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

Form C-101
August 1, 2011

Permit 392630

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
Paloma Permian AssetCo, LLC 1100 Louisiana, Ste. 5100 Houston, TX 77002	332449
	3. API Number 30-015-56925

4. Property Code	5. Property Name	6. Well No.
336494	THE DUDE FEE COM 20 19	501H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	20	22S	27E	H	1902	N	157	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	19	22S	27E	4	660	S	50	W	Eddy

9. Pool Information

CASS DRAW;BONE SPRING	10380

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		Private	3122
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	18906	Bone Spring		7/17/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	654	328	0
Int1	12.25	9.625	40	1993	434	0
Prod	8.75	5.5	23	18906	3441	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	10000	Axon
Pipe	10000	10000	Axon
Annular	5000	5000	Axon

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:		**OIL CONSERVATION DIVISION**		
Printed Name:	Electronically filed by Brittney Brunner	Approved By:	Jeffrey Harrison	
Title:	OpAdmin	Title:	Petroleum Specialist III	
Email Address:	bbrunner@palomaresources.com	Approved Date:	6/30/2025	Expiration Date: 6/30/2027
Date:	6/27/2025 Phone: 713-654-8534	Conditions of Approval Attached		

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-56925	~~97755~~ 10380	~~ESPERANZA;BONESPRING~~ CASS DRAW;BONESPRING

Property Code	Property Name	Well Number
336494	THE DUDE FEE COM 20 19	#501H

OGRID No.	Operator Name	Ground Level Elevation
332449	PALOMA PERMIAN ASSETCO, LLC	3122'

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

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	20	22 S	27 E		1902' FNL	157' FEL	32.380344°	-104.203505°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	19	22 S	27 E	LOT 4	660' FSL	50' FWL	32.372163°	-104.237487°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
317.19	Infill	N/A	No	C

Order Numbers. N/A | Well setbacks are under Common Ownership: ☒Yes ☐No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	21	22 S	27 E		669' FSL	626' FWL	32.372619°	-104.200996°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	20	22 S	27 E		660' FSL	100' FEL	32.372590°	-104.203347°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	19	22 S	27 E	LOT 4	660' FSL	100' FWL	32.372165°	-104.237325°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
Com		3148'

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.

Brittney Brunner 6/27/2025

Signature Date

Brittney Brunner

Printed Name

bbrunner@palomaresources.com

Email Address

SURVEYOR CERTIFICATIONS

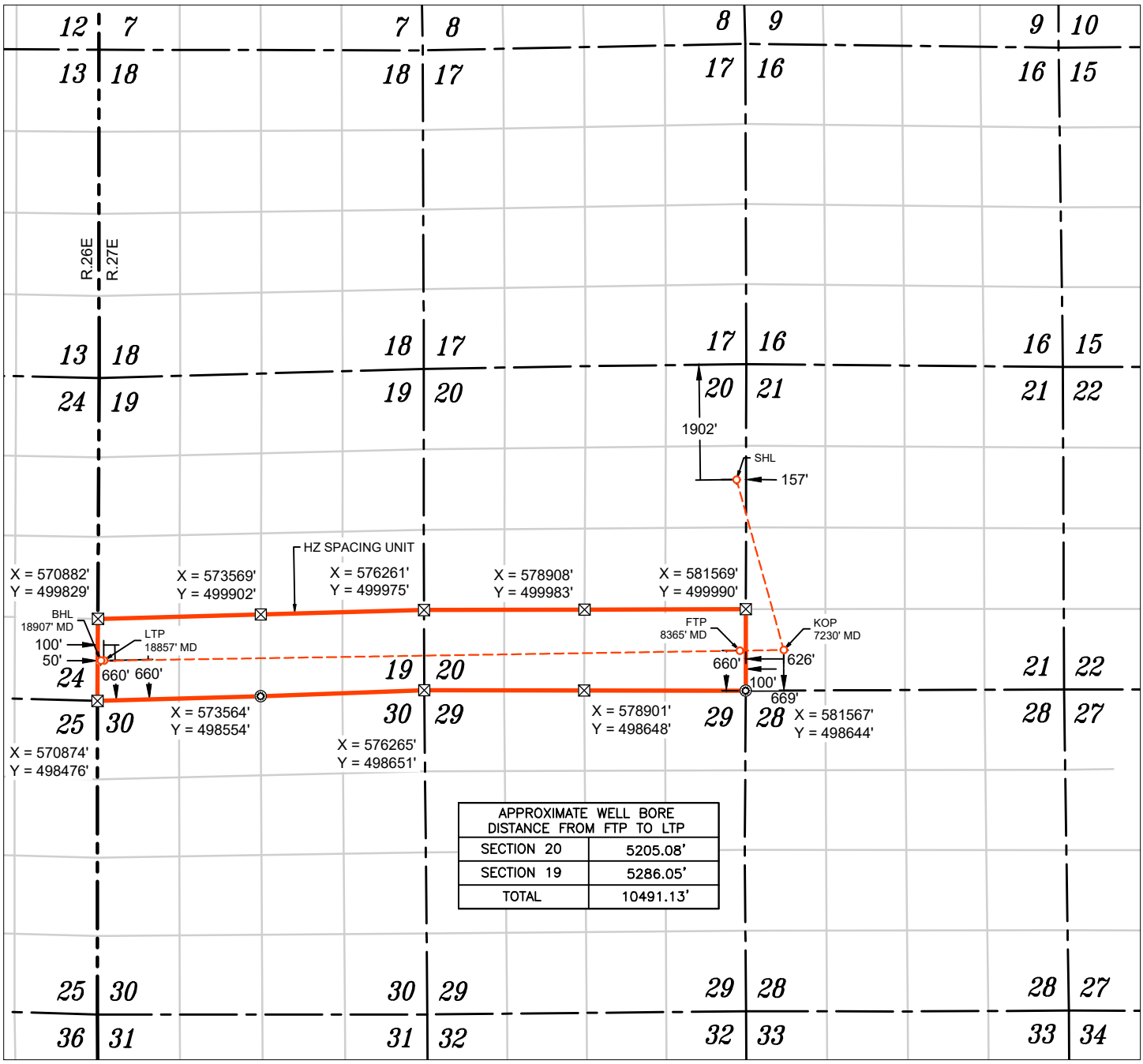
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and ~~correct~~ to the best of my belief.

Signature and Seal of Professional Surveyor

23203 JUNE 27, 2025

Certificate Number Date of Survey

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.



APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP	
SECTION 20	5205.08'
SECTION 19	5286.05'
TOTAL	10491.13'

WELL NAME: THE DUDE FEE COM 20-19 #501H
ELEVATION: 3122'

NAD 83 (SHL) 1902' FNL & 157' FEL
LATITUDE = 32.380344°
LONGITUDE = -104.203505°
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32.380225°
LONGITUDE = -104.203003°
STATE PLANE NAD 83 (N.M. EAST)
N: 502125.13' E: 581415.82'
STATE PLANE NAD 27 (N.M. EAST)
N: 502065.59' E: 540234.26'

NAD 83 (KOP) 669' FSL & 626' FWL
LATITUDE = 32.372619°
LONGITUDE = -104.200996°
NAD 27 (KOP)
LATITUDE = 32.372500°
LONGITUDE = -104.200494°
STATE PLANE NAD 83 (N.M. EAST)
N: 499315.60' E: 582193.60'
STATE PLANE NAD 27 (N.M. EAST)
N: 499256.13' E: 541011.98'

NAD 83 (FTP) 660' FSL & 100' FEL
LATITUDE = 32.372590°
LONGITUDE = -104.203347°
NAD 27 (FTP)
LATITUDE = 32.372471°
LONGITUDE = -104.202845°
STATE PLANE NAD 83 (N.M. EAST)
N: 499304.15' E: 581467.83'
STATE PLANE NAD 27 (N.M. EAST)
N: 499244.69' E: 540286.22'

NAD 83 (LTP) 660' FSL & 100' FWL
LATITUDE = 32.372165°
LONGITUDE = -104.237325°
NAD 27 (LTP)
LATITUDE = 32.372047°
LONGITUDE = -104.236822°
STATE PLANE NAD 83 (N.M. EAST)
N: 499138.63' E: 570978.00'
STATE PLANE NAD 27 (N.M. EAST)
N: 499079.29' E: 529796.51'

NAD 83 (BHL) 660' FSL & 50' FWL
LATITUDE = 32.372163°
LONGITUDE = -104.237487°
NAD 27 (BHL)
LATITUDE = 32.372045°
LONGITUDE = -104.236984°
STATE PLANE NAD 83 (N.M. EAST)
N: 499137.85' E: 570928.16'
STATE PLANE NAD 27 (N.M. EAST)
N: 499078.51' E: 529746.67'

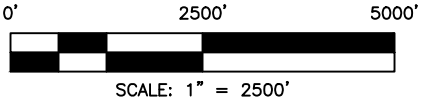
FOUND MONUMENT
CALC. CORNER
SHL/ KOP/ FTP / PPP/ LTP / BHL
WELLBORE
HORIZONTAL SPACING UNIT
STATE OIL & GAS LEASE
BLM OIL & GAS LEASE

NOTES

1. ALL COORDINATES, BEARINGS, AND DISTANCES CONTAINED HEREIN ARE GRID, BASED UPON THE NEW MEXICO STATE PLANE COORDINATES SYSTEM, NORTH AMERICAN DATUM 83, NEW MEXICO EAST (3001).

2. THIS DOCUMENT IS BASED UPON AN ON THE GROUND SURVEY PERFORMED DURING JUNE, 2025. CERTIFICATION OF THIS DOCUMENT IS ONLY TO THE LOCATION OF THIS EASEMENT IN RELATION TO RECORDED MONUMENT OF DEEDS PROVIDED BY THE CLIENT.

3. ELEVATIONS MSL, DERIVED FROM G.N.S.S. OBSERVATION AND DERIVED FROM SAID ON-THE-GROUND SURVEY.



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

Form APD Comments

Permit 392630

PERMIT COMMENTS

Operator Name and Address:	API Number:
Paloma Permian AssetCo, LLC [332449] 1100 Louisiana, Ste. 5100 Houston, TX 77002	30-015-56925
	Well: THE DUDE FEE COM 20 19 #501H

Created By	Comment	Comment Date
abustamante	Fee Cancellation - Payment Declined. Fee Canceled.	6/27/2025

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

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

Form APD Conditions

Permit 392630

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Paloma Permian AssetCo, LLC [332449] 1100 Louisiana, Ste. 5100 Houston, TX 77002	30-015-56925
	Well: THE DUDE FEE COM 20 19 #501H

OCD Reviewer	Condition
jeffrey.harrison	This well is within the radius of the Carlsbad Brine Well. Operator shall provide written notice to OCD at least 14 days prior to the start of any drilling or completion activities. The notice shall be filed with OCD.Engineer@state.nm.us.
jeffrey.harrison	Vertical portions of wells may not advance within ¼-mile of the backfilled void.
jeffrey.harrison	Lateral portions of wells occurring within 1-mile of the backfilled void may not occur at depths less than 5,000 feet.
jeffrey.harrison	Completion activities (hydraulic fracturing) within 1-mile of the backfilled void may not occur simultaneously. OCD may require the completion schedule to be modified if multiple completions are planned to occur simultaneously.
jeffrey.harrison	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	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.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	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.

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: Paloma Permian AssetCo, LLC **OGRID:** 332449 **Date:** 6 / 27 / 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
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

IV. Central Delivery Point Name: The Dude South CTB [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
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

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: Lelan J Anders
Title: Vice President of Operations
E-mail Address: LAnders@PalomaResources.com
Date: 6/27/2025
Phone: 713-650-8500

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

Natural Gas Management Plan – Attachment

VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing BRE ProMAX modeling software to ensure adequate capacity for anticipated production volumes and conditions.

VII. Paloma Permian AssetCo, LLC (PPA) will take the following actions to comply with the regulations listed in 19.15.27.8:

A. PPA will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. PPA will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, compression will be added to deliver volumes that are produced, well production may also be curtailed to manage the flow of gas and not overrun compression.

B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations.

C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, PPA will flare the natural gas for up to 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. PPA will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.

D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(I) through (4). If there is no adequate takeaway for the separator gas, well(s) will be curtailed until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be measured using a TOTAL FLOW meter and reported appropriately.

E. PPA will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(I)through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. PPA will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.

F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. PPA will install equipment to measure the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an PPA issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, PPA will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will 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.

VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.

PALOMA PERMIAN

Hydrogen Sulfide Drilling Operations Plan

Paloma Permian AssetCo, LLC
1100 Louisiana Ste 5100
Houston, TX 77002
713-650-8500

1. H_2S Safety Instructions to the following:
    - Characteristics of H_2S.
    - Physical effects and hazards.
    - Principal and operation of H_2S detectors, warning system and briefing areas.
    - Evacuation procedures, routes and First Aid.
    - Proper use of safety equipment and life support systems.
    - Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30 min pressure demand air packs.

2. H_2S Detection & Alarm Systems:
    - H_2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud returns pits by the shale shaker. Additional H_2S monitors may be placed as deemed necessary.
    - An audio alarm system will be installed on the derrick, the floor, and in the doghouse.

3. Windsocks and Wind Streamers:
    - Windsocks at mud pit area should be high enough to be visible.
    - Windsock on the rig floor/top of doghouse should be high enough to be visible.

4. Condition Flags & Signs:
    - Warning sign on access road to location
    - Flags to be displayed on sign at entrance to location
        i. Green Flag – Normal Safe Operation Condition
        ii. Yellow Flag – Potential Pressure and Danger
        iii. Red Flag – Danger (H_2S present in dangerous concentrations) Only H_2S trained personnel admitted on location

5. Well Control Equipment:
    - See attached APD

PALOMA PERMIAN

6. Communications:
    - While working under masks, chalkboards will be used for communications
    - Hand signals will be used where chalk board is inappropriate
    - Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at drilling foreman's trailer or living quarters.

7. Drilling Stem Testing:
    - No Drill Stem Tests or hole coring is planned at this time.

8. Drilling contractor supervisor will be required to be familiar with the effects H_2S has on tubular goods and other mechanical equipment.

9. If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavenger chemicals if necessary.

10. Emergency Contacts:

Carlsbad, New Mexico:	
Ambulance	911
State Police	575-885-3137
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-887-3798
Local Emergency Planning Committee	575-887-6544
New Mexico Oil Conservation Division	575-887-6544

Santa Fe, New Mexico:	
New Mexico Emergency Response Commission	505-476-9600
New Mexico Emergency Response Commission (24 hr)	505-827-9126
New Mexico State Emergency Operations Center	505-476-9635

Federal Contacts:	
Carlsbad BLM Office	575-234-5972
National Emergency Response Center (Washington, DC)	800-424-8802

Medical:	
Flight for Life - Lubbock, TX	806-743-9911
AeroCare - Lubbock, TX	806-747-8923
Med Flight Air Ambulance - Albuquerque, NM	505-842-4433
SB Air Med Service - Albuquerque, NM	505-842-4949

HIGH PERFORMANCE DIRECTIONAL

PALOMA RESOURCES

Project: EDDY COUNTY, NM (NAD83/NM-E)
Site: THE DUDE FEE COM 20-19 PAD
Well: THE DUDE FEE COM 20-19 #501H
Wellbore: Wellbore #1
Design: PLAN 1

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
RKB ELEVATION: GL +26' @ 3148.00usft (ICD 333)

WELL DETAILS: THE DUDE FEE COM 20-19 #501H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	502125.13	581415.82	32.3803443	-104.2035047

FORMATION TOP DETAILS

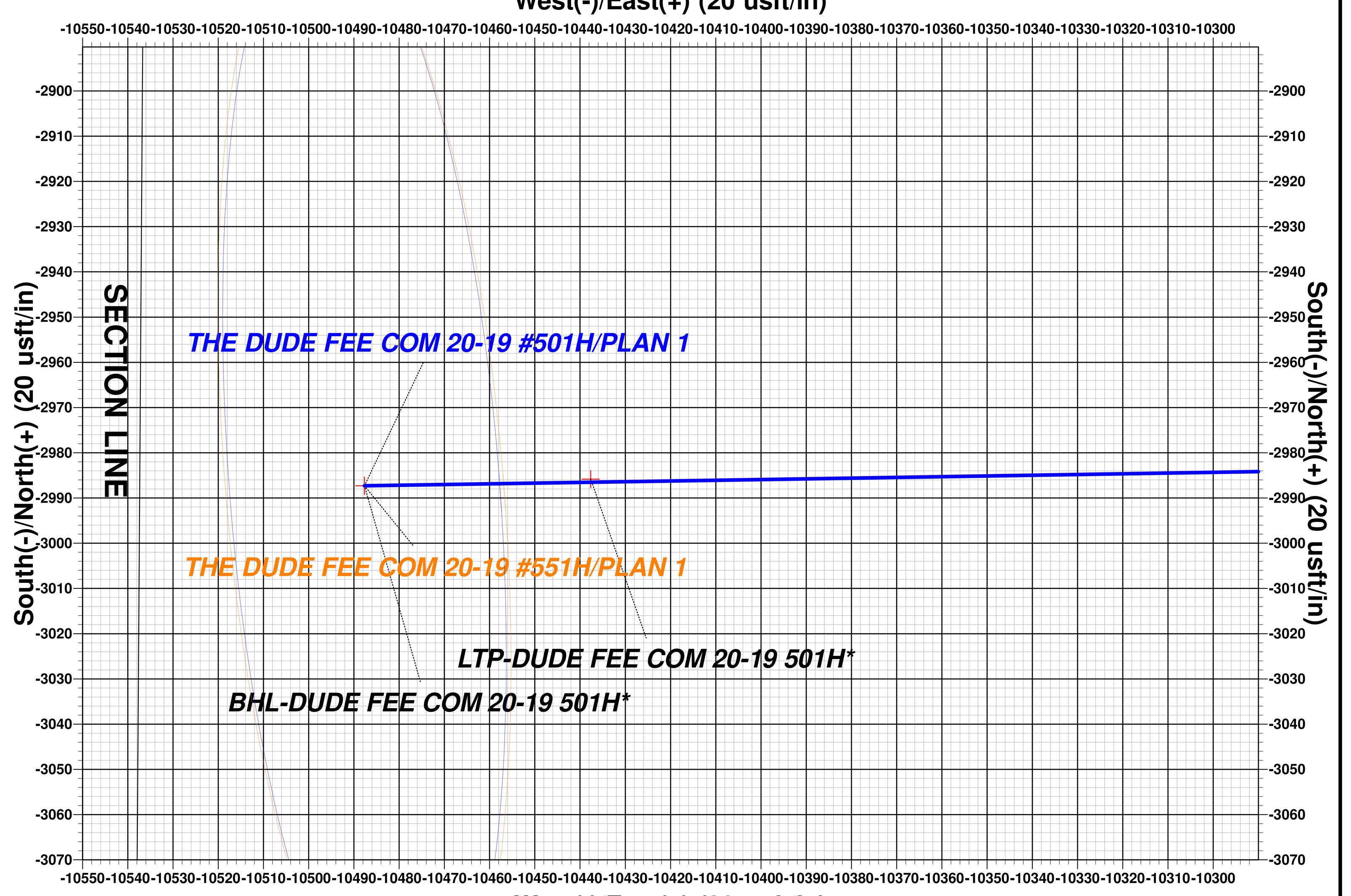
No formation data is available

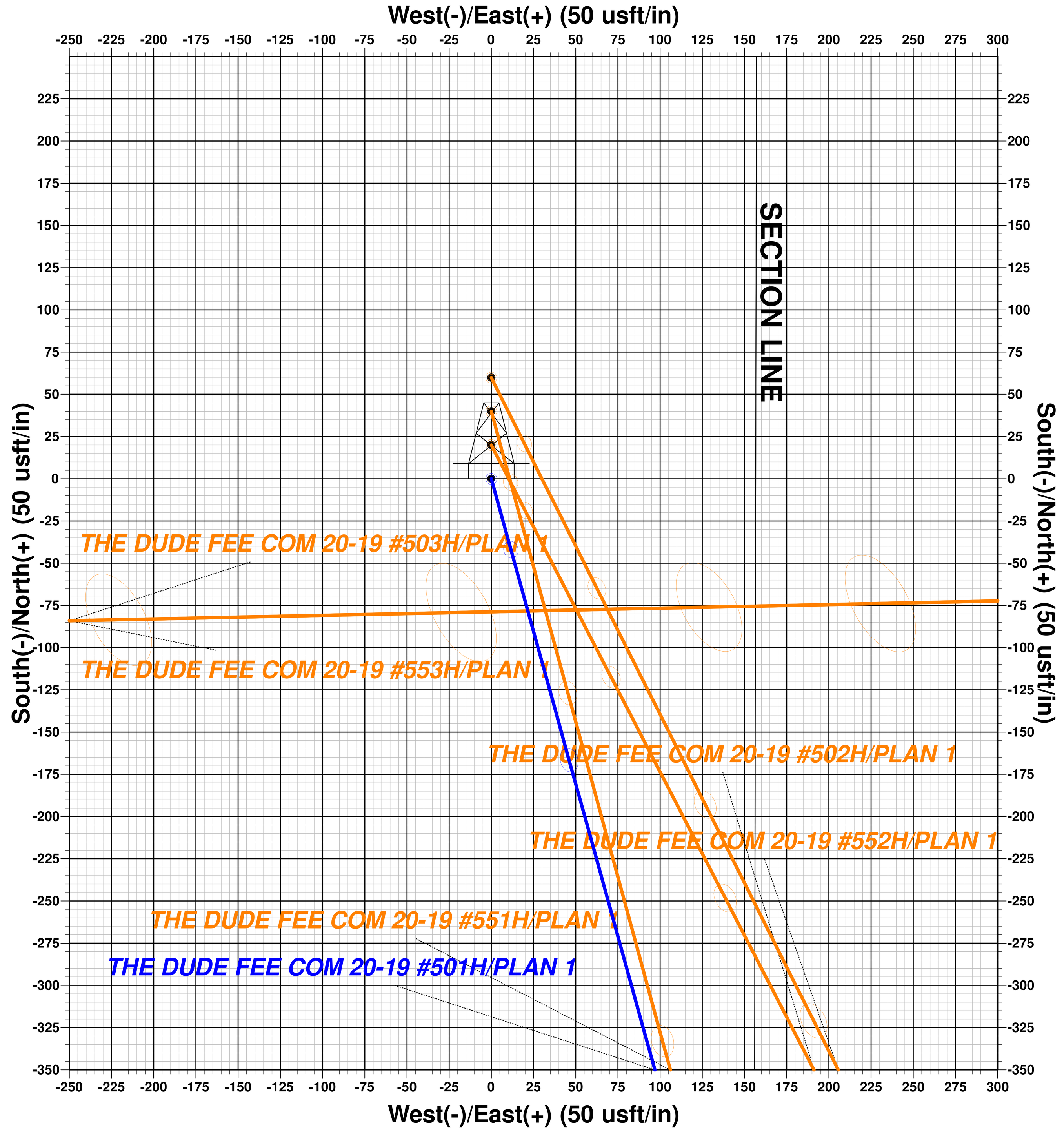
DESIGN TARGET DETAILS

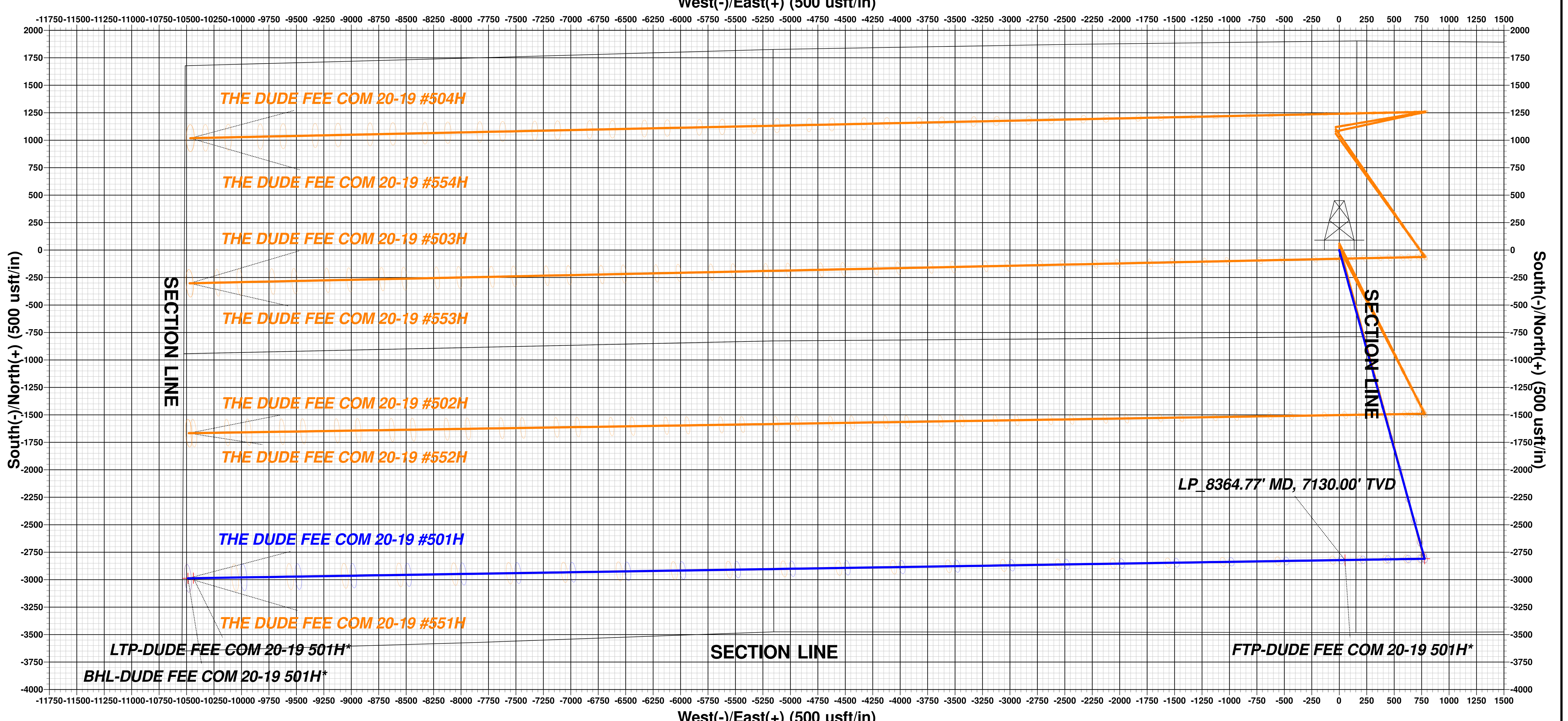
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL-DUDE FEE COM 20-19 501H*	6990.00	-2987.28	-10487.66	499137.85	570928.16	32.3721632	-104.2374868
LTP-DUDE FEE COM 20-19 501H*	6990.00	-2985.83	-10437.65	499139.30	570978.17	32.3721670	-104.2373248
FTP-DUDE FEE COM 20-19 501H*	7130.00	-2820.98	52.17	499304.15	581467.99	32.3725897	-104.2033468

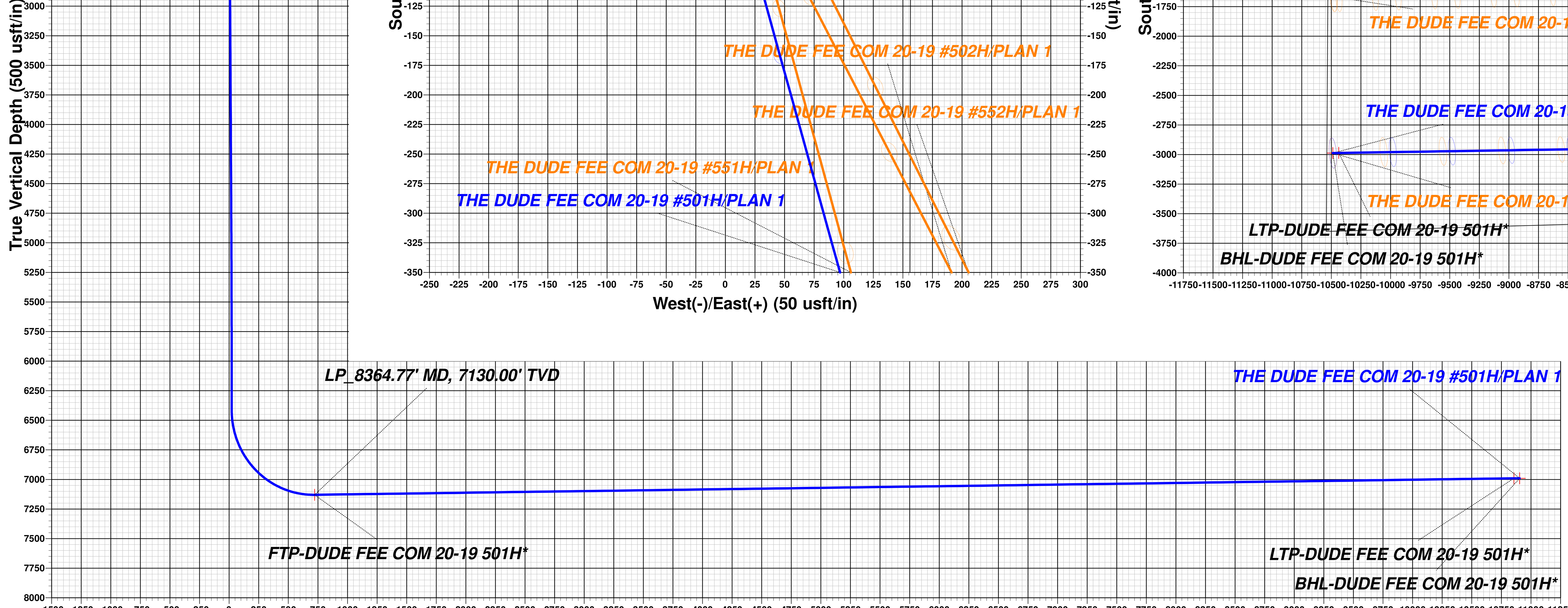
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00
3	2278.74	35.57	164.53	2166.63	-515.31	142.66	2.00	164.53	3.98
4	5451.52	35.57	164.53	4747.24	-2294.22	635.12	0.00	0.00	17.70
5	7230.26	0.00	0.00	6413.87	-2809.53	777.78	2.00	180.00	21.67
6	8364.77	90.76	269.10	7130.00	-2820.98	52.16	8.00	269.10	722.67
7	18906.83	90.76	269.10	6990.00	-2987.28	-10487.66	0.00	0.00	10904.81







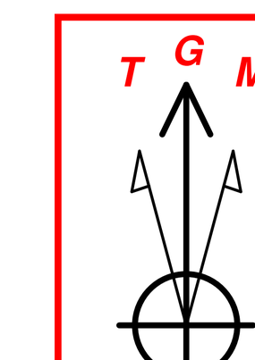


Vertical Section at 254.10° (500 usft/in)

MAGNETIC CORRECTION DATA:

MAGNETIC NORTH IS 6.32° EAST OF GRID NORTH (MAGNETIC CONVERGENCE)
TO CONVERT A MAGNETIC DIRECTION TO A GRID DIRECTION, ADD 6.32°
TO CONVERT A TRUE DIRECTION TO A GRID DIRECTION, SUBTRACT 0.07°

MAGNETIC DECLINATION: 6.39°
GRID_CONVERGENCE: 0.07° WEST



Azimuths to Grid North
True North: -0.07°
Magnetic North: 6.32°

Magnetic Field
Strength: 47115.3nT
Dip Angle: 59.82°
Date: 5/22/2025
Model: IGRF2020

HIGH PERFORMANCE
DIRECTIONAL

PALOMA RESOURCES

EDDY COUNTY, NM (NAD83/NM-E)
THE DUDE FEE COM 20-19 PAD
THE DUDE FEE COM 20-19 #501H

Wellbore #1

Plan: PLAN 1

Standard Planning Report

25 May, 2025

PALOMA
RESOURCES

HIGH PERFORMANCE DIRECTIONAL

Planning Report

PALOMA RESOURCES

Database:	HPD Well Planning	**Local Co-ordinate Reference:**	Well THE DUDE FEE COM 20-19 #501H
Company:	PALOMA RESOURCES	**TVD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Project:	EDDY COUNTY, NM (NAD83/NM-E)	**MD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Site:	THE DUDE FEE COM 20-19 PAD	**North Reference:**	Grid
Well:	THE DUDE FEE COM 20-19 #501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1		

Project EDDY COUNTY, NM (NAD83/NM-E)

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

Site THE DUDE FEE COM 20-19 PAD

Site Position:		**Northing:**	501,337.00 usft	**Latitude:**	32.3781774
From:	Map	**Easting:**	581,571.00 usft	**Longitude:**	-104.2030051
Position Uncertainty:	0.00 usft	**Slot Radius:**	13.200 in		

Well THE DUDE FEE COM 20-19 #501H

Well Position	**+N/-S**	0.00 usft	**Northing:**	502,125.13 usft	**Latitude:**	32.3803443
	+E/-W	0.00 usft	**Easting:**	581,415.82 usft	**Longitude:**	-104.2035047
Position Uncertainty		2.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,122.00 usft
Grid Convergence:		0.07 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/22/2025	6.39	59.82	47,115.27684817

Design PLAN 1

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	254.10

Plan Survey Tool Program **Date** 5/25/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,906.68	PLAN 1 (Wellbore #1)	MWD+IFR1+MS	
				OWSG MWD + IFR1 + Multi-St	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,278.74	35.57	164.53	2,166.63	-515.31	142.66	2.00	2.00	0.00	164.53	
5,451.52	35.57	164.53	4,747.24	-2,294.22	635.12	0.00	0.00	0.00	0.00	
7,230.26	0.00	0.00	6,413.87	-2,809.53	777.78	2.00	-2.00	0.00	180.00	
8,364.77	90.76	269.10	7,130.00	-2,820.98	52.16	8.00	8.00	0.00	269.10	
18,906.83	90.76	269.10	6,990.00	-2,987.28	-10,487.66	0.00	0.00	0.00	0.00	BHL-DUDE FEE COM

HIGH PERFORMANCE DIRECTIONAL

Planning Report

PALOMA RESOURCES

Database:	HPD Well Planning	**Local Co-ordinate Reference:**	Well THE DUDE FEE COM 20-19 #501H
Company:	PALOMA RESOURCES	**TVD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Project:	EDDY COUNTY, NM (NAD83/NM-E)	**MD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Site:	THE DUDE FEE COM 20-19 PAD	**North Reference:**	Grid
Well:	THE DUDE FEE COM 20-19 #501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	2.00	164.53	599.98	-1.68	0.47	0.01	2.00	2.00	0.00
700.00	4.00	164.53	699.84	-6.73	1.86	0.05	2.00	2.00	0.00
800.00	6.00	164.53	799.45	-15.12	4.19	0.12	2.00	2.00	0.00
900.00	8.00	164.53	898.70	-26.87	7.44	0.21	2.00	2.00	0.00
1,000.00	10.00	164.53	997.47	-41.95	11.61	0.32	2.00	2.00	0.00
1,100.00	12.00	164.53	1,095.62	-60.33	16.70	0.47	2.00	2.00	0.00
1,200.00	14.00	164.53	1,193.06	-82.01	22.70	0.63	2.00	2.00	0.00
1,300.00	16.00	164.53	1,289.64	-106.95	29.61	0.83	2.00	2.00	0.00
1,400.00	18.00	164.53	1,385.27	-135.13	37.41	1.04	2.00	2.00	0.00
1,500.00	20.00	164.53	1,479.82	-166.51	46.09	1.28	2.00	2.00	0.00
1,600.00	22.00	164.53	1,573.17	-201.04	55.66	1.55	2.00	2.00	0.00
1,700.00	24.00	164.53	1,665.21	-238.70	66.08	1.84	2.00	2.00	0.00
1,800.00	26.00	164.53	1,755.84	-279.42	77.35	2.16	2.00	2.00	0.00
1,900.00	28.00	164.53	1,844.94	-323.18	89.47	2.49	2.00	2.00	0.00
2,000.00	30.00	164.53	1,932.39	-369.90	102.40	2.85	2.00	2.00	0.00
2,100.00	32.00	164.53	2,018.11	-419.53	116.14	3.24	2.00	2.00	0.00
2,200.00	34.00	164.53	2,101.97	-472.02	130.67	3.64	2.00	2.00	0.00
2,278.74	35.57	164.53	2,166.63	-515.31	142.66	3.98	2.00	2.00	0.00
2,300.00	35.57	164.53	2,183.93	-527.23	145.96	4.07	0.00	0.00	0.00
2,400.00	35.57	164.53	2,265.26	-583.30	161.48	4.50	0.00	0.00	0.00
2,500.00	35.57	164.53	2,346.60	-639.37	177.00	4.93	0.00	0.00	0.00
2,600.00	35.57	164.53	2,427.93	-695.44	192.52	5.36	0.00	0.00	0.00
2,700.00	35.57	164.53	2,509.27	-751.50	208.04	5.80	0.00	0.00	0.00
2,800.00	35.57	164.53	2,590.60	-807.57	223.57	6.23	0.00	0.00	0.00
2,900.00	35.57	164.53	2,671.94	-863.64	239.09	6.66	0.00	0.00	0.00
3,000.00	35.57	164.53	2,753.28	-919.71	254.61	7.09	0.00	0.00	0.00
3,100.00	35.57	164.53	2,834.61	-975.77	270.13	7.53	0.00	0.00	0.00
3,200.00	35.57	164.53	2,915.95	-1,031.84	285.65	7.96	0.00	0.00	0.00
3,300.00	35.57	164.53	2,997.28	-1,087.91	301.17	8.39	0.00	0.00	0.00
3,400.00	35.57	164.53	3,078.62	-1,143.98	316.69	8.82	0.00	0.00	0.00
3,500.00	35.57	164.53	3,159.95	-1,200.05	332.22	9.26	0.00	0.00	0.00
3,600.00	35.57	164.53	3,241.29	-1,256.11	347.74	9.69	0.00	0.00	0.00
3,700.00	35.57	164.53	3,322.63	-1,312.18	363.26	10.12	0.00	0.00	0.00
3,800.00	35.57	164.53	3,403.96	-1,368.25	378.78	10.56	0.00	0.00	0.00
3,900.00	35.57	164.53	3,485.30	-1,424.32	394.30	10.99	0.00	0.00	0.00
4,000.00	35.57	164.53	3,566.63	-1,480.38	409.82	11.42	0.00	0.00	0.00
4,100.00	35.57	164.53	3,647.97	-1,536.45	425.35	11.85	0.00	0.00	0.00
4,200.00	35.57	164.53	3,729.30	-1,592.52	440.87	12.29	0.00	0.00	0.00
4,300.00	35.57	164.53	3,810.64	-1,648.59	456.39	12.72	0.00	0.00	0.00
4,400.00	35.57	164.53	3,891.98	-1,704.65	471.91	13.15	0.00	0.00	0.00
4,500.00	35.57	164.53	3,973.31	-1,760.72	487.43	13.58	0.00	0.00	0.00
4,600.00	35.57	164.53	4,054.65	-1,816.79	502.95	14.02	0.00	0.00	0.00
4,700.00	35.57	164.53	4,135.98	-1,872.86	518.48	14.45	0.00	0.00	0.00
4,800.00	35.57	164.53	4,217.32	-1,928.93	534.00	14.88	0.00	0.00	0.00
4,900.00	35.57	164.53	4,298.65	-1,984.99	549.52	15.31	0.00	0.00	0.00
5,000.00	35.57	164.53	4,379.99	-2,041.06	565.04	15.75	0.00	0.00	0.00
5,100.00	35.57	164.53	4,461.33	-2,097.13	580.56	16.18	0.00	0.00	0.00
5,200.00	35.57	164.53	4,542.66	-2,153.20	596.08	16.61	0.00	0.00	0.00

HIGH PERFORMANCE DIRECTIONAL

Planning Report

PALOMA RESOURCES

Database:	HPD Well Planning	**Local Co-ordinate Reference:**	Well THE DUDE FEE COM 20-19 #501H
Company:	PALOMA RESOURCES	**TVD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Project:	EDDY COUNTY, NM (NAD83/NM-E)	**MD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Site:	THE DUDE FEE COM 20-19 PAD	**North Reference:**	Grid
Well:	THE DUDE FEE COM 20-19 #501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	35.57	164.53	4,624.00	-2,209.26	611.60	17.04	0.00	0.00	0.00
5,400.00	35.57	164.53	4,705.33	-2,265.33	627.13	17.48	0.00	0.00	0.00
5,451.52	35.57	164.53	4,747.24	-2,294.22	635.12	17.70	0.00	0.00	0.00
5,500.00	34.61	164.53	4,786.90	-2,321.08	642.56	17.91	2.00	-2.00	0.00
5,600.00	32.61	164.53	4,870.19	-2,374.41	657.32	18.32	2.00	-2.00	0.00
5,700.00	30.61	164.53	4,955.35	-2,424.92	671.31	18.71	2.00	-2.00	0.00
5,800.00	28.61	164.53	5,042.29	-2,472.53	684.49	19.07	2.00	-2.00	0.00
5,900.00	26.61	164.53	5,130.90	-2,517.18	696.85	19.42	2.00	-2.00	0.00
6,000.00	24.61	164.53	5,221.08	-2,558.83	708.38	19.74	2.00	-2.00	0.00
6,100.00	22.61	164.53	5,312.71	-2,597.42	719.06	20.04	2.00	-2.00	0.00
6,200.00	20.61	164.53	5,405.68	-2,632.91	728.88	20.31	2.00	-2.00	0.00
6,300.00	18.61	164.53	5,499.87	-2,665.24	737.84	20.56	2.00	-2.00	0.00
6,400.00	16.61	164.53	5,595.19	-2,694.39	745.90	20.79	2.00	-2.00	0.00
6,500.00	14.61	164.53	5,691.49	-2,720.31	753.08	20.99	2.00	-2.00	0.00
6,600.00	12.61	164.53	5,788.68	-2,742.98	759.36	21.16	2.00	-2.00	0.00
6,700.00	10.61	164.53	5,886.63	-2,762.37	764.72	21.31	2.00	-2.00	0.00
6,800.00	8.61	164.53	5,985.23	-2,778.45	769.18	21.43	2.00	-2.00	0.00
6,900.00	6.61	164.53	6,084.34	-2,791.20	772.71	21.53	2.00	-2.00	0.00
7,000.00	4.61	164.53	6,183.86	-2,800.62	775.31	21.60	2.00	-2.00	0.00
7,100.00	2.61	164.53	6,283.66	-2,806.68	776.99	21.65	2.00	-2.00	0.00
7,200.00	0.61	164.53	6,383.61	-2,809.38	777.74	21.67	2.00	-2.00	0.00
7,230.26	0.00	0.00	6,413.87	-2,809.53	777.78	21.67	2.00	-2.00	0.00
7,250.00	1.58	269.10	6,433.61	-2,809.53	777.51	21.94	8.00	8.00	0.00
7,300.00	5.58	269.10	6,483.50	-2,809.58	774.39	24.95	8.00	8.00	0.00
7,350.00	9.58	269.10	6,533.05	-2,809.69	767.79	31.32	8.00	8.00	0.00
7,400.00	13.58	269.10	6,582.03	-2,809.85	757.76	41.01	8.00	8.00	0.00
7,450.00	17.58	269.10	6,630.18	-2,810.06	744.34	53.98	8.00	8.00	0.00
7,500.00	21.58	269.10	6,677.28	-2,810.32	727.59	70.16	8.00	8.00	0.00
7,550.00	25.58	269.10	6,723.10	-2,810.64	707.59	89.48	8.00	8.00	0.00
7,600.00	29.58	269.10	6,767.40	-2,811.00	684.45	111.83	8.00	8.00	0.00
7,650.00	33.58	269.10	6,809.99	-2,811.42	658.28	137.12	8.00	8.00	0.00
7,700.00	37.58	269.10	6,850.65	-2,811.87	629.19	165.22	8.00	8.00	0.00
7,750.00	41.58	269.10	6,889.18	-2,812.38	597.35	195.98	8.00	8.00	0.00
7,800.00	45.58	269.10	6,925.39	-2,812.92	562.89	229.27	8.00	8.00	0.00
7,850.00	49.58	269.10	6,959.11	-2,813.50	525.99	264.92	8.00	8.00	0.00
7,900.00	53.58	269.10	6,990.18	-2,814.12	486.83	302.75	8.00	8.00	0.00
7,950.00	57.58	269.10	7,018.44	-2,814.77	445.60	342.58	8.00	8.00	0.00
8,000.00	61.58	269.10	7,043.75	-2,815.45	402.50	384.22	8.00	8.00	0.00
8,050.00	65.58	269.10	7,065.99	-2,816.16	357.73	427.46	8.00	8.00	0.00
8,100.00	69.58	269.10	7,085.06	-2,816.89	311.53	472.10	8.00	8.00	0.00
8,150.00	73.58	269.10	7,100.85	-2,817.64	264.11	517.91	8.00	8.00	0.00
8,200.00	77.58	269.10	7,113.30	-2,818.40	215.70	564.68	8.00	8.00	0.00
8,250.00	81.58	269.10	7,122.35	-2,819.17	166.54	612.17	8.00	8.00	0.00
8,300.00	85.58	269.10	7,127.94	-2,819.96	116.87	660.16	8.00	8.00	0.00
8,350.00	89.58	269.10	7,130.05	-2,820.75	66.93	708.40	8.00	8.00	0.00
8,364.77	90.76	269.10	7,130.00	-2,820.98	52.16	722.67	8.00	8.00	0.00
LP_8364.77' MD, 7130.00' TVD									
8,400.00	90.76	269.10	7,129.53	-2,821.54	16.94	756.69	0.00	0.00	0.00
8,500.00	90.76	269.10	7,128.21	-2,823.11	-83.04	853.28	0.00	0.00	0.00
8,600.00	90.76	269.10	7,126.88	-2,824.69	-183.02	949.87	0.00	0.00	0.00
8,700.00	90.76	269.10	7,125.55	-2,826.27	-283.00	1,046.45	0.00	0.00	0.00
8,800.00	90.76	269.10	7,124.22	-2,827.85	-382.98	1,143.04	0.00	0.00	0.00
8,900.00	90.76	269.10	7,122.90	-2,829.42	-482.95	1,239.62	0.00	0.00	0.00

HIGH PERFORMANCE DIRECTIONAL

Planning Report

PALOMA RESOURCES

Database:	HPD Well Planning	**Local Co-ordinate Reference:**	Well THE DUDE FEE COM 20-19 #501H
Company:	PALOMA RESOURCES	**TVD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Project:	EDDY COUNTY, NM (NAD83/NM-E)	**MD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Site:	THE DUDE FEE COM 20-19 PAD	**North Reference:**	Grid
Well:	THE DUDE FEE COM 20-19 #501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,000.00	90.76	269.10	7,121.57	-2,831.00	-582.93	1,336.21	0.00	0.00	0.00
9,100.00	90.76	269.10	7,120.24	-2,832.58	-682.91	1,432.80	0.00	0.00	0.00
9,200.00	90.76	269.10	7,118.91	-2,834.16	-782.89	1,529.38	0.00	0.00	0.00
9,300.00	90.76	269.10	7,117.58	-2,835.73	-882.87	1,625.97	0.00	0.00	0.00
9,400.00	90.76	269.10	7,116.26	-2,837.31	-982.85	1,722.55	0.00	0.00	0.00
9,500.00	90.76	269.10	7,114.93	-2,838.89	-1,082.83	1,819.14	0.00	0.00	0.00
9,600.00	90.76	269.10	7,113.60	-2,840.47	-1,182.81	1,915.73	0.00	0.00	0.00
9,700.00	90.76	269.10	7,112.27	-2,842.04	-1,282.78	2,012.31	0.00	0.00	0.00
9,800.00	90.76	269.10	7,110.94	-2,843.62	-1,382.76	2,108.90	0.00	0.00	0.00
9,900.00	90.76	269.10	7,109.62	-2,845.20	-1,482.74	2,205.48	0.00	0.00	0.00
10,000.00	90.76	269.10	7,108.29	-2,846.78	-1,582.72	2,302.07	0.00	0.00	0.00
10,100.00	90.76	269.10	7,106.96	-2,848.35	-1,682.70	2,398.65	0.00	0.00	0.00
10,200.00	90.76	269.10	7,105.63	-2,849.93	-1,782.68	2,495.24	0.00	0.00	0.00
10,300.00	90.76	269.10	7,104.30	-2,851.51	-1,882.66	2,591.83	0.00	0.00	0.00
10,400.00	90.76	269.10	7,102.98	-2,853.09	-1,982.64	2,688.41	0.00	0.00	0.00
10,500.00	90.76	269.10	7,101.65	-2,854.66	-2,082.61	2,785.00	0.00	0.00	0.00
10,600.00	90.76	269.10	7,100.32	-2,856.24	-2,182.59	2,881.58	0.00	0.00	0.00
10,700.00	90.76	269.10	7,098.99	-2,857.82	-2,282.57	2,978.17	0.00	0.00	0.00
10,800.00	90.76	269.10	7,097.66	-2,859.40	-2,382.55	3,074.76	0.00	0.00	0.00
10,900.00	90.76	269.10	7,096.34	-2,860.97	-2,482.53	3,171.34	0.00	0.00	0.00
11,000.00	90.76	269.10	7,095.01	-2,862.55	-2,582.51	3,267.93	0.00	0.00	0.00
11,100.00	90.76	269.10	7,093.68	-2,864.13	-2,682.49	3,364.51	0.00	0.00	0.00
11,200.00	90.76	269.10	7,092.35	-2,865.71	-2,782.47	3,461.10	0.00	0.00	0.00
11,300.00	90.76	269.10	7,091.02	-2,867.29	-2,882.44	3,557.68	0.00	0.00	0.00
11,400.00	90.76	269.10	7,089.70	-2,868.86	-2,982.42	3,654.27	0.00	0.00	0.00
11,500.00	90.76	269.10	7,088.37	-2,870.44	-3,082.40	3,750.86	0.00	0.00	0.00
11,600.00	90.76	269.10	7,087.04	-2,872.02	-3,182.38	3,847.44	0.00	0.00	0.00
11,700.00	90.76	269.10	7,085.71	-2,873.60	-3,282.36	3,944.03	0.00	0.00	0.00
11,800.00	90.76	269.10	7,084.38	-2,875.17	-3,382.34	4,040.61	0.00	0.00	0.00
11,900.00	90.76	269.10	7,083.06	-2,876.75	-3,482.32	4,137.20	0.00	0.00	0.00
12,000.00	90.76	269.10	7,081.73	-2,878.33	-3,582.30	4,233.79	0.00	0.00	0.00
12,100.00	90.76	269.10	7,080.40	-2,879.91	-3,682.27	4,330.37	0.00	0.00	0.00
12,200.00	90.76	269.10	7,079.07	-2,881.48	-3,782.25	4,426.96	0.00	0.00	0.00
12,300.00	90.76	269.10	7,077.74	-2,883.06	-3,882.23	4,523.54	0.00	0.00	0.00
12,400.00	90.76	269.10	7,076.42	-2,884.64	-3,982.21	4,620.13	0.00	0.00	0.00
12,500.00	90.76	269.10	7,075.09	-2,886.22	-4,082.19	4,716.72	0.00	0.00	0.00
12,600.00	90.76	269.10	7,073.76	-2,887.79	-4,182.17	4,813.30	0.00	0.00	0.00
12,700.00	90.76	269.10	7,072.43	-2,889.37	-4,282.15	4,909.89	0.00	0.00	0.00
12,800.00	90.76	269.10	7,071.10	-2,890.95	-4,382.13	5,006.47	0.00	0.00	0.00
12,900.00	90.76	269.10	7,069.78	-2,892.53	-4,482.10	5,103.06	0.00	0.00	0.00
13,000.00	90.76	269.10	7,068.45	-2,894.10	-4,582.08	5,199.64	0.00	0.00	0.00
13,100.00	90.76	269.10	7,067.12	-2,895.68	-4,682.06	5,296.23	0.00	0.00	0.00
13,200.00	90.76	269.10	7,065.79	-2,897.26	-4,782.04	5,392.82	0.00	0.00	0.00
13,300.00	90.76	269.10	7,064.46	-2,898.84	-4,882.02	5,489.40	0.00	0.00	0.00
13,400.00	90.76	269.10	7,063.14	-2,900.41	-4,982.00	5,585.99	0.00	0.00	0.00
13,500.00	90.76	269.10	7,061.81	-2,901.99	-5,081.98	5,682.57	0.00	0.00	0.00
13,600.00	90.76	269.10	7,060.48	-2,903.57	-5,181.96	5,779.16	0.00	0.00	0.00
13,700.00	90.76	269.10	7,059.15	-2,905.15	-5,281.93	5,875.75	0.00	0.00	0.00
13,800.00	90.76	269.10	7,057.82	-2,906.72	-5,381.91	5,972.33	0.00	0.00	0.00
13,900.00	90.76	269.10	7,056.50	-2,908.30	-5,481.89	6,068.92	0.00	0.00	0.00
14,000.00	90.76	269.10	7,055.17	-2,909.88	-5,581.87	6,165.50	0.00	0.00	0.00
14,100.00	90.76	269.10	7,053.84	-2,911.46	-5,681.85	6,262.09	0.00	0.00	0.00
14,200.00	90.76	269.10	7,052.51	-2,913.03	-5,781.83	6,358.68	0.00	0.00	0.00
14,300.00	90.76	269.10	7,051.18	-2,914.61	-5,881.81	6,455.26	0.00	0.00	0.00

HIGH PERFORMANCE DIRECTIONAL

Planning Report

PALOMA RESOURCES

Database:	HPD Well Planning	**Local Co-ordinate Reference:**	Well THE DUDE FEE COM 20-19 #501H
Company:	PALOMA RESOURCES	**TVD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Project:	EDDY COUNTY, NM (NAD83/NM-E)	**MD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Site:	THE DUDE FEE COM 20-19 PAD	**North Reference:**	Grid
Well:	THE DUDE FEE COM 20-19 #501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,400.00	90.76	269.10	7,049.86	-2,916.19	-5,981.79	6,551.85	0.00	0.00	0.00
14,500.00	90.76	269.10	7,048.53	-2,917.77	-6,081.76	6,648.43	0.00	0.00	0.00
14,600.00	90.76	269.10	7,047.20	-2,919.34	-6,181.74	6,745.02	0.00	0.00	0.00
14,700.00	90.76	269.10	7,045.87	-2,920.92	-6,281.72	6,841.60	0.00	0.00	0.00
14,800.00	90.76	269.10	7,044.54	-2,922.50	-6,381.70	6,938.19	0.00	0.00	0.00
14,900.00	90.76	269.10	7,043.22	-2,924.08	-6,481.68	7,034.78	0.00	0.00	0.00
15,000.00	90.76	269.10	7,041.89	-2,925.66	-6,581.66	7,131.36	0.00	0.00	0.00
15,100.00	90.76	269.10	7,040.56	-2,927.23	-6,681.64	7,227.95	0.00	0.00	0.00
15,200.00	90.76	269.10	7,039.23	-2,928.81	-6,781.62	7,324.53	0.00	0.00	0.00
15,300.00	90.76	269.10	7,037.90	-2,930.39	-6,881.59	7,421.12	0.00	0.00	0.00
15,400.00	90.76	269.10	7,036.58	-2,931.97	-6,981.57	7,517.71	0.00	0.00	0.00
15,500.00	90.76	269.10	7,035.25	-2,933.54	-7,081.55	7,614.29	0.00	0.00	0.00
15,600.00	90.76	269.10	7,033.92	-2,935.12	-7,181.53	7,710.88	0.00	0.00	0.00
15,700.00	90.76	269.10	7,032.59	-2,936.70	-7,281.51	7,807.46	0.00	0.00	0.00
15,800.00	90.76	269.10	7,031.26	-2,938.28	-7,381.49	7,904.05	0.00	0.00	0.00
15,900.00	90.76	269.10	7,029.94	-2,939.85	-7,481.47	8,000.64	0.00	0.00	0.00
16,000.00	90.76	269.10	7,028.61	-2,941.43	-7,581.45	8,097.22	0.00	0.00	0.00
16,100.00	90.76	269.10	7,027.28	-2,943.01	-7,681.42	8,193.81	0.00	0.00	0.00
16,200.00	90.76	269.10	7,025.95	-2,944.59	-7,781.40	8,290.39	0.00	0.00	0.00
16,300.00	90.76	269.10	7,024.62	-2,946.16	-7,881.38	8,386.98	0.00	0.00	0.00
16,400.00	90.76	269.10	7,023.30	-2,947.74	-7,981.36	8,483.56	0.00	0.00	0.00
16,500.00	90.76	269.10	7,021.97	-2,949.32	-8,081.34	8,580.15	0.00	0.00	0.00
16,600.00	90.76	269.10	7,020.64	-2,950.90	-8,181.32	8,676.74	0.00	0.00	0.00
16,700.00	90.76	269.10	7,019.31	-2,952.47	-8,281.30	8,773.32	0.00	0.00	0.00
16,800.00	90.76	269.10	7,017.98	-2,954.05	-8,381.27	8,869.91	0.00	0.00	0.00
16,900.00	90.76	269.10	7,016.66	-2,955.63	-8,481.25	8,966.49	0.00	0.00	0.00
17,000.00	90.76	269.10	7,015.33	-2,957.21	-8,581.23	9,063.08	0.00	0.00	0.00
17,100.00	90.76	269.10	7,014.00	-2,958.78	-8,681.21	9,159.67	0.00	0.00	0.00
17,200.00	90.76	269.10	7,012.67	-2,960.36	-8,781.19	9,256.25	0.00	0.00	0.00
17,300.00	90.76	269.10	7,011.34	-2,961.94	-8,881.17	9,352.84	0.00	0.00	0.00
17,400.00	90.76	269.10	7,010.02	-2,963.52	-8,981.15	9,449.42	0.00	0.00	0.00
17,500.00	90.76	269.10	7,008.69	-2,965.09	-9,081.13	9,546.01	0.00	0.00	0.00
17,600.00	90.76	269.10	7,007.36	-2,966.67	-9,181.10	9,642.60	0.00	0.00	0.00
17,700.00	90.76	269.10	7,006.03	-2,968.25	-9,281.08	9,739.18	0.00	0.00	0.00
17,800.00	90.76	269.10	7,004.70	-2,969.83	-9,381.06	9,835.77	0.00	0.00	0.00
17,900.00	90.76	269.10	7,003.38	-2,971.40	-9,481.04	9,932.35	0.00	0.00	0.00
18,000.00	90.76	269.10	7,002.05	-2,972.98	-9,581.02	10,028.94	0.00	0.00	0.00
18,100.00	90.76	269.10	7,000.72	-2,974.56	-9,681.00	10,125.52	0.00	0.00	0.00
18,200.00	90.76	269.10	6,999.39	-2,976.14	-9,780.98	10,222.11	0.00	0.00	0.00
18,300.00	90.76	269.10	6,998.06	-2,977.72	-9,880.96	10,318.70	0.00	0.00	0.00
18,400.00	90.76	269.10	6,996.74	-2,979.29	-9,980.93	10,415.28	0.00	0.00	0.00
18,500.00	90.76	269.10	6,995.41	-2,980.87	-10,080.91	10,511.87	0.00	0.00	0.00
18,600.00	90.76	269.10	6,994.08	-2,982.45	-10,180.89	10,608.45	0.00	0.00	0.00
18,700.00	90.76	269.10	6,992.75	-2,984.03	-10,280.87	10,705.04	0.00	0.00	0.00
18,800.00	90.76	269.10	6,991.42	-2,985.60	-10,380.85	10,801.63	0.00	0.00	0.00
18,906.83	90.76	269.10	6,990.00	-2,987.28	-10,487.66	10,904.81	0.00	0.00	0.00

HIGH PERFORMANCE DIRECTIONAL

Planning Report

PALOMA RESOURCES

Database:	HPD Well Planning	**Local Co-ordinate Reference:**	Well THE DUDE FEE COM 20-19 #501H
Company:	PALOMA RESOURCES	**TVD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Project:	EDDY COUNTY, NM (NAD83/NM-E)	**MD Reference:**	GL +26' @ 3148.00usft (ICD 333)
Site:	THE DUDE FEE COM 20-19 PAD	**North Reference:**	Grid
Well:	THE DUDE FEE COM 20-19 #501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP-DUDE FEE COM 2(	0.00	0.00	6,990.00	-2,985.83	-10,437.65	499,139.30	570,978.17	32.3721671	-104.2373248
- plan misses target center by 0.95usft at 18856.81usft MD (6990.67 TVD, -2986.50 N, -10437.65 E) - Point									
BHL-DUDE FEE COM 2 - plan hits target center - Point	0.00	0.00	6,990.00	-2,987.28	-10,487.66	499,137.85	570,928.16	32.3721632	-104.2374868
FTP-DUDE FEE COM 2 - plan hits target center - Point	0.00	0.00	7,130.00	-2,820.98	52.17	499,304.15	581,467.99	32.3725898	-104.2033468

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
8,364.77	7,130.00	-2,820.98	52.16	LP_8364.77' MD, 7130.00' TVD