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 375496

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 30-015-55727

4. Property Code	5. Property Name	6. Well No.
336494	The Dude Fee 20-19	701H

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		1912	N	184	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	LOT 4	880	S	200	W	Eddy

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		Private	3123
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	19783	Wolfcamp		11/18/2024
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	505	0
Int1	12.25	9.625	40	3184	1045	0
Prod	8.5	5.5	23	19773	3055	0

Casing/Cement Program: Additional Comments

Plan to use DV tool in the top of the Bone Spring ~5400 ft and do 2 stage cement job on production casing.

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:	Ward Rikala	
Title:	OpAdmin	Title:	Petroleum Specialist Supervisor	
Email Address:	bbrunner@palomaresources.com	Approved Date:	11/13/2024	Expiration Date: 11/13/2026
Date:	10/24/2024 Phone: 713-654-8534	Conditions of Approval Attached		

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-102
August 1, 2011

Permit 375496

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-015-55727	98220	PURPLE SAGE;WOLFCAMP (GAS)
4. Property Code	**5. Property Name**	**6. Well No.**
336494	The Dude Fee 20-19	701H
7. OGRID No.	**8. Operator Name**	**9. Elevation**
332449	Paloma Permian AssetCo, LLC	3123

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	20	22S	27E		1912	N	184	E	Eddy

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County

12. Dedicated Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
634.36		Forced Pooling	

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

OPERATOR CERTIFICATION

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

E-Signed By: Brittney Brunner
Title: OpAdmin
Date: 10/24/2024

SURVEYOR CERTIFICATION

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.

Surveyed By: Tim Pappas
Date of Survey: 10/18/2024
Certificate Number: 21209

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 APD Comments

Permit 375496

PERMIT COMMENTS

Operator Name and Address:	API Number:
Paloma Permian AssetCo, LLC [332449] 1100 Louisiana, Ste. 5100 Houston, TX 77002	30-015-55727
	Well: The Dude Fee 20-19 #701H

Created By	Comment	Comment Date
lelananders	The Dude Fee 20-19 701H is planned to be batch drilled with The Dude Fee 20-19 702H and The Dude Fee 20-19 801H wells. Planned spud is late November.	10/22/2024

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 APD Conditions

Permit 375496

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Paloma Permian AssetCo, LLC [332449] 1100 Louisiana, Ste. 5100 Houston, TX 77002	30-015-55727
	Well: The Dude Fee 20-19 #701H

OCD Reviewer	Condition
ward.rikala	Notify the OCD 24 hours prior to casing & cement.
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.
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.
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.
ward.rikala	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
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.
ward.rikala	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.

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:** 10 / 18 / 2024

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
The Dude Fee 20-19 701H		H-20-22S-27E	1912 FNL 184 FEL			

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
The Dude Fee 20-19 701H		11/18/2024	2/25/2025	5/15/2025	6/22/2025	6/29/2025

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: Lelan J Anders
Title: Vice President of Operations
E-mail Address: LAnders@PalomaResources.com
Date: 10/22/2024
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.

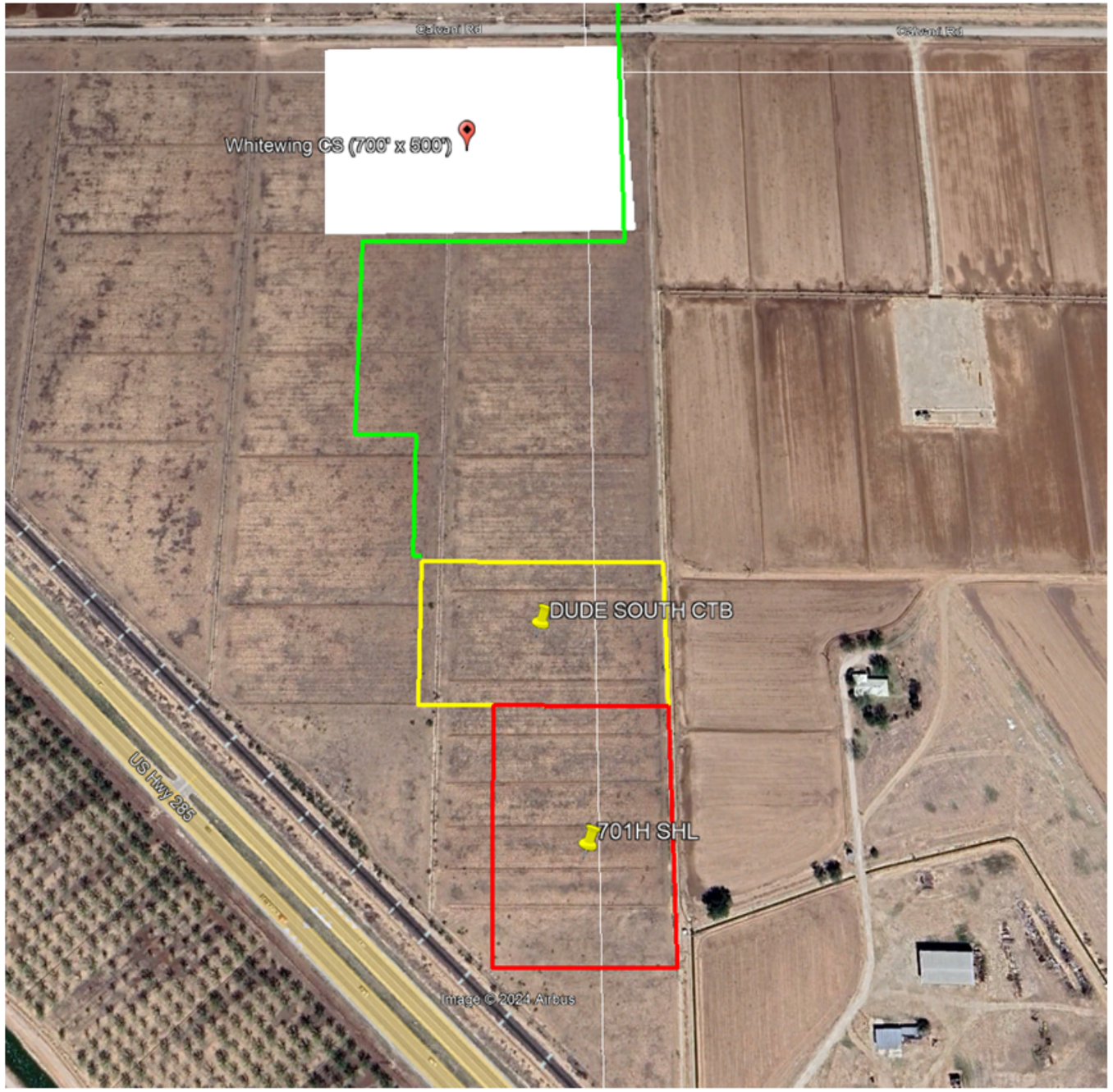
C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated 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.



Gas is going to be separated at the Dude South CTB facility – then piped through a low pressure pipe (along the green line) to Enterprise Field Services Whitewing Compressor Station, from there it will go into EFS's system for further processing.

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

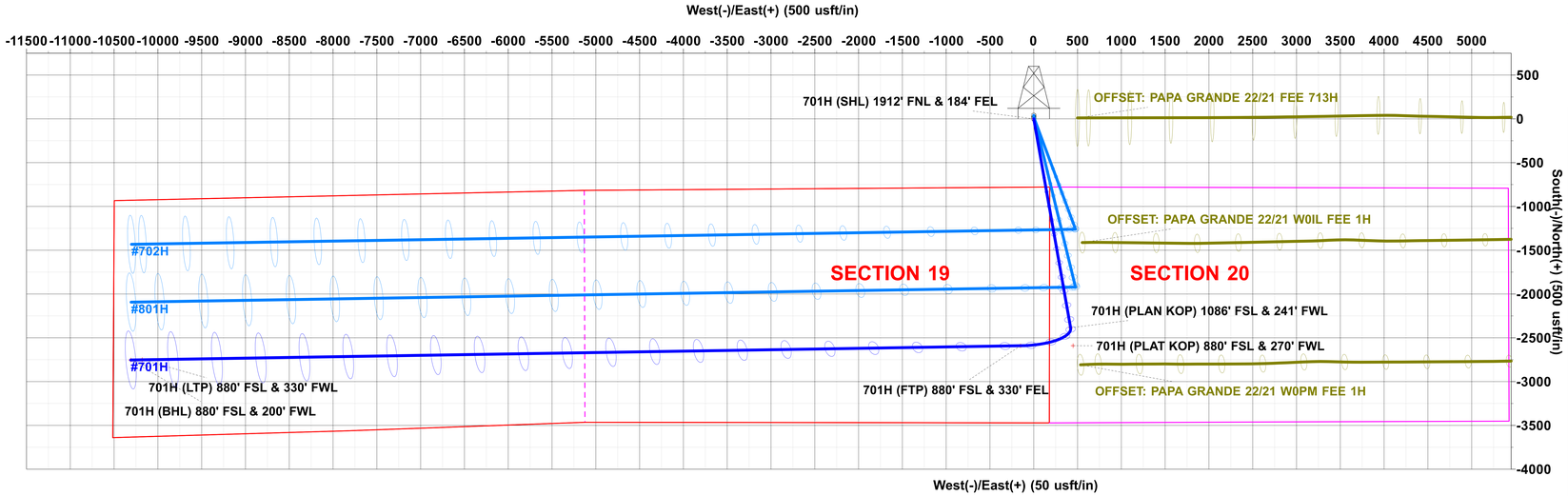
PALOMA RESOURCES

Project: EDDY CO., NM (NAD83, NME)
Site: THE DUDE FEE 20/19
Well: #701H
Wellbore: OH
Design: PLAN #1

WELL DETAILS: #701H

Rig Name: TBD EST RKB = 20' @ 3143.00usft (TBD)
Ground Level: 3123.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	502115.18	581388.82	32.3803171	-104.2035922

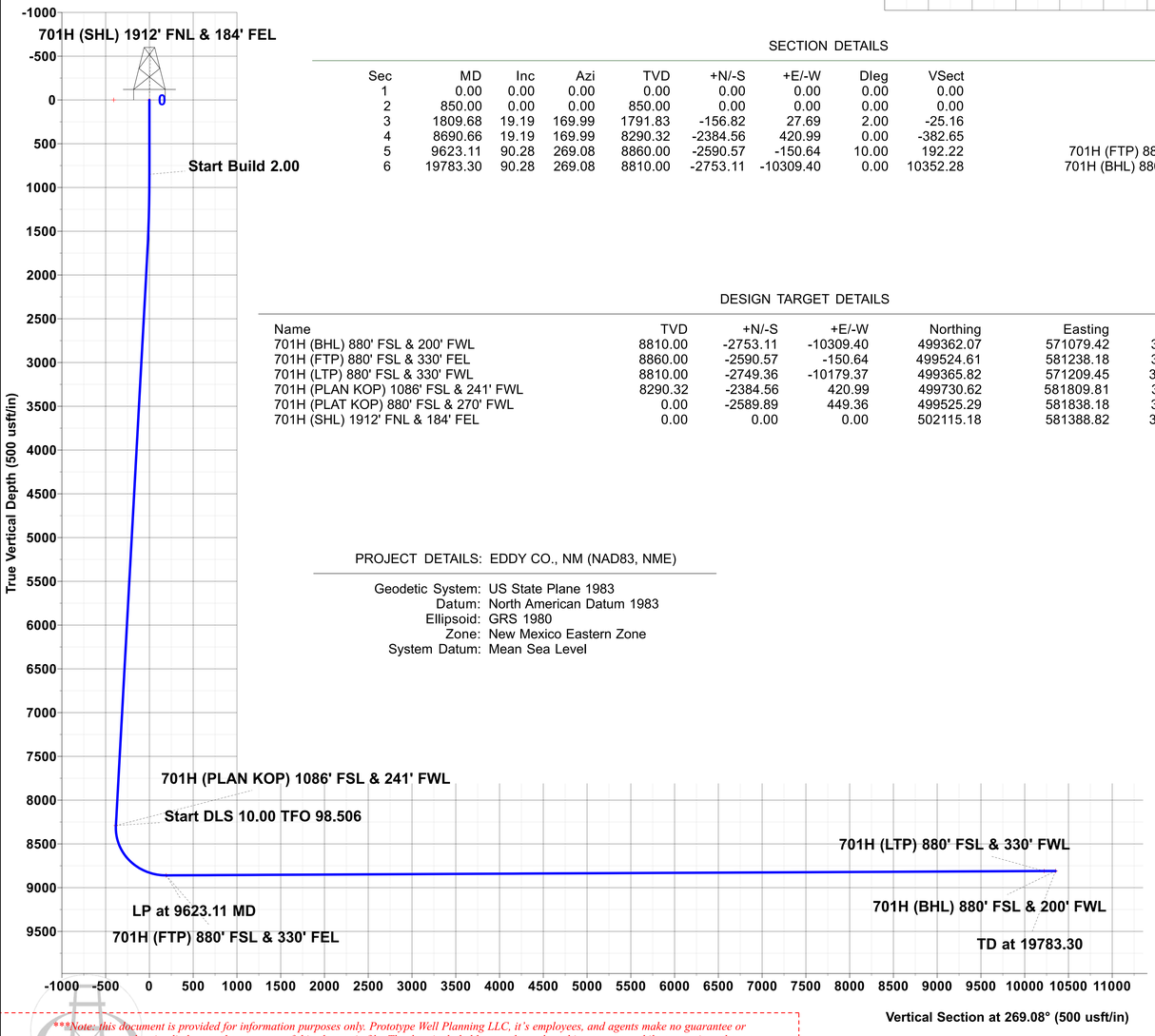


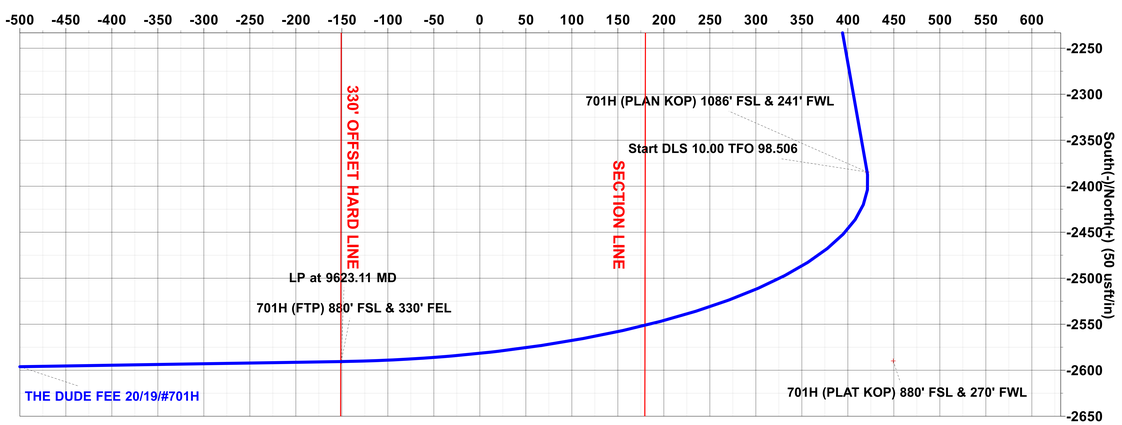
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	
3	1809.68	19.19	169.99	1791.83	-156.82	27.69	2.00	-25.16	
4	8690.66	19.19	169.99	8290.32	-2384.56	420.99	0.00	-382.65	
5	9623.11	90.28	269.08	8860.00	-2590.57	-150.64	10.00	192.22	701H (FTP) 880' FSL & 330' FEL
6	19783.30	90.28	269.08	8810.00	-2753.11	-10309.40	0.00	10352.28	701H (BHL) 880' FSL & 200' FWL

DESIGN TARGET DETAILS

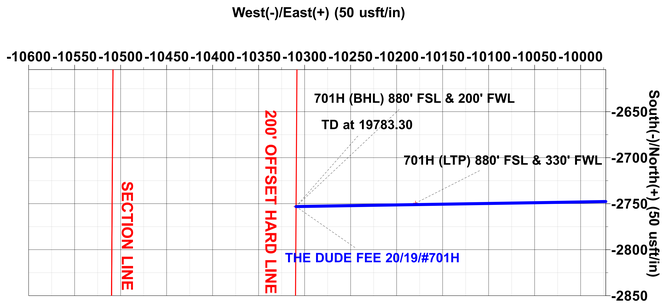
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
701H (BHL) 880' FSL & 200' FWL	8810.00	-2753.11	-10309.40	499362.07	571079.42	32.3727792	-104.2369962
701H (FTP) 880' FSL & 330' FEL	8860.00	-2590.57	-150.64	499524.61	581238.18	32.3731965	-104.2040903
701H (LTP) 880' FSL & 330' FWL	8810.00	-2749.36	-10179.37	499365.82	571209.45	32.3727891	-104.2365750
701H (PLAN KOP) 1086' FSL & 241' FWL	8290.32	-2384.56	420.99	499730.62	581809.81	32.3737609	-104.2022379
701H (PLAT KOP) 880' FSL & 270' FWL	0.00	-2589.89	449.36	499525.29	581838.18	32.3731964	-104.2021469
701H (SHL) 1912' FNL & 184' FEL	0.00	0.00	0.00	502115.18	581388.82	32.3803171	-104.2035922

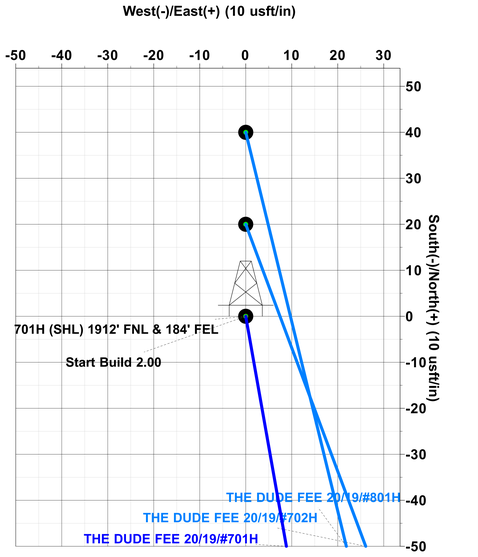




PROJECT DETAILS: EDDY CO., NM (NAD83, NME)

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





Plan: PLAN #1 (#701H/OH)

Created By: Matthew May Date: 6:22, October 15 2024

PALOMA RESOURCES

EDDY CO., NM (NAD83, NME)
THE DUDE FEE 20/19
#701H

OH

Plan: PLAN #1

Standard Planning Report

15 October, 2024

PALOMA RESOURCES

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #701H
Company:	PALOMA RESOURCES	**TVD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Project:	EDDY CO., NM (NAD83, NME)	**MD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Site:	THE DUDE FEE 20/19	**North Reference:**	Grid
Well:	#701H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project EDDY CO., NM (NAD83, NME)

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 20/19

Site Position:		**Northing:**	500,843.68 usft	**Latitude:**	32.3768109
From:	Map	**Easting:**	584,580.84 usft	**Longitude:**	-104.1932575
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.075 °

Well #701H

Well Position	**+N/-S**	1,271.50 usft	**Northing:**	502,115.18 usft	**Latitude:**	32.3803171
	+E/-W	-3,192.02 usft	**Easting:**	581,388.82 usft	**Longitude:**	-104.2035922
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,123.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/30/24	6.453	59.839	47,173

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	269.08

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,809.68	19.19	169.99	1,791.83	-156.82	27.69	2.00	2.00	0.00	169.988	
8,690.66	19.19	169.99	8,290.32	-2,384.56	420.99	0.00	0.00	0.00	0.000	
9,623.11	90.28	269.08	8,860.00	-2,590.57	-150.64	10.00	7.62	10.63	98.506	701H (FTP) 880' FS
19,783.30	90.28	269.08	8,810.00	-2,753.11	-10,309.40	0.00	0.00	0.00	0.000	701H (BHL) 880' FS

PALOMA RESOURCES

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #701H
Company:	PALOMA RESOURCES	**TVD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Project:	EDDY CO., NM (NAD83, NME)	**MD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Site:	THE DUDE FEE 20/19	**North Reference:**	Grid
Well:	#701H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
701H (PLAT KOP) 880' FSL & 270' FWL - 701H (SHL) 1912' FNL & 184' FEL									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	1.00	169.99	900.00	-0.43	0.08	-0.07	2.00	2.00	0.00
1,000.00	3.00	169.99	999.93	-3.87	0.68	-0.62	2.00	2.00	0.00
1,100.00	5.00	169.99	1,099.68	-10.74	1.90	-1.72	2.00	2.00	0.00
1,200.00	7.00	169.99	1,199.13	-21.03	3.71	-3.37	2.00	2.00	0.00
1,300.00	9.00	169.99	1,298.15	-34.73	6.13	-5.57	2.00	2.00	0.00
1,400.00	11.00	169.99	1,396.63	-51.83	9.15	-8.32	2.00	2.00	0.00
1,500.00	13.00	169.99	1,494.44	-72.31	12.77	-11.60	2.00	2.00	0.00
1,600.00	15.00	169.99	1,591.46	-96.13	16.97	-15.43	2.00	2.00	0.00
1,700.00	17.00	169.99	1,687.58	-123.27	21.76	-19.78	2.00	2.00	0.00
1,809.68	19.19	169.99	1,791.83	-156.82	27.69	-25.16	2.00	2.00	0.00
1,900.00	19.19	169.99	1,877.13	-186.06	32.85	-29.86	0.00	0.00	0.00
2,000.00	19.19	169.99	1,971.57	-218.44	38.56	-35.05	0.00	0.00	0.00
2,100.00	19.19	169.99	2,066.01	-250.81	44.28	-40.25	0.00	0.00	0.00
2,200.00	19.19	169.99	2,160.45	-283.19	50.00	-45.44	0.00	0.00	0.00
2,300.00	19.19	169.99	2,254.90	-315.56	55.71	-50.64	0.00	0.00	0.00
2,400.00	19.19	169.99	2,349.34	-347.94	61.43	-55.83	0.00	0.00	0.00
2,500.00	19.19	169.99	2,443.78	-380.31	67.14	-61.03	0.00	0.00	0.00
2,600.00	19.19	169.99	2,538.22	-412.69	72.86	-66.22	0.00	0.00	0.00
2,700.00	19.19	169.99	2,632.66	-445.06	78.57	-71.42	0.00	0.00	0.00
2,800.00	19.19	169.99	2,727.10	-477.44	84.29	-76.61	0.00	0.00	0.00
2,900.00	19.19	169.99	2,821.54	-509.81	90.01	-81.81	0.00	0.00	0.00
3,000.00	19.19	169.99	2,915.99	-542.19	95.72	-87.00	0.00	0.00	0.00
3,100.00	19.19	169.99	3,010.43	-574.56	101.44	-92.20	0.00	0.00	0.00
3,200.00	19.19	169.99	3,104.87	-606.94	107.15	-97.39	0.00	0.00	0.00
3,300.00	19.19	169.99	3,199.31	-639.31	112.87	-102.59	0.00	0.00	0.00
3,400.00	19.19	169.99	3,293.75	-671.69	118.59	-107.78	0.00	0.00	0.00
3,500.00	19.19	169.99	3,388.19	-704.07	124.30	-112.98	0.00	0.00	0.00
3,600.00	19.19	169.99	3,482.63	-736.44	130.02	-118.18	0.00	0.00	0.00
3,700.00	19.19	169.99	3,577.08	-768.82	135.73	-123.37	0.00	0.00	0.00
3,800.00	19.19	169.99	3,671.52	-801.19	141.45	-128.57	0.00	0.00	0.00
3,900.00	19.19	169.99	3,765.96	-833.57	147.16	-133.76	0.00	0.00	0.00
4,000.00	19.19	169.99	3,860.40	-865.94	152.88	-138.96	0.00	0.00	0.00
4,100.00	19.19	169.99	3,954.84	-898.32	158.60	-144.15	0.00	0.00	0.00
4,200.00	19.19	169.99	4,049.28	-930.69	164.31	-149.35	0.00	0.00	0.00
4,300.00	19.19	169.99	4,143.72	-963.07	170.03	-154.54	0.00	0.00	0.00
4,400.00	19.19	169.99	4,238.16	-995.44	175.74	-159.74	0.00	0.00	0.00
4,500.00	19.19	169.99	4,332.61	-1,027.82	181.46	-164.93	0.00	0.00	0.00
4,600.00	19.19	169.99	4,427.05	-1,060.19	187.17	-170.13	0.00	0.00	0.00
4,700.00	19.19	169.99	4,521.49	-1,092.57	192.89	-175.32	0.00	0.00	0.00
4,800.00	19.19	169.99	4,615.93	-1,124.94	198.61	-180.52	0.00	0.00	0.00
4,900.00	19.19	169.99	4,710.37	-1,157.32	204.32	-185.71	0.00	0.00	0.00
5,000.00	19.19	169.99	4,804.81	-1,189.69	210.04	-190.91	0.00	0.00	0.00
5,100.00	19.19	169.99	4,899.25	-1,222.07	215.75	-196.10	0.00	0.00	0.00

PALOMA RESOURCES

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #701H
Company:	PALOMA RESOURCES	**TVD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Project:	EDDY CO., NM (NAD83, NME)	**MD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Site:	THE DUDE FEE 20/19	**North Reference:**	Grid
Well:	#701H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	19.19	169.99	4,993.70	-1,254.45	221.47	-201.30	0.00	0.00	0.00
5,300.00	19.19	169.99	5,088.14	-1,286.82	227.18	-206.49	0.00	0.00	0.00
5,400.00	19.19	169.99	5,182.58	-1,319.20	232.90	-211.69	0.00	0.00	0.00
5,500.00	19.19	169.99	5,277.02	-1,351.57	238.62	-216.88	0.00	0.00	0.00
5,600.00	19.19	169.99	5,371.46	-1,383.95	244.33	-222.08	0.00	0.00	0.00
5,700.00	19.19	169.99	5,465.90	-1,416.32	250.05	-227.27	0.00	0.00	0.00
5,800.00	19.19	169.99	5,560.34	-1,448.70	255.76	-232.47	0.00	0.00	0.00
5,900.00	19.19	169.99	5,654.79	-1,481.07	261.48	-237.66	0.00	0.00	0.00
6,000.00	19.19	169.99	5,749.23	-1,513.45	267.19	-242.86	0.00	0.00	0.00
6,100.00	19.19	169.99	5,843.67	-1,545.82	272.91	-248.06	0.00	0.00	0.00
6,200.00	19.19	169.99	5,938.11	-1,578.20	278.63	-253.25	0.00	0.00	0.00
6,300.00	19.19	169.99	6,032.55	-1,610.57	284.34	-258.45	0.00	0.00	0.00
6,400.00	19.19	169.99	6,126.99	-1,642.95	290.06	-263.64	0.00	0.00	0.00
6,500.00	19.19	169.99	6,221.43	-1,675.32	295.77	-268.84	0.00	0.00	0.00
6,600.00	19.19	169.99	6,315.87	-1,707.70	301.49	-274.03	0.00	0.00	0.00
6,700.00	19.19	169.99	6,410.32	-1,740.07	307.21	-279.23	0.00	0.00	0.00
6,800.00	19.19	169.99	6,504.76	-1,772.45	312.92	-284.42	0.00	0.00	0.00
6,900.00	19.19	169.99	6,599.20	-1,804.83	318.64	-289.62	0.00	0.00	0.00
7,000.00	19.19	169.99	6,693.64	-1,837.20	324.35	-294.81	0.00	0.00	0.00
7,100.00	19.19	169.99	6,788.08	-1,869.58	330.07	-300.01	0.00	0.00	0.00
7,200.00	19.19	169.99	6,882.52	-1,901.95	335.78	-305.20	0.00	0.00	0.00
7,300.00	19.19	169.99	6,976.96	-1,934.33	341.50	-310.40	0.00	0.00	0.00
7,400.00	19.19	169.99	7,071.41	-1,966.70	347.22	-315.59	0.00	0.00	0.00
7,500.00	19.19	169.99	7,165.85	-1,999.08	352.93	-320.79	0.00	0.00	0.00
7,600.00	19.19	169.99	7,260.29	-2,031.45	358.65	-325.98	0.00	0.00	0.00
7,700.00	19.19	169.99	7,354.73	-2,063.83	364.36	-331.18	0.00	0.00	0.00
7,800.00	19.19	169.99	7,449.17	-2,096.20	370.08	-336.37	0.00	0.00	0.00
7,900.00	19.19	169.99	7,543.61	-2,128.58	375.79	-341.57	0.00	0.00	0.00
8,000.00	19.19	169.99	7,638.05	-2,160.95	381.51	-346.76	0.00	0.00	0.00
8,100.00	19.19	169.99	7,732.50	-2,193.33	387.23	-351.96	0.00	0.00	0.00
8,200.00	19.19	169.99	7,826.94	-2,225.70	392.94	-357.15	0.00	0.00	0.00
8,300.00	19.19	169.99	7,921.38	-2,258.08	398.66	-362.35	0.00	0.00	0.00
8,400.00	19.19	169.99	8,015.82	-2,290.45	404.37	-367.54	0.00	0.00	0.00
8,500.00	19.19	169.99	8,110.26	-2,322.83	410.09	-372.74	0.00	0.00	0.00
8,600.00	19.19	169.99	8,204.70	-2,355.20	415.80	-377.94	0.00	0.00	0.00
8,690.66	19.19	169.99	8,290.32	-2,384.56	420.99	-382.65	0.00	0.00	0.00
701H (PLAN KOP) 1086' FSL & 241' FWL									
8,700.00	19.08	172.82	8,299.15	-2,387.58	421.44	-383.05	10.00	-1.25	30.27
8,750.00	19.20	188.10	8,346.41	-2,403.84	421.31	-382.66	10.00	0.24	30.57
8,800.00	20.53	202.33	8,393.47	-2,420.10	416.82	-377.90	10.00	2.66	28.45
8,850.00	22.86	214.33	8,439.94	-2,436.24	408.00	-368.83	10.00	4.66	24.01
8,900.00	25.91	223.94	8,485.50	-2,452.13	394.93	-355.51	10.00	6.11	19.22
8,950.00	29.47	231.52	8,529.77	-2,467.66	377.71	-338.04	10.00	7.12	15.15
9,000.00	33.38	237.53	8,572.44	-2,482.71	356.47	-316.56	10.00	7.80	12.02
9,050.00	37.51	242.38	8,613.18	-2,497.16	331.36	-291.22	10.00	8.27	9.71
9,100.00	41.81	246.38	8,651.66	-2,510.91	302.58	-262.23	10.00	8.60	8.01
9,150.00	46.23	249.76	8,687.61	-2,523.84	270.35	-229.79	10.00	8.83	6.75
9,200.00	50.73	252.66	8,720.75	-2,535.86	234.92	-194.17	10.00	9.01	5.81
9,250.00	55.30	255.21	8,750.83	-2,546.89	196.54	-155.62	10.00	9.13	5.10
9,300.00	59.91	257.50	8,777.61	-2,556.82	155.53	-114.45	10.00	9.23	4.57
9,350.00	64.56	259.57	8,800.90	-2,565.60	112.18	-70.97	10.00	9.30	4.16
9,400.00	69.24	261.50	8,820.51	-2,573.14	66.82	-25.50	10.00	9.35	3.85
9,450.00	73.94	263.30	8,836.30	-2,579.40	19.81	21.60	10.00	9.39	3.61

PALOMA RESOURCES

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #701H
Company:	PALOMA RESOURCES	**TVD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Project:	EDDY CO., NM (NAD83, NME)	**MD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Site:	THE DUDE FEE 20/19	**North Reference:**	Grid
Well:	#701H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,500.00	78.65	265.03	8,848.14	-2,584.33	-28.50	69.99	10.00	9.42	3.45
9,550.00	83.37	266.70	8,855.95	-2,587.89	-77.74	119.28	10.00	9.44	3.33
9,600.00	88.10	268.33	8,859.67	-2,590.05	-127.54	169.11	10.00	9.45	3.27
9,623.11	90.28	269.08	8,860.00	-2,590.57	-150.64	192.22	10.00	9.46	3.25
701H (FTP) 880' FSL & 330' FEL									
9,700.00	90.28	269.08	8,859.62	-2,591.80	-227.52	269.10	0.00	0.00	0.00
9,800.00	90.28	269.08	8,859.13	-2,593.40	-327.50	369.10	0.00	0.00	0.00
9,900.00	90.28	269.08	8,858.64	-2,595.00	-427.49	469.10	0.00	0.00	0.00
10,000.00	90.28	269.08	8,858.15	-2,596.60	-527.47	569.10	0.00	0.00	0.00
10,100.00	90.28	269.08	8,857.65	-2,598.20	-627.46	669.10	0.00	0.00	0.00
10,200.00	90.28	269.08	8,857.16	-2,599.80	-727.45	769.09	0.00	0.00	0.00
10,300.00	90.28	269.08	8,856.67	-2,601.40	-827.43	869.09	0.00	0.00	0.00
10,400.00	90.28	269.08	8,856.18	-2,603.00	-927.42	969.09	0.00	0.00	0.00
10,500.00	90.28	269.08	8,855.68	-2,604.60	-1,027.40	1,069.09	0.00	0.00	0.00
10,600.00	90.28	269.08	8,855.19	-2,606.20	-1,127.39	1,169.09	0.00	0.00	0.00
10,700.00	90.28	269.08	8,854.70	-2,607.80	-1,227.38	1,269.09	0.00	0.00	0.00
10,800.00	90.28	269.08	8,854.21	-2,609.40	-1,327.36	1,369.09	0.00	0.00	0.00
10,900.00	90.28	269.08	8,853.72	-2,611.00	-1,427.35	1,469.09	0.00	0.00	0.00
11,000.00	90.28	269.08	8,853.22	-2,612.60	-1,527.33	1,569.08	0.00	0.00	0.00
11,100.00	90.28	269.08	8,852.73	-2,614.20	-1,627.32	1,669.08	0.00	0.00	0.00
11,200.00	90.28	269.08	8,852.24	-2,615.80	-1,727.31	1,769.08	0.00	0.00	0.00
11,300.00	90.28	269.08	8,851.75	-2,617.40	-1,827.29	1,869.08	0.00	0.00	0.00
11,400.00	90.28	269.08	8,851.26	-2,619.00	-1,927.28	1,969.08	0.00	0.00	0.00
11,500.00	90.28	269.08	8,850.76	-2,620.60	-2,027.26	2,069.08	0.00	0.00	0.00
11,600.00	90.28	269.08	8,850.27	-2,622.20	-2,127.25	2,169.08	0.00	0.00	0.00
11,700.00	90.28	269.08	8,849.78	-2,623.80	-2,227.24	2,269.08	0.00	0.00	0.00
11,800.00	90.28	269.08	8,849.29	-2,625.40	-2,327.22	2,369.08	0.00	0.00	0.00
11,900.00	90.28	269.08	8,848.80	-2,627.00	-2,427.21	2,469.07	0.00	0.00	0.00
12,000.00	90.28	269.08	8,848.30	-2,628.59	-2,527.19	2,569.07	0.00	0.00	0.00
12,100.00	90.28	269.08	8,847.81	-2,630.19	-2,627.18	2,669.07	0.00	0.00	0.00
12,200.00	90.28	269.08	8,847.32	-2,631.79	-2,727.17	2,769.07	0.00	0.00	0.00
12,300.00	90.28	269.08	8,846.83	-2,633.39	-2,827.15	2,869.07	0.00	0.00	0.00
12,400.00	90.28	269.08	8,846.33	-2,634.99	-2,927.14	2,969.07	0.00	0.00	0.00
12,500.00	90.28	269.08	8,845.84	-2,636.59	-3,027.12	3,069.07	0.00	0.00	0.00
12,600.00	90.28	269.08	8,845.35	-2,638.19	-3,127.11	3,169.07	0.00	0.00	0.00
12,700.00	90.28	269.08	8,844.86	-2,639.79	-3,227.09	3,269.06	0.00	0.00	0.00
12,800.00	90.28	269.08	8,844.37	-2,641.39	-3,327.08	3,369.06	0.00	0.00	0.00
12,900.00	90.28	269.08	8,843.87	-2,642.99	-3,427.07	3,469.06	0.00	0.00	0.00
13,000.00	90.28	269.08	8,843.38	-2,644.59	-3,527.05	3,569.06	0.00	0.00	0.00
13,100.00	90.28	269.08	8,842.89	-2,646.19	-3,627.04	3,669.06	0.00	0.00	0.00
13,200.00	90.28	269.08	8,842.40	-2,647.79	-3,727.02	3,769.06	0.00	0.00	0.00
13,300.00	90.28	269.08	8,841.91	-2,649.39	-3,827.01	3,869.06	0.00	0.00	0.00
13,400.00	90.28	269.08	8,841.41	-2,650.99	-3,927.00	3,969.06	0.00	0.00	0.00
13,500.00	90.28	269.08	8,840.92	-2,652.59	-4,026.98	4,069.05	0.00	0.00	0.00
13,600.00	90.28	269.08	8,840.43	-2,654.19	-4,126.97	4,169.05	0.00	0.00	0.00
13,700.00	90.28	269.08	8,839.94	-2,655.79	-4,226.95	4,269.05	0.00	0.00	0.00
13,800.00	90.28	269.08	8,839.45	-2,657.39	-4,326.94	4,369.05	0.00	0.00	0.00
13,900.00	90.28	269.08	8,838.95	-2,658.99	-4,426.93	4,469.05	0.00	0.00	0.00
14,000.00	90.28	269.08	8,838.46	-2,660.59	-4,526.91	4,569.05	0.00	0.00	0.00
14,100.00	90.28	269.08	8,837.97	-2,662.19	-4,626.90	4,669.05	0.00	0.00	0.00
14,200.00	90.28	269.08	8,837.48	-2,663.79	-4,726.88	4,769.05	0.00	0.00	0.00
14,300.00	90.28	269.08	8,836.98	-2,665.39	-4,826.87	4,869.05	0.00	0.00	0.00
14,400.00	90.28	269.08	8,836.49	-2,666.99	-4,926.86	4,969.04	0.00	0.00	0.00
14,500.00	90.28	269.08	8,836.00	-2,668.59	-5,026.84	5,069.04	0.00	0.00	0.00

PALOMA RESOURCES

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #701H
Company:	PALOMA RESOURCES	**TVD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Project:	EDDY CO., NM (NAD83, NME)	**MD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Site:	THE DUDE FEE 20/19	**North Reference:**	Grid
Well:	#701H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,600.00	90.28	269.08	8,835.51	-2,670.19	-5,126.83	5,169.04	0.00	0.00	0.00
14,700.00	90.28	269.08	8,835.02	-2,671.79	-5,226.81	5,269.04	0.00	0.00	0.00
14,800.00	90.28	269.08	8,834.52	-2,673.39	-5,326.80	5,369.04	0.00	0.00	0.00
14,900.00	90.28	269.08	8,834.03	-2,674.99	-5,426.79	5,469.04	0.00	0.00	0.00
15,000.00	90.28	269.08	8,833.54	-2,676.59	-5,526.77	5,569.04	0.00	0.00	0.00
15,100.00	90.28	269.08	8,833.05	-2,678.19	-5,626.76	5,669.04	0.00	0.00	0.00
15,200.00	90.28	269.08	8,832.56	-2,679.79	-5,726.74	5,769.03	0.00	0.00	0.00
15,300.00	90.28	269.08	8,832.06	-2,681.39	-5,826.73	5,869.03	0.00	0.00	0.00
15,400.00	90.28	269.08	8,831.57	-2,682.99	-5,926.72	5,969.03	0.00	0.00	0.00
15,500.00	90.28	269.08	8,831.08	-2,684.59	-6,026.70	6,069.03	0.00	0.00	0.00
15,600.00	90.28	269.08	8,830.59	-2,686.19	-6,126.69	6,169.03	0.00	0.00	0.00
15,700.00	90.28	269.08	8,830.09	-2,687.79	-6,226.67	6,269.03	0.00	0.00	0.00
15,800.00	90.28	269.08	8,829.60	-2,689.39	-6,326.66	6,369.03	0.00	0.00	0.00
15,900.00	90.28	269.08	8,829.11	-2,690.99	-6,426.65	6,469.03	0.00	0.00	0.00
16,000.00	90.28	269.08	8,828.62	-2,692.59	-6,526.63	6,569.02	0.00	0.00	0.00
16,100.00	90.28	269.08	8,828.13	-2,694.19	-6,626.62	6,669.02	0.00	0.00	0.00
16,200.00	90.28	269.08	8,827.63	-2,695.79	-6,726.60	6,769.02	0.00	0.00	0.00
16,300.00	90.28	269.08	8,827.14	-2,697.39	-6,826.59	6,869.02	0.00	0.00	0.00
16,400.00	90.28	269.08	8,826.65	-2,698.98	-6,926.58	6,969.02	0.00	0.00	0.00
16,500.00	90.28	269.08	8,826.16	-2,700.58	-7,026.56	7,069.02	0.00	0.00	0.00
16,600.00	90.28	269.08	8,825.67	-2,702.18	-7,126.55	7,169.02	0.00	0.00	0.00
16,700.00	90.28	269.08	8,825.17	-2,703.78	-7,226.53	7,269.02	0.00	0.00	0.00
16,800.00	90.28	269.08	8,824.68	-2,705.38	-7,326.52	7,369.01	0.00	0.00	0.00
16,900.00	90.28	269.08	8,824.19	-2,706.98	-7,426.51	7,469.01	0.00	0.00	0.00
17,000.00	90.28	269.08	8,823.70	-2,708.58	-7,526.49	7,569.01	0.00	0.00	0.00
17,100.00	90.28	269.08	8,823.21	-2,710.18	-7,626.48	7,669.01	0.00	0.00	0.00
17,200.00	90.28	269.08	8,822.71	-2,711.78	-7,726.46	7,769.01	0.00	0.00	0.00
17,300.00	90.28	269.08	8,822.22	-2,713.38	-7,826.45	7,869.01	0.00	0.00	0.00
17,400.00	90.28	269.08	8,821.73	-2,714.98	-7,926.44	7,969.01	0.00	0.00	0.00
17,500.00	90.28	269.08	8,821.24	-2,716.58	-8,026.42	8,069.01	0.00	0.00	0.00
17,600.00	90.28	269.08	8,820.74	-2,718.18	-8,126.41	8,169.01	0.00	0.00	0.00
17,700.00	90.28	269.08	8,820.25	-2,719.78	-8,226.39	8,269.00	0.00	0.00	0.00
17,800.00	90.28	269.08	8,819.76	-2,721.38	-8,326.38	8,369.00	0.00	0.00	0.00
17,900.00	90.28	269.08	8,819.27	-2,722.98	-8,426.37	8,469.00	0.00	0.00	0.00
18,000.00	90.28	269.08	8,818.78	-2,724.58	-8,526.35	8,569.00	0.00	0.00	0.00
18,100.00	90.28	269.08	8,818.28	-2,726.18	-8,626.34	8,669.00	0.00	0.00	0.00
18,200.00	90.28	269.08	8,817.79	-2,727.78	-8,726.32	8,769.00	0.00	0.00	0.00
18,300.00	90.28	269.08	8,817.30	-2,729.38	-8,826.31	8,869.00	0.00	0.00	0.00
18,400.00	90.28	269.08	8,816.81	-2,730.98	-8,926.30	8,969.00	0.00	0.00	0.00
18,500.00	90.28	269.08	8,816.32	-2,732.58	-9,026.28	9,068.99	0.00	0.00	0.00
18,600.00	90.28	269.08	8,815.82	-2,734.18	-9,126.27	9,168.99	0.00	0.00	0.00
18,700.00	90.28	269.08	8,815.33	-2,735.78	-9,226.25	9,268.99	0.00	0.00	0.00
18,800.00	90.28	269.08	8,814.84	-2,737.38	-9,326.24	9,368.99	0.00	0.00	0.00
18,900.00	90.28	269.08	8,814.35	-2,738.98	-9,426.23	9,468.99	0.00	0.00	0.00
19,000.00	90.28	269.08	8,813.85	-2,740.58	-9,526.21	9,568.99	0.00	0.00	0.00
19,100.00	90.28	269.08	8,813.36	-2,742.18	-9,626.20	9,668.99	0.00	0.00	0.00
19,200.00	90.28	269.08	8,812.87	-2,743.78	-9,726.18	9,768.99	0.00	0.00	0.00
19,300.00	90.28	269.08	8,812.38	-2,745.38	-9,826.17	9,868.98	0.00	0.00	0.00
19,400.00	90.28	269.08	8,811.89	-2,746.98	-9,926.16	9,968.98	0.00	0.00	0.00
19,500.00	90.28	269.08	8,811.39	-2,748.58	-10,026.14	10,068.98	0.00	0.00	0.00
19,600.00	90.28	269.08	8,810.90	-2,750.18	-10,126.13	10,168.98	0.00	0.00	0.00
19,653.23	90.28	269.08	8,810.64	-2,751.03	-10,179.35	10,222.21	0.00	0.00	0.00
701H (LTP) 880' FSL & 330' FWL									

PALOMA RESOURCES

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #701H
Company:	PALOMA RESOURCES	**TVD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Project:	EDDY CO., NM (NAD83, NME)	**MD Reference:**	EST RKB = 20' @ 3143.00usft (TBD)
Site:	THE DUDE FEE 20/19	**North Reference:**	Grid
Well:	#701H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,700.00	90.28	269.08	8,810.41	-2,751.78	-10,226.11	10,268.98	0.00	0.00	0.00
19,783.30	90.28	269.08	8,810.00	-2,753.11	-10,309.40	10,352.28	0.00	0.00	0.00
701H (BHL) 880' FSL & 200' FWL									

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
701H (PLAT KOP) 88(	0.00	0.00	0.00	-2,589.89	449.36	499,525.29	581,838.18	32.3731964	-104.2021468
- plan misses target center by 2628.58usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
701H (SHL) 1912' FN	0.00	0.00	0.00	0.00	0.00	502,115.18	581,388.82	32.3803171	-104.2035922
- plan hits target center									
- Point									
701H (PLAN KOP) 10	0.00	0.00	8,290.32	-2,384.56	420.99	499,730.63	581,809.81	32.3737609	-104.2022379
- plan hits target center									
- Point									
701H (LTP) 880' FSL	0.00	0.00	8,810.00	-2,749.36	-10,179.37	499,365.82	571,209.45	32.3727892	-104.2365750
- plan misses target center by 1.79usft at 19653.23usft MD (8810.64 TVD, -2751.03 N, -10179.35 E)									
- Point									
701H (BHL) 880' FSL	0.00	0.00	8,810.00	-2,753.11	-10,309.40	499,362.07	571,079.42	32.3727792	-104.2369962
- plan hits target center									
- Point									
701H (FTP) 880' FSL	0.00	0.00	8,860.00	-2,590.57	-150.64	499,524.61	581,238.18	32.3731965	-104.2040903
- plan hits target center									
- Point									