

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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 371520

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

1. Operator Name and Address COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701		2. OGRID Number 229137
		3. API Number 30-015-55404
4. Property Code 308624	5. Property Name HONEY GRAHAM STATE COM	6. Well No. 704H

7. Surface Location

UL - Lot B	Section 20	Township 26S	Range 28E	Lot Idn	Feet From 850	N/S Line N	Feet From 1755	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot G	Section 32	Township 26S	Range 28E	Lot Idn 3	Feet From 200	N/S Line S	Feet From 1580	E/W Line E	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3086
16. Multiple N	17. Proposed Depth 21600	18. Formation Wolfcamp	19. Contractor	20. Spud Date 9/12/2024
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	14.75	10.75	45.5	400	450	0
Int1	9.875	7.625	29.7	7200	920	0
Prod	6.75	5.5	23	21600	1520	0

Casing/Cement Program: Additional Comments

Drill 14-3/4" hole to ~400' w/ fresh water spud mud. Run 10-3/4" 45.5# J55 BTC casing to TD and cement to surface in one stage. Drill 9-7/8" hole to ~7,200' with cut brine before transitioning to 8-3/4" hole size to ~8790'. Run 7-5/8 29.7# L80-ICY BTC & P110-ICY W513 to TD and cement to surface in one stage. Drill 6-3/4" vertical, curve and lateral to ~21,600' with OBM. Run 5.5" 23# P110-CY BTC casing from TD to surface and cement to surface in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

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 Robyn Russell	Approved By: Ward Rikala
Title: Supervisor Delaware Regulatory	Title: Petroleum Specialist Supervisor
Email Address: robyn.m.russell@conocophillips.com	Approved Date: 9/10/2024 Expiration Date: 9/10/2026
Date: 8/28/2024 Phone: 432-685-4385	Conditions of Approval Attached

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

WELL LOCATION INFORMATION

API Number 30-015- 55404	Pool Code 98220	Pool Name Purple Sage; Wolfcamp, Gas
Property Code 336243	Property Name HONEY GRAHAM STATE COM	Well Number 704H
OGRID No. 217817 229137	Operator Name COG Operating LLC	Ground Level Elevation 3,086.28'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL B	Section 20	Township 26S	Range 28E	Lot	Ft. from N/S 850' FNL	Ft. from E/W 1,755' FEL	Latitude 32.032902	Longitude -104.106679	County EDDY
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Bottom Hole Location

UL LOT 3	Section 32	Township 26S	Range 28E	Lot	Ft. from N/S 200' FSL	Ft. from E/W 1,580' FEL	Latitude 32.000521	Longitude -104.106128	County EDDY
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Dedicated Acres 1535.07	Infill or Defining Well Infill Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL B	Section 20	Township 26S	Range 28E	Lot	Ft. from N/S 850' FNL	Ft. from E/W 1,755' FEL	Latitude 32.032902	Longitude -104.106679	County EDDY
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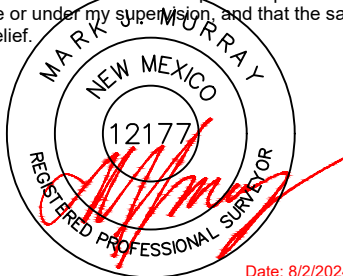
First Take Point (FTP)

UL A	Section 20	Township 26S	Range 28E	Lot	Ft. from N/S 330' FNL	Ft. from E/W 1,315' FEL	Latitude 32.034334	Longitude -104.105256	County EDDY
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Last Take Point (LTP)

UL LOT 3	Section 32	Township 26S	Range 28E	Lot	Ft. from N/S 330' FSL	Ft. from E/W 1,580' FEL	Latitude 32.000879	Longitude -104.106129	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:
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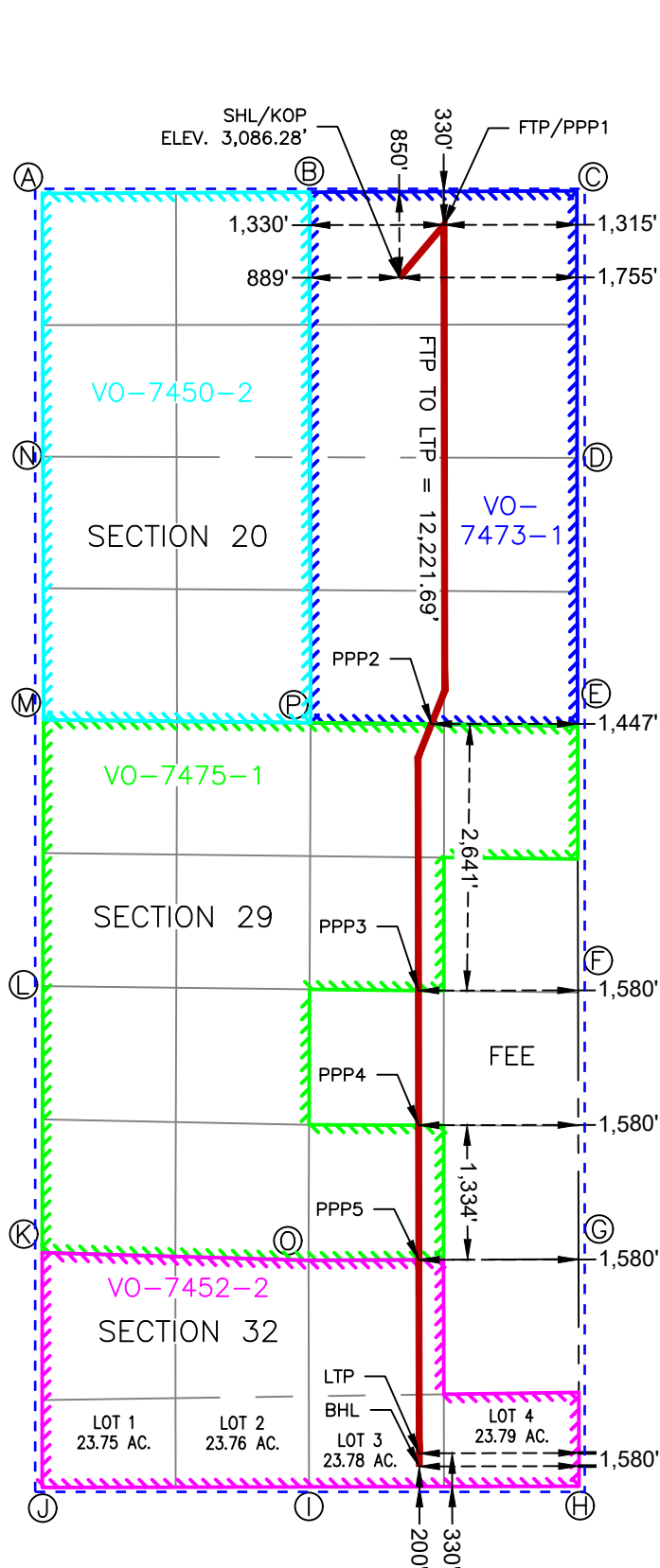
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.		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.  Date: 8/2/2024	
Signature Mayte Reyes		Signature and Seal of Professional Surveyor	
Date 8/24/2024			
Printed Name Mayte Reyes		Certificate Number 12177	Date of Survey 8/2/2024
Email Address mayte.x.reyes@conocophillips.com			

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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



SURFACE HOLE LOCATION
& KICK-OFF POINT
850' FNL & 1,755' FEL
ELEV. = 3,086.28'

NAD 83 X = 611,572.73'
NAD 83 Y = 375,781.77'
NAD 83 LAT = 32.032902°
NAD 83 LONG = -104.106679°

FIRST TAKE POINT &
PENETRATION POINT 1
330' FNL & 1,315' FEL
NAD 83 X = 612,012.32'
NAD 83 Y = 376,303.85'
NAD 83 LAT = 32.034334°
NAD 83 LONG = -104.105256°

PENETRATION POINT 2
0' FSL & 1,447' FEL
NAD 83 X = 611,887.48'
NAD 83 Y = 371,357.67°
NAD 83 LAT = 32.020738°
NAD 83 LONG = -104.105693°

PENETRATION POINT 3
2,641' FNL & 1,580' FEL
NAD 83 X = 611,759.22°
NAD 83 Y = 368,717.44°
NAD 83 LAT = 32.013481°
NAD 83 LONG = -104.106125°

PENETRATION POINT 4
1,334' FSL & 1,580' FEL
NAD 83 X = 611,761.37°
NAD 83 Y = 367,383.59°
NAD 83 LAT = 32.009814°
NAD 83 LONG = -104.106127°

PENETRATION POINT 5
0' FSL & 1,580' FEL
NAD 83 X = 611,763.51°
NAD 83 Y = 366,049.71°
NAD 83 LAT = 32.006147°
NAD 83 LONG = -104.106129°

LAST TAKE POINT
330' FSL & 1,580' FEL
NAD 83 X = 611,767.69°
NAD 83 Y = 364,133.21°
NAD 83 LAT = 32.000879°
NAD 83 LONG = -104.106129°

BOTTOM HOLE LOCATION
200' FSL & 1,580' FEL
NAD 83 X = 611,767.97°
NAD 83 Y = 364,003.21°
NAD 83 LAT = 32.000521°
NAD 83 LONG = -104.106128°

CORNER COORDINATES NEW MEXICO EAST - NAD 83	
A - CALCULATED CORNER	N:376,615.08' E:608,036.32'
B - CALCULATED CORNER	N:376,627.57' E:610,681.69'
C - IRON PIPE W/ BRASS CAP	N:376,640.07' E:613,327.06'
D - IRON PIPE W/ BRASS CAP	N:373,994.44' E:613,329.11'
E - IRON PIPE W/ BRASS CAP	N:371,341.77' E:613,334.88'
F - CALCULATED CORNER	N:368,699.04' E:613,338.84'
G - IRON PIPE W/ BRASS CAP	N:366,056.40' E:613,343.50'
H - CALCULATED CORNER	N:363,806.93' E:613,348.41'
I - CALCULATED CORNER	N:363,800.64' E:610,675.90'
J - CALCULATED CORNER	N:363,794.43' E:608,035.07'
K - IRON PIPE W/ BRASS CAP	N:366,121.40' E:608,035.07'
L - IRON PIPE W/ BRASS CAP	N:368,761.08' E:608,041.84'
M - IRON PIPE W/ BRASS CAP	N:371,399.51' E:608,049.07'
N - CALCULATED CORNER	N:374,007.30' E:608,042.69'
O - IRON PIPE W/ BRASS CAP	N:366,045.09' E:610,671.17'
P - IRON PIPE W/ BRASS CAP	N:371,370.80' E:610,691.76'

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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 371520

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-55404
		Well: HONEY GRAHAM STATE COM #704H

Created By	Comment	Comment Date
mreyes4	OIL: COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.	8/28/2024

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

Form APD Conditions
Permit 371520

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-55404
		Well: HONEY GRAHAM STATE COM #704H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
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 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	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)

HONEY GRAHAM STATE PROJECT

**_HONEY GRAHAM ST COM 704H - Slot HONEY GRAHAM ST
COM #704H**

OWB

Plan: PWP0

Standard Planning Report

25 April, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _HONEY GRAHAM ST COM 704H - Slot HONEY GRAHAM ST COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3081.0usft (Original Well Elev)
Project:	ATLAS PROSPECT (DBW)	MD Reference:	WELL @ 3081.0usft (Original Well Elev)
Site:	HONEY GRAHAM STATE PROJECT	North Reference:	Grid
Well:	_HONEY GRAHAM ST COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	ATLAS PROSPECT (DBW)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	7/11/2023	6.65	59.53	47,320.64692489

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.06

Plan Survey Tool Program		Date	4/22/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	21,601.3 PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,558.5	11.17	37.54	1,554.9	43.0	33.1	2.00	2.00	0.00	37.54	
4,448.4	11.17	37.54	4,390.1	486.9	374.1	0.00	0.00	0.00	0.00	
5,565.3	0.00	0.00	5,500.0	573.0	440.2	1.00	-1.00	0.00	180.00	
8,892.3	0.00	0.00	8,827.0	573.0	440.2	0.00	0.00	0.00	0.00	
9,792.3	90.00	179.93	9,400.0	0.0	440.9	10.00	10.00	0.00	179.93	
13,368.3	90.00	179.93	9,400.0	-3,576.0	445.3	0.00	0.00	0.00	0.00	
14,111.3	90.00	194.79	9,400.0	-4,310.8	350.4	2.00	0.00	2.00	90.00	
14,396.1	90.00	194.79	9,400.0	-4,586.1	277.7	0.00	0.00	0.00	0.00	
15,139.9	90.00	179.91	9,400.0	-5,321.7	182.8	2.00	0.00	-2.00	-90.00	
21,601.3	90.00	179.91	9,400.0	-11,783.2	192.6	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _HONEY GRAHAM ST COM 704H - Slot HONEY GRAHAM ST COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3081.0usft (Original Well Elev)
Project:	ATLAS PROSPECT (DBW)	MD Reference:	WELL @ 3081.0usft (Original Well Elev)
Site:	HONEY GRAHAM STATE PROJECT	North Reference:	Grid
Well:	_HONEY GRAHAM ST COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	2.00	37.54	1,100.0	1.4	1.1	-1.4	2.00	2.00	0.00	
1,200.0	4.00	37.54	1,199.8	5.5	4.3	-5.5	2.00	2.00	0.00	
1,300.0	6.00	37.54	1,299.5	12.4	9.6	-12.3	2.00	2.00	0.00	
1,400.0	8.00	37.54	1,398.7	22.1	17.0	-21.8	2.00	2.00	0.00	
1,500.0	10.00	37.54	1,497.5	34.5	26.5	-34.1	2.00	2.00	0.00	
1,558.5	11.17	37.54	1,554.9	43.0	33.1	-42.5	2.00	2.00	0.00	
1,600.0	11.17	37.54	1,595.7	49.4	38.0	-48.8	0.00	0.00	0.00	
1,700.0	11.17	37.54	1,693.8	64.8	49.8	-63.9	0.00	0.00	0.00	
1,800.0	11.17	37.54	1,791.9	80.1	61.6	-79.1	0.00	0.00	0.00	
1,900.0	11.17	37.54	1,890.0	95.5	73.4	-94.3	0.00	0.00	0.00	
2,000.0	11.17	37.54	1,988.1	110.9	85.2	-109.4	0.00	0.00	0.00	
2,100.0	11.17	37.54	2,086.2	126.2	97.0	-124.6	0.00	0.00	0.00	
2,200.0	11.17	37.54	2,184.3	141.6	108.8	-139.8	0.00	0.00	0.00	
2,300.0	11.17	37.54	2,282.4	156.9	120.6	-154.9	0.00	0.00	0.00	
2,400.0	11.17	37.54	2,380.5	172.3	132.4	-170.1	0.00	0.00	0.00	
2,500.0	11.17	37.54	2,478.6	187.7	144.2	-185.3	0.00	0.00	0.00	
2,600.0	11.17	37.54	2,576.7	203.0	156.0	-200.4	0.00	0.00	0.00	
2,700.0	11.17	37.54	2,674.8	218.4	167.8	-215.6	0.00	0.00	0.00	
2,800.0	11.17	37.54	2,773.0	233.7	179.6	-230.8	0.00	0.00	0.00	
2,900.0	11.17	37.54	2,871.1	249.1	191.4	-245.9	0.00	0.00	0.00	
3,000.0	11.17	37.54	2,969.2	264.5	203.2	-261.1	0.00	0.00	0.00	
3,100.0	11.17	37.54	3,067.3	279.8	215.0	-276.3	0.00	0.00	0.00	
3,200.0	11.17	37.54	3,165.4	295.2	226.8	-291.4	0.00	0.00	0.00	
3,300.0	11.17	37.54	3,263.5	310.5	238.6	-306.6	0.00	0.00	0.00	
3,400.0	11.17	37.54	3,361.6	325.9	250.4	-321.8	0.00	0.00	0.00	
3,500.0	11.17	37.54	3,459.7	341.3	262.2	-336.9	0.00	0.00	0.00	
3,600.0	11.17	37.54	3,557.8	356.6	274.0	-352.1	0.00	0.00	0.00	
3,700.0	11.17	37.54	3,655.9	372.0	285.8	-367.3	0.00	0.00	0.00	
3,800.0	11.17	37.54	3,754.0	387.3	297.6	-382.4	0.00	0.00	0.00	
3,900.0	11.17	37.54	3,852.1	402.7	309.4	-397.6	0.00	0.00	0.00	
4,000.0	11.17	37.54	3,950.2	418.1	321.2	-412.8	0.00	0.00	0.00	
4,100.0	11.17	37.54	4,048.3	433.4	333.0	-427.9	0.00	0.00	0.00	
4,200.0	11.17	37.54	4,146.4	448.8	344.8	-443.1	0.00	0.00	0.00	
4,300.0	11.17	37.54	4,244.5	464.1	356.6	-458.3	0.00	0.00	0.00	
4,400.0	11.17	37.54	4,342.6	479.5	368.4	-473.4	0.00	0.00	0.00	
4,448.4	11.17	37.54	4,390.1	486.9	374.1	-480.8	0.00	0.00	0.00	
4,500.0	10.65	37.54	4,440.8	494.7	380.1	-488.4	1.00	-1.00	0.00	
4,600.0	9.65	37.54	4,539.2	508.7	390.8	-502.2	1.00	-1.00	0.00	
4,700.0	8.65	37.54	4,638.0	521.3	400.5	-514.7	1.00	-1.00	0.00	
4,800.0	7.65	37.54	4,736.9	532.5	409.2	-525.8	1.00	-1.00	0.00	
4,900.0	6.65	37.54	4,836.2	542.4	416.7	-535.5	1.00	-1.00	0.00	
5,000.0	5.65	37.54	4,935.6	550.9	423.3	-543.9	1.00	-1.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _HONEY GRAHAM ST COM 704H - Slot HONEY GRAHAM ST COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3081.0usft (Original Well Elev)
Project:	ATLAS PROSPECT (DBW)	MD Reference:	WELL @ 3081.0usft (Original Well Elev)
Site:	HONEY GRAHAM STATE PROJECT	North Reference:	Grid
Well:	_HONEY GRAHAM ST COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
5,100.0	4.65	37.54	5,035.2	558.0	428.7	-550.9	1.00	-1.00	0.00	
5,200.0	3.65	37.54	5,134.9	563.8	433.2	-556.6	1.00	-1.00	0.00	
5,300.0	2.65	37.54	5,234.8	568.1	436.5	-560.9	1.00	-1.00	0.00	
5,400.0	1.65	37.54	5,334.7	571.1	438.8	-563.9	1.00	-1.00	0.00	
5,500.0	0.65	37.54	5,434.7	572.7	440.0	-565.4	1.00	-1.00	0.00	
5,565.3	0.00	0.00	5,500.0	573.0	440.2	-565.7	1.00	-1.00	0.00	
5,600.0	0.00	0.00	5,534.7	573.0	440.2	-565.7	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,634.7	573.0	440.2	-565.7	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,734.7	573.0	440.2	-565.7	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,834.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,934.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,034.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,134.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,234.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,334.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,434.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,534.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,634.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,734.7	573.0	440.2	-565.7	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,834.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,934.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,034.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,134.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,234.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,334.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,434.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,534.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,634.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,734.7	573.0	440.2	-565.7	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,834.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,934.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,034.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,134.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,234.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,334.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,434.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,534.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,634.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,734.7	573.0	440.2	-565.7	0.00	0.00	0.00	
8,892.3	0.00	0.00	8,827.0	573.0	440.2	-565.7	0.00	0.00	0.00	
8,900.0	0.77	179.93	8,834.7	572.9	440.3	-565.7	10.00	10.00	0.00	
8,950.0	5.77	179.93	8,884.6	570.1	440.3	-562.8	10.00	10.00	0.00	
9,000.0	10.77	179.93	8,934.0	562.9	440.3	-555.6	10.00	10.00	0.00	
9,050.0	15.77	179.93	8,982.7	551.4	440.3	-544.2	10.00	10.00	0.00	
9,100.0	20.77	179.93	9,030.2	535.8	440.3	-528.5	10.00	10.00	0.00	
9,150.0	25.77	179.93	9,076.1	516.0	440.3	-508.8	10.00	10.00	0.00	
9,200.0	30.77	179.93	9,120.1	492.4	440.3	-485.1	10.00	10.00	0.00	
9,250.0	35.77	179.93	9,161.9	464.9	440.4	-457.7	10.00	10.00	0.00	
9,300.0	40.77	179.93	9,201.1	434.0	440.4	-426.7	10.00	10.00	0.00	
9,350.0	45.77	179.93	9,237.5	399.7	440.5	-392.5	10.00	10.00	0.00	
9,400.0	50.77	179.93	9,270.8	362.4	440.5	-355.2	10.00	10.00	0.00	
9,450.0	55.77	179.93	9,300.7	322.4	440.6	-315.1	10.00	10.00	0.00	
9,500.0	60.77	179.93	9,327.0	279.9	440.6	-272.6	10.00	10.00	0.00	

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Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _HONEY GRAHAM ST COM 704H - Slot HONEY GRAHAM ST COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3081.0usft (Original Well Elev)
Project:	ATLAS PROSPECT (DBW)	MD Reference:	WELL @ 3081.0usft (Original Well Elev)
Site:	HONEY GRAHAM STATE PROJECT	North Reference:	Grid
Well:	_HONEY GRAHAM ST COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
9,550.0	65.77	179.93	9,349.5	235.2	440.7	-228.0	10.00	10.00	0.00	
9,600.0	70.77	179.93	9,368.0	188.8	440.7	-181.6	10.00	10.00	0.00	
9,650.0	75.77	179.93	9,382.4	140.9	440.8	-133.7	10.00	10.00	0.00	
9,700.0	80.77	179.93	9,392.5	92.0	440.8	-84.8	10.00	10.00	0.00	
9,750.0	85.77	179.93	9,398.4	42.3	440.9	-35.1	10.00	10.00	0.00	
9,792.3	90.00	179.93	9,400.0	0.0	440.9	7.2	10.00	10.00	0.00	
9,800.0	90.00	179.93	9,400.0	-7.6	441.0	14.8	0.00	0.00	0.00	
9,900.0	90.00	179.93	9,400.0	-107.6	441.1	114.8	0.00	0.00	0.00	
10,000.0	90.00	179.93	9,400.0	-207.6	441.2	214.8	0.00	0.00	0.00	
10,100.0	90.00	179.93	9,400.0	-307.6	441.3	314.8	0.00	0.00	0.00	
10,200.0	90.00	179.93	9,400.0	-407.6	441.4	414.8	0.00	0.00	0.00	
10,300.0	90.00	179.93	9,400.0	-507.6	441.6	514.8	0.00	0.00	0.00	
10,400.0	90.00	179.93	9,400.0	-607.6	441.7	614.8	0.00	0.00	0.00	
10,500.0	90.00	179.93	9,400.0	-707.6	441.8	714.8	0.00	0.00	0.00	
10,600.0	90.00	179.93	9,400.0	-807.6	441.9	814.7	0.00	0.00	0.00	
10,700.0	90.00	179.93	9,400.0	-907.6	442.1	914.7	0.00	0.00	0.00	
10,800.0	90.00	179.93	9,400.0	-1,007.6	442.2	1,014.7	0.00	0.00	0.00	
10,900.0	90.00	179.93	9,400.0	-1,107.6	442.3	1,114.7	0.00	0.00	0.00	
11,000.0	90.00	179.93	9,400.0	-1,207.6	442.4	1,214.7	0.00	0.00	0.00	
11,100.0	90.00	179.93	9,400.0	-1,307.6	442.5	1,314.7	0.00	0.00	0.00	
11,200.0	90.00	179.93	9,400.0	-1,407.6	442.7	1,414.7	0.00	0.00	0.00	
11,300.0	90.00	179.93	9,400.0	-1,507.6	442.8	1,514.7	0.00	0.00	0.00	
11,400.0	90.00	179.93	9,400.0	-1,607.6	442.9	1,614.6	0.00	0.00	0.00	
11,500.0	90.00	179.93	9,400.0	-1,707.6	443.0	1,714.6	0.00	0.00	0.00	
11,600.0	90.00	179.93	9,400.0	-1,807.6	443.2	1,814.6	0.00	0.00	0.00	
11,700.0	90.00	179.93	9,400.0	-1,907.6	443.3	1,914.6	0.00	0.00	0.00	
11,800.0	90.00	179.93	9,400.0	-2,007.6	443.4	2,014.6	0.00	0.00	0.00	
11,900.0	90.00	179.93	9,400.0	-2,107.6	443.5	2,114.6	0.00	0.00	0.00	
12,000.0	90.00	179.93	9,400.0	-2,207.6	443.6	2,214.6	0.00	0.00	0.00	
12,100.0	90.00	179.93	9,400.0	-2,307.6	443.8	2,314.6	0.00	0.00	0.00	
12,200.0	90.00	179.93	9,400.0	-2,407.6	443.9	2,414.6	0.00	0.00	0.00	
12,300.0	90.00	179.93	9,400.0	-2,507.6	444.0	2,514.5	0.00	0.00	0.00	
12,400.0	90.00	179.93	9,400.0	-2,607.6	444.1	2,614.5	0.00	0.00	0.00	
12,500.0	90.00	179.93	9,400.0	-2,707.6	444.3	2,714.5	0.00	0.00	0.00	
12,600.0	90.00	179.93	9,400.0	-2,807.6	444.4	2,814.5	0.00	0.00	0.00	
12,700.0	90.00	179.93	9,400.0	-2,907.6	444.5	2,914.5	0.00	0.00	0.00	
12,800.0	90.00	179.93	9,400.0	-3,007.6	444.6	3,014.5	0.00	0.00	0.00	
12,900.0	90.00	179.93	9,400.0	-3,107.6	444.7	3,114.5	0.00	0.00	0.00	
13,000.0	90.00	179.93	9,400.0	-3,207.6	444.9	3,214.5	0.00	0.00	0.00	
13,100.0	90.00	179.93	9,400.0	-3,307.6	445.0	3,314.5	0.00	0.00	0.00	
13,200.0	90.00	179.93	9,400.0	-3,407.6	445.1	3,414.4	0.00	0.00	0.00	
13,300.0	90.00	179.93	9,400.0	-3,507.6	445.2	3,514.4	0.00	0.00	0.00	
13,368.3	90.00	179.93	9,400.0	-3,576.0	445.3	3,582.8	0.00	0.00	0.00	
13,400.0	90.00	180.56	9,400.0	-3,607.6	445.2	3,614.4	2.00	0.00	2.00	
13,500.0	90.00	182.56	9,400.0	-3,707.6	442.5	3,714.3	2.00	0.00	2.00	
13,600.0	90.00	184.56	9,400.0	-3,807.4	436.2	3,814.0	2.00	0.00	2.00	
13,700.0	90.00	186.56	9,400.0	-3,906.9	426.5	3,913.4	2.00	0.00	2.00	
13,800.0	90.00	188.56	9,400.0	-4,006.0	413.4	4,012.3	2.00	0.00	2.00	
13,900.0	90.00	190.56	9,400.0	-4,104.6	396.8	4,110.6	2.00	0.00	2.00	
14,000.0	90.00	192.56	9,400.0	-4,202.6	376.7	4,208.2	2.00	0.00	2.00	
14,100.0	90.00	194.56	9,400.0	-4,299.8	353.3	4,305.0	2.00	0.00	2.00	
14,111.3	90.00	194.79	9,400.0	-4,310.8	350.4	4,315.9	2.00	0.00	2.00	
14,200.0	90.00	194.79	9,400.0	-4,396.5	327.8	4,401.3	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _HONEY GRAHAM ST COM 704H - Slot HONEY GRAHAM ST COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3081.0usft (Original Well Elev)
Project:	ATLAS PROSPECT (DBW)	MD Reference:	WELL @ 3081.0usft (Original Well Elev)
Site:	HONEY GRAHAM STATE PROJECT	North Reference:	Grid
Well:	_HONEY GRAHAM ST COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
14,300.0	90.00	194.79	9,400.0	-4,493.2	302.2	4,497.5	0.00	0.00	0.00	
14,396.1	90.00	194.79	9,400.0	-4,586.1	277.7	4,590.0	0.00	0.00	0.00	
14,400.0	90.00	194.71	9,400.0	-4,589.9	276.7	4,593.8	2.00	0.00	-2.00	
14,500.0	90.00	192.71	9,400.0	-4,687.0	253.0	4,690.5	2.00	0.00	-2.00	
14,600.0	90.00	190.71	9,400.0	-4,784.9	232.7	4,788.1	2.00	0.00	-2.00	
14,700.0	90.00	188.71	9,400.0	-4,883.5	215.9	4,886.4	2.00	0.00	-2.00	
14,800.0	90.00	186.71	9,400.0	-4,982.6	202.4	4,985.2	2.00	0.00	-2.00	
14,900.0	90.00	184.71	9,400.0	-5,082.1	192.5	5,084.6	2.00	0.00	-2.00	
15,000.0	90.00	182.71	9,400.0	-5,181.9	186.0	5,184.2	2.00	0.00	-2.00	
15,100.0	90.00	180.71	9,400.0	-5,281.8	183.0	5,284.1	2.00	0.00	-2.00	
15,139.9	90.00	179.91	9,400.0	-5,321.7	182.8	5,324.0	2.00	0.00	-2.00	
15,200.0	90.00	179.91	9,400.0	-5,381.8	182.9	5,384.1	0.00	0.00	0.00	
15,300.0	90.00	179.91	9,400.0	-5,481.8	183.0	5,484.1	0.00	0.00	0.00	
15,400.0	90.00	179.91	9,400.0	-5,581.8	183.2	5,584.1	0.00	0.00	0.00	
15,500.0	90.00	179.91	9,400.0	-5,681.8	183.4	5,684.1	0.00	0.00	0.00	
15,600.0	90.00	179.91	9,400.0	-5,781.8	183.5	5,784.0	0.00	0.00	0.00	
15,700.0	90.00	179.91	9,400.0	-5,881.8	183.7	5,884.0	0.00	0.00	0.00	
15,800.0	90.00	179.91	9,400.0	-5,981.8	183.8	5,984.0	0.00	0.00	0.00	
15,900.0	90.00	179.91	9,400.0	-6,081.8	184.0	6,084.0	0.00	0.00	0.00	
16,000.0	90.00	179.91	9,400.0	-6,181.8	184.1	6,184.0	0.00	0.00	0.00	
16,100.0	90.00	179.91	9,400.0	-6,281.8	184.3	6,284.0	0.00	0.00	0.00	
16,200.0	90.00	179.91	9,400.0	-6,381.8	184.4	6,384.0	0.00	0.00	0.00	
16,300.0	90.00	179.91	9,400.0	-6,481.8	184.6	6,484.0	0.00	0.00	0.00	
16,400.0	90.00	179.91	9,400.0	-6,581.8	184.7	6,584.0	0.00	0.00	0.00	
16,500.0	90.00	179.91	9,400.0	-6,681.8	184.9	6,683.9	0.00	0.00	0.00	
16,600.0	90.00	179.91	9,400.0	-6,781.8	185.0	6,783.9	0.00	0.00	0.00	
16,700.0	90.00	179.91	9,400.0	-6,881.8	185.2	6,883.9	0.00	0.00	0.00	
16,800.0	90.00	179.91	9,400.0	-6,981.8	185.3	6,983.9	0.00	0.00	0.00	
16,900.0	90.00	179.91	9,400.0	-7,081.8	185.5	7,083.9	0.00	0.00	0.00	
17,000.0	90.00	179.91	9,400.0	-7,181.8	185.6	7,183.9	0.00	0.00	0.00	
17,100.0	90.00	179.91	9,400.0	-7,281.8	185.8	7,283.9	0.00	0.00	0.00	
17,200.0	90.00	179.91	9,400.0	-7,381.8	185.9	7,383.9	0.00	0.00	0.00	
17,300.0	90.00	179.91	9,400.0	-7,481.8	186.1	7,483.9	0.00	0.00	0.00	
17,400.0	90.00	179.91	9,400.0	-7,581.8	186.2	7,583.8	0.00	0.00	0.00	
17,500.0	90.00	179.91	9,400.0	-7,681.8	186.4	7,683.8	0.00	0.00	0.00	
17,600.0	90.00	179.91	9,400.0	-7,781.8	186.5	7,783.8	0.00	0.00	0.00	
17,700.0	90.00	179.91	9,400.0	-7,881.8	186.7	7,883.8	0.00	0.00	0.00	
17,800.0	90.00	179.91	9,400.0	-7,981.8	186.8	7,983.8	0.00	0.00	0.00	
17,900.0	90.00	179.91	9,400.0	-8,081.8	187.0	8,083.8	0.00	0.00	0.00	
18,000.0	90.00	179.91	9,400.0	-8,181.8	187.1	8,183.8	0.00	0.00	0.00	
18,100.0	90.00	179.91	9,400.0	-8,281.8	187.3	8,283.8	0.00	0.00	0.00	
18,200.0	90.00	179.91	9,400.0	-8,381.8	187.4	8,383.8	0.00	0.00	0.00	
18,300.0	90.00	179.91	9,400.0	-8,481.8	187.6	8,483.7	0.00	0.00	0.00	
18,400.0	90.00	179.91	9,400.0	-8,581.8	187.8	8,583.7	0.00	0.00	0.00	
18,500.0	90.00	179.91	9,400.0	-8,681.8	187.9	8,683.7	0.00	0.00	0.00	
18,600.0	90.00	179.91	9,400.0	-8,781.8	188.1	8,783.7	0.00	0.00	0.00	
18,700.0	90.00	179.91	9,400.0	-8,881.8	188.2	8,883.7	0.00	0.00	0.00	
18,800.0	90.00	179.91	9,400.0	-8,981.8	188.4	8,983.7	0.00	0.00	0.00	
18,900.0	90.00	179.91	9,400.0	-9,081.8	188.5	9,083.7	0.00	0.00	0.00	
19,000.0	90.00	179.91	9,400.0	-9,181.8	188.7	9,183.7	0.00	0.00	0.00	
19,100.0	90.00	179.91	9,400.0	-9,281.8	188.8	9,283.7	0.00	0.00	0.00	
19,200.0	90.00	179.91	9,400.0	-9,381.8	189.0	9,383.7	0.00	0.00	0.00	
19,300.0	90.00	179.91	9,400.0	-9,481.8	189.1	9,483.6	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _HONEY GRAHAM ST COM 704H - Slot HONEY GRAHAM ST COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3081.0usft (Original Well Elev)
Project:	ATLAS PROSPECT (DBW)	MD Reference:	WELL @ 3081.0usft (Original Well Elev)
Site:	HONEY GRAHAM STATE PROJECT	North Reference:	Grid
Well:	_HONEY GRAHAM ST COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
19,400.0	90.00	179.91	9,400.0	-9,581.8	189.3	9,583.6	0.00	0.00	0.00	
19,500.0	90.00	179.91	9,400.0	-9,681.8	189.4	9,683.6	0.00	0.00	0.00	
19,600.0	90.00	179.91	9,400.0	-9,781.8	189.6	9,783.6	0.00	0.00	0.00	
19,700.0	90.00	179.91	9,400.0	-9,881.8	189.7	9,883.6	0.00	0.00	0.00	
19,800.0	90.00	179.91	9,400.0	-9,981.8	189.9	9,983.6	0.00	0.00	0.00	
19,900.0	90.00	179.91	9,400.0	-10,081.8	190.0	10,083.6	0.00	0.00	0.00	
20,000.0	90.00	179.91	9,400.0	-10,181.8	190.2	10,183.6	0.00	0.00	0.00	
20,100.0	90.00	179.91	9,400.0	-10,281.8	190.3	10,283.6	0.00	0.00	0.00	
20,200.0	90.00	179.91	9,400.0	-10,381.8	190.5	10,383.5	0.00	0.00	0.00	
20,300.0	90.00	179.91	9,400.0	-10,481.8	190.6	10,483.5	0.00	0.00	0.00	
20,400.0	90.00	179.91	9,400.0	-10,581.8	190.8	10,583.5	0.00	0.00	0.00	
20,500.0	90.00	179.91	9,400.0	-10,681.8	190.9	10,683.5	0.00	0.00	0.00	
20,600.0	90.00	179.91	9,400.0	-10,781.8	191.1	10,783.5	0.00	0.00	0.00	
20,700.0	90.00	179.91	9,400.0	-10,881.8	191.2	10,883.5	0.00	0.00	0.00	
20,800.0	90.00	179.91	9,400.0	-10,981.8	191.4	10,983.5	0.00	0.00	0.00	
20,900.0	90.00	179.91	9,400.0	-11,081.8	191.5	11,083.5	0.00	0.00	0.00	
21,000.0	90.00	179.91	9,400.0	-11,181.8	191.7	11,183.5	0.00	0.00	0.00	
21,100.0	90.00	179.91	9,400.0	-11,281.8	191.8	11,283.4	0.00	0.00	0.00	
21,200.0	90.00	179.91	9,400.0	-11,381.8	192.0	11,383.4	0.00	0.00	0.00	
21,300.0	90.00	179.91	9,400.0	-11,481.8	192.2	11,483.4	0.00	0.00	0.00	
21,400.0	90.00	179.91	9,400.0	-11,581.8	192.3	11,583.4	0.00	0.00	0.00	
21,500.0	90.00	179.91	9,400.0	-11,681.8	192.5	11,683.4	0.00	0.00	0.00	
21,601.3	90.00	179.91	9,400.0	-11,783.2	192.6	11,784.7	0.00	0.00	0.00	

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- Shape										
POI 2 _HONEY GRAHAM	0.00	14.79	9,400.0	-4,922.3	182.1	370,802.04	570,570.78	32° 1' 9.280 N	104° 6' 20.284 W	
- plan misses target center by 27.8usft at 14743.0usft MD (9400.0 TVD, -4926.0 N, 209.7 E)										
- Rectangle (sides W100.0 H1,031.3 D20.0)										
PBHL _HONEY GRAHAM	0.00	359.91	9,400.0	-11,783.2	192.6	363,941.16	570,581.25	32° 0' 1.380 N	104° 6' 20.330 W	
- plan hits target center										
- Rectangle (sides W100.0 H6,860.9 D20.0)										
POI 1 _HONEY GRAHAM	0.00	359.93	9,400.0	-3,925.1	445.4	371,799.20	570,834.07	32° 1' 19.143 N	104° 6' 17.201 W	
- plan misses target center by 20.9usft at 13715.6usft MD (9400.0 TVD, -3922.4 N, 424.7 E)										
- Rectangle (sides W100.0 H4,448.1 D20.0)										
FTP _HONEY GRAHAM	0.00	0.00	9,400.0	523.0	440.2	376,247.34	570,828.89	32° 2' 3.165 N	104° 6' 17.152 W	
- plan misses target center by 202.8usft at 9366.1usft MD (9248.6 TVD, 388.0 N, 440.5 E)										
- Circle (radius 50.0)										
LTP _HONEY GRAHAM	90.00	0.09	9,400.0	-11,653.2	192.4	364,071.16	570,581.08	32° 0' 2.667 N	104° 6' 20.329 W	
- plan hits target center										
- Circle (radius 50.0)										

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _HONEY GRAHAM ST COM 704H - Slot HONEY GRAHAM ST COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3081.0usft (Original Well Elev)
Project:	ATLAS PROSPECT (DBW)	MD Reference:	WELL @ 3081.0usft (Original Well Elev)
Site:	HONEY GRAHAM STATE PROJECT	North Reference:	Grid
Well:	_HONEY GRAHAM ST COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

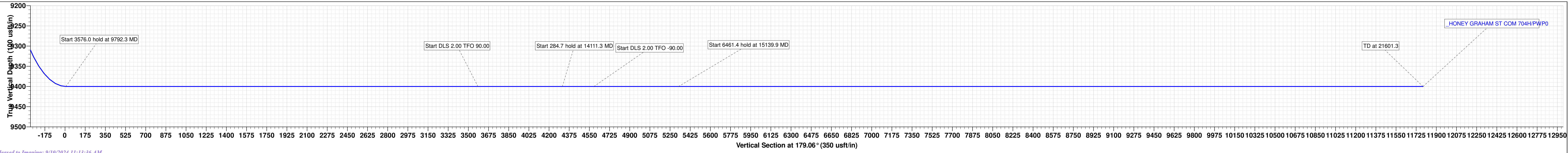
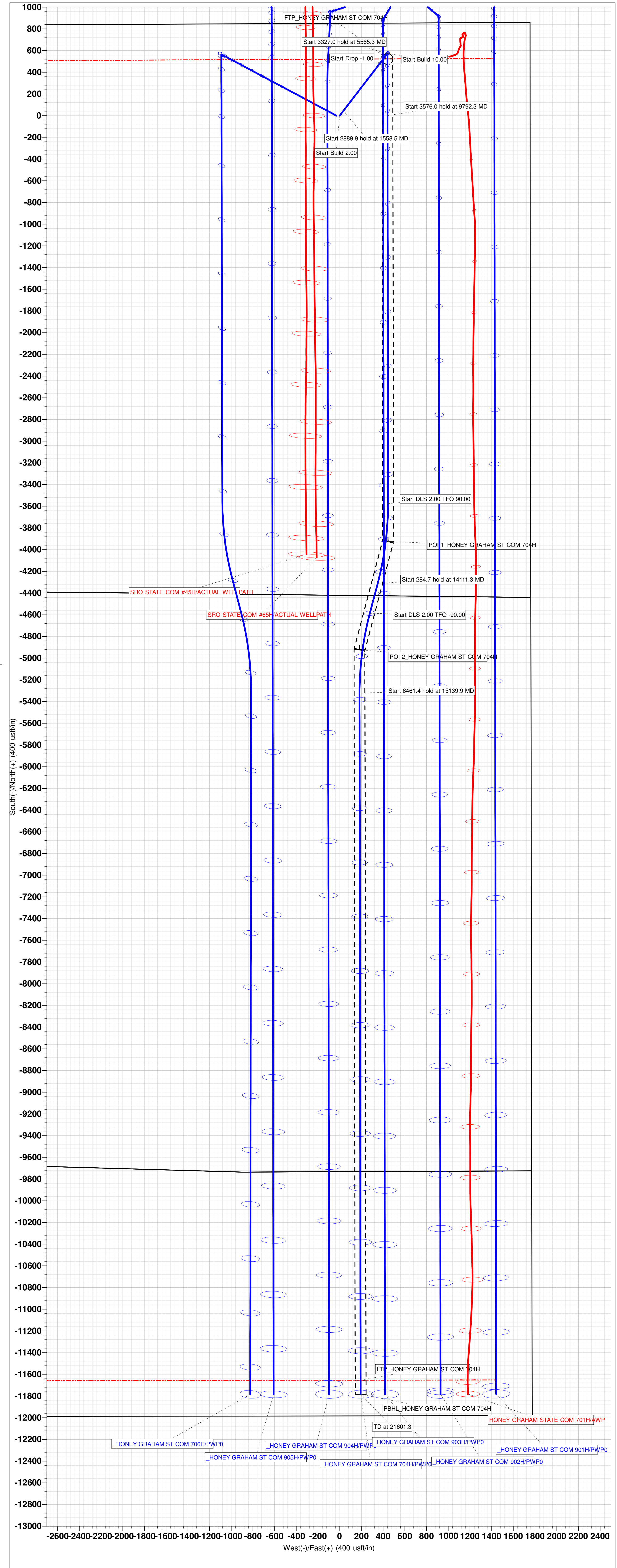
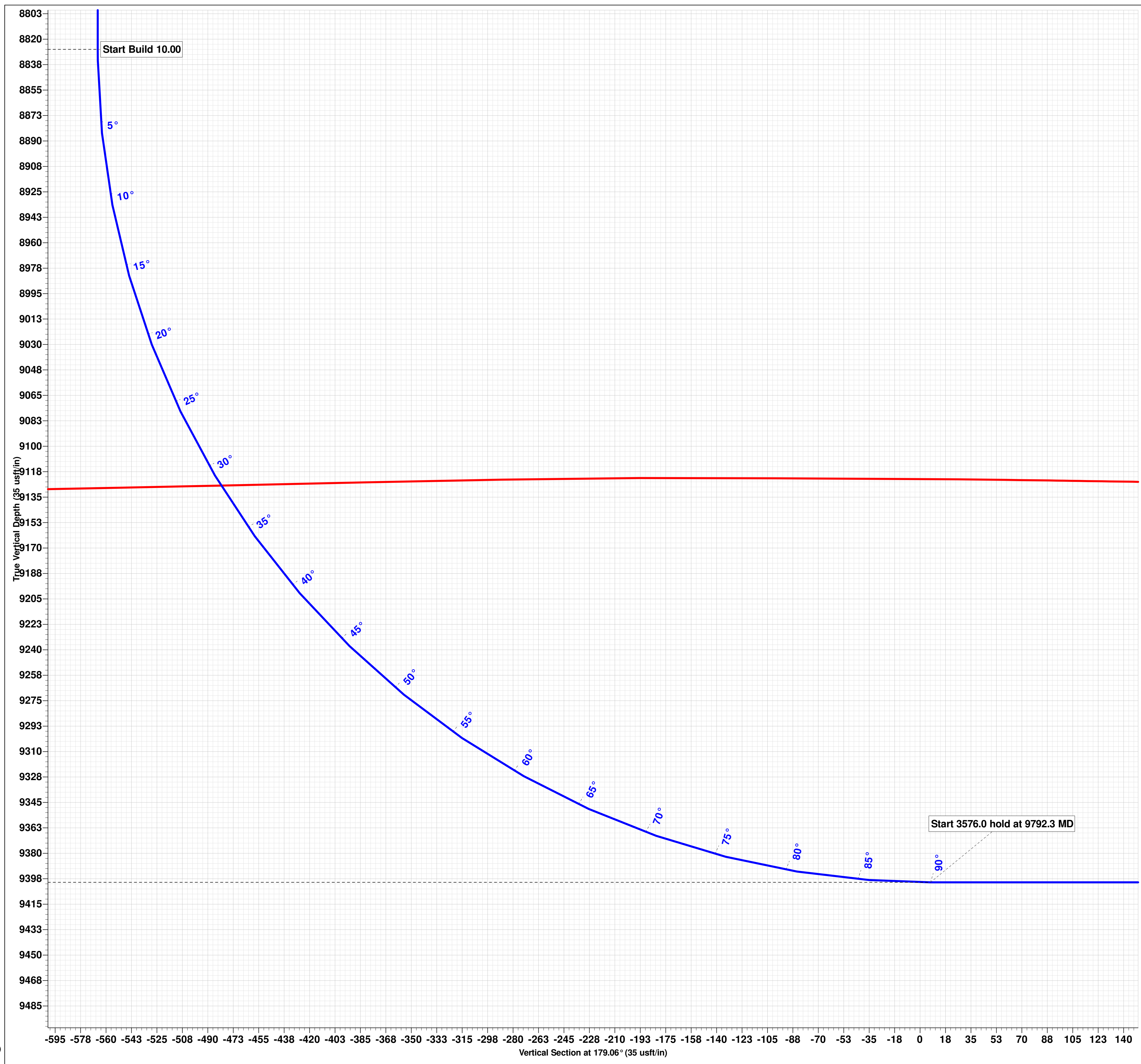
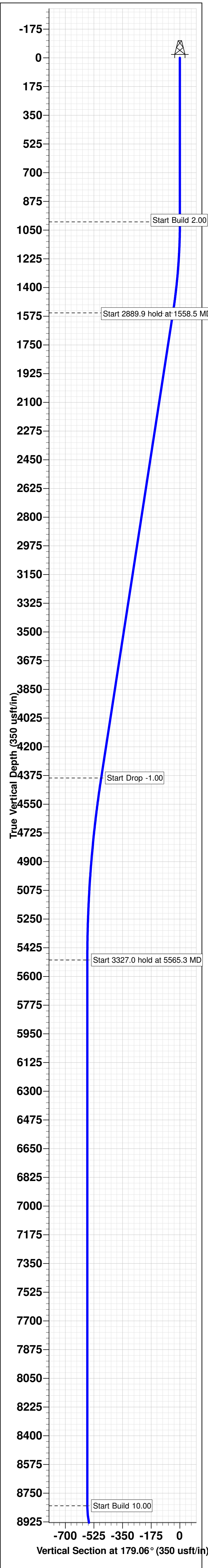
Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	21,601.7	9,400.0	5-1/2" Production Casing	5-1/2	6-3/4



Project: ATLAS PROSPECT (DBW)
Site: HONEY GRAHAM STATE PROJECT
Well: HONEY GRAHAM ST COM 704H
Wellbore: OWB
Design: PWPO

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0
1558.5	11.17	37.54	1554.9	43.0	33.1	2.00	37.54	-42.5
4448.4	11.17	37.54	4390.1	486.9	374.1	0.00	0.00	-480.8
5565.3	0.00	0.00	5500.0	573.0	440.2	1.00	180.00	-565.7
8892.3	0.00	0.00	8827.0	573.0	440.2	0.00	0.00	-565.7
9792.3	90.00	179.93	9400.0	0.0	440.9	10.00	179.93	7.2
13358.3	90.00	179.93	9400.0	-3576.0	445.3	0.00	0.00	3582.8
14111.3	90.00	194.79	9400.0	-4310.8	350.4	2.00	90.00	4315.9
14396.1	90.00	194.79	9400.0	-4586.1	277.7	0.00	0.00	4590.0
15139.9	90.00	179.91	9400.0	-5321.7	182.8	2.00	-90.00	5324.0
21601.3	90.00	179.91	9400.0	-11783.2	192.6	0.00	0.00	11784.7



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

WELL LOCATION INFORMATION

API Number 30-015-	Pool Code 98220	Pool Name Purple Sage; Wolfcamp, Gas
Property Code	Property Name HONEY GRAHAM STATE COM	Well Number 704H
OGRID No. 217817	Operator Name COG Operating LLC	Ground Level Elevation 3,086.28'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL B	Section 20	Township 26S	Range 28E	Lot	Ft. from N/S 850' FNL	Ft. from E/W 1,755' FEL	Latitude 32.032902	Longitude -104.106679	County EDDY
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Bottom Hole Location

UL LOT 3	Section 32	Township 26S	Range 28E	Lot	Ft. from N/S 200' FSL	Ft. from E/W 1,580' FEL	Latitude 32.000521	Longitude -104.106128	County EDDY
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Dedicated Acres 1535.07	Infill or Defining Well Infill Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL B	Section 20	Township 26S	Range 28E	Lot	Ft. from N/S 850' FNL	Ft. from E/W 1,755' FEL	Latitude 32.032902	Longitude -104.106679	County EDDY
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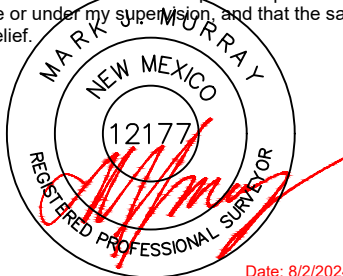
First Take Point (FTP)

UL A	Section 20	Township 26S	Range 28E	Lot	Ft. from N/S 330' FNL	Ft. from E/W 1,315' FEL	Latitude 32.034334	Longitude -104.105256	County EDDY
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Last Take Point (LTP)

UL LOT 3	Section 32	Township 26S	Range 28E	Lot	Ft. from N/S 330' FSL	Ft. from E/W 1,580' FEL	Latitude 32.000879	Longitude -104.106129	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:
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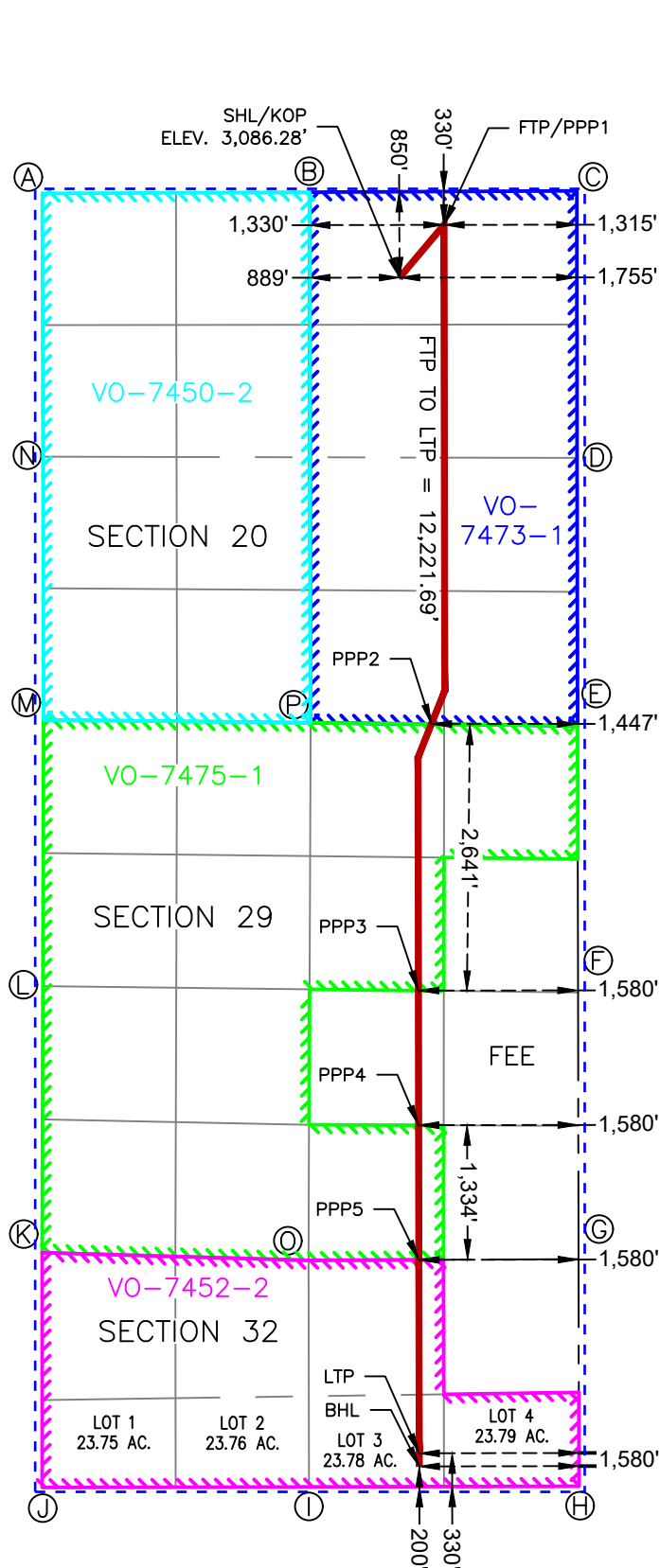
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.		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.  Date: 8/2/2024	
Signature Mayte Reyes		Signature and Seal of Professional Surveyor	
Date 8/24/2024			
Printed Name Mayte Reyes		Certificate Number 12177	Date of Survey 8/2/2024
Email Address mayte.x.reyes@conocophillips.com			

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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



SURFACE HOLE LOCATION
& KICK-OFF POINT
850' FNL & 1,755' FEL
ELEV. = 3,086.28'

NAD 83 X = 611,572.73'
NAD 83 Y = 375,781.77'
NAD 83 LAT = 32.032902°
NAD 83 LONG = -104.106679°

FIRST TAKE POINT &
PENETRATION POINT 1
330' FNL & 1,315' FEL
NAD 83 X = 612,012.32'
NAD 83 Y = 376,303.85'
NAD 83 LAT = 32.034334°
NAD 83 LONG = -104.105256°

PENETRATION POINT 2
0' FSL & 1,447' FEL
NAD 83 X = 611,887.48'
NAD 83 Y = 371,357.67'
NAD 83 LAT = 32.020738°
NAD 83 LONG = -104.105693°

PENETRATION POINT 3
2,641' FNL & 1,580' FEL
NAD 83 X = 611,759.22'
NAD 83 Y = 368,717.44'
NAD 83 LAT = 32.013481°
NAD 83 LONG = -104.106125°

PENETRATION POINT 4
1,334' FSL & 1,580' FEL
NAD 83 X = 611,761.37'
NAD 83 Y = 367,383.59'
NAD 83 LAT = 32.009814°
NAD 83 LONG = -104.106127°

PENETRATION POINT 5
0' FSL & 1,580' FEL
NAD 83 X = 611,763.51'
NAD 83 Y = 366,049.71'
NAD 83 LAT = 32.006147°
NAD 83 LONG = -104.106129°

LAST TAKE POINT
330' FSL & 1,580' FEL
NAD 83 X = 611,767.69'
NAD 83 Y = 364,133.21°
NAD 83 LAT = 32.000879°
NAD 83 LONG = -104.106129°

BOTTOM HOLE LOCATION
200' FSL & 1,580' FEL
NAD 83 X = 611,767.97'
NAD 83 Y = 364,003.21°
NAD 83 LAT = 32.000521°
NAD 83 LONG = -104.106128°

CORNER COORDINATES NEW MEXICO EAST - NAD 83	
A - CALCULATED CORNER	N:376,615.08' E:608,036.32'
B - CALCULATED CORNER	N:376,627.57' E:610,681.69'
C - IRON PIPE W/ BRASS CAP	N:376,640.07' E:613,327.06'
D - IRON PIPE W/ BRASS CAP	N:373,994.44' E:613,329.11'
E - IRON PIPE W/ BRASS CAP	N:371,341.77' E:613,334.88'
F - CALCULATED CORNER	N:368,698.04' E:613,338.84'
G - IRON PIPE W/ BRASS CAP	N:366,056.40' E:613,343.50'
H - CALCULATED CORNER	N:363,806.93' E:613,348.41'
I - CALCULATED CORNER	N:363,800.64' E:610,675.90'
J - CALCULATED CORNER	N:363,794.43' E:608,035.07'
K - IRON PIPE W/ BRASS CAP	N:366,121.40' E:608,035.07'
L - IRON PIPE W/ BRASS CAP	N:368,761.08' E:608,041.84'
M - IRON PIPE W/ BRASS CAP	N:371,399.51' E:608,049.07'
N - CALCULATED CORNER	N:374,007.30' E:608,042.69'
O - IRON PIPE W/ BRASS CAP	N:366,045.09' E:610,671.17'
P - IRON PIPE W/ BRASS CAP	N:371,370.80' E:610,691.76'

Honey Graham State Com 704H

Casing and Cement

<u>String</u>	<u>Hole Size</u>	<u>Csq OD</u>	<u>PPF</u>	<u>Depth</u>	<u>Sx Cement</u>	<u>TOC</u>
Surface	14-3/4"	10-3/4"	45.5#	400'	450	0'
Intermediate	9-7/8"	7-5/8"	29.7#	7200'	920	0'
	8-3/4"	7-5/8"	29.7#	7200'-8790'		
Production	6-3/4"	5-1/2"	23#	21600'	1520	0'

Well Plan

Drill 14-3/4" hole to ~400' w/ fresh water spud mud. Run 10-3/4" 45.5# J55 BTC casing to TD and cement to surface in one stage.

Drill 9-7/8" hole to ~7,200' with cut brine before transitioning to 8-3/4" hole size to ~8790'. Run 7-5/8 29.7# L80-ICY BTC & P110-ICY W513 to TD and cement to surface in one stage.

Drill 6-3/4" vertical, curve and lateral to ~21,600' with OBM. Run 5.5" 23# P110-CY BTC casing from TD to surface and cement to surface in one stage.

Well Control

After setting 10-3/4" casing and installing 5000 psi casing head, NU 13-5/8" Cameron BOP. Test casing to 1500 psi, annular to 2500psi and other BOP equipment to 5000 psi.

<u>Type</u>	<u>Working Pressure</u>	<u>Test Pressure</u>	<u>Manufacture</u>
Double Ram	5000 psi	5000 psi	Cameron

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil 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:** COG Operating LLC **OGRID:** 229137 **Date:** 8 / 24 / 24**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
Honey Graham State Com 704H	30-015-	B-20-26S-28E	850' FNL & 1755' FEL	± 865	± 3836	± 3564

IV. Central Delivery Point Name: _____ [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
Honey Graham State Com 704H	Pending	3/24/2025	± 25 days from spud	7/20/2025	7/30/2025	8/4/2025

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.

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

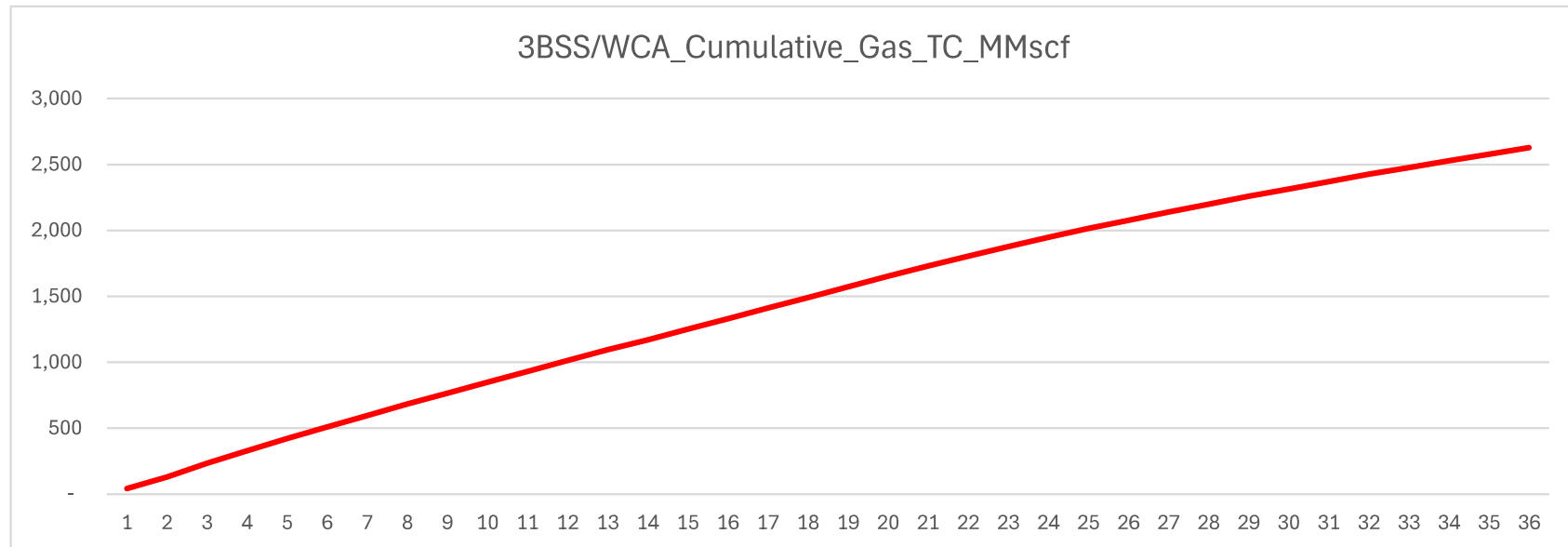
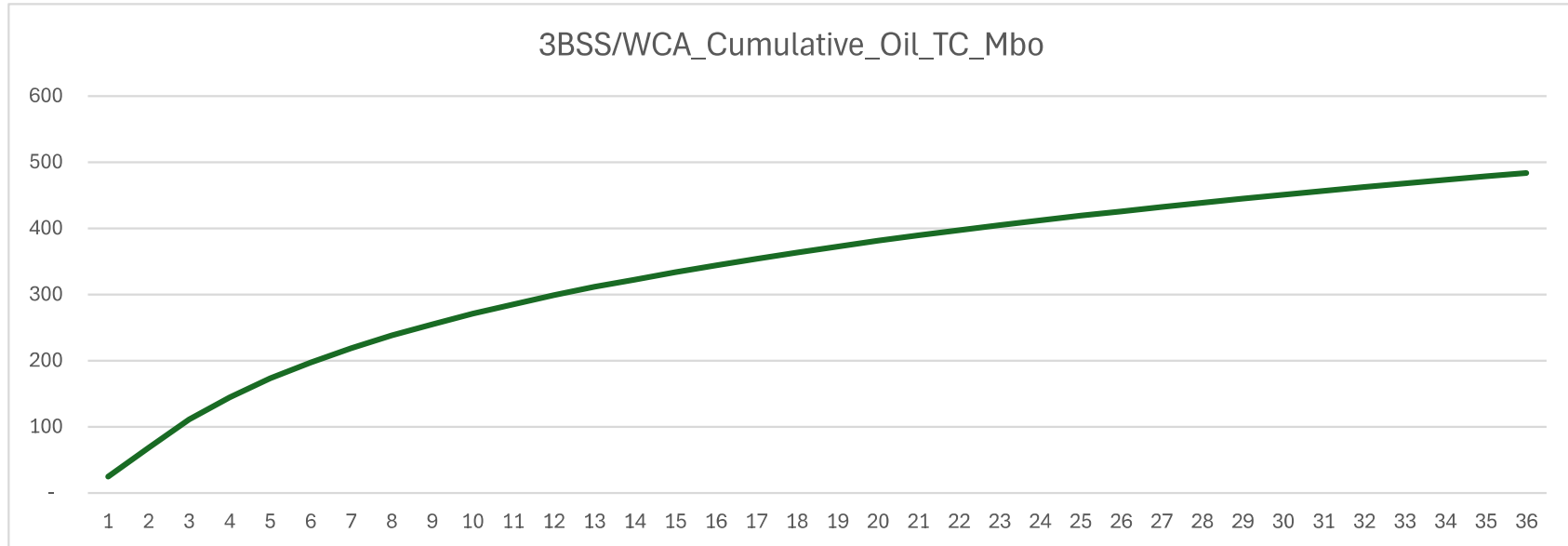
VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

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

Signature:	<i>Mayte Reyes</i>
Printed Name:	Mayte Reyes
Title:	Sr. Regulatory Coordinator
E-mail Address:	mayte.x.reyes@conocophillips.com
Date:	8/24/2024
Phone:	575-748-6945
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Anticipated Production Decline Curve



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451