	160.705	4,711.24	-964.68	-1,342.15	-266.92	10.00	7.97	-8.11
5,160.89	51.11	159.885	4,718.15	-972.61	-1,339.31	-259.30	10.00	8.13	-7.53
MNCS_F									
5,200.00	54.33	157.100	4,741.84	-1,001.54	-1,327.89	-230.77	10.00	8.24	-7.12
5,250.00	58.53	153.852	4,769.48	-1,039.42	-1,310.58	-191.74	10.00	8.41	-6.50
5,268.77	60.13	152.709	4,779.06	-1,053.84	-1,303.32	-176.41	10.00	8.52	-6.09
MNCS_G									
5,300.00	62.81	150.887	4,793.97	-1,078.01	-1,290.35	-150.15	10.00	8.59	-5.84
5,349.25	67.09	148.182	4,814.82	-1,116.45	-1,267.72	-106.97	10.00	8.68	-5.49

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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)
MNCS_H									
5,350.00	67.15	148.142	4,815.11	-1,117.03	-1,267.36	-106.30	10.00	8.72	-5.31
5,382.54	70.00	146.450	4,827.00	-1,142.52	-1,250.99	-76.70	10.00	8.75	-5.20
5,400.00	71.49	145.490	4,832.76	-1,156.17	-1,241.77	-60.52	10.00	8.55	-5.50
5,450.00	75.79	142.827	4,846.84	-1,195.05	-1,213.67	-13.17	10.00	8.60	-5.33
5,494.64	79.65	140.535	4,856.33	-1,229.26	-1,186.63	30.14	10.00	8.65	-5.13
MNCS_I									
5,500.00	80.12	140.264	4,857.27	-1,233.32	-1,183.27	35.39	10.00	8.67	-5.06
5,550.00	84.46	137.768	4,863.98	-1,270.71	-1,150.78	84.80	10.00	8.69	-4.99
5,556.16	85.00	137.464	4,864.55	-1,275.24	-1,146.64	90.93	10.00	8.71	-4.94
7" Intermediate Casing									
5,600.00	88.82	135.309	4,866.91	-1,306.92	-1,116.45	134.68	10.00	8.71	-4.92
5,606.30	89.37	135.000	4,867.01	-1,311.39	-1,112.01	140.98	10.00	8.72	-4.90
Begin 89.37° lateral									
5,700.00	89.37	135.000	4,868.04	-1,377.64	-1,045.76	234.68	0.00	0.00	0.00
5,800.00	89.37	135.000	4,869.15	-1,448.35	-975.05	334.67	0.00	0.00	0.00
5,900.00	89.37	135.000	4,870.25	-1,519.06	-904.35	434.67	0.00	0.00	0.00
6,000.00	89.37	135.000	4,871.35	-1,589.76	-833.64	534.66	0.00	0.00	0.00
6,100.00	89.37	135.000	4,872.45	-1,660.47	-762.93	634.65	0.00	0.00	0.00
6,200.00	89.37	135.000	4,873.56	-1,731.18	-692.23	734.65	0.00	0.00	0.00
6,300.00	89.37	135.000	4,874.66	-1,801.88	-621.52	834.64	0.00	0.00	0.00
6,400.00	89.37	135.000	4,875.76	-1,872.59	-550.81	934.63	0.00	0.00	0.00
6,500.00	89.37	135.000	4,876.87	-1,943.29	-480.11	1,034.63	0.00	0.00	0.00
6,600.00	89.37	135.000	4,877.97	-2,014.00	-409.40	1,134.62	0.00	0.00	0.00
6,700.00	89.37	135.000	4,879.07	-2,084.71	-338.70	1,234.62	0.00	0.00	0.00
6,800.00	89.37	135.000	4,880.18	-2,155.41	-267.99	1,334.61	0.00	0.00	0.00
6,900.00	89.37	135.000	4,881.28	-2,226.12	-197.28	1,434.60	0.00	0.00	0.00
7,000.00	89.37	135.000	4,882.38	-2,296.83	-126.58	1,534.60	0.00	0.00	0.00
7,100.00	89.37	135.000	4,883.49	-2,367.53	-55.87	1,634.59	0.00	0.00	0.00
7,200.00	89.37	135.000	4,884.59	-2,438.24	14.84	1,734.59	0.00	0.00	0.00
7,300.00	89.37	135.000	4,885.69	-2,508.95	85.54	1,834.58	0.00	0.00	0.00
7,400.00	89.37	135.000	4,886.80	-2,579.65	156.25	1,934.57	0.00	0.00	0.00
7,500.00	89.37	135.000	4,887.90	-2,650.36	226.95	2,034.57	0.00	0.00	0.00
7,600.00	89.37	135.000	4,889.00	-2,721.07	297.66	2,134.56	0.00	0.00	0.00
7,700.00	89.37	135.000	4,890.10	-2,791.77	368.37	2,234.56	0.00	0.00	0.00
7,800.00	89.37	135.000	4,891.21	-2,862.48	439.07	2,334.55	0.00	0.00	0.00
7,900.00	89.37	135.000	4,892.31	-2,933.18	509.78	2,434.54	0.00	0.00	0.00
8,000.00	89.37	135.000	4,893.41	-3,003.89	580.49	2,534.54	0.00	0.00	0.00
8,100.00	89.37	135.000	4,894.52	-3,074.60	651.19	2,634.53	0.00	0.00	0.00
8,200.00	89.37	135.000	4,895.62	-3,145.30	721.90	2,734.53	0.00	0.00	0.00
8,300.00	89.37	135.000	4,896.72	-3,216.01	792.61	2,834.52	0.00	0.00	0.00
8,400.00	89.37	135.000	4,897.83	-3,286.72	863.31	2,934.51	0.00	0.00	0.00
8,500.00	89.37	135.000	4,898.93	-3,357.42	934.02	3,034.51	0.00	0.00	0.00
8,600.00	89.37	135.000	4,900.03	-3,428.13	1,004.72	3,134.50	0.00	0.00	0.00
8,700.00	89.37	135.000	4,901.14	-3,498.84	1,075.43	3,234.50	0.00	0.00	0.00
8,800.00	89.37	135.000	4,902.24	-3,569.54	1,146.14	3,334.49	0.00	0.00	0.00
8,900.00	89.37	135.000	4,903.34	-3,640.25	1,216.84	3,434.48	0.00	0.00	0.00
9,000.00	89.37	135.000	4,904.45	-3,710.96	1,287.55	3,534.48	0.00	0.00	0.00
9,100.00	89.37	135.000	4,905.55	-3,781.66	1,358.26	3,634.47	0.00	0.00	0.00
9,200.00	89.37	135.000	4,906.65	-3,852.37	1,428.96	3,734.46	0.00	0.00	0.00
9,300.00	89.37	135.000	4,907.75	-3,923.08	1,499.67	3,834.46	0.00	0.00	0.00
9,400.00	89.37	135.000	4,908.86	-3,993.78	1,570.37	3,934.45	0.00	0.00	0.00
9,500.00	89.37	135.000	4,909.96	-4,064.49	1,641.08	4,034.45	0.00	0.00	0.00

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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)
9,600.00	89.37	135.000	4,911.06	-4,135.19	1,711.79	4,134.44	0.00	0.00	0.00
9,700.00	89.37	135.000	4,912.17	-4,205.90	1,782.49	4,234.43	0.00	0.00	0.00
9,800.00	89.37	135.000	4,913.27	-4,276.61	1,853.20	4,334.43	0.00	0.00	0.00
9,900.00	89.37	135.000	4,914.37	-4,347.31	1,923.91	4,434.42	0.00	0.00	0.00
10,000.00	89.37	135.000	4,915.48	-4,418.02	1,994.61	4,534.42	0.00	0.00	0.00
10,100.00	89.37	135.000	4,916.58	-4,488.73	2,065.32	4,634.41	0.00	0.00	0.00
10,200.00	89.37	135.000	4,917.68	-4,559.43	2,136.02	4,734.40	0.00	0.00	0.00
10,300.00	89.37	135.000	4,918.79	-4,630.14	2,206.73	4,834.40	0.00	0.00	0.00
10,400.00	89.37	135.000	4,919.89	-4,700.85	2,277.44	4,934.39	0.00	0.00	0.00
10,500.00	89.37	135.000	4,920.99	-4,771.55	2,348.14	5,034.39	0.00	0.00	0.00
10,600.00	89.37	135.000	4,922.10	-4,842.26	2,418.85	5,134.38	0.00	0.00	0.00
10,700.00	89.37	135.000	4,923.20	-4,912.97	2,489.56	5,234.37	0.00	0.00	0.00
10,800.00	89.37	135.000	4,924.30	-4,983.67	2,560.26	5,334.37	0.00	0.00	0.00
10,900.00	89.37	135.000	4,925.40	-5,054.38	2,630.97	5,434.36	0.00	0.00	0.00
11,000.00	89.37	135.000	4,926.51	-5,125.08	2,701.68	5,534.36	0.00	0.00	0.00
11,100.00	89.37	135.000	4,927.61	-5,195.79	2,772.38	5,634.35	0.00	0.00	0.00
11,200.00	89.37	135.000	4,928.71	-5,266.50	2,843.09	5,734.34	0.00	0.00	0.00
11,300.00	89.37	135.000	4,929.82	-5,337.20	2,913.79	5,834.34	0.00	0.00	0.00
11,400.00	89.37	135.000	4,930.92	-5,407.91	2,984.50	5,934.33	0.00	0.00	0.00
11,500.00	89.37	135.000	4,932.02	-5,478.62	3,055.21	6,034.32	0.00	0.00	0.00
11,600.00	89.37	135.000	4,933.13	-5,549.32	3,125.91	6,134.32	0.00	0.00	0.00
11,700.00	89.37	135.000	4,934.23	-5,620.03	3,196.62	6,234.31	0.00	0.00	0.00
11,800.00	89.37	135.000	4,935.33	-5,690.74	3,267.33	6,334.31	0.00	0.00	0.00
11,860.47	89.37	135.000	4,936.00	-5,733.50	3,310.09	6,394.78	0.00	0.00	0.00
PBHL/TD @ 11860.47 MD 4936.00 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
5,556.16	4,864.55	7" Intermediate Casing	7	8-3/4

Planning Report

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
471.00	471.00	Ojo Alamo		0.630	134.999
551.00	551.00	Kirtland		0.630	134.999
811.00	811.00	Fruitland		0.630	134.999
1,251.68	1,250.95	Pictured Cliffs		0.630	134.999
1,403.87	1,400.87	Lewis		0.630	134.999
1,611.07	1,600.70	Chacra		0.630	134.999
2,748.99	2,619.11	Cliff House		0.630	134.999
2,760.26	2,629.10	Menefee		0.630	134.999
3,887.38	3,627.45	Point Lookout		0.630	134.999
4,073.36	3,792.18	Mancos		0.630	134.999
4,473.49	4,146.60	MNCS_A		0.630	134.999
4,591.84	4,251.43	MNCS_B		0.630	134.999
4,681.85	4,331.32	MNCS_C		0.630	134.999
4,726.65	4,371.31	MNCS_Cms		0.630	134.999
4,886.67	4,511.60	MNCS_D		0.630	134.999
5,050.29	4,642.38	MNCS_E		0.630	134.999
5,160.89	4,718.15	MNCS_F		0.630	134.999
5,268.77	4,779.06	MNCS_G		0.630	134.999
5,349.25	4,814.82	MNCS_H		0.630	134.999
5,494.64	4,856.33	MNCS_I		0.630	134.999

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,921.84	1,886.46	-103.87	-191.88	Begin 27.66° tangent
4,635.62	4,290.21	-703.52	-1,299.59	Begin 10°/100' build/turn
5,382.54	4,827.00	-1,142.52	-1,250.99	
5,606.30	4,867.01	-1,311.39	-1,112.01	Begin 89.37° lateral
11,860.47	4,936.00	-5,733.50	3,310.09	PBHL/TD @ 11860.47 MD 4936.00 TVD

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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 Ponderosa P01 (107 & 135 Escrito 105)

Site Position:		**Northing:**	1,910,507.96 usft	**Latitude:**	36.25057500
From:	Lat/Long	**Easting:**	2,720,307.80 usft	**Longitude:**	-107.84277500
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "		

Well Ponderosa Unit 107H, Surf loc: 677 FSL 1075 FEL Section 01-T23N-R10W

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,910,507.96 usft	**Latitude:**	36.25057500
	+E/-W	0.00 ft	**Easting:**	2,720,307.80 usft	**Longitude:**	-107.84277500
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,857.00 ft
Grid Convergence:		-0.006 °				

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/27/2024	8.474	62.670	48,956.12904061

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	135.000

Plan Survey Tool Program **Date** 11/27/2024

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	11,860.47	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	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,921.84	27.66	241.572	1,886.46	-103.87	-191.88	3.00	3.00	0.00	241.572	
4,635.62	27.66	241.572	4,290.21	-703.52	-1,299.59	0.00	0.00	0.00	0.000	
5,382.54	70.00	146.450	4,827.00	-1,142.52	-1,250.99	10.00	5.67	-12.74	-103.982	
5,606.30	89.37	135.000	4,867.01	-1,311.39	-1,112.01	10.00	8.66	-5.12	-31.429	
11,860.47	89.37	135.000	4,936.00	-5,733.50	3,310.09	0.00	0.00	0.00	0.000	Ponderosa 107 LTP 2

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
100.00	0.00	0.000	100.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
200.00	0.00	0.000	200.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
300.00	0.00	0.000	300.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
350.00	0.00	0.000	350.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
471.00	0.00	0.000	471.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
Ojo Alamo									
500.00	0.00	0.000	500.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
551.00	0.00	0.000	551.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
Kirtland									
600.00	0.00	0.000	600.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
700.00	0.00	0.000	700.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
800.00	0.00	0.000	800.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
811.00	0.00	0.000	811.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
Fruitland									
900.00	0.00	0.000	900.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,910,507.96	2,720,307.80	36.25057500	-107.84277500
KOP Begin 3°/100' build									
1,100.00	3.00	241.572	1,099.95	-1.25	-2.30	1,910,506.72	2,720,305.50	36.25057158	-107.84278280
1,200.00	6.00	241.572	1,199.63	-4.98	-9.20	1,910,502.98	2,720,298.60	36.25056132	-107.84280620
1,251.68	7.55	241.572	1,250.95	-7.88	-14.56	1,910,500.08	2,720,293.24	36.25055334	-107.84282438
Pictured Cliffs									
1,300.00	9.00	241.572	1,298.77	-11.19	-20.68	1,910,496.77	2,720,287.13	36.25054424	-107.84284512
1,400.00	12.00	241.572	1,397.08	-19.87	-36.70	1,910,488.10	2,720,271.10	36.25052041	-107.84289947
1,403.87	12.12	241.572	1,400.87	-20.25	-37.41	1,910,487.71	2,720,270.39	36.25051935	-107.84290188
Lewis									
1,500.00	15.00	241.572	1,494.31	-30.98	-57.23	1,910,476.98	2,720,250.57	36.25048988	-107.84296908
1,600.00	18.00	241.572	1,590.18	-44.50	-82.20	1,910,463.46	2,720,225.60	36.25045273	-107.84305378
1,611.07	18.33	241.572	1,600.70	-46.14	-85.24	1,910,461.82	2,720,222.57	36.25044822	-107.84306407
Chacra									
1,700.00	21.00	241.572	1,684.43	-60.39	-111.56	1,910,447.58	2,720,196.25	36.25040908	-107.84315332
1,800.00	24.00	241.572	1,776.81	-78.61	-145.21	1,910,429.36	2,720,162.60	36.25035903	-107.84326744
1,900.00	27.00	241.572	1,867.06	-99.10	-183.06	1,910,408.87	2,720,124.74	36.25030272	-107.84339582
1,921.84	27.66	241.572	1,886.46	-103.87	-191.88	1,910,404.09	2,720,115.93	36.25028961	-107.84342572
Begin 27.66° tangent									
2,000.00	27.66	241.572	1,955.69	-121.14	-223.78	1,910,386.82	2,720,084.02	36.25024215	-107.84353392
2,100.00	27.66	241.572	2,044.27	-143.24	-264.60	1,910,364.73	2,720,043.20	36.25018144	-107.84367235
2,200.00	27.66	241.572	2,132.84	-165.33	-305.42	1,910,342.63	2,720,002.39	36.25012073	-107.84381077
2,300.00	27.66	241.572	2,221.42	-187.43	-346.23	1,910,320.53	2,719,961.57	36.25006002	-107.84394920
2,400.00	27.66	241.572	2,309.99	-209.53	-387.05	1,910,298.44	2,719,920.75	36.24999930	-107.84408763
2,500.00	27.66	241.572	2,398.57	-231.62	-427.87	1,910,276.34	2,719,879.93	36.24993859	-107.84422606
2,600.00	27.66	241.572	2,487.15	-253.72	-468.69	1,910,254.25	2,719,839.12	36.24987788	-107.84436448
2,700.00	27.66	241.572	2,575.72	-275.82	-509.51	1,910,232.15	2,719,798.30	36.24981716	-107.84450291
2,748.99	27.66	241.572	2,619.11	-286.64	-529.50	1,910,221.32	2,719,778.30	36.24978742	-107.84457072
Cliff House									
2,760.26	27.66	241.572	2,629.10	-289.13	-534.10	1,910,218.83	2,719,773.70	36.24978058	-107.84458632
Menefee									
2,800.00	27.66	241.572	2,664.30	-297.91	-550.32	1,910,210.05	2,719,757.48	36.24975645	-107.84464134
2,900.00	27.66	241.572	2,752.87	-320.01	-591.14	1,910,187.96	2,719,716.66	36.24969574	-107.84477976
3,000.00	27.66	241.572	2,841.45	-342.10	-631.96	1,910,165.86	2,719,675.84	36.24963502	-107.84491819
3,100.00	27.66	241.572	2,930.02	-364.20	-672.78	1,910,143.76	2,719,635.03	36.24957431	-107.84505661

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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
3,200.00	27.66	241.572	3,018.60	-386.30	-713.60	1,910,121.67	2,719,594.21	36.24951360	-107.84519504
3,300.00	27.66	241.572	3,107.17	-408.39	-754.41	1,910,099.57	2,719,553.39	36.24945288	-107.84533346
3,400.00	27.66	241.572	3,195.75	-430.49	-795.23	1,910,077.47	2,719,512.57	36.24939217	-107.84547189
3,500.00	27.66	241.572	3,284.33	-452.59	-836.05	1,910,055.38	2,719,471.76	36.24933145	-107.84561031
3,600.00	27.66	241.572	3,372.90	-474.68	-876.87	1,910,033.28	2,719,430.94	36.24927074	-107.84574874
3,700.00	27.66	241.572	3,461.48	-496.78	-917.69	1,910,011.19	2,719,390.12	36.24921002	-107.84588716
3,800.00	27.66	241.572	3,550.05	-518.88	-958.50	1,909,989.09	2,719,349.30	36.24914931	-107.84602559
3,887.38	27.66	241.572	3,627.45	-538.18	-994.17	1,909,969.78	2,719,313.63	36.24909625	-107.84614655
Point Lookout									
3,900.00	27.66	241.572	3,638.63	-540.97	-999.32	1,909,966.99	2,719,308.48	36.24908859	-107.84616401
4,000.00	27.66	241.572	3,727.20	-563.07	-1,040.14	1,909,944.90	2,719,267.67	36.24902788	-107.84630244
4,073.36	27.66	241.572	3,792.18	-579.28	-1,070.08	1,909,928.69	2,719,237.72	36.24898334	-107.84640398
Mancos									
4,100.00	27.66	241.572	3,815.78	-585.16	-1,080.96	1,909,922.80	2,719,226.85	36.24896716	-107.84644086
4,200.00	27.66	241.572	3,904.36	-607.26	-1,121.77	1,909,900.70	2,719,186.03	36.24890645	-107.84657928
4,300.00	27.66	241.572	3,992.93	-629.36	-1,162.59	1,909,878.61	2,719,145.21	36.24884573	-107.84671771
4,400.00	27.66	241.572	4,081.51	-651.45	-1,203.41	1,909,856.51	2,719,104.39	36.24878502	-107.84685613
4,473.49	27.66	241.572	4,146.60	-667.69	-1,233.41	1,909,840.27	2,719,074.40	36.24874040	-107.84695786
MNCS_A									
4,500.00	27.66	241.572	4,170.08	-673.55	-1,244.23	1,909,834.42	2,719,063.58	36.24872430	-107.84699455
4,591.84	27.66	241.572	4,251.43	-693.84	-1,281.71	1,909,814.12	2,719,026.09	36.24866854	-107.84712168
MNCS_B									
4,600.00	27.66	241.572	4,258.66	-695.65	-1,285.05	1,909,812.32	2,719,022.76	36.24866358	-107.84713297
4,635.62	27.66	241.572	4,290.21	-703.52	-1,299.59	1,909,804.45	2,719,008.22	36.24864195	-107.84718229
Begin 10°/100' build/turn									
4,650.00	27.34	238.533	4,302.97	-706.83	-1,305.34	1,909,801.14	2,719,002.47	36.24863285	-107.84720179
4,681.85	26.89	231.614	4,331.32	-715.12	-1,317.22	1,909,792.85	2,718,990.58	36.24861007	-107.84724209
MNCS_C									
4,700.00	26.78	227.598	4,347.52	-720.43	-1,323.46	1,909,787.54	2,718,984.35	36.24859549	-107.84726324
4,726.65	26.83	221.687	4,371.31	-728.97	-1,331.90	1,909,779.00	2,718,975.91	36.24857202	-107.84729185
MNCS_Cms									
4,750.00	27.08	216.563	4,392.13	-737.17	-1,338.57	1,909,770.79	2,718,969.24	36.24854948	-107.84731446
4,800.00	28.20	206.048	4,436.45	-756.94	-1,350.54	1,909,751.03	2,718,957.27	36.24849518	-107.84735506
4,850.00	30.06	196.503	4,480.14	-779.58	-1,359.29	1,909,728.39	2,718,948.51	36.24843299	-107.84738473
4,886.67	31.82	190.243	4,511.60	-797.90	-1,363.62	1,909,710.06	2,718,944.18	36.24838264	-107.84739941
MNCS_D									
4,900.00	32.54	188.126	4,522.88	-804.91	-1,364.75	1,909,703.05	2,718,943.05	36.24836339	-107.84740324
4,950.00	35.49	180.904	4,564.34	-832.75	-1,366.88	1,909,675.21	2,718,940.92	36.24828691	-107.84741046
5,000.00	38.81	174.710	4,604.20	-862.89	-1,365.67	1,909,645.08	2,718,942.14	36.24820413	-107.84740632
5,050.00	42.42	169.383	4,642.16	-895.08	-1,361.11	1,909,612.88	2,718,946.69	36.24811569	-107.84739085
5,050.29	42.44	169.354	4,642.38	-895.28	-1,361.08	1,909,612.69	2,718,946.73	36.24811516	-107.84739073
MNCS_E									
5,100.00	46.24	164.761	4,677.94	-929.10	-1,353.26	1,909,578.87	2,718,954.55	36.24802224	-107.84736419
5,150.00	50.22	160.705	4,711.24	-964.68	-1,342.15	1,909,543.29	2,718,965.65	36.24792452	-107.84732652
5,160.89	51.11	159.885	4,718.15	-972.61	-1,339.31	1,909,535.36	2,718,968.49	36.24790273	-107.84731688
MNCS_F									
5,200.00	54.33	157.100	4,741.84	-1,001.54	-1,327.89	1,909,506.42	2,718,979.91	36.24782325	-107.84727814
5,250.00	58.53	153.852	4,769.48	-1,039.42	-1,310.58	1,909,468.55	2,718,997.22	36.24771921	-107.84721941
5,268.77	60.13	152.709	4,779.06	-1,053.84	-1,303.32	1,909,454.13	2,719,004.48	36.24767960	-107.84719478
MNCS_G									
5,300.00	62.81	150.887	4,793.97	-1,078.01	-1,290.35	1,909,429.96	2,719,017.45	36.24761320	-107.84715079
5,349.25	67.09	148.182	4,814.82	-1,116.45	-1,267.72	1,909,391.52	2,719,040.08	36.24750762	-107.84707402
MNCS_H									

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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
5,350.00	67.15	148.142	4,815.11	-1,117.03	-1,267.36	1,909,390.93	2,719,040.45	36.24750601	-107.84707278
5,382.54	70.00	146.450	4,827.00	-1,142.52	-1,250.99	1,909,365.45	2,719,056.82	36.24743601	-107.84701726
5,400.00	71.49	145.490	4,832.76	-1,156.17	-1,241.77	1,909,351.79	2,719,066.04	36.24739850	-107.84698597
5,450.00	75.79	142.827	4,846.84	-1,195.05	-1,213.67	1,909,312.92	2,719,094.13	36.24729172	-107.84689068
5,494.64	79.65	140.535	4,856.33	-1,229.26	-1,186.63	1,909,278.71	2,719,121.18	36.24719776	-107.84679895
MNCS_I									
5,500.00	80.12	140.264	4,857.27	-1,233.32	-1,183.27	1,909,274.65	2,719,124.54	36.24718659	-107.84678754
5,550.00	84.46	137.768	4,863.98	-1,270.71	-1,150.78	1,909,237.26	2,719,157.03	36.24708390	-107.84667734
5,556.16	85.00	137.464	4,864.55	-1,275.24	-1,146.64	1,909,232.73	2,719,161.16	36.24707145	-107.84666331
7" Intermediate Casing									
5,600.00	88.82	135.309	4,866.91	-1,306.92	-1,116.45	1,909,201.04	2,719,191.35	36.24698442	-107.84656091
5,606.30	89.37	135.000	4,867.01	-1,311.39	-1,112.01	1,909,196.58	2,719,195.79	36.24697216	-107.84654585
Begin 89.37° lateral									
5,700.00	89.37	135.000	4,868.04	-1,377.64	-1,045.76	1,909,130.32	2,719,262.05	36.24679018	-107.84632113
5,800.00	89.37	135.000	4,869.15	-1,448.35	-975.05	1,909,059.62	2,719,332.75	36.24659597	-107.84608130
5,900.00	89.37	135.000	4,870.25	-1,519.06	-904.35	1,908,988.91	2,719,403.46	36.24640176	-107.84584148
6,000.00	89.37	135.000	4,871.35	-1,589.76	-833.64	1,908,918.21	2,719,474.16	36.24620755	-107.84560165
6,100.00	89.37	135.000	4,872.45	-1,660.47	-762.93	1,908,847.50	2,719,544.87	36.24601334	-107.84536183
6,200.00	89.37	135.000	4,873.56	-1,731.18	-692.23	1,908,776.79	2,719,615.58	36.24581912	-107.84512201
6,300.00	89.37	135.000	4,874.66	-1,801.88	-621.52	1,908,706.09	2,719,686.28	36.24562491	-107.84488219
6,400.00	89.37	135.000	4,875.76	-1,872.59	-550.81	1,908,635.38	2,719,756.99	36.24543070	-107.84464238
6,500.00	89.37	135.000	4,876.87	-1,943.29	-480.11	1,908,564.67	2,719,827.70	36.24523648	-107.84440256
6,600.00	89.37	135.000	4,877.97	-2,014.00	-409.40	1,908,493.97	2,719,898.40	36.24504227	-107.84416274
6,700.00	89.37	135.000	4,879.07	-2,084.71	-338.70	1,908,423.26	2,719,969.11	36.24484805	-107.84392293
6,800.00	89.37	135.000	4,880.18	-2,155.41	-267.99	1,908,352.55	2,720,039.81	36.24465384	-107.84368312
6,900.00	89.37	135.000	4,881.28	-2,226.12	-197.28	1,908,281.85	2,720,110.52	36.24445962	-107.84344331
7,000.00	89.37	135.000	4,882.38	-2,296.83	-126.58	1,908,211.14	2,720,181.23	36.24426541	-107.84320350
7,100.00	89.37	135.000	4,883.49	-2,367.53	-55.87	1,908,140.44	2,720,251.93	36.24407119	-107.84296369
7,200.00	89.37	135.000	4,884.59	-2,438.24	14.84	1,908,069.73	2,720,322.64	36.24387697	-107.84272388
7,300.00	89.37	135.000	4,885.69	-2,508.95	85.54	1,907,999.02	2,720,393.34	36.24368276	-107.84248407
7,400.00	89.37	135.000	4,886.80	-2,579.65	156.25	1,907,928.32	2,720,464.05	36.24348854	-107.84224427
7,500.00	89.37	135.000	4,887.90	-2,650.36	226.95	1,907,857.61	2,720,534.76	36.24329432	-107.84200446
7,600.00	89.37	135.000	4,889.00	-2,721.07	297.66	1,907,786.90	2,720,605.46	36.24310010	-107.84176466
7,700.00	89.37	135.000	4,890.10	-2,791.77	368.37	1,907,716.20	2,720,676.17	36.24290588	-107.84152485
7,800.00	89.37	135.000	4,891.21	-2,862.48	439.07	1,907,645.49	2,720,746.88	36.24271166	-107.84128505
7,900.00	89.37	135.000	4,892.31	-2,933.18	509.78	1,907,574.79	2,720,817.58	36.24251744	-107.84104525
8,000.00	89.37	135.000	4,893.41	-3,003.89	580.49	1,907,504.08	2,720,888.29	36.24232322	-107.84080546
8,100.00	89.37	135.000	4,894.52	-3,074.60	651.19	1,907,433.37	2,720,958.99	36.24212900	-107.84056566
8,200.00	89.37	135.000	4,895.62	-3,145.30	721.90	1,907,362.67	2,721,029.70	36.24193478	-107.84032586
8,300.00	89.37	135.000	4,896.72	-3,216.01	792.61	1,907,291.96	2,721,100.41	36.24174056	-107.84008607
8,400.00	89.37	135.000	4,897.83	-3,286.72	863.31	1,907,221.25	2,721,171.11	36.24154633	-107.83984627
8,500.00	89.37	135.000	4,898.93	-3,357.42	934.02	1,907,150.55	2,721,241.82	36.24135211	-107.83960648
8,600.00	89.37	135.000	4,900.03	-3,428.13	1,004.72	1,907,079.84	2,721,312.53	36.24115789	-107.83936669
8,700.00	89.37	135.000	4,901.14	-3,498.84	1,075.43	1,907,009.13	2,721,383.23	36.24096366	-107.83912690
8,800.00	89.37	135.000	4,902.24	-3,569.54	1,146.14	1,906,938.43	2,721,453.94	36.24076944	-107.83888711
8,900.00	89.37	135.000	4,903.34	-3,640.25	1,216.84	1,906,867.72	2,721,524.64	36.24057521	-107.83864732
9,000.00	89.37	135.000	4,904.45	-3,710.96	1,287.55	1,906,797.02	2,721,595.35	36.24038099	-107.83840753
9,100.00	89.37	135.000	4,905.55	-3,781.66	1,358.26	1,906,726.31	2,721,666.06	36.24018676	-107.83816775
9,200.00	89.37	135.000	4,906.65	-3,852.37	1,428.96	1,906,655.60	2,721,736.76	36.23999253	-107.83792796
9,300.00	89.37	135.000	4,907.75	-3,923.08	1,499.67	1,906,584.90	2,721,807.47	36.23979831	-107.83768818
9,400.00	89.37	135.000	4,908.86	-3,993.78	1,570.37	1,906,514.19	2,721,878.17	36.23960408	-107.83744840
9,500.00	89.37	135.000	4,909.96	-4,064.49	1,641.08	1,906,443.48	2,721,948.88	36.23940985	-107.83720862
9,600.00	89.37	135.000	4,911.06	-4,135.19	1,711.79	1,906,372.78	2,722,019.59	36.23921562	-107.83696884
9,700.00	89.37	135.000	4,912.17	-4,205.90	1,782.49	1,906,302.07	2,722,090.29	36.23902139	-107.83672906

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**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	89.37	135.000	4,913.27	-4,276.61	1,853.20	1,906,231.37	2,722,161.00	36.23882716	-107.83648928
9,900.00	89.37	135.000	4,914.37	-4,347.31	1,923.91	1,906,160.66	2,722,231.71	36.23863293	-107.83624951
10,000.00	89.37	135.000	4,915.48	-4,418.02	1,994.61	1,906,089.95	2,722,302.41	36.23843870	-107.83600973
10,100.00	89.37	135.000	4,916.58	-4,488.73	2,065.32	1,906,019.25	2,722,373.12	36.23824447	-107.83576996
10,200.00	89.37	135.000	4,917.68	-4,559.43	2,136.02	1,905,948.54	2,722,443.82	36.23805024	-107.83553018
10,300.00	89.37	135.000	4,918.79	-4,630.14	2,206.73	1,905,877.83	2,722,514.53	36.23785601	-107.83529041
10,400.00	89.37	135.000	4,919.89	-4,700.85	2,277.44	1,905,807.13	2,722,585.24	36.23766177	-107.83505064
10,500.00	89.37	135.000	4,920.99	-4,771.55	2,348.14	1,905,736.42	2,722,655.94	36.23746754	-107.83481087
10,600.00	89.37	135.000	4,922.10	-4,842.26	2,418.85	1,905,665.72	2,722,726.65	36.23727331	-107.83457111
10,700.00	89.37	135.000	4,923.20	-4,912.97	2,489.56	1,905,595.01	2,722,797.35	36.23707907	-107.83433134
10,800.00	89.37	135.000	4,924.30	-4,983.67	2,560.26	1,905,524.30	2,722,868.06	36.23688484	-107.83409157
10,900.00	89.37	135.000	4,925.40	-5,054.38	2,630.97	1,905,453.60	2,722,938.77	36.23669060	-107.83385181
11,000.00	89.37	135.000	4,926.51	-5,125.08	2,701.68	1,905,382.89	2,723,009.47	36.23649637	-107.83361205
11,100.00	89.37	135.000	4,927.61	-5,195.79	2,772.38	1,905,312.18	2,723,080.18	36.23630213	-107.83337228
11,200.00	89.37	135.000	4,928.71	-5,266.50	2,843.09	1,905,241.48	2,723,150.89	36.23610790	-107.83313252
11,300.00	89.37	135.000	4,929.82	-5,337.20	2,913.79	1,905,170.77	2,723,221.59	36.23591366	-107.83289276
11,400.00	89.37	135.000	4,930.92	-5,407.91	2,984.50	1,905,100.06	2,723,292.30	36.23571942	-107.83265301
11,500.00	89.37	135.000	4,932.02	-5,478.62	3,055.21	1,905,029.36	2,723,363.00	36.23552518	-107.83241325
11,600.00	89.37	135.000	4,933.13	-5,549.32	3,125.91	1,904,958.65	2,723,433.71	36.23533094	-107.83217349
11,700.00	89.37	135.000	4,934.23	-5,620.03	3,196.62	1,904,887.95	2,723,504.42	36.23513671	-107.83193374
11,800.00	89.37	135.000	4,935.33	-5,690.74	3,267.33	1,904,817.24	2,723,575.12	36.23494247	-107.83169398
11,860.47	89.37	135.000	4,936.00	-5,733.50	3,310.09	1,904,774.48	2,723,617.88	36.23482500	-107.83154900
PBHL/TD @ 11860.47 MD 4936.00 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
Ponderosa 107 vs=0	0.00	0.000	4,866.00	-1,211.75	-1,211.75	1,909,296.22	2,719,096.06	36.24724584	-107.84688415
- plan misses target center by 17.59ft at 5468.05ft MD (4851.03 TVD, -1208.95 N, -1202.95 E)									
- Point									
Ponderosa 107 FTP 462	0.00	0.000	4,866.00	-1,142.52	-1,280.99	1,909,365.45	2,719,026.82	36.24743600	-107.84711900
- plan misses target center by 49.17ft at 5381.70ft MD (4826.71 TVD, -1141.85 N, -1251.43 E)									
- Point									
Ponderosa 107 LTP 234	0.00	0.000	4,936.00	-5,733.50	3,310.09	1,904,774.48	2,723,617.88	36.23482500	-107.83154900
- plan hits target center									
- Point									

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
5,556.16	4,864.55	7" Intermediate Casing	7	8-3/4

Planning Report - Geographic

Database:	DT_Jul1724_v17	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site:	Ponderosa P01 (107 & 135 Escrito 105)	**North Reference:**	Grid
Well:	Ponderosa Unit 107H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
471.00	471.00	Ojo Alamo		0.630	134.999
551.00	551.00	Kirtland		0.630	134.999
811.00	811.00	Fruitland		0.630	134.999
1,251.68	1,250.95	Pictured Cliffs		0.630	134.999
1,403.87	1,400.87	Lewis		0.630	134.999
1,611.07	1,600.70	Chacra		0.630	134.999
2,748.99	2,619.11	Cliff House		0.630	134.999
2,760.26	2,629.10	Menefee		0.630	134.999
3,887.38	3,627.45	Point Lookout		0.630	134.999
4,073.36	3,792.18	Mancos		0.630	134.999
4,473.49	4,146.60	MNCS_A		0.630	134.999
4,591.84	4,251.43	MNCS_B		0.630	134.999
4,681.85	4,331.32	MNCS_C		0.630	134.999
4,726.65	4,371.31	MNCS_Cms		0.630	134.999
4,886.67	4,511.60	MNCS_D		0.630	134.999
5,050.29	4,642.38	MNCS_E		0.630	134.999
5,160.89	4,718.15	MNCS_F		0.630	134.999
5,268.77	4,779.06	MNCS_G		0.630	134.999
5,349.25	4,814.82	MNCS_H		0.630	134.999
5,494.64	4,856.33	MNCS_I		0.630	134.999

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,921.84	1,886.46	-103.87	-191.88	Begin 27.66° tangent
4,635.62	4,290.21	-703.52	-1,299.59	Begin 10°/100' build/turn
5,382.54	4,827.00	-1,142.52	-1,250.99	
5,606.30	4,867.01	-1,311.39	-1,112.01	Begin 89.37° lateral
11,860.47	4,936.00	-5,733.50	3,310.09	PBHL/TD @ 11860.47 MD 4936.00 TVD

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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 1,386.05ft	**Error Surface:**	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 11/27/2024

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	11,860.47	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
Kimbeto Wash 771 Pad (767, 768, 769, 770 & 771)						
KWU Well No. 771H - Original Hole - Surveys Original Ho	11,860.47	12,515.00	1,055.86	981.93	14.282	CC, ES, SF
Kimbeto Wash 772 Pad (772, 774, 793, 794 & 795)						
Kimbeto Wash Unit 774H - Original Hole - Surveys Origin	11,399.44	20,066.00	1,027.46	531.08	2.070	CC
Kimbeto Wash Unit 774H - Original Hole - Surveys Origin	11,400.00	20,066.00	1,027.46	531.07	2.070	ES, SF
Kimbeto Wash Unit 793H - Original Hole - Surveys Origin	11,860.47	18,922.00	643.06	402.24	2.670	CC, ES, SF
Ponderosa P01 (107 & 135 Escrito 105)						
Escrito P01 2310 Com 105H - Original Hole - rev0	1,000.00	1,000.00	20.12	13.12	2.873	CC
Escrito P01 2310 Com 105H - Original Hole - rev0	1,100.00	1,100.87	20.48	12.80	2.665	ES
Escrito P01 2310 Com 105H - Original Hole - rev0	5,300.00	5,297.24	91.85	47.44	2.068	SF
Ponderosa Unit 135H - Original Hole - rev0	867.90	870.17	21.97	15.91	3.629	CC, ES
Ponderosa Unit 135H - Original Hole - rev0	11,300.00	11,350.90	781.64	558.81	3.508	SF

Offset Design: Kimbeto Wash 771 Pad (767, 768, 769, 770 & 771) - KWU Well No. 771H - Original Hole - Surveys Original Hole

Offset Site Error: 0.00 ft

Survey Program: 359-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
11,600.00	4,933.13	12,515.00	4,511.19	147.50	182.91	-59.555	-6,301.35	4,192.21	1,310.00	1,240.35	69.65	18.809	
11,700.00	4,934.23	12,515.00	4,511.19	149.77	182.91	-59.555	-6,301.35	4,192.21	1,212.11	1,141.06	71.05	17.060	
11,800.00	4,935.33	12,515.00	4,511.19	152.03	182.91	-59.555	-6,301.35	4,192.21	1,114.60	1,041.87	72.73	15.324	
11,860.47	4,936.00	12,515.00	4,511.19	153.41	182.91	-59.555	-6,301.35	4,192.21	1,055.86	981.93	73.93	14.282	CC, ES, SF

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 Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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: Kimbeto Wash 772 Pad (772, 774, 793, 794 & 795) - Kimbeto Wash Unit 774H - Original Hole - Surveys Original Hole

Offset Site Error: 0.00 ft

Survey Program: 406-MWD, 3554-MWD, 20066-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
10,500.00	4,920.99	20,066.00	4,464.36	122.63	360.93	81.714	-6,127.61	2,266.32	1,365.53	1,047.38	318.15	4.292	
10,600.00	4,922.10	20,066.00	4,464.36	124.88	360.93	81.714	-6,127.61	2,266.32	1,301.83	963.52	338.32	3.848	
10,700.00	4,923.20	20,066.00	4,464.36	127.14	360.93	81.714	-6,127.61	2,266.32	1,242.93	882.74	360.19	3.451	
10,800.00	4,924.30	20,066.00	4,464.36	129.40	360.93	81.714	-6,127.61	2,266.32	1,189.54	805.98	383.56	3.101	
10,900.00	4,925.40	20,066.00	4,464.36	131.65	360.93	81.714	-6,127.61	2,266.32	1,142.41	734.49	407.92	2.801	
11,000.00	4,926.51	20,066.00	4,464.36	133.91	360.93	81.714	-6,127.61	2,266.32	1,102.37	669.99	432.38	2.550	
11,100.00	4,927.61	20,066.00	4,464.36	136.18	360.93	81.714	-6,127.61	2,266.32	1,070.20	614.68	455.52	2.349	
11,200.00	4,928.71	20,066.00	4,464.36	138.44	360.93	81.714	-6,127.61	2,266.32	1,046.63	571.25	475.39	2.202	
11,300.00	4,929.82	20,066.00	4,464.36	140.70	360.93	81.714	-6,127.61	2,266.32	1,032.26	542.57	489.68	2.108	
11,399.44	4,930.91	20,066.00	4,464.36	142.95	360.93	81.714	-6,127.61	2,266.32	1,027.46	531.08	496.37	2.070 CC	
11,400.00	4,930.92	20,066.00	4,464.36	142.97	360.93	81.714	-6,127.61	2,266.32	1,027.46	531.07	496.39	2.070 ES, SF	
11,500.00	4,932.02	20,000.77	4,467.77	145.23	359.88	81.884	-6,175.50	2,310.47	1,030.30	532.86	497.44	2.071	
11,600.00	4,933.13	19,900.94	4,473.00	147.50	358.28	82.142	-6,248.81	2,378.05	1,033.75	535.20	498.55	2.074	
11,700.00	4,934.23	19,805.68	4,478.01	149.77	356.19	82.390	-6,318.89	2,442.37	1,037.43	538.42	499.00	2.079	
11,800.00	4,935.33	19,696.30	4,484.05	152.03	353.73	82.687	-6,399.22	2,516.36	1,040.93	541.36	499.56	2.084	
11,860.47	4,936.00	19,632.46	4,487.19	153.41	352.29	82.835	-6,445.80	2,559.90	1,042.66	542.85	499.81	2.086	

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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: Kimbeto Wash 772 Pad (772, 774, 793, 794 & 795) - Kimbeto Wash Unit 793H - Original Hole - Surveys Original Hole

Offset Site Error: 0.00 ft

Survey Program: 405-MWD, 3457-MWD, 18922-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
10,800.00	4,924.30	18,922.00	4,117.17	129.40	346.93	35.976	-6,114.35	3,175.36	1,376.79	1,263.76	113.02	12.182	
10,900.00	4,925.40	18,922.00	4,117.17	131.65	346.93	35.976	-6,114.35	3,175.36	1,288.31	1,169.88	118.43	10.878	
11,000.00	4,926.51	18,922.00	4,117.17	133.91	346.93	35.976	-6,114.35	3,175.36	1,201.64	1,076.91	124.73	9.634	
11,100.00	4,927.61	18,922.00	4,117.17	136.18	346.93	35.976	-6,114.35	3,175.36	1,117.21	985.09	132.12	8.456	
11,200.00	4,928.71	18,922.00	4,117.17	138.44	346.93	35.976	-6,114.35	3,175.36	1,035.55	894.74	140.80	7.354	
11,300.00	4,929.82	18,922.00	4,117.17	140.70	346.93	35.976	-6,114.35	3,175.36	957.37	806.31	151.06	6.338	
11,400.00	4,930.92	18,922.00	4,117.17	142.97	346.93	35.976	-6,114.35	3,175.36	883.61	720.44	163.16	5.415	
11,500.00	4,932.02	18,922.00	4,117.17	145.23	346.93	35.976	-6,114.35	3,175.36	815.45	638.10	177.35	4.598	
11,600.00	4,933.13	18,922.00	4,117.17	147.50	346.93	35.976	-6,114.35	3,175.36	754.43	560.73	193.70	3.895	
11,700.00	4,934.23	18,922.00	4,117.17	149.77	346.93	35.976	-6,114.35	3,175.36	702.40	490.59	211.81	3.316	
11,800.00	4,935.33	18,922.00	4,117.17	152.03	346.93	35.976	-6,114.35	3,175.36	661.49	431.08	230.41	2.871	
11,860.47	4,936.00	18,922.00	4,117.17	153.41	346.93	35.976	-6,114.35	3,175.36	643.06	402.24	240.82	2.670	CC, ES, SF

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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: Ponderosa P01 (107 & 135 Escrito 105) - Escrito P01 2310 Com 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	75.330	5.09	19.46	20.12				
100.00	100.00	100.00	100.00	0.27	0.27	75.330	5.09	19.46	20.12	19.57	0.55	36.678	
200.00	200.00	200.00	200.00	0.63	0.63	75.330	5.09	19.46	20.12	18.85	1.27	15.897	
300.00	300.00	300.00	300.00	0.99	0.99	75.330	5.09	19.46	20.12	18.13	1.98	10.148	
400.00	400.00	400.00	400.00	1.35	1.35	75.330	5.09	19.46	20.12	17.42	2.70	7.452	
500.00	500.00	500.00	500.00	1.71	1.71	75.330	5.09	19.46	20.12	16.70	3.42	5.888	
600.00	600.00	600.00	600.00	2.07	2.07	75.330	5.09	19.46	20.12	15.98	4.13	4.867	
700.00	700.00	700.00	700.00	2.43	2.43	75.330	5.09	19.46	20.12	15.27	4.85	4.148	
800.00	800.00	800.00	800.00	2.78	2.78	75.330	5.09	19.46	20.12	14.55	5.57	3.613	
900.00	900.00	900.00	900.00	3.14	3.14	75.330	5.09	19.46	20.12	13.83	6.28	3.201	
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	75.330	5.09	19.46	20.12	13.12	7.00	2.873 CC	
1,100.00	1,099.95	1,100.87	1,100.83	3.85	3.85	-163.843	3.10	17.70	20.48	12.80	7.68	2.665 ES	
1,200.00	1,199.63	1,201.69	1,201.32	4.19	4.19	-157.194	-2.88	12.41	21.78	13.45	8.34	2.613	
1,300.00	1,298.77	1,302.41	1,301.15	4.54	4.53	-147.921	-12.81	3.64	24.49	15.48	9.01	2.719	
1,400.00	1,397.08	1,402.97	1,399.98	4.91	4.90	-138.201	-26.64	-8.59	29.07	19.34	9.73	2.988	
1,500.00	1,494.31	1,503.32	1,497.51	5.32	5.30	-129.654	-44.32	-24.20	35.76	25.23	10.52	3.398	
1,600.00	1,590.18	1,603.42	1,593.43	5.76	5.75	-122.837	-65.74	-43.14	44.58	33.17	11.41	3.907	
1,700.00	1,684.43	1,703.23	1,687.45	6.26	6.24	-117.615	-90.83	-65.31	55.45	43.04	12.40	4.470	
1,800.00	1,776.81	1,802.71	1,779.29	6.83	6.79	-113.638	-119.46	-90.61	68.23	54.72	13.51	5.049	
1,900.00	1,867.06	1,901.83	1,868.69	7.47	7.41	-110.570	-151.51	-118.94	82.84	68.08	14.76	5.613	
2,000.00	1,955.69	2,000.56	1,955.41	8.18	8.10	-107.635	-186.85	-150.16	98.68	82.53	16.14	6.112	
2,100.00	2,044.27	2,099.01	2,040.35	8.93	8.85	-104.055	-224.15	-183.13	114.89	97.26	17.63	6.517	
2,200.00	2,132.84	2,197.46	2,125.26	9.70	9.63	-101.345	-261.48	-216.12	131.44	112.27	19.16	6.859	
2,300.00	2,221.42	2,295.92	2,210.18	10.50	10.44	-99.244	-298.82	-249.11	148.21	127.47	20.73	7.149	
2,400.00	2,309.99	2,394.37	2,295.10	11.32	11.27	-97.571	-336.15	-282.11	165.13	142.80	22.33	7.395	
2,500.00	2,398.57	2,492.82	2,380.02	12.15	12.11	-96.209	-373.48	-315.10	182.17	158.22	23.95	7.605	
2,600.00	2,487.15	2,591.28	2,464.93	12.99	12.97	-95.080	-410.82	-348.09	199.29	173.70	25.59	7.787	
2,700.00	2,575.72	2,689.73	2,549.85	13.84	13.83	-94.130	-448.15	-381.08	216.47	189.22	27.25	7.944	
2,800.00	2,664.30	2,788.19	2,634.77	14.69	14.71	-93.320	-485.48	-414.08	233.70	204.79	28.92	8.082	
2,900.00	2,752.87	2,886.64	2,719.69	15.56	15.59	-92.621	-522.82	-447.07	250.98	220.38	30.60	8.202	
3,000.00	2,841.45	2,985.09	2,804.60	16.42	16.48	-92.012	-560.15	-480.06	268.28	235.99	32.29	8.309	
3,100.00	2,930.02	3,083.55	2,889.52	17.30	17.37	-91.477	-597.48	-513.05	285.61	251.63	33.98	8.405	
3,200.00	3,018.60	3,182.00	2,974.44	18.17	18.27	-91.003	-634.82	-546.05	302.96	267.27	35.68	8.490	
3,300.00	3,107.17	3,280.46	3,059.35	19.05	19.17	-90.580	-672.15	-579.04	320.33	282.93	37.39	8.567	
3,400.00	3,195.75	3,378.91	3,144.27	19.94	20.07	-90.201	-709.48	-612.03	337.71	298.61	39.11	8.636	
3,500.00	3,284.33	3,477.36	3,229.19	20.82	20.98	-89.859	-746.82	-645.02	355.11	314.28	40.82	8.699	
3,600.00	3,372.90	3,575.82	3,314.11	21.71	21.89	-89.549	-784.15	-678.02	372.51	329.97	42.54	8.756	
3,700.00	3,461.48	3,674.27	3,399.02	22.60	22.80	-89.266	-821.48	-711.01	389.93	345.66	44.27	8.809	
3,800.00	3,550.05	3,772.73	3,483.94	23.49	23.71	-89.008	-858.81	-744.00	407.36	361.36	45.99	8.857	
3,900.00	3,638.63	3,871.18	3,568.86	24.38	24.62	-88.771	-896.15	-776.99	424.79	377.07	47.72	8.901	
4,000.00	3,727.20	3,969.64	3,653.78	25.27	25.54	-88.553	-933.48	-809.99	442.23	392.77	49.46	8.942	
4,100.00	3,815.78	4,068.09	3,738.69	26.17	26.46	-88.351	-970.81	-842.98	459.68	408.49	51.19	8.980	
4,200.00	3,904.36	4,166.54	3,823.61	27.07	27.38	-88.164	-1,008.15	-875.97	477.13	424.20	52.93	9.015	
4,300.00	3,992.93	4,265.00	3,908.53	27.96	28.30	-87.990	-1,045.48	-908.96	494.58	439.92	54.66	9.048	
4,400.00	4,081.51	4,363.45	3,993.44	28.86	29.22	-87.828	-1,082.81	-941.96	512.04	455.64	56.40	9.078	
4,500.00	4,170.08	4,461.91	4,078.36	29.76	30.14	-87.677	-1,120.15	-974.95	529.50	471.36	58.14	9.107	
4,600.00	4,258.66	4,560.36	4,163.28	30.66	31.06	-87.535	-1,157.48	-1,007.94	546.97	487.08	59.88	9.134	
4,700.00	4,347.52	4,811.11	4,381.98	31.54	33.31	-74.464	-1,233.87	-1,101.22	560.54	498.27	62.27	9.002	
4,800.00	4,436.45	5,463.28	4,826.74	32.30	35.68	-11.313	-994.90	-1,456.81	469.30	446.35	22.95	20.447	
4,900.00	4,522.88	5,461.37	4,826.11	32.93	35.68	83.153	-996.39	-1,455.79	369.99	347.52	22.48	16.461	
5,000.00	4,604.20	5,430.76	4,815.24	33.42	35.67	100.099	-1,019.99	-1,439.60	273.29	249.81	23.47	11.643	
5,100.00	4,677.94	5,388.57	4,798.14	33.79	35.65	100.314	-1,051.03	-1,416.74	182.61	157.19	25.42	7.183	

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 Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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: Ponderosa P01 (107 & 135 Escrito 105) - Escrito P01 2310 Com 105H - 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
5,200.00	4,741.84	5,343.69	4,777.32	34.06	35.61	90.075	-1,081.97	-1,391.79	108.67	77.56	31.12	3.493	
5,269.34	4,779.34	5,311.61	4,760.85	34.19	35.57	75.903	-1,102.66	-1,373.64	87.52	45.57	41.95	2.086	
5,300.00	4,793.97	5,297.24	4,753.06	34.25	35.56	68.007	-1,111.53	-1,365.45	91.85	47.44	44.41	2.068 SF	
5,400.00	4,832.76	5,250.00	4,725.71	34.36	35.47	41.206	-1,138.83	-1,338.29	145.18	101.47	43.70	3.322	
5,500.00	4,857.27	5,200.00	4,694.05	34.40	35.36	21.006	-1,164.48	-1,309.34	217.43	171.41	46.03	4.724	
5,600.00	4,866.91	5,150.00	4,659.82	34.39	35.21	8.945	-1,186.60	-1,280.41	290.25	240.64	49.61	5.851	
5,700.00	4,868.04	5,100.00	4,623.28	34.37	35.03	5.569	-1,205.03	-1,251.71	363.48	310.94	52.55	6.917	
5,800.00	4,869.15	5,067.16	4,598.16	34.38	34.89	3.748	-1,215.06	-1,233.09	440.96	385.00	55.95	7.881	
5,900.00	4,870.25	5,033.70	4,571.75	34.43	34.73	2.001	-1,223.54	-1,214.38	522.07	464.04	58.03	8.997	
6,000.00	4,871.35	5,000.00	4,544.42	34.53	34.57	0.347	-1,230.28	-1,195.87	606.08	546.73	59.34	10.213	
6,100.00	4,872.45	4,980.14	4,528.00	34.73	34.45	-0.583	-1,233.40	-1,185.15	692.32	631.41	60.92	11.365	
6,200.00	4,873.56	4,950.00	4,502.69	35.06	34.28	-1.933	-1,236.90	-1,169.16	780.59	719.04	61.55	12.683	
6,300.00	4,874.66	4,950.00	4,502.69	35.62	34.28	-1.933	-1,236.90	-1,169.16	870.33	807.21	63.11	13.790	
6,400.00	4,875.76	4,923.06	4,479.73	36.49	34.11	-3.081	-1,238.78	-1,155.20	961.16	897.79	63.37	15.167	
6,500.00	4,876.87	4,900.00	4,459.85	37.68	33.96	-4.024	-1,239.45	-1,143.53	1,053.29	989.64	63.65	16.549	
6,600.00	4,877.97	4,900.00	4,459.85	39.15	33.96	-4.024	-1,239.45	-1,143.53	1,146.16	1,081.70	64.46	17.780	
6,700.00	4,879.07	4,883.46	4,445.50	40.80	33.85	-4.678	-1,239.39	-1,135.32	1,239.82	1,175.13	64.69	19.167	
6,800.00	4,880.18	4,872.88	4,436.27	42.57	33.77	-5.087	-1,239.12	-1,130.15	1,334.15	1,269.17	64.99	20.530	

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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: Ponderosa P01 (107 & 135 Escrito 105) - Ponderosa Unit 135H - 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	75.223	10.19	38.63	39.95				
100.00	100.00	100.00	100.00	0.27	0.27	75.223	10.19	38.63	39.95	39.40	0.55	72.835	
200.00	200.00	200.00	200.00	0.63	0.63	75.223	10.19	38.63	39.95	38.68	1.27	31.569	
300.00	300.00	300.00	300.00	0.99	0.99	75.223	10.19	38.63	39.95	37.97	1.98	20.152	
400.00	400.00	400.00	400.00	1.35	1.35	75.223	10.19	38.63	39.95	37.25	2.70	14.799	
500.00	500.00	500.00	500.00	1.71	1.71	75.223	10.19	38.63	39.95	36.53	3.42	11.693	
600.00	600.00	601.64	601.59	2.07	2.06	77.589	8.12	36.89	37.80	33.68	4.12	9.168	
700.00	700.00	702.71	702.33	2.43	2.41	86.472	1.96	31.72	31.86	27.04	4.82	6.611	
800.00	800.00	802.83	801.57	2.78	2.76	109.163	-8.04	23.13	24.54	19.00	5.54	4.431	
867.90	867.90	870.17	867.90	3.03	3.03	137.408	-16.17	14.87	21.97	15.91	6.05	3.629	CC, ES
900.00	900.00	901.72	898.83	3.14	3.15	153.200	-20.30	10.25	22.77	16.48	6.28	3.623	
1,000.00	1,000.00	998.62	993.18	3.50	3.57	-168.661	-34.20	-6.86	35.54	28.63	6.91	5.143	
1,100.00	1,099.95	1,093.82	1,084.71	3.85	4.03	-33.228	-49.65	-27.95	56.86	49.36	7.50	7.582	
1,200.00	1,199.63	1,187.94	1,173.85	4.19	4.54	-25.463	-66.63	-52.93	79.86	71.78	8.08	9.887	
1,300.00	1,298.77	1,281.04	1,260.47	4.54	5.10	-20.997	-85.05	-81.61	103.12	94.47	8.66	11.914	
1,400.00	1,397.08	1,373.15	1,344.46	4.91	5.73	-18.020	-104.83	-113.81	126.22	116.99	9.23	13.670	
1,500.00	1,494.31	1,464.32	1,425.73	5.32	6.42	-15.832	-125.88	-149.35	148.98	139.17	9.81	15.188	
1,600.00	1,590.18	1,554.61	1,504.20	5.76	7.17	-14.110	-148.12	-188.06	171.28	160.89	10.38	16.496	
1,700.00	1,684.43	1,644.05	1,579.78	6.26	7.99	-12.687	-171.47	-229.78	193.05	182.10	10.96	17.619	
1,800.00	1,776.81	1,732.69	1,652.41	6.83	8.87	-11.465	-195.87	-274.34	214.25	202.71	11.53	18.577	
1,900.00	1,867.06	1,822.27	1,723.38	7.47	9.84	-10.373	-221.71	-322.47	234.76	222.60	12.15	19.315	
2,000.00	1,955.69	1,920.46	1,800.25	8.18	10.95	-9.498	-250.47	-376.39	253.33	240.30	13.03	19.441	
2,100.00	2,044.27	2,018.68	1,877.13	8.93	12.08	-8.766	-279.24	-430.32	271.84	257.90	13.93	19.508	
2,200.00	2,132.84	2,116.90	1,954.01	9.70	13.24	-8.128	-308.01	-484.25	290.38	275.52	14.86	19.547	
2,300.00	2,221.42	2,215.11	2,030.89	10.50	14.40	-7.566	-336.78	-538.17	308.95	293.16	15.79	19.568	
2,400.00	2,309.99	2,313.33	2,107.77	11.32	15.57	-7.068	-365.55	-592.10	327.54	310.81	16.73	19.575	
2,500.00	2,398.57	2,411.55	2,184.66	12.15	16.75	-6.623	-394.33	-646.03	346.16	328.47	17.69	19.572	
2,600.00	2,487.15	2,509.77	2,261.54	12.99	17.94	-6.224	-423.10	-699.96	364.79	346.14	18.65	19.563	
2,700.00	2,575.72	2,607.99	2,338.42	13.84	19.13	-5.863	-451.87	-753.89	383.44	363.83	19.62	19.548	
2,800.00	2,664.30	2,706.21	2,415.30	14.69	20.33	-5.536	-480.64	-807.82	402.11	381.52	20.59	19.529	
2,900.00	2,752.87	2,804.42	2,492.18	15.56	21.53	-5.238	-509.41	-861.74	420.78	399.21	21.57	19.508	
3,000.00	2,841.45	2,902.64	2,569.06	16.42	22.73	-4.965	-538.18	-915.67	439.47	416.91	22.55	19.486	
3,100.00	2,930.02	3,000.86	2,645.95	17.30	23.94	-4.715	-566.95	-969.60	458.16	434.62	23.54	19.462	
3,200.00	3,018.60	3,099.08	2,722.83	18.17	25.15	-4.484	-595.72	-1,023.53	476.86	452.33	24.53	19.438	
3,300.00	3,107.17	3,197.30	2,799.71	19.05	26.36	-4.270	-624.49	-1,077.46	495.57	470.04	25.53	19.413	
3,400.00	3,195.75	3,295.52	2,876.59	19.94	27.57	-4.073	-653.26	-1,131.39	514.29	487.76	26.53	19.388	
3,500.00	3,284.33	3,393.73	2,953.47	20.82	28.78	-3.889	-682.03	-1,185.31	533.01	505.48	27.53	19.364	
3,600.00	3,372.90	3,491.95	3,030.35	21.71	29.99	-3.717	-710.80	-1,239.24	551.73	523.20	28.53	19.340	
3,700.00	3,461.48	3,590.17	3,107.24	22.60	31.21	-3.557	-739.58	-1,293.17	570.46	540.93	29.53	19.316	
3,800.00	3,550.05	3,688.39	3,184.12	23.49	32.42	-3.407	-768.35	-1,347.10	589.19	558.65	30.54	19.293	
3,900.00	3,638.63	3,786.61	3,261.00	24.38	33.64	-3.266	-797.12	-1,401.03	607.93	576.38	31.55	19.270	
4,000.00	3,727.20	3,884.82	3,337.88	25.27	34.86	-3.134	-825.89	-1,454.96	626.67	594.11	32.56	19.248	
4,100.00	3,815.78	3,983.04	3,414.76	26.17	36.07	-3.009	-854.66	-1,508.88	645.42	611.85	33.57	19.226	
4,200.00	3,904.36	4,081.26	3,491.64	27.07	37.29	-2.891	-883.43	-1,562.81	664.16	629.58	34.58	19.205	
4,300.00	3,992.93	4,179.48	3,568.53	27.96	38.51	-2.780	-912.20	-1,616.74	682.91	647.31	35.60	19.184	
4,400.00	4,081.51	4,277.70	3,645.41	28.86	39.73	-2.675	-940.97	-1,670.67	701.66	665.05	36.61	19.164	
4,500.00	4,170.08	4,375.92	3,722.29	29.76	40.95	-2.575	-969.74	-1,724.60	720.42	682.79	37.63	19.145	
4,600.00	4,258.66	4,474.13	3,799.17	30.66	42.17	-2.480	-998.51	-1,778.53	739.17	700.53	38.65	19.126	
4,700.00	4,347.52	4,603.69	3,901.37	31.54	43.74	9.110	-1,038.52	-1,847.24	758.01	717.92	40.09	18.909	
4,800.00	4,436.45	4,809.15	4,070.22	32.30	45.61	26.317	-1,132.81	-1,913.25	769.44	727.37	42.07	18.291	
4,900.00	4,522.88	5,005.20	4,223.99	32.93	46.55	38.769	-1,252.88	-1,915.71	770.43	726.72	43.71	17.627	
5,000.00	4,604.20	5,178.10	4,339.10	33.42	46.87	46.200	-1,371.94	-1,868.36	762.97	717.13	45.83	16.646	

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 Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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: Ponderosa P01 (107 & 135 Escrito 105) - Ponderosa Unit 135H - 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
5,100.00	4,677.94	5,325.15	4,413.61	33.79	46.90	50.181	-1,474.53	-1,794.70	749.82	701.36	48.47	15.471	
5,200.00	4,741.84	5,416.98	4,446.67	34.06	46.86	53.330	-1,536.41	-1,735.59	734.46	684.67	49.78	14.753	
5,300.00	4,793.97	5,475.03	4,460.76	34.25	46.82	55.820	-1,576.22	-1,695.78	723.62	673.82	49.80	14.532	
5,400.00	4,832.76	5,533.42	4,469.10	34.36	46.78	56.972	-1,617.06	-1,654.94	717.90	668.02	49.88	14.394	
5,458.78	4,848.94	5,567.82	4,471.25	34.38	46.75	57.205	-1,641.34	-1,630.67	716.98	666.89	50.09	14.314	
5,500.00	4,857.27	5,592.94	4,471.52	34.40	46.73	57.149	-1,659.10	-1,612.91	717.41	667.09	50.33	14.256	
5,600.00	4,866.91	5,692.16	4,470.82	34.39	46.66	56.578	-1,729.26	-1,542.75	719.01	667.08	51.94	13.844	
5,700.00	4,868.04	5,792.15	4,470.12	34.37	46.59	56.454	-1,799.96	-1,472.06	720.02	666.19	53.83	13.377	
5,800.00	4,869.15	5,892.13	4,469.42	34.38	46.53	56.334	-1,870.66	-1,401.36	721.02	665.10	55.92	12.894	
5,900.00	4,870.25	5,992.11	4,468.71	34.43	46.48	56.215	-1,941.36	-1,330.66	722.02	663.83	58.19	12.408	
6,000.00	4,871.35	6,092.10	4,468.01	34.53	46.43	56.096	-2,012.06	-1,259.97	723.03	662.41	60.62	11.928	
6,100.00	4,872.45	6,192.08	4,467.31	34.73	46.39	55.978	-2,082.76	-1,189.27	724.04	660.87	63.18	11.461	
6,200.00	4,873.56	6,292.07	4,466.60	35.06	46.35	55.859	-2,153.45	-1,118.58	725.06	659.20	65.85	11.010	
6,300.00	4,874.66	6,392.05	4,465.90	35.62	46.32	55.741	-2,224.15	-1,047.88	726.07	657.45	68.63	10.580	
6,400.00	4,875.76	6,492.03	4,465.19	36.49	46.30	55.624	-2,294.85	-977.19	727.09	655.61	71.49	10.171	
6,500.00	4,876.87	6,592.02	4,464.49	37.68	46.29	55.507	-2,365.55	-906.49	728.12	653.70	74.42	9.784	
6,600.00	4,877.97	6,692.00	4,463.79	39.15	46.31	55.390	-2,436.25	-835.79	729.14	651.73	77.41	9.419	
6,700.00	4,879.07	6,791.98	4,463.08	40.80	46.40	55.273	-2,506.95	-765.10	730.17	649.71	80.46	9.075	
6,800.00	4,880.18	6,891.97	4,462.38	42.57	46.73	55.157	-2,577.65	-694.40	731.21	647.65	83.56	8.751	
6,900.00	4,881.28	6,991.95	4,461.68	44.43	47.85	55.041	-2,648.35	-623.71	732.24	645.61	86.63	8.453	
7,000.00	4,882.38	7,091.93	4,460.97	46.35	49.64	54.925	-2,719.05	-553.01	733.28	643.47	89.81	8.165	
7,100.00	4,883.49	7,191.92	4,460.27	48.32	51.62	54.810	-2,789.75	-482.32	734.32	641.32	93.00	7.896	
7,200.00	4,884.59	7,291.90	4,459.57	50.32	53.66	54.695	-2,860.45	-411.62	735.37	639.16	96.20	7.644	
7,300.00	4,885.69	7,391.89	4,458.86	52.36	55.74	54.581	-2,931.14	-340.92	736.42	636.99	99.42	7.407	
7,400.00	4,886.80	7,491.87	4,458.16	54.42	57.84	54.466	-3,001.84	-270.23	737.47	634.81	102.66	7.184	
7,500.00	4,887.90	7,591.85	4,457.45	56.50	59.95	54.352	-3,072.54	-199.53	738.52	632.62	105.90	6.974	
7,600.00	4,889.00	7,691.84	4,456.75	58.60	62.08	54.239	-3,143.24	-128.84	739.58	630.43	109.14	6.776	
7,700.00	4,890.10	7,791.82	4,456.05	60.71	64.22	54.125	-3,213.94	-58.14	740.64	628.24	112.39	6.590	
7,800.00	4,891.21	7,891.80	4,455.34	62.84	66.38	54.012	-3,284.64	12.56	741.70	626.05	115.65	6.413	
7,900.00	4,892.31	7,991.79	4,454.64	64.98	68.54	53.900	-3,355.34	83.25	742.76	623.86	118.90	6.247	
8,000.00	4,893.41	8,091.77	4,453.94	67.13	70.71	53.787	-3,426.04	153.95	743.83	621.68	122.15	6.089	
8,100.00	4,894.52	8,191.76	4,453.23	69.29	72.89	53.675	-3,496.74	224.64	744.90	619.50	125.40	5.940	
8,200.00	4,895.62	8,291.74	4,452.53	71.46	75.07	53.564	-3,567.44	295.34	745.97	617.34	128.64	5.799	
8,300.00	4,896.72	8,391.72	4,451.83	73.63	77.26	53.452	-3,638.13	366.03	747.05	615.18	131.88	5.665	
8,400.00	4,897.83	8,491.71	4,451.12	75.82	79.46	53.341	-3,708.83	436.73	748.13	613.03	135.10	5.537	
8,500.00	4,898.93	8,591.69	4,450.42	78.01	81.66	53.231	-3,779.53	507.43	749.21	610.89	138.32	5.416	
8,600.00	4,900.03	8,691.67	4,449.71	80.21	83.87	53.120	-3,850.23	578.12	750.30	608.76	141.53	5.301	
8,700.00	4,901.14	8,791.66	4,449.01	82.41	86.08	53.010	-3,920.93	648.82	751.38	606.65	144.73	5.192	
8,800.00	4,902.24	8,891.64	4,448.31	84.61	88.29	52.900	-3,991.63	719.51	752.48	604.56	147.92	5.087	
8,900.00	4,903.34	8,991.62	4,447.60	86.83	90.51	52.791	-4,062.33	790.21	753.57	602.47	151.10	4.987	
9,000.00	4,904.45	9,091.61	4,446.90	89.04	92.73	52.682	-4,133.03	860.90	754.66	600.41	154.26	4.892	
9,100.00	4,905.55	9,191.59	4,446.20	91.26	94.96	52.573	-4,203.73	931.60	755.76	598.35	157.41	4.801	
9,200.00	4,906.65	9,291.58	4,445.49	93.48	97.19	52.464	-4,274.43	1,002.30	756.86	596.32	160.54	4.714	
9,300.00	4,907.75	9,391.56	4,444.79	95.71	99.42	52.356	-4,345.12	1,072.99	757.97	594.30	163.67	4.631	
9,400.00	4,908.86	9,491.54	4,444.09	97.94	101.65	52.248	-4,415.82	1,143.69	759.08	592.30	166.77	4.552	
9,500.00	4,909.96	9,591.53	4,443.38	100.17	103.89	52.141	-4,486.52	1,214.38	760.18	590.32	169.86	4.475	
9,600.00	4,911.06	9,691.51	4,442.68	102.41	106.13	52.034	-4,557.22	1,285.08	761.30	588.36	172.94	4.402	
9,700.00	4,912.17	9,791.49	4,441.97	104.65	108.37	51.927	-4,627.92	1,355.77	762.41	586.42	176.00	4.332	
9,800.00	4,913.27	9,891.48	4,441.27	106.89	110.61	51.820	-4,698.62	1,426.47	763.53	584.49	179.04	4.265	
9,900.00	4,914.37	9,991.46	4,440.57	109.13	112.86	51.714	-4,769.32	1,497.17	764.65	582.58	182.06	4.200	
10,000.00	4,915.48	10,091.45	4,439.86	111.37	115.11	51.608	-4,840.02	1,567.86	765.77	580.70	185.07	4.138	
10,100.00	4,916.58	10,191.43	4,439.16	113.62	117.36	51.502	-4,910.72	1,638.56	766.90	578.83	188.06	4.078	

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 Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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: Ponderosa P01 (107 & 135 Escrito 105) - Ponderosa Unit 135H - Original Hole - rev0

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Rule Assigned:

Offset Well Error: 0.00 ft

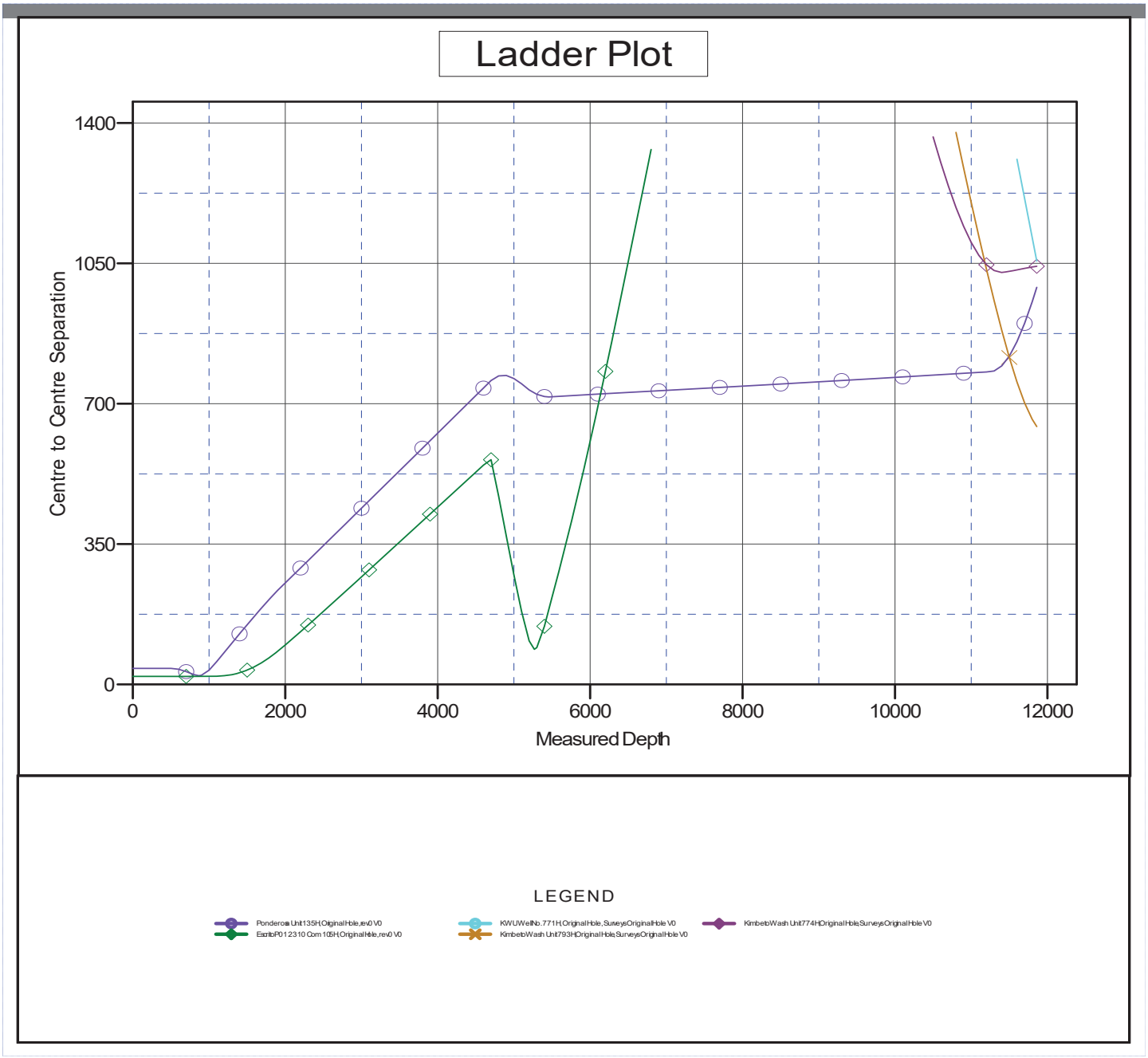
Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,200.00	4,917.68	10,291.41	4,438.46	115.87	119.61	51.397	-4,981.42	1,709.25	768.02	576.99	191.04	4.020	
10,300.00	4,918.79	10,391.40	4,437.75	118.12	121.86	51.292	-5,052.11	1,779.95	769.15	575.16	193.99	3.965	
10,400.00	4,919.89	10,491.38	4,437.05	120.37	124.11	51.187	-5,122.81	1,850.64	770.29	573.36	196.93	3.912	
10,500.00	4,920.99	10,591.36	4,436.35	122.63	126.37	51.082	-5,193.51	1,921.34	771.42	571.58	199.85	3.860	
10,600.00	4,922.10	10,691.35	4,435.64	124.88	128.63	50.978	-5,264.21	1,992.04	772.56	569.81	202.75	3.810	
10,700.00	4,923.20	10,791.33	4,434.94	127.14	130.88	50.874	-5,334.91	2,062.73	773.70	568.07	205.63	3.763	
10,800.00	4,924.30	10,891.31	4,434.23	129.40	133.14	50.771	-5,405.61	2,133.43	774.85	566.35	208.49	3.716	
10,900.00	4,925.40	10,991.30	4,433.53	131.65	135.40	50.668	-5,476.31	2,204.12	775.99	564.66	211.34	3.672	
11,000.00	4,926.51	11,091.28	4,432.83	133.91	137.66	50.565	-5,547.01	2,274.82	777.14	562.98	214.16	3.629	
11,100.00	4,927.61	11,191.27	4,432.12	136.18	139.93	50.462	-5,617.71	2,345.51	778.29	561.32	216.97	3.587	
11,200.00	4,928.71	11,291.25	4,431.42	138.44	142.19	50.360	-5,688.41	2,416.21	779.44	559.69	219.75	3.547	
11,300.00	4,929.82	11,350.90	4,431.00	140.70	143.54	50.299	-5,730.59	2,458.39	781.64	558.81	222.83	3.508 SF	
11,400.00	4,930.92	11,350.90	4,431.00	142.97	143.54	50.299	-5,730.59	2,458.39	794.25	570.79	223.46	3.554	
11,500.00	4,932.02	11,350.90	4,431.00	145.23	143.54	50.299	-5,730.59	2,458.39	818.97	598.61	220.36	3.717	
11,600.00	4,933.13	11,350.90	4,431.00	147.50	143.54	50.299	-5,730.59	2,458.39	854.74	640.27	214.47	3.985	
11,700.00	4,934.23	11,350.90	4,431.00	149.77	143.54	50.299	-5,730.59	2,458.39	900.25	693.32	206.93	4.351	
11,800.00	4,935.33	11,350.90	4,431.00	152.03	143.54	50.299	-5,730.59	2,458.39	954.11	755.44	198.67	4.802	
11,860.47	4,936.00	11,350.90	4,431.00	153.41	143.54	50.299	-5,730.59	2,458.39	990.16	796.53	193.63	5.114	

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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=6857+23.5 @ 6880.50ft
Offset Depths are relative to Offset Datum
Central Meridian is -107.83333333

Coordinates are relative to: Ponderosa Unit 107H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: -0.006°



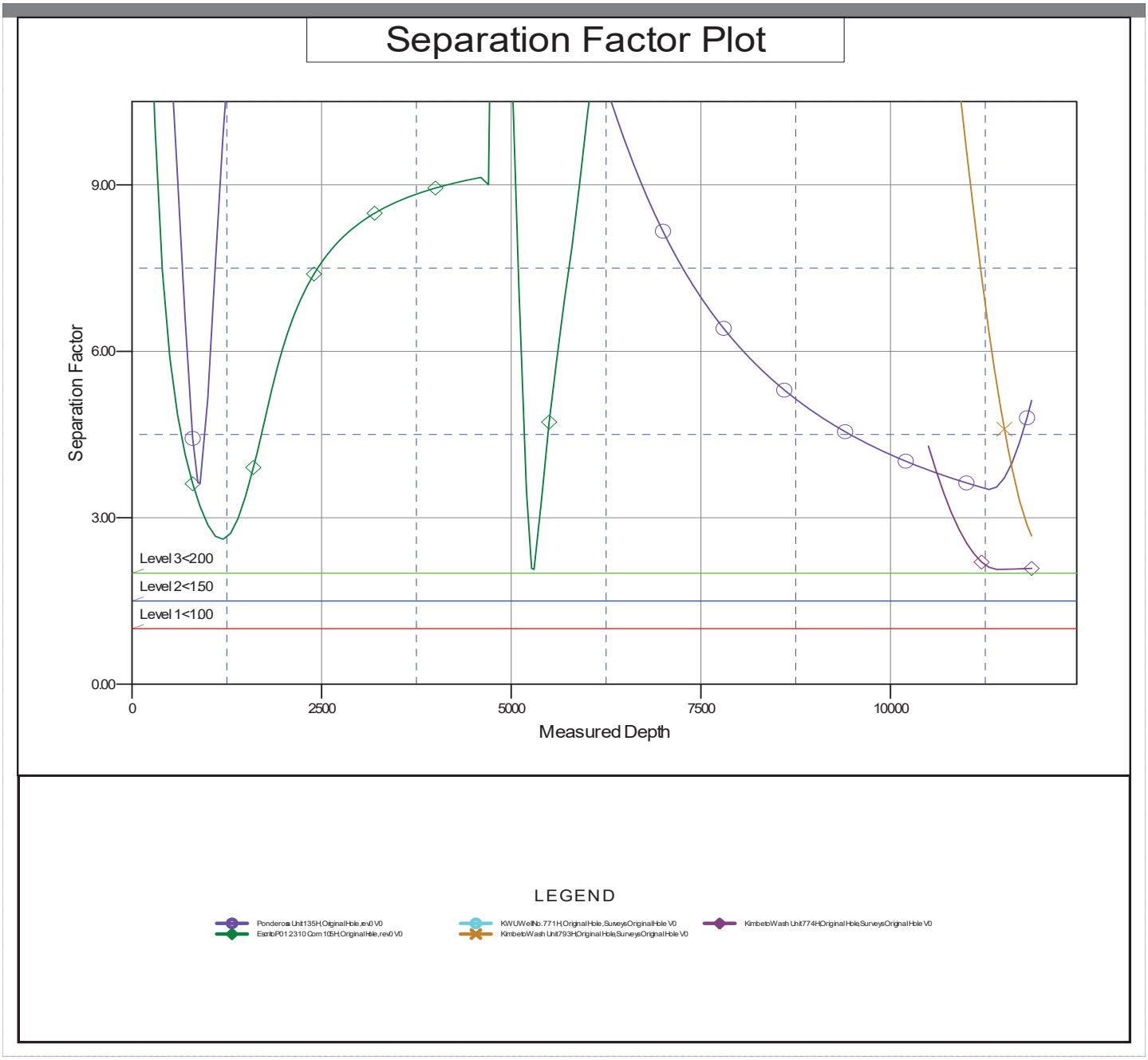
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Enduring Resources LLC	**Local Co-ordinate Reference:**	Well Ponderosa Unit 107H
Project:	San Juan County, New Mexico NAD83 NM W	**TVD Reference:**	RKB=6857+23.5 @ 6880.50ft
Reference Site:	Ponderosa P01 (107 & 135 Escrito 105)	**MD Reference:**	RKB=6857+23.5 @ 6880.50ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	Ponderosa Unit 107H	**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=6857+23.5 @ 6880.50ft
Offset Depths are relative to Offset Datum
Central Meridian is -107.83333333

Coordinates are relative to: Ponderosa Unit 107H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: -0.006°



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

#107H PONDEROSA UNIT

Lease: NMNM16762 Agreement: NMNM106318743

SH: SE¼SE¼ Section 1, T. 23N., R. 10W.
San Juan County, New Mexico
BH: SE¼SW¼ Section 7, T. 23N., 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: 426405
	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.	1/29/2025
scrues76	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/29/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/14/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/14/2025
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.	2/14/2025
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.	2/14/2025