Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-59189

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

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

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

Title

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

Title	Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 11/10/2026

Additional Operator Remarks

Location of Well

0. SHL: NWSE / 2382 FSL / 1338 FEL / TWSP: 24S / RANGE: 26E / SECTION: 4 / LAT: 32.246042 / LONG: -104.293936 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 1 / 660 FNL / 100 FEL / TWSP: 24S / RANGE: 26E / SECTION: 4 / LAT: 32.251641 / LONG: -104.289897 (TVD: 6585 feet, MD: 7182 feet)

PPP: NENW / 660 FNL / 2658 FWL / TWSP: 24S / RANGE: 26E / SECTION: 4 / LAT: 32.251622 / LONG: -104.298187 (TVD: 6725 feet, MD: 9722 feet)

PPP: NWNE / 660 FNL / 1328 FEL / TWSP: 24S / RANGE: 26E / SECTION: 5 / LAT: 32.251563 / LONG: -104.311082 (TVD: 6725 feet, MD: 13682 feet)

PPP: NENE / 660 FNL / 0 FEL / TWSP: 24S / RANGE: 26E / SECTION: 5 / LAT: 32.251576 / LONG: -104.306786 (TVD: 6725 feet, MD: 12362 feet)

BHL: LOT 4 / 660 FNL / 50 FWL / TWSP: 24S / RANGE: 26E / SECTION: 6 / LAT: 32.251414 / LONG: -104.340701 (TVD: 6725 feet, MD: 22785 feet)

BLM Point of Contact

Name: JANET D ESTES
Title: ADJUDICATOR
Phone: (575) 234-6233
Email: JESTES@BLM.GOV

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015- 59189	98056	WC-015 G-04 S232628M; Bone Spring
Property Code	**Property Name**	**Well Number**
339691	**SQUINTS 24 26 FED COM**	**501H**
OGRID No.	**Operator Name**	**Ground Level Elevation**
372098	**MARATHON OIL PERMIAN LLC**	**3,388'**

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

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
J	**4**	**24S**	**26E**		**2,382' FSL**	**1,338' FEL**	**32.246042°**	**-104.293936°**	**EDDY**

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	6	**24S**	**26E**	**LOT 4**	**660' FNL**	**50' FWL**	**32.251414°**	**-104.340701°**	**EDDY**

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1908.32	Defining	Pending 501H	No	Com

Order Numbers. NA | Well setbacks are under Common Ownership: ☐Yes ☐No NA

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
J	**4**	**24S**	**26E**		**2,382' FSL**	**1,338' FEL**	**32.246042°**	**-104.293936°**	**EDDY**

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	4	**24S**	**26E**	**LOT 1**	**660' FNL**	**100' FEL**	**32.251641°**	**-104.289897°**	**EDDY**

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	6	**24S**	**26E**	**LOT 4**	**660' FNL**	**100' FWL**	**32.251414°**	**-104.340539°**	**EDDY**

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
NA		**3,388'**

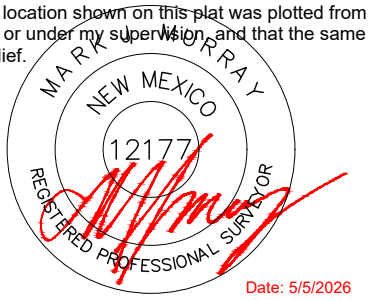
OPERATOR CERTIFICATIONS

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: 5/5/2026

Signature	Date	Signature and Seal of Professional Surveyor
Stan Wagner	5/6/26	

Printed Name	Certificate Number	Date of Survey	Revision Number
Stan Wagner	12177	5/5/2026	1

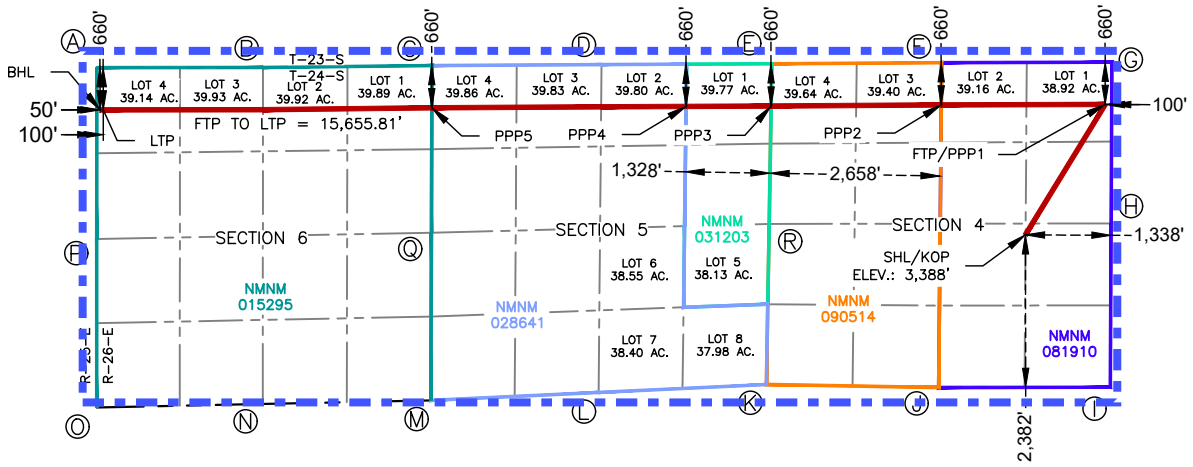
Email Address

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.



SQUINTS 24 26 FED COM 501H

CORNER COORDINATES NEW MEXICO EAST - NAD 83	
POINT	NORTHING/EASTING
A	N:455,857.84' E:539,010.48'
B	N:455,860.49' E:541,604.64'
C	N:455,890.88' E:544,245.54'
D	N:455,907.33' E:546,894.30'
E	N:455,917.68' E:549,555.40'
F	N:455,935.28' E:552,208.71'
G	N:455,943.49' E:554,868.49'
H	N:453,424.40' E:554,856.27'
I	N:450,865.90' E:554,843.80'
J	N:450,860.86' E:552,162.29'
K	N:450,908.96' E:549,470.64'
L	N:450,784.48' E:546,848.96'
M	N:450,660.57' E:544,226.35'
N	N:450,604.83' E:541,601.58'
O	N:450,549.17' E:539,007.12'
P	N:453,182.74' E:539,007.68'
Q	N:453,278.09' E:544,236.66'
R	N:453,417.27' E:549,513.58'

SURFACE HOLE LOCATION & KICK-OFF POINT
2,382' FSL & 1,338' FEL
ELEV. = 3,388'
NAD 83 X = 553,517.63'
NAD 83 Y = 453,245.76'
NAD 83 LAT = 32.246042°
NAD 83 LONG = -104.293936°

FIRST TAKE POINT & PENETRATION POINT 1
660' FNL & 100' FEL
NAD 83 X = 554,765.29'
NAD 83 Y = 455,283.17'
NAD 83 LAT = 32.251641°
NAD 83 LONG = -104.289897°

PENETRATION POINT 2
660' FNL & 2,658' FWL
NAD 83 X = 552,202.67'
NAD 83 Y = 455,275.31'
NAD 83 LAT = 32.251622°
NAD 83 LONG = -104.298187°

PENETRATION POINT 3
660' FNL & 0' FEL
NAD 83 X = 549,544.36'
NAD 83 Y = 455,257.77'
NAD 83 LAT = 32.251576°
NAD 83 LONG = -104.306786°

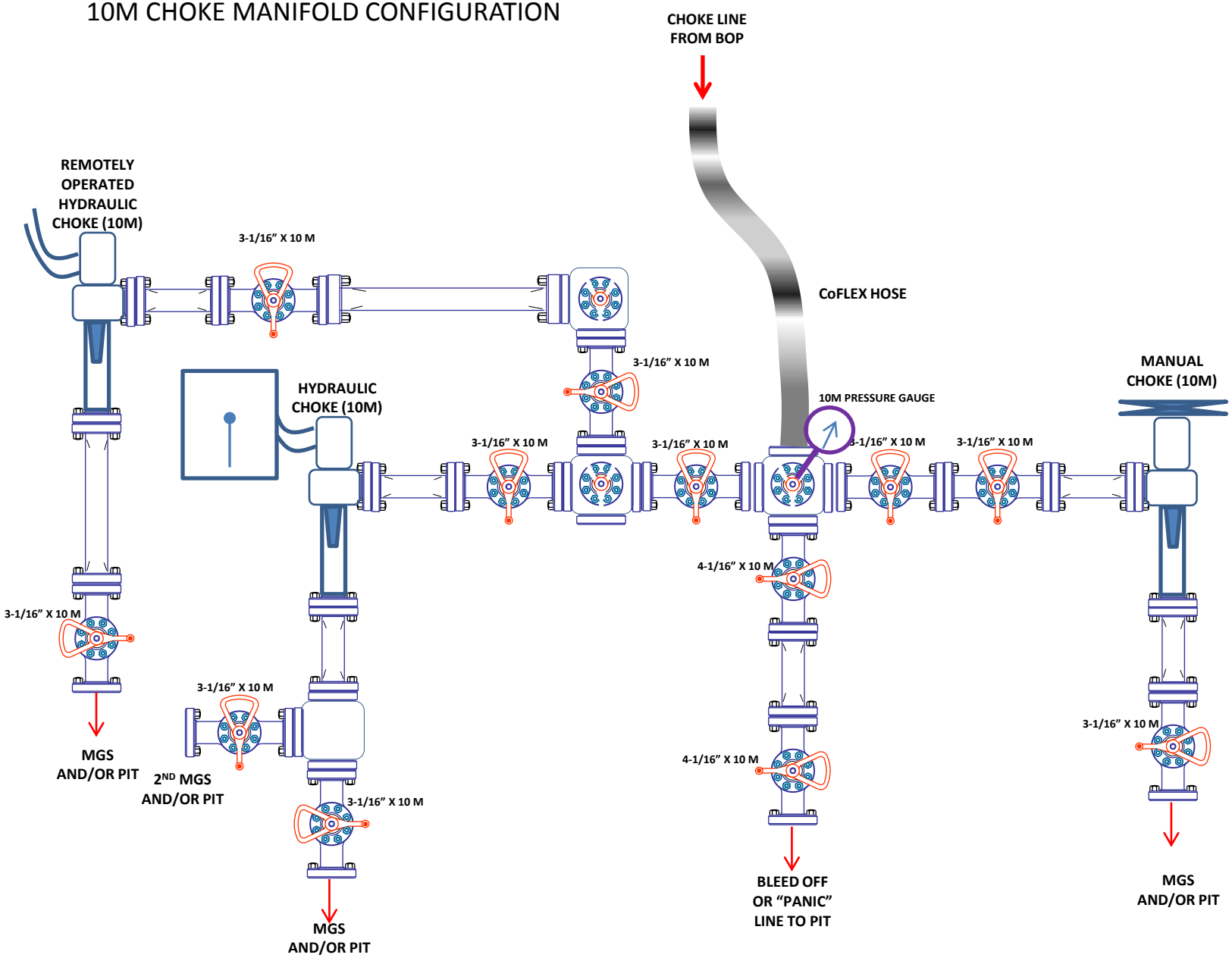
PENETRATION POINT 4
660' FNL & 1,328' FEL
NAD 83 X = 548,216.38'
NAD 83 Y = 455,252.56'
NAD 83 LAT = 32.251563°
NAD 83 LONG = -104.311082°

PENETRATION POINT 5
660' FNL & 0' FEL
NAD 83 X = 544,243.29'
NAD 83 Y = 455,230.88'
NAD 83 LAT = 32.251505°
NAD 83 LONG = -104.323934°

LAST TAKE POINT
660' FNL & 100' FWL
NAD 83 X = 539,109.79'
NAD 83 Y = 455,197.94'
NAD 83 LAT = 32.251414°
NAD 83 LONG = -104.340539°

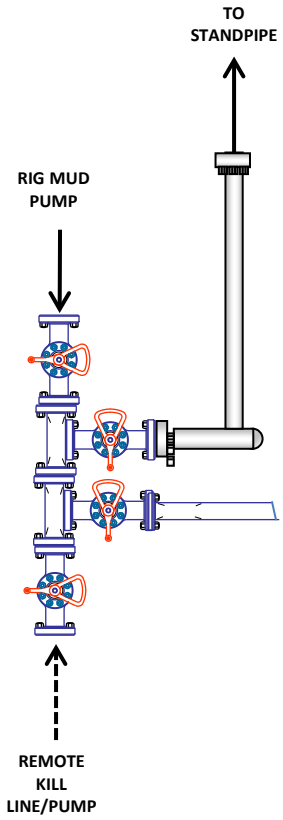
BOTTOM HOLE LOCATION
660' FNL & 50' FWL
NAD 83 X = 539,059.79'
NAD 83 Y = 455,197.89'
NAD 83 LAT = 32.251414°
NAD 83 LONG = -104.340701°

10M CHOKE MANIFOLD CONFIGURATION

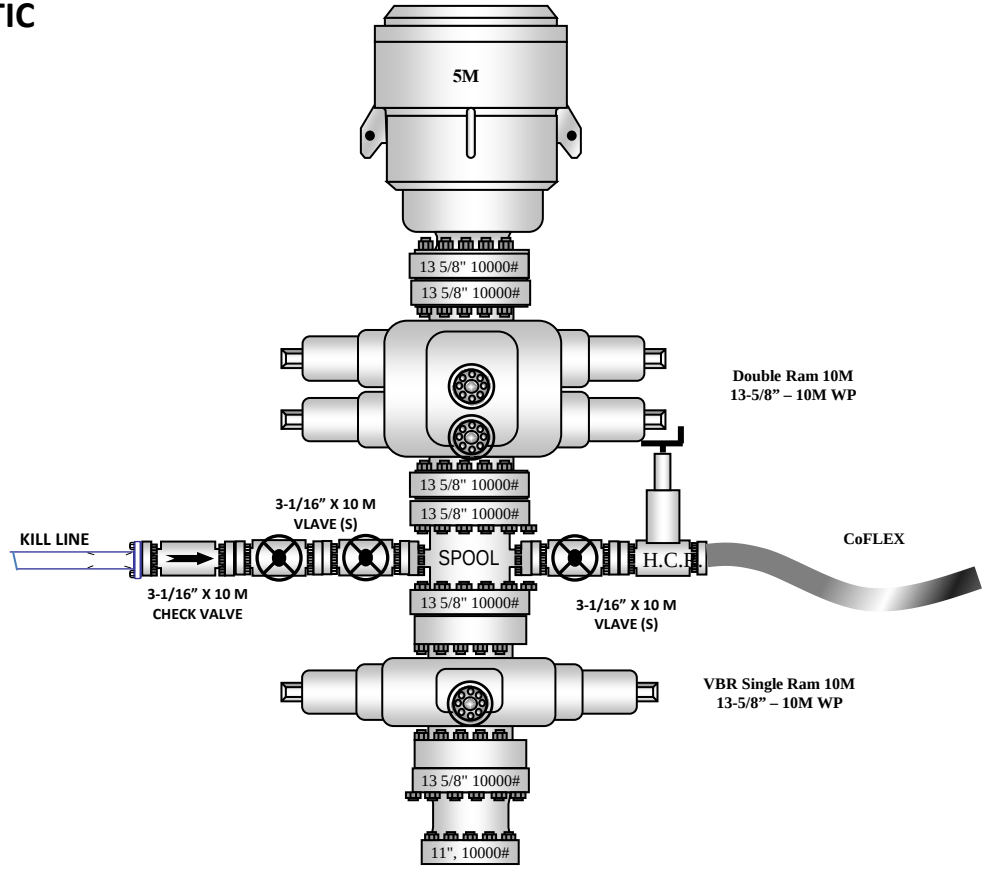


10M BOP Stack

10M REMOTE KILL SCHEMATIC



10M BOP Stack
(5M Annular)



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1. Geologic Formations

TVD of target	6,725' EOL	Pilot hole depth	N/A
MD at TD:	22,785'	Deepest expected fresh water:	200'

Formation	Depth (KB TVD)	Water/Mineral Bearing/ Target Zone?	Hazards*
Quarternary Fill	Surface	Water	
Rustler		Water	
Top of Salt	700	Salt	
Base of Salt	1330	Salt	
Lamar	1658	Salt Water	
Bell Canyon	1910	Salt Water	
Cherry Canyon	2679	Oil/Gas	
Brushy Canyon	3716	Oil/Gas	
Bone Spring	5351	Oil/Gas	
1st Bone Spring Sand	6278	Oil/Gas	
2nd Bone Spring Sand	6634	Target Oil/Gas	
3rd Bone Spring Carb	8288	Not Penetrated	
		Not Penetrated	
		Not Penetrated	
		Not Penetrated	

2a. Casing Program: Big Hole & WBM

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50''	0	550'	13.375''	54.5	J55	BTC	4.49	8.13	28.46	30.33
12.250''	0	1,608	9.625''	40	L80-IC	BTC	3.46	34.81	14.24	14.72
7.88''	0	6,710	5.500''	20	P110-ICY	TXP-BTC	8.25	5.08	5.43	5.43
7.875''	6,710	22,785	5.500''	20	P110-ICY	TXP-BTC	8.25	5.08	5.43	5.43
					COP Minimum Safety Factor		1.05	1.15	1.4	1.4

- Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse.
- Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.
- All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
- New casing meeting API standards will be utilized.

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2b. Contingency Casing Program: Slim Hole & OBM

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75''	0	550	10.750''	45.5	J55	BTC	8.30	10.66	28.57	31.81
9.875''	0	8,200	8.625''	32	P110-ICY	W441	3.10	2.54	4.36	2.50
9.88''	8,200	6,710	8.625''	32	P110-ICY	W441	3.18	2.53	5.33	3.06
7.88''	0	6,510	5.500''	20	P110-ICY	TXP-BTC	9.81	4.08	5.60	5.60
7.88''	6,510	22,785	5.500''	20	P110-ICY	W441	7.72	4.08	1.60	1.30
			COP Minimum Safety Factor				1.05	1.15	1.4	1.4

- Contingency casing design will be used where water based mud is not deemed applicable.
- If drilling conditions dictate, 9.875" open hole may be taken to section TD.
- Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse.
- Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.
- All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
- New casing meeting API standards will be utilized.
- The 5-1/2" W441 casing will be run back 200' into intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3a. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_2O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surface	0	13.5	1.75	9	12	Lead: Class C
	160	14.8	1.34	6.34	8	Tail: Class C
Intermediate	310	12.8	1.8	9.21	12	Lead: Class C
	120	14.8	1.34	6.52	8	Tail: Class C
Production	500	11	2.63	16.17	72	Lead: Class C
	1930	13.2	1.45	7.46	19	Tail: Class H

- Surface and intermediate cement jobs to be performed offline.
- Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results
- Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0’	50% in OH
1st Intermediate	0’	50% in OH
Production	1,108'	20% OH in Lateral

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3b. Cementing Program for OBM Design

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surface	220	13.5	1.75	9	12	Lead: Class C
	160	14.8	1.34	6.34	8	Tail: Class C
Intermediate Stage 1	610	12.8	1.75	9.21	12	Lead: Class C
	150	14.8	1.35	6.6	8	Tail: Class C
Intermediate Stage 2	90	10.5	3.3	22	24	Lead: Class C
	100	14.8	1.35	6.6	8	Tail: Class H
Production	690	12.7	1.68	9.09	72	Lead: Class C
	2870	14.5	1.18	5.26	19	Tail: Class H

- Surface and intermediate cement jobs to be performed offline.
- Cement design to be run in the event the deep set intermediate design is used.
- If losses are encountered, a DV tool will be run ~50' into the Lamar to ensure cement to surface.
- Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results.
- Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0’	50%
1st Stage Int	0’	50%
2nd Stage Int (if necessary)	0'	50%
Production	6,210'	20% OH in Lateral

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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4" or 9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
8-3/4" (int)	13-5/8"	5M	5M Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
8-3/4" (prod) or 6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000 psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

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Y	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR Part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

5a. Mud Program

Depth		Type	Weight (ppg)	Visc.	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf. Shoe	9-5/8" Int 1 shoe	Saturated Brine	9 - 10	28-34	N/C
9-5/8" Int 1 shoe	Lateral TD	WBM	8.6 - 10	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

5b. Mud Program

Depth		Type	Weight (ppg)	Visc.	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf. Shoe	7 5/8" Int 1 shoe	Brine Diesel Emulsion	9 - 10	28-34	N/C
7 5/8" Int 1 shoe	Lateral TD	OBM	9.6 - 12	35-45	<20

Mud program to be used in the event 4-string design is run. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
N	CBL	Production casing
Y	Mud log	Intermediate shoe to TD
N	PEX	

7a. Drilling Conditions (WBM)

Condition	Specify what type and where?
BH Pressure at deepest TVD	3500 psi at 6725' TVD
Abnormal Temperature	NO 130 Deg. F.

7a. Drilling Conditions (OBM)

Condition	Specify what type and where?
BH Pressure at deepest TVD	4200 psi at 6725' TVD
Abnormal Temperature	NO 130 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
N	Is casing pre-set?

X	H2S Plan.
X	BOP & Choke Schematics.
X	Directional Plan

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 (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S 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 H_2S 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. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S 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 H_2S 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

	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

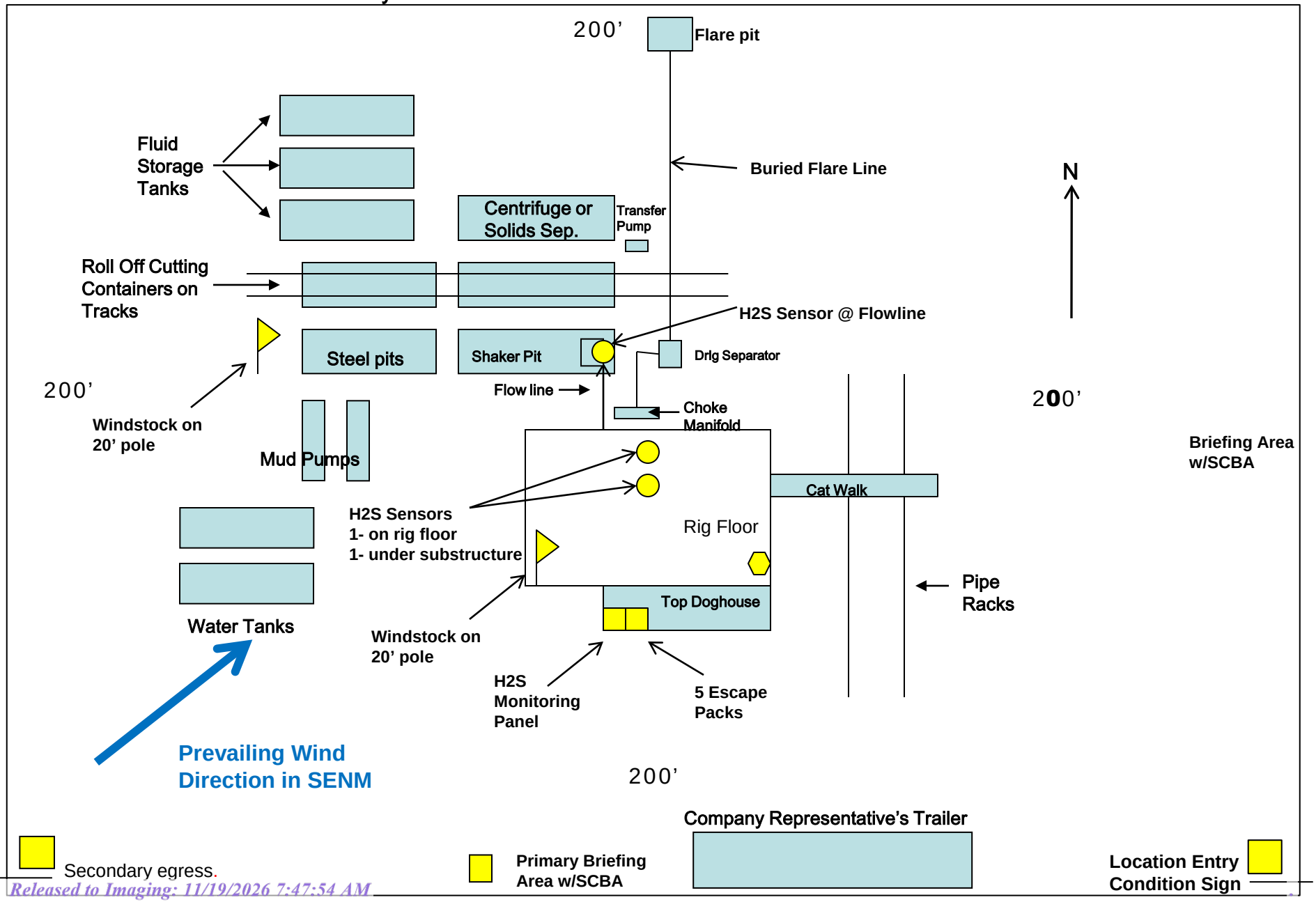
EMERGENCY RESPONSE NUMBERS

	OFFICE
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

Received by OCD: 11/13/2026 9:53:36 AM

COG Operating LLC
H_2S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400' with cellar in center of pad



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DELAWARE BASIN WEST

EDDY COUNTY _DBW_NM_E
BENNY AND THE JETS & SQUINTS
_SQUINTS FED COM 501H - Slot SQUINTS SLOT 1

OWB

Plan: PWP0

Standard Planning Report

20 May, 2026

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Company:	DELAWARE BASIN WEST	**TVD Reference:**	GL @ 3390.00usft
Project:	EDDY COUNTY _DBW_NM_E	**MD Reference:**	GL @ 3390.00usft
Site:	BENNY AND THE JETS & SQUINTS	**North Reference:**	Grid
Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project EDDY COUNTY _DBW_NM_E

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		

Site BENNY AND THE JETS & SQUINTS

Site Position:		**Northing:**	448,175.93 usft	**Latitude:**	32° 13' 55.739 N
From:	Map	**Easting:**	508,300.71 usft	**Longitude:**	104° 18' 23.359 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1

Well Position	**+N/-S**	0.00 usft	**Northing:**	453,188.02 usft	**Latitude:**	32° 14' 45.328 N
	+E/-W	0.00 usft	**Easting:**	512,335.47 usft	**Longitude:**	104° 17' 36.362 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,390.00 usft
Grid Convergence:		0.02 °				

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2025	3/26/2026	6.76	59.75	46,991.63682583

Design PWP0

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	277.69

Plan Survey Tool Program **Date** 5/20/2026

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,785.34	PWP0 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Company:	DELAWARE BASIN WEST	**TVD Reference:**	GL @ 3390.00usft
Project:	EDDY COUNTY _DBW_NM_E	**MD Reference:**	GL @ 3390.00usft
Site:	BENNY AND THE JETS & SQUINTS	**North Reference:**	Grid
Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,478.72	29.36	31.48	1,436.44	209.22	128.13	3.00	3.00	0.00	31.48	
4,850.00	29.36	31.48	4,374.66	1,618.88	991.42	0.00	0.00	0.00	0.00	
6,807.44	0.00	0.00	6,247.54	2,037.32	1,247.68	1.50	-1.50	0.00	180.00	
7,557.44	90.00	269.82	6,725.00	2,035.86	770.22	12.00	12.00	-12.02	269.82	
9,633.33	90.00	269.82	6,725.00	2,029.50	-1,305.66	0.00	0.00	0.00	0.00	
9,643.47	90.00	269.62	6,725.00	2,029.45	-1,315.81	2.00	0.00	-2.00	-90.04	
12,301.05	90.00	269.62	6,725.00	2,011.90	-3,973.32	0.00	0.00	0.00	0.00	
12,305.55	90.00	269.71	6,725.00	2,011.87	-3,977.82	2.00	0.00	2.00	90.00	
17,602.16	90.00	269.71	6,725.00	1,985.22	-9,274.37	0.00	0.00	0.00	0.00	
17,620.71	90.00	269.34	6,725.00	1,985.07	-9,292.92	2.00	0.00	-2.00	-90.00	
20,235.19	90.00	269.34	6,725.00	1,954.98	-11,907.22	0.00	0.00	0.00	0.00	
20,265.46	90.00	269.95	6,725.00	1,954.79	-11,937.49	2.00	0.00	2.00	90.00	
22,785.34	90.00	269.95	6,725.00	1,952.42	-14,457.37	0.00	0.00	0.00	0.00	

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
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,478.72	29.36	31.48	1,436.44	209.22	128.13	-98.98	3.00	3.00	0.00
4,850.00	29.36	31.48	4,374.66	1,618.88	991.42	-765.85	0.00	0.00	0.00
6,807.44	0.00	0.00	6,247.54	2,037.32	1,247.68	-963.80	1.50	-1.50	0.00
7,557.44	90.00	269.82	6,725.00	2,035.86	770.22	-490.82	12.00	12.00	0.00
9,633.33	90.00	269.82	6,725.00	2,029.50	-1,305.66	1,565.53	0.00	0.00	0.00
9,643.47	90.00	269.62	6,725.00	2,029.45	-1,315.81	1,575.57	2.00	0.00	-2.00
12,301.05	90.00	269.62	6,725.00	2,011.90	-3,973.32	4,206.83	0.00	0.00	0.00
12,305.55	90.00	269.71	6,725.00	2,011.87	-3,977.82	4,211.29	2.00	0.00	2.00
17,602.16	90.00	269.71	6,725.00	1,985.22	-9,274.37	9,456.62	0.00	0.00	0.00
17,620.71	90.00	269.34	6,725.00	1,985.07	-9,292.92	9,474.99	2.00	0.00	-2.00
20,235.19	90.00	269.34	6,725.00	1,954.98	-11,907.22	12,061.74	0.00	0.00	0.00
20,265.46	90.00	269.95	6,725.00	1,954.79	-11,937.49	12,091.72	2.00	0.00	2.00
22,785.34	90.00	269.95	6,725.00	1,952.42	-14,457.37	14,588.61	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Company:	DELAWARE BASIN WEST	**TVD Reference:**	GL @ 3390.00usft
Project:	EDDY COUNTY _DBW_NM_E	**MD Reference:**	GL @ 3390.00usft
Site:	BENNY AND THE JETS & SQUINTS	**North Reference:**	Grid
Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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
POI1_SQUINTS FED C(	0.00	89.82	6,725.00	2,029.50	-1,305.66	455,217.52	511,029.81	32° 15' 5.418 N	104° 17' 51.558 W
- plan hits target center - Rectangle (sides W100.00 H2,553.00 D20.00)									
FTP_SQUINTS FED CC	0.00	0.00	6,725.00	2,037.32	1,247.68	455,225.34	513,583.15	32° 15' 5.486 N	104° 17' 21.824 W
- plan misses target center by 197.77usft at 7182.44usft MD (6585.16 TVD, 2036.89 N, 1107.84 E) - Circle (radius 50.00)									
POI3_SQUINTS FED C(	0.00	89.71	6,725.00	1,985.22	-9,274.37	455,173.24	503,061.10	32° 15' 4.996 N	104° 19' 24.354 W
- plan hits target center - Rectangle (sides W100.00 H5,301.00 D20.00)									
LTP_SQUINTS FED CO	90.00	270.06	6,725.00	-428.58	-14,178.92	452,759.44	498,156.55	32° 14' 41.109 N	104° 20' 21.465 W
- plan misses target center by 2381.26usft at 22509.13usft MD (6725.00 TVD, 1952.68 N, -14181.16 E) - Circle (radius 50.00)									
POI4_SQUINTS FED C(	0.00	89.34	6,725.00	1,954.98	-11,907.22	455,143.00	500,428.25	32° 15' 4.698 N	104° 19' 55.013 W
- plan hits target center - Rectangle (sides W100.00 H2,633.00 D20.00)									
PBHL_SQUINTS FED C	0.00	89.94	6,725.00	1,952.42	-14,457.37	455,140.44	497,878.10	32° 15' 4.672 N	104° 20' 24.709 W
- plan hits target center - Rectangle (sides W100.00 H2,550.00 D20.00)									
POI2_SQUINTS FED C(	0.00	89.62	6,725.00	2,011.90	-3,973.32	455,199.92	508,362.15	32° 15' 5.251 N	104° 18' 22.623 W
- plan hits target center - Rectangle (sides W100.00 H2,668.00 D20.00)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
22,785.34	6,725.00	5-1/2" Production Casing	5-1/2	6

DELAWARE BASIN WEST

EDDY COUNTY _DBW_NM_E
BENNY AND THE JETS & SQUINTS
_SQUINTS FED COM 501H

OWB
PWP0

Anticollision Report

20 May, 2026

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Reference PWP0

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.00usft	**Error Surface:**	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 **Sigma**	**Casing Method:**	Added to Error Values

Survey Tool Program **Date** 5/20/2026

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,785.34	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
BENNY AND THE JETS & SQUINTS						
_SQUINTS FED COM 502H - OWB - PWP0	500.00	500.00	19.99	14.13	3.408	CC, ES
_SQUINTS FED COM 502H - OWB - PWP0	600.00	599.95	21.93	15.28	3.297	SF
_SQUINTS FED COM 503H - OWB - PWP0	500.00	500.00	40.00	34.13	6.818	CC, ES
_SQUINTS FED COM 503H - OWB - PWP0	600.00	599.95	41.89	35.26	6.316	SF
_SQUINTS FED COM 504H - OWB - PWP0	500.00	500.00	60.00	54.13	10.228	CC, ES
_SQUINTS FED COM 504H - OWB - PWP0	600.00	597.50	63.82	57.00	9.348	SF
_SQUINTS FED COM 701H - OWB - PWP0	1,292.49	1,272.96	137.62	128.18	14.581	CC
_SQUINTS FED COM 701H - OWB - PWP0	1,300.00	1,280.16	137.64	128.16	14.518	ES
_SQUINTS FED COM 701H - OWB - PWP0	7,375.00	7,080.14	196.63	129.16	2.914	Normal Operations, SF
_SQUINTS FED COM 702H - OWB - PWP0	1,193.45	1,174.75	155.70	146.68	17.263	CC
_SQUINTS FED COM 702H - OWB - PWP0	1,200.00	1,180.87	155.71	146.67	17.224	ES
_SQUINTS FED COM 702H - OWB - PWP0	1,400.00	1,368.15	171.03	160.75	16.633	SF
_SQUINTS FED COM 703H - OWB - PWP0	1,113.40	1,097.15	170.35	161.57	19.416	CC, ES
_SQUINTS FED COM 703H - OWB - PWP0	1,200.00	1,174.10	173.68	164.50	18.924	SF
_SQUINTS FED COM 704H - OWB - PWP0	1,084.53	1,071.81	182.97	174.40	21.344	CC, ES
_SQUINTS FED COM 704H - OWB - PWP0	1,200.00	1,174.13	188.76	179.57	20.545	SF
_SQUINTS FED COM 901H - OWB - PWP0	7,475.00	7,150.78	136.19	80.72	2.455	Caution - Monitor Closely, CC, ES, SF

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 502H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR **Rule Assigned:** **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	166.61	-19.45	4.63	19.99	19.51	0.48	41.701	
100.00	100.00	100.00	100.00	1.21	1.21	166.61	-19.45	4.63	19.99	17.13	2.87	6.974	
200.00	200.00	200.00	200.00	1.72	1.72	166.61	-19.45	4.63	19.99	16.13	3.86	5.175	
300.00	300.00	300.00	300.00	2.11	2.11	166.61	-19.45	4.63	19.99	15.36	4.63	4.315	
400.00	400.00	400.00	400.00	2.44	2.44	166.61	-19.45	4.63	19.99	14.71	5.29	3.782	
500.00	500.00	500.00	500.00	2.73	2.73	166.61	-19.45	4.63	19.99	14.13	5.87	3.408	CC, ES
600.00	599.95	599.95	599.95	3.42	3.00	139.92	-19.45	4.63	21.93	15.28	6.65	3.297	SF
700.00	699.63	699.63	699.63	4.02	3.24	150.06	-19.45	4.63	28.38	20.89	7.50	3.786	
800.00	798.77	798.77	798.77	4.58	3.47	159.24	-19.45	4.63	40.24	31.87	8.37	4.808	
900.00	897.08	897.08	897.08	5.12	3.69	165.53	-19.45	4.63	57.66	48.45	9.20	6.266	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 502H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
1,000.00	994.31	994.31	994.31	5.64	3.89	169.56	-19.45	4.63	80.49	70.50	9.99	8.054	
1,100.00	1,090.18	1,093.03	1,093.01	6.16	4.20	171.74	-18.68	5.93	107.37	96.54	10.83	9.917	
1,200.00	1,184.43	1,192.09	1,191.94	6.67	4.49	172.45	-16.16	10.16	136.61	124.96	11.65	11.728	
1,300.00	1,276.81	1,291.33	1,290.82	7.17	4.77	172.41	-11.88	17.34	168.09	155.63	12.46	13.491	
1,400.00	1,367.06	1,390.72	1,389.51	7.67	5.05	171.95	-5.83	27.49	201.79	188.53	13.26	15.212	
1,478.72	1,436.44	1,469.07	1,466.98	8.00	5.26	171.42	0.16	37.55	229.88	216.06	13.82	16.640	
1,500.00	1,454.99	1,490.31	1,487.92	8.07	5.31	171.29	1.97	40.59	237.59	223.65	13.94	17.041	
1,600.00	1,542.14	1,591.34	1,587.15	8.45	5.57	170.49	11.68	56.88	272.26	257.66	14.60	18.648	
1,700.00	1,629.30	1,694.28	1,687.50	8.84	5.84	169.44	23.40	76.55	304.27	289.00	15.27	19.931	
1,800.00	1,716.45	1,798.89	1,788.58	9.24	6.10	168.18	37.19	99.71	333.64	317.69	15.95	20.920	
1,900.00	1,803.61	1,904.94	1,889.96	9.66	6.36	166.72	53.10	126.40	360.39	343.75	16.64	21.656	
2,000.00	1,890.76	2,012.15	1,991.22	10.08	6.61	165.07	71.12	156.64	384.58	367.24	17.34	22.179	
2,100.00	1,977.91	2,117.41	2,089.33	10.52	6.84	163.29	90.63	189.40	406.38	388.35	18.03	22.536	
2,200.00	2,065.07	2,214.45	2,179.40	10.97	7.07	161.72	109.13	220.45	427.74	408.96	18.77	22.784	
2,300.00	2,152.22	2,311.50	2,269.46	11.43	7.24	160.30	127.62	251.49	449.37	429.90	19.47	23.081	
2,400.00	2,239.38	2,408.55	2,359.53	11.89	7.42	159.02	146.12	282.53	471.25	451.07	20.18	23.355	
2,500.00	2,326.53	2,505.60	2,449.60	12.36	7.60	157.84	164.61	313.58	493.34	472.44	20.90	23.608	
2,600.00	2,413.69	2,602.64	2,539.67	12.84	7.78	156.77	183.11	344.62	515.61	493.98	21.63	23.840	
2,700.00	2,500.84	2,699.69	2,629.74	13.32	7.97	155.78	201.60	375.67	538.03	515.67	22.37	24.054	
2,800.00	2,587.99	2,796.74	2,719.81	13.80	8.16	154.87	220.10	406.71	560.60	537.49	23.12	24.252	
2,900.00	2,675.15	2,893.79	2,809.88	14.29	8.35	154.03	238.59	437.76	583.30	559.42	23.87	24.434	
3,000.00	2,762.30	2,990.83	2,899.94	14.79	8.55	153.26	257.09	468.80	606.10	581.46	24.64	24.602	
3,100.00	2,849.46	3,087.88	2,990.01	15.28	8.76	152.54	275.58	499.85	629.00	603.59	25.41	24.758	
3,200.00	2,936.61	3,184.93	3,080.08	15.78	8.96	151.87	294.08	530.89	651.99	625.81	26.18	24.902	
3,300.00	3,023.76	3,281.98	3,170.15	16.28	9.18	151.24	312.58	561.94	675.06	648.10	26.96	25.035	
3,400.00	3,110.92	3,379.02	3,260.22	16.79	9.40	150.66	331.07	592.98	698.20	670.45	27.75	25.159	
3,500.00	3,198.07	3,476.07	3,350.29	17.30	9.62	150.12	349.57	624.02	721.40	692.86	28.54	25.275	
3,600.00	3,285.23	3,573.12	3,440.36	17.80	9.86	149.60	368.06	655.07	744.67	715.33	29.34	25.382	
3,700.00	3,372.38	3,670.17	3,530.42	18.32	10.10	149.12	386.56	686.11	767.98	737.84	30.14	25.483	
3,800.00	3,459.54	3,767.21	3,620.49	18.83	10.35	148.67	405.05	717.16	791.34	760.40	30.94	25.577	
3,900.00	3,546.69	3,864.26	3,710.56	19.34	10.61	148.25	423.55	748.20	814.75	783.01	31.75	25.665	
4,000.00	3,633.84	3,961.31	3,800.63	19.86	10.87	147.84	442.04	779.25	838.20	805.64	32.56	25.747	
4,100.00	3,721.00	4,058.35	3,890.70	20.38	11.13	147.46	460.54	810.29	861.69	828.32	33.37	25.824	
4,200.00	3,808.15	4,155.40	3,980.77	20.90	11.40	147.10	479.03	841.34	885.20	851.02	34.18	25.897	
4,300.00	3,895.31	4,252.45	4,070.84	21.42	11.67	146.76	497.53	872.38	908.76	873.76	35.00	25.965	
4,400.00	3,982.46	4,345.60	4,157.36	21.94	11.93	146.46	515.19	902.03	932.44	896.65	35.79	26.050	
4,500.00	4,069.62	4,434.96	4,240.81	22.46	12.18	146.25	531.54	929.48	956.84	920.27	36.57	26.165	
4,600.00	4,156.77	4,524.03	4,324.48	22.99	12.42	146.12	547.18	955.72	982.01	944.66	37.35	26.295	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 503H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	166.61	-38.91	9.26	40.00	39.52	0.48	83.423	
100.00	100.00	100.00	100.00	1.21	1.21	166.61	-38.91	9.26	40.00	37.13	2.87	13.952	
200.00	200.00	200.00	200.00	1.72	1.72	166.61	-38.91	9.26	40.00	36.13	3.86	10.353	
300.00	300.00	300.00	300.00	2.11	2.11	166.61	-38.91	9.26	40.00	35.36	4.63	8.632	
400.00	400.00	400.00	400.00	2.44	2.44	166.61	-38.91	9.26	40.00	34.71	5.29	7.565	
500.00	500.00	500.00	500.00	2.73	2.73	166.61	-38.91	9.26	40.00	34.13	5.87	6.818	CC, ES
600.00	599.95	599.95	599.95	3.42	3.00	137.62	-38.91	9.26	41.89	35.26	6.63	6.316	SF
700.00	699.63	699.63	699.63	4.02	3.24	143.83	-38.91	9.26	47.98	40.56	7.42	6.467	
800.00	798.77	798.77	798.77	4.58	3.47	151.15	-38.91	9.26	59.04	50.79	8.25	7.155	
900.00	897.08	897.08	897.08	5.12	3.69	157.63	-38.91	9.26	75.55	66.46	9.09	8.312	
1,000.00	994.31	994.31	994.31	5.64	3.89	162.64	-38.91	9.26	97.59	87.69	9.90	9.853	
1,100.00	1,090.18	1,090.29	1,090.27	6.16	4.18	165.63	-39.31	10.62	125.00	114.33	10.68	11.708	
1,200.00	1,184.43	1,185.02	1,184.90	6.67	4.47	166.69	-40.60	14.99	157.36	145.95	11.41	13.795	
1,300.00	1,276.81	1,278.18	1,277.74	7.17	4.77	166.66	-42.72	22.21	194.38	182.26	12.12	16.041	
1,400.00	1,367.06	1,369.44	1,368.42	7.67	5.06	166.03	-45.63	32.08	235.94	223.13	12.81	18.413	
1,478.72	1,436.44	1,439.76	1,438.03	8.00	5.30	165.31	-48.42	41.57	271.80	258.52	13.28	20.469	
1,500.00	1,454.99	1,458.57	1,456.61	8.07	5.37	165.17	-49.25	44.39	281.86	268.47	13.38	21.058	
1,600.00	1,542.14	1,546.88	1,543.57	8.45	5.69	164.31	-53.61	59.18	329.10	315.17	13.93	23.628	
1,700.00	1,629.30	1,634.96	1,629.77	8.84	6.02	163.19	-58.70	76.49	376.37	361.89	14.48	26.000	
1,800.00	1,716.45	1,722.62	1,714.98	9.24	6.36	161.92	-64.51	96.22	423.75	408.71	15.03	28.184	
1,900.00	1,803.61	1,809.70	1,798.97	9.66	6.71	160.54	-71.01	118.30	471.34	455.74	15.60	30.206	
2,000.00	1,890.76	1,896.07	1,881.53	10.08	7.07	159.09	-78.17	142.60	519.26	503.08	16.18	32.085	
2,100.00	1,977.91	1,982.60	1,963.70	10.52	7.37	157.68	-85.83	168.63	567.54	550.77	16.77	33.836	
2,200.00	2,065.07	2,069.35	2,046.05	10.97	7.70	156.47	-93.53	194.79	616.06	598.66	17.40	35.414	
2,300.00	2,152.22	2,156.10	2,128.40	11.43	8.04	155.43	-101.23	220.94	664.76	646.72	18.04	36.854	
2,400.00	2,239.38	2,242.84	2,210.75	11.89	8.38	154.54	-108.93	247.10	713.60	694.91	18.70	38.168	
2,500.00	2,326.53	2,329.59	2,293.10	12.36	8.74	153.75	-116.63	273.25	762.56	743.19	19.37	39.368	
2,600.00	2,413.69	2,416.34	2,375.45	12.84	9.10	153.07	-124.33	299.41	811.62	791.56	20.06	40.465	
2,700.00	2,500.84	2,503.08	2,457.80	13.32	9.47	152.46	-132.03	325.56	860.76	840.00	20.76	41.469	
2,800.00	2,587.99	2,589.83	2,540.15	13.80	9.85	151.91	-139.73	351.72	909.96	888.50	21.47	42.389	
2,900.00	2,675.15	2,676.58	2,622.50	14.29	10.24	151.42	-147.43	377.87	959.22	937.04	22.19	43.234	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 504H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	166.61	-58.37	13.89	60.00	59.52	0.48	125.145	
100.00	100.00	100.00	100.00	1.21	1.21	166.61	-58.37	13.89	60.00	57.13	2.87	20.929	
200.00	200.00	200.00	200.00	1.72	1.72	166.61	-58.37	13.89	60.00	56.14	3.86	15.530	
300.00	300.00	300.00	300.00	2.11	2.11	166.61	-58.37	13.89	60.00	55.37	4.63	12.949	
400.00	400.00	400.00	400.00	2.44	2.44	166.61	-58.37	13.89	60.00	54.71	5.29	11.349	
500.00	500.00	500.00	500.00	2.73	2.73	166.61	-58.37	13.89	60.00	54.13	5.87	10.228	CC, ES
600.00	599.95	597.50	597.47	3.42	3.26	135.95	-60.04	15.11	63.82	57.00	6.83	9.348	SF
700.00	699.63	694.13	693.90	4.02	3.73	137.87	-65.00	18.74	75.33	67.63	7.70	9.784	
800.00	798.77	789.08	788.31	4.58	4.17	139.96	-73.07	24.64	94.51	85.99	8.52	11.090	
900.00	897.08	881.56	879.80	5.12	4.60	141.67	-83.95	32.60	121.26	111.95	9.31	13.026	
1,000.00	994.31	970.89	967.58	5.64	5.02	142.85	-97.28	42.35	155.32	145.26	10.06	15.438	
1,100.00	1,090.18	1,056.48	1,051.03	6.16	5.42	143.56	-112.63	53.58	196.35	185.57	10.78	18.218	
1,200.00	1,184.43	1,137.86	1,129.66	6.67	5.80	143.88	-129.55	65.96	243.96	232.50	11.46	21.286	
1,300.00	1,276.81	1,214.66	1,203.13	7.17	6.16	143.88	-147.58	79.14	297.73	285.62	12.11	24.585	
1,400.00	1,367.06	1,286.61	1,271.26	7.67	6.50	143.60	-166.26	92.81	357.23	344.50	12.73	28.069	
1,478.72	1,436.44	1,339.73	1,321.07	8.00	6.76	143.20	-181.15	103.70	407.80	394.65	13.15	31.012	
1,500.00	1,454.99	1,353.61	1,334.01	8.07	6.82	143.40	-185.20	106.66	421.93	408.68	13.25	31.840	
1,600.00	1,542.14	1,417.38	1,393.08	8.45	7.14	144.07	-204.59	120.85	489.36	475.61	13.75	35.598	
1,700.00	1,629.30	1,478.75	1,449.27	8.84	7.45	144.42	-224.51	135.41	558.38	544.14	14.24	39.210	
1,800.00	1,716.45	1,544.52	1,508.87	9.24	7.73	144.61	-246.95	151.83	628.66	613.89	14.77	42.550	
1,900.00	1,803.61	1,615.49	1,573.11	9.66	8.01	144.75	-271.30	169.64	699.10	683.74	15.36	45.506	
2,000.00	1,890.76	1,686.46	1,637.35	10.08	8.29	144.88	-295.64	187.45	769.55	753.57	15.97	48.172	
2,100.00	1,977.91	1,757.42	1,701.58	10.52	8.59	144.98	-319.99	205.26	839.99	823.39	16.60	50.591	
2,200.00	2,065.07	1,828.39	1,765.82	10.97	8.89	145.06	-344.34	223.07	910.44	893.19	17.25	52.793	
2,300.00	2,152.22	1,899.36	1,830.06	11.43	9.19	145.13	-368.69	240.88	980.88	962.98	17.90	54.799	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 701H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	75.71	49.37	193.81	200.00	199.52	0.48	417.148	
100.00	100.00	100.00	100.00	1.21	1.21	75.71	49.37	193.81	200.00	197.13	2.87	69.764	
200.00	200.00	200.00	200.00	1.72	1.72	75.71	49.37	193.81	200.00	196.14	3.86	51.767	
300.00	300.00	300.00	300.00	2.11	2.11	75.71	49.37	193.81	200.00	195.37	4.63	43.165	
400.00	400.00	400.00	400.00	2.44	2.44	75.71	49.37	193.81	200.00	194.71	5.29	37.830	
500.00	500.00	500.00	500.00	2.73	2.73	75.71	49.37	193.81	200.00	194.13	5.87	34.093	
600.00	599.95	599.95	599.95	3.42	3.00	44.79	49.37	193.81	198.13	191.52	6.61	29.957	
700.00	699.63	699.63	699.63	4.02	3.24	46.55	49.37	193.81	192.64	185.37	7.27	26.482	
800.00	798.77	798.77	798.77	4.58	3.47	49.69	49.37	193.81	183.88	176.03	7.85	23.427	
900.00	897.08	897.08	897.08	5.12	3.69	54.54	49.37	193.81	172.56	164.24	8.32	20.739	
1,000.00	994.31	994.31	994.31	5.64	3.89	61.55	49.37	193.81	159.94	151.28	8.66	18.463	
1,100.00	1,090.18	1,089.29	1,089.28	6.16	4.19	70.62	50.66	194.34	148.40	139.51	8.89	16.695	
1,200.00	1,184.43	1,184.53	1,184.40	6.67	4.50	81.44	54.86	196.09	140.36	131.27	9.08	15.452	
1,292.49	1,269.94	1,272.96	1,272.55	7.14	4.79	92.69	61.37	198.79	137.62	128.18	9.44	14.581 CC	
1,300.00	1,276.81	1,280.16	1,279.71	7.17	4.81	93.64	62.01	199.05	137.64	128.16	9.48	14.518 ES	
1,400.00	1,367.06	1,376.21	1,375.13	7.67	5.14	106.32	72.16	203.26	141.79	131.46	10.33	13.729	
1,478.72	1,436.44	1,452.15	1,450.27	8.00	5.41	115.90	82.26	207.45	150.34	139.06	11.27	13.334	
1,500.00	1,454.99	1,472.77	1,470.63	8.07	5.48	118.41	85.32	208.72	153.38	141.83	11.54	13.288	
1,600.00	1,542.14	1,571.07	1,567.30	8.45	5.85	128.58	101.78	215.54	169.77	156.87	12.89	13.166	
1,700.00	1,629.30	1,671.57	1,665.44	8.84	6.24	136.42	121.75	223.82	187.69	173.53	14.16	13.255	
1,800.00	1,716.45	1,774.08	1,764.69	9.24	6.65	142.45	145.39	233.62	205.27	189.92	15.35	13.374	
1,900.00	1,803.61	1,878.39	1,864.69	9.66	7.09	147.16	172.80	244.98	221.36	204.88	16.49	13.428	
2,000.00	1,890.76	1,984.26	1,965.01	10.08	7.54	150.92	204.03	257.93	235.21	217.62	17.59	13.372	
2,100.00	1,977.91	2,086.82	2,061.11	10.52	7.91	153.91	237.13	271.65	246.83	228.22	18.62	13.260	
2,200.00	2,065.07	2,185.47	2,153.39	10.97	8.30	156.50	269.34	285.01	258.62	238.93	19.68	13.140	
2,300.00	2,152.22	2,284.12	2,245.67	11.43	8.70	158.86	301.56	298.36	270.88	250.12	20.76	13.051	
2,400.00	2,239.38	2,382.77	2,337.94	11.89	9.12	161.01	333.77	311.72	283.56	261.72	21.83	12.988	
2,500.00	2,326.53	2,481.41	2,430.22	12.36	9.55	162.98	365.98	325.07	296.60	273.69	22.91	12.947	
2,600.00	2,413.69	2,580.06	2,522.50	12.84	9.98	164.78	398.19	338.42	309.96	285.97	23.99	12.922	
2,700.00	2,500.84	2,678.71	2,614.78	13.32	10.42	166.43	430.41	351.78	323.60	298.53	25.06	12.911	
2,800.00	2,587.99	2,777.36	2,707.06	13.80	10.87	167.95	462.62	365.13	337.48	311.34	26.14	12.910	
2,900.00	2,675.15	2,876.01	2,799.34	14.29	11.33	169.35	494.83	378.49	351.58	324.36	27.22	12.916	
3,000.00	2,762.30	2,974.65	2,891.62	14.79	11.79	170.64	527.04	391.84	365.87	337.57	28.30	12.929	
3,100.00	2,849.46	3,073.30	2,983.90	15.28	12.25	171.83	559.26	405.20	380.33	350.95	29.38	12.947	
3,200.00	2,936.61	3,171.95	3,076.18	15.78	12.72	172.94	591.47	418.55	394.94	364.49	30.45	12.968	
3,300.00	3,023.76	3,270.60	3,168.46	16.28	13.20	173.96	623.68	431.91	409.69	378.15	31.53	12.993	
3,400.00	3,110.92	3,369.25	3,260.74	16.79	13.67	174.92	655.90	445.26	424.55	391.94	32.61	13.019	
3,500.00	3,198.07	3,467.89	3,353.01	17.30	14.15	175.81	688.11	458.62	439.52	405.84	33.69	13.046	
3,600.00	3,285.23	3,566.54	3,445.29	17.80	14.64	176.64	720.32	471.97	454.60	419.83	34.77	13.075	
3,700.00	3,372.38	3,665.19	3,537.57	18.32	15.12	177.42	752.53	485.33	469.75	433.91	35.85	13.105	
3,800.00	3,459.54	3,763.84	3,629.85	18.83	15.61	178.16	784.75	498.68	484.99	448.07	36.93	13.134	
3,900.00	3,546.69	3,862.49	3,722.13	19.34	16.10	178.84	816.96	512.04	500.31	462.30	38.01	13.164	
4,000.00	3,633.84	3,961.13	3,814.41	19.86	16.59	179.49	849.17	525.39	515.68	476.60	39.09	13.194	
4,100.00	3,721.00	4,059.78	3,906.69	20.38	17.08	-179.90	881.38	538.74	531.12	490.96	40.16	13.224	
4,200.00	3,808.15	4,158.43	3,998.97	20.90	17.58	-179.33	913.60	552.10	546.62	505.37	41.25	13.253	
4,300.00	3,895.31	4,257.08	4,091.25	21.42	18.07	-178.79	945.81	565.45	562.16	519.84	42.33	13.282	
4,400.00	3,982.46	4,355.73	4,183.53	21.94	18.57	-178.27	978.02	578.81	577.75	534.35	43.41	13.310	
4,500.00	4,069.62	4,454.37	4,275.80	22.46	19.07	-177.79	1,010.23	592.16	593.39	548.90	44.49	13.338	
4,600.00	4,156.77	4,553.02	4,368.08	22.99	19.57	-177.33	1,042.45	605.52	609.06	563.49	45.57	13.366	
4,700.00	4,243.92	4,651.67	4,460.36	23.51	20.07	-176.89	1,074.66	618.87	624.77	578.12	46.65	13.393	
4,800.00	4,331.08	4,750.32	4,552.64	24.04	20.57	-176.47	1,106.87	632.23	640.52	592.78	47.73	13.419	

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 701H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,850.00	4,374.66	4,799.64	4,598.78	24.29	20.82	-176.27	1,122.98	638.90	648.40	600.13	48.27	13.434	
4,900.00	4,418.39	4,849.01	4,644.97	24.55	21.07	-176.08	1,139.10	645.59	655.97	607.17	48.80	13.442	
5,000.00	4,506.80	4,948.03	4,737.59	25.08	21.58	-175.70	1,171.43	658.99	669.19	619.31	49.88	13.415	
5,100.00	4,596.40	5,047.35	4,830.50	25.62	22.09	-175.32	1,203.86	672.44	679.85	628.89	50.96	13.341	
5,200.00	4,687.13	5,146.90	4,923.62	26.15	22.60	-174.92	1,236.37	685.91	687.95	635.92	52.03	13.223	
5,300.00	4,778.93	5,246.62	5,016.90	26.68	23.11	-174.51	1,268.93	699.41	693.48	640.40	53.08	13.064	
5,400.00	4,871.73	5,346.43	5,110.27	27.20	23.62	-174.09	1,301.53	712.93	696.45	642.32	54.13	12.867	
5,500.00	4,965.48	5,446.28	5,203.67	27.73	24.13	-173.63	1,334.13	726.44	696.85	641.70	55.15	12.634	
5,600.00	5,060.11	5,546.08	5,297.03	28.24	24.65	-173.15	1,366.72	739.96	694.70	638.54	56.16	12.369	
5,700.00	5,155.55	5,645.78	5,390.29	28.75	25.16	-172.64	1,399.28	753.45	690.00	632.85	57.15	12.073	
5,800.00	5,251.74	5,745.31	5,483.39	29.26	25.68	-172.08	1,431.78	766.92	682.77	624.65	58.12	11.748	
5,900.00	5,348.61	5,844.58	5,576.26	29.75	26.19	-171.47	1,464.19	780.36	673.02	613.96	59.06	11.396	
6,000.00	5,446.10	5,943.55	5,668.84	30.24	26.70	-170.80	1,496.51	793.76	660.77	600.81	59.96	11.020	
6,100.00	5,544.14	6,042.14	5,761.06	30.71	27.21	-170.06	1,528.70	807.11	646.06	585.22	60.83	10.620	
6,200.00	5,642.66	6,140.28	5,852.86	31.16	27.72	-169.23	1,560.75	820.39	628.90	567.24	61.66	10.199	
6,300.00	5,741.59	6,237.90	5,944.18	31.60	28.23	-168.30	1,592.63	833.61	609.34	546.90	62.44	9.759	
6,400.00	5,840.87	6,334.94	6,034.96	32.02	28.73	-167.24	1,624.32	846.75	587.43	524.27	63.16	9.301	
6,500.00	5,940.43	6,431.34	6,125.13	32.42	29.23	-166.03	1,655.79	859.80	563.23	499.42	63.80	8.827	
6,600.00	6,040.20	6,527.02	6,214.64	32.78	29.73	-164.63	1,687.04	872.75	536.81	472.45	64.36	8.341	
6,700.00	6,140.11	6,616.63	6,298.60	33.11	30.18	-163.10	1,715.98	884.75	508.63	443.88	64.74	7.856	
6,807.44	6,247.54	6,711.02	6,387.53	33.29	30.67	-129.78	1,745.19	896.86	477.51	412.62	64.89	7.359	
6,825.00	6,265.10	6,726.43	6,402.10	33.28	30.75	-39.77	1,749.83	898.78	472.15	407.29	64.86	7.280	
6,850.00	6,290.04	6,748.26	6,422.75	33.24	30.86	-40.14	1,756.34	901.48	463.79	398.98	64.81	7.156	
6,875.00	6,314.87	6,769.89	6,443.26	33.20	30.97	-40.69	1,762.72	904.13	454.59	389.82	64.77	7.018	
6,900.00	6,339.52	6,791.28	6,463.55	33.15	31.08	-41.45	1,768.96	906.71	444.55	379.79	64.76	6.865	
6,925.00	6,363.92	6,812.36	6,483.58	33.10	31.19	-42.42	1,775.04	909.23	433.70	368.93	64.77	6.696	
6,950.00	6,387.99	6,833.08	6,503.28	33.04	31.29	-43.64	1,780.95	911.68	422.05	357.25	64.81	6.512	
6,975.00	6,411.68	6,853.39	6,522.62	32.99	31.40	-45.12	1,786.68	914.06	409.66	344.77	64.88	6.314	
7,000.00	6,434.92	6,873.22	6,541.53	32.93	31.50	-46.91	1,792.21	916.35	396.55	331.55	64.99	6.101	
7,025.00	6,457.65	6,892.54	6,559.96	32.88	31.60	-49.02	1,797.54	918.56	382.77	317.63	65.14	5.876	
7,050.00	6,479.80	6,911.27	6,577.86	32.83	31.69	-51.49	1,802.66	920.68	368.41	303.07	65.34	5.639	
7,075.00	6,501.31	6,929.37	6,595.16	32.78	31.78	-54.34	1,807.55	922.71	353.52	287.94	65.58	5.391	
7,100.00	6,522.13	6,946.79	6,611.84	32.74	31.87	-57.61	1,812.21	924.64	338.21	272.33	65.87	5.134	
7,125.00	6,542.20	6,963.47	6,627.82	32.70	31.96	-61.29	1,816.62	926.47	322.57	256.35	66.22	4.871	
7,150.00	6,561.46	6,979.37	6,643.07	32.66	32.04	-65.36	1,820.80	928.20	306.76	240.14	66.62	4.605	
7,175.00	6,579.86	6,994.45	6,657.53	32.63	32.11	-69.78	1,824.71	929.83	290.91	223.85	67.06	4.338	
7,200.00	6,597.34	7,008.65	6,671.17	32.61	32.18	-74.45	1,828.37	931.35	275.25	207.71	67.54	4.075	
7,225.00	6,613.87	7,021.93	6,683.93	32.60	32.25	-79.26	1,831.77	932.75	259.98	191.95	68.03	3.822	
7,250.00	6,629.40	7,034.24	6,695.77	32.59	32.31	-84.05	1,834.89	934.05	245.41	176.92	68.49	3.583	
7,275.00	6,643.87	7,045.56	6,706.67	32.59	32.37	-88.65	1,837.74	935.23	231.88	163.02	68.86	3.367	
7,300.00	6,657.27	7,055.85	6,716.56	32.61	32.42	-92.91	1,840.31	936.29	219.78	150.72	69.06	3.182	
7,325.00	6,669.53	7,065.06	6,725.44	32.63	32.46	-96.70	1,842.60	937.24	209.55	140.58	68.97	3.038	
7,350.00	6,680.65	7,073.17	6,733.25	32.66	32.51	-99.92	1,844.60	938.07	201.69	133.21	68.47	2.945	Normal Operations
7,375.00	6,690.57	7,080.14	6,739.97	32.71	32.54	-102.49	1,846.32	938.79	196.63	129.16	67.47	2.914	Normal Operations, SF
7,400.00	6,699.28	7,085.96	6,745.58	32.77	32.57	-104.37	1,847.75	939.38	194.73	128.80	65.93	2.954	Normal Operations
7,401.68	6,699.82	7,086.31	6,745.92	32.77	32.57	-104.47	1,847.83	939.41	194.72	128.92	65.80	2.959	Normal Operations
7,425.00	6,706.75	7,090.60	6,750.05	32.84	32.59	-105.54	1,848.88	939.85	196.21	132.30	63.91	3.070	
7,450.00	6,712.97	7,094.03	6,753.37	32.92	32.61	-105.97	1,849.71	940.19	201.07	139.47	61.60	3.264	
7,475.00	6,717.91	7,096.25	6,755.51	33.01	32.62	-105.64	1,850.25	940.42	209.12	149.92	59.19	3.533	
7,500.00	6,721.55	7,097.24	6,756.46	33.12	32.63	-104.52	1,850.49	940.52	220.03	163.13	56.90	3.867	

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 701H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
7,525.00	6,723.90	7,096.98	6,756.22	33.23	32.62	-102.60	1,850.43	940.49	233.38	178.53	54.86	4.255	
7,550.00	6,724.95	7,095.49	6,754.77	33.35	32.62	-99.85	1,850.07	940.34	248.76	195.63	53.12	4.683	
7,557.44	6,725.00	7,094.80	6,754.11	33.39	32.61	-98.87	1,849.90	940.27	253.66	200.99	52.67	4.816	
7,600.00	6,725.00	7,090.55	6,750.01	33.63	32.59	-97.60	1,848.87	939.84	283.84	233.27	50.57	5.613	
7,700.00	6,725.00	7,080.47	6,740.28	34.27	32.54	-94.60	1,846.40	938.82	364.39	316.37	48.02	7.588	
7,800.00	6,725.00	7,070.25	6,730.44	35.03	32.49	-91.62	1,843.88	937.78	452.54	405.33	47.21	9.586	
7,900.00	6,725.00	7,059.90	6,720.47	35.91	32.44	-88.67	1,841.32	936.71	544.60	497.54	47.06	11.573	
8,000.00	6,725.00	7,049.42	6,710.38	36.88	32.39	-85.77	1,838.71	935.63	638.89	591.73	47.16	13.548	
8,100.00	6,725.00	7,038.80	6,700.16	37.95	32.33	-82.93	1,836.04	934.52	734.53	687.19	47.34	15.515	
8,200.00	6,725.00	7,028.04	6,689.81	39.11	32.28	-80.17	1,833.32	933.40	831.07	783.51	47.56	17.475	
8,300.00	6,725.00	7,017.14	6,679.33	40.34	32.23	-77.49	1,830.55	932.25	928.22	880.45	47.77	19.431	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 702H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	81.43	29.91	198.44	200.68	200.20	0.48	418.571	
100.00	100.00	100.00	100.00	1.21	1.21	81.43	29.91	198.44	200.68	197.81	2.87	70.002	
200.00	200.00	200.00	200.00	1.72	1.72	81.43	29.91	198.44	200.68	196.82	3.86	51.944	
300.00	300.00	300.00	300.00	2.11	2.11	81.43	29.91	198.44	200.68	196.05	4.63	43.312	
400.00	400.00	400.00	400.00	2.44	2.44	81.43	29.91	198.44	200.68	195.39	5.29	37.959	
500.00	500.00	500.00	500.00	2.73	2.73	81.43	29.91	198.44	200.68	194.82	5.87	34.209	
600.00	599.95	599.95	599.95	3.42	3.00	50.56	29.91	198.44	199.01	192.44	6.57	30.288	
700.00	699.63	699.63	699.63	4.02	3.24	52.46	29.91	198.44	194.11	186.92	7.19	26.993	
800.00	798.77	798.77	798.77	4.58	3.47	55.82	29.91	198.44	186.42	178.69	7.73	24.129	
900.00	897.08	897.08	897.08	5.12	3.69	60.90	29.91	198.44	176.73	168.57	8.16	21.657	
1,000.00	994.31	994.31	994.31	5.64	3.89	68.06	29.91	198.44	166.43	157.95	8.48	19.619	
1,100.00	1,090.18	1,087.58	1,087.57	6.16	4.18	76.87	30.76	199.47	158.43	149.68	8.76	18.091	
1,193.45	1,178.31	1,174.75	1,174.64	6.64	4.46	86.19	33.29	202.56	155.70	146.68	9.02	17.263 CC	
1,200.00	1,184.43	1,180.87	1,180.75	6.67	4.48	86.87	33.53	202.85	155.71	146.67	9.04	17.224 ES	
1,300.00	1,276.81	1,274.39	1,273.97	7.17	4.78	97.35	38.24	208.59	159.69	150.18	9.51	16.787	
1,400.00	1,367.06	1,368.15	1,367.14	7.67	5.10	107.40	44.89	216.70	171.03	160.75	10.28	16.633 SF	
1,478.72	1,436.44	1,442.13	1,440.38	8.00	5.30	114.52	51.50	224.77	185.01	174.01	11.00	16.822	
1,500.00	1,454.99	1,462.10	1,460.11	8.07	5.34	116.39	53.49	227.18	189.45	178.27	11.18	16.939	
1,600.00	1,542.14	1,555.47	1,552.31	8.45	5.57	124.06	62.83	238.57	212.73	200.53	12.20	17.430	
1,700.00	1,629.30	1,648.84	1,644.51	8.84	5.85	130.23	72.17	249.96	239.13	225.91	13.22	18.089	
1,800.00	1,716.45	1,742.21	1,736.71	9.24	6.15	135.19	81.51	261.35	267.72	253.52	14.20	18.856	
1,900.00	1,803.61	1,835.58	1,828.91	9.66	6.46	139.21	90.85	272.74	297.88	282.73	15.15	19.667	
2,000.00	1,890.76	1,928.95	1,921.11	10.08	6.78	142.51	100.19	284.13	329.17	313.10	16.07	20.481	
2,100.00	1,977.91	2,022.32	2,013.31	10.52	7.11	145.24	109.53	295.52	361.30	344.32	16.98	21.273	
2,200.00	2,065.07	2,115.69	2,105.51	10.97	7.45	147.54	118.88	306.91	394.06	376.18	17.89	22.031	
2,300.00	2,152.22	2,209.06	2,197.71	11.43	7.80	149.48	128.22	318.29	427.32	408.53	18.79	22.747	
2,400.00	2,239.38	2,302.43	2,289.91	11.89	8.15	151.15	137.56	329.68	460.95	441.27	19.68	23.419	
2,500.00	2,326.53	2,395.80	2,382.11	12.36	8.51	152.60	146.90	341.07	494.89	474.31	20.58	24.048	
2,600.00	2,413.69	2,489.17	2,474.31	12.84	8.88	153.86	156.24	352.46	529.08	507.60	21.48	24.634	
2,700.00	2,500.84	2,582.54	2,566.51	13.32	9.24	154.97	165.58	363.85	563.47	541.09	22.38	25.179	
2,800.00	2,587.99	2,675.91	2,658.71	13.80	9.62	155.95	174.92	375.24	598.02	574.74	23.28	25.687	
2,900.00	2,675.15	2,769.28	2,750.91	14.29	9.99	156.82	184.26	386.63	632.72	608.53	24.19	26.160	
3,000.00	2,762.30	2,862.65	2,843.11	14.79	10.37	157.61	193.60	398.01	667.53	642.43	25.09	26.601	
3,100.00	2,849.46	2,956.02	2,935.31	15.28	10.76	158.32	202.95	409.40	702.44	676.43	26.00	27.012	
3,200.00	2,936.61	3,049.39	3,027.51	15.78	11.14	158.96	212.29	420.79	737.43	710.52	26.92	27.396	
3,300.00	3,023.76	3,142.76	3,119.71	16.28	11.53	159.54	221.63	432.18	772.51	744.67	27.83	27.754	
3,400.00	3,110.92	3,236.13	3,211.91	16.79	11.92	160.08	230.97	443.57	807.64	778.89	28.75	28.090	
3,500.00	3,198.07	3,329.50	3,304.11	17.30	12.31	160.56	240.31	454.96	842.83	813.16	29.67	28.404	
3,600.00	3,285.23	3,422.87	3,396.32	17.80	12.70	161.01	249.65	466.35	878.08	847.48	30.60	28.699	
3,700.00	3,372.38	3,516.24	3,488.52	18.32	13.09	161.43	258.99	477.74	913.36	881.84	31.52	28.977	
3,800.00	3,459.54	3,609.61	3,580.72	18.83	13.49	161.81	268.33	489.12	948.69	916.24	32.45	29.237	
3,900.00	3,546.69	3,702.98	3,672.92	19.34	13.88	162.17	277.67	500.51	984.05	950.67	33.38	29.483	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 703H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	87.05	10.46	203.07	203.34	202.86	0.48	424.114	
100.00	100.00	100.00	100.00	1.21	1.21	87.05	10.46	203.07	203.34	200.47	2.87	70.929	
200.00	200.00	200.00	200.00	1.72	1.72	87.05	10.46	203.07	203.34	199.48	3.86	52.632	
300.00	300.00	300.00	300.00	2.11	2.11	87.05	10.46	203.07	203.34	198.71	4.63	43.885	
400.00	400.00	400.00	400.00	2.44	2.44	87.05	10.46	203.07	203.34	198.05	5.29	38.461	
500.00	500.00	500.00	500.00	2.73	2.73	87.05	10.46	203.07	203.34	197.47	5.87	34.662	
600.00	599.95	599.95	599.95	3.42	3.00	56.22	10.46	203.07	201.87	195.34	6.53	30.918	
700.00	699.63	699.63	699.63	4.02	3.24	58.21	10.46	203.07	197.61	190.50	7.11	27.780	
800.00	798.77	798.77	798.77	4.58	3.47	61.69	10.46	203.07	191.03	183.42	7.62	25.086	
900.00	897.08	897.08	897.08	5.12	3.69	66.87	10.46	203.07	183.01	174.98	8.03	22.802	
1,000.00	994.31	994.31	994.31	5.64	3.89	73.97	10.46	203.07	174.98	166.63	8.35	20.959	
1,100.00	1,090.18	1,085.13	1,085.12	6.16	4.16	82.55	9.88	204.20	170.42	161.71	8.72	19.555	
1,113.40	1,102.91	1,097.15	1,097.13	6.23	4.20	83.81	9.71	204.54	170.35	161.57	8.77	19.416 CC, ES	
1,200.00	1,184.43	1,174.10	1,173.99	6.67	4.44	92.31	8.05	207.78	173.68	164.50	9.18	18.924 SF	
1,300.00	1,276.81	1,261.15	1,260.79	7.17	4.71	102.09	5.04	213.66	186.89	177.05	9.84	18.998	
1,400.00	1,367.06	1,345.94	1,345.10	7.67	4.95	110.81	0.95	221.64	210.73	200.08	10.65	19.786	
1,478.72	1,436.44	1,412.65	1,411.24	8.00	5.10	116.73	-2.99	229.35	236.47	225.16	11.30	20.922	
1,500.00	1,454.99	1,431.14	1,429.57	8.07	5.16	118.44	-4.12	231.55	244.20	232.72	11.48	21.264	
1,600.00	1,542.14	1,518.01	1,515.66	8.45	5.41	125.30	-9.41	241.89	283.00	270.62	12.38	22.858	
1,700.00	1,629.30	1,604.88	1,601.75	8.84	5.65	130.61	-14.70	252.23	324.72	311.54	13.19	24.626	
1,800.00	1,716.45	1,691.75	1,687.84	9.24	5.91	134.76	-19.99	262.57	368.39	354.44	13.95	26.401	
1,900.00	1,803.61	1,778.63	1,773.94	9.66	6.17	138.08	-25.29	272.90	413.38	398.68	14.69	28.131	
2,000.00	1,890.76	1,865.50	1,860.03	10.08	6.45	140.76	-30.58	283.24	459.30	443.88	15.42	29.788	
2,100.00	1,977.91	1,952.37	1,946.12	10.52	6.74	142.97	-35.87	293.58	505.91	489.77	16.13	31.357	
2,200.00	2,065.07	2,039.24	2,032.21	10.97	7.03	144.82	-41.16	303.91	553.02	536.18	16.84	32.834	
2,300.00	2,152.22	2,126.12	2,118.31	11.43	7.33	146.39	-46.45	314.25	600.53	582.98	17.55	34.217	
2,400.00	2,239.38	2,212.99	2,204.40	11.89	7.64	147.73	-51.74	324.59	648.33	630.07	18.26	35.512	
2,500.00	2,326.53	2,299.86	2,290.49	12.36	7.95	148.88	-57.03	334.93	696.38	677.41	18.96	36.720	
2,600.00	2,413.69	2,386.73	2,376.58	12.84	8.27	149.89	-62.33	345.26	744.62	724.95	19.67	37.849	
2,700.00	2,500.84	2,473.60	2,462.68	13.32	8.59	150.78	-67.62	355.60	793.02	772.64	20.38	38.903	
2,800.00	2,587.99	2,560.48	2,548.77	13.80	8.92	151.57	-72.91	365.94	841.55	820.46	21.10	39.888	
2,900.00	2,675.15	2,647.35	2,634.86	14.29	9.25	152.28	-78.20	376.27	890.20	868.38	21.81	40.809	
3,000.00	2,762.30	2,734.22	2,720.95	14.79	9.58	152.91	-83.49	386.61	938.93	916.40	22.53	41.671	
3,100.00	2,849.46	2,821.09	2,807.05	15.28	9.92	153.48	-88.78	396.95	987.74	964.49	23.25	42.479	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 704H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	92.48	-9.00	207.70	207.89	207.42	0.48	433.616	
100.00	100.00	100.00	100.00	1.21	1.21	92.48	-9.00	207.70	207.89	205.03	2.87	72.518	
200.00	200.00	200.00	200.00	1.72	1.72	92.48	-9.00	207.70	207.89	204.03	3.86	53.811	
300.00	300.00	300.00	300.00	2.11	2.11	92.48	-9.00	207.70	207.89	203.26	4.63	44.869	
400.00	400.00	400.00	400.00	2.44	2.44	92.48	-9.00	207.70	207.89	202.61	5.29	39.323	
500.00	500.00	500.00	500.00	2.73	2.73	92.48	-9.00	207.70	207.89	202.03	5.87	35.438	
600.00	599.95	599.95	599.95	3.42	3.00	61.66	-9.00	207.70	206.64	200.15	6.49	31.828	
700.00	699.63	699.63	699.63	4.02	3.24	63.71	-9.00	207.70	203.03	195.98	7.05	28.819	
800.00	798.77	798.77	798.77	4.58	3.47	67.23	-9.00	207.70	197.57	190.05	7.52	26.266	
900.00	897.08	897.08	897.08	5.12	3.69	72.37	-9.00	207.70	191.18	183.26	7.92	24.136	
1,000.00	994.31	994.31	994.31	5.64	3.89	79.26	-9.00	207.70	185.30	177.04	8.26	22.436	
1,084.53	1,075.45	1,071.81	1,071.80	6.08	4.12	86.21	-9.82	208.08	182.97	174.40	8.57	21.344	CC, ES
1,100.00	1,090.18	1,085.75	1,085.73	6.16	4.16	87.60	-10.16	208.24	183.07	174.42	8.64	21.183	
1,200.00	1,184.43	1,174.13	1,174.02	6.67	4.43	97.14	-13.80	209.92	188.76	179.57	9.19	20.545	SF
1,300.00	1,276.81	1,259.14	1,258.79	7.17	4.69	106.67	-19.63	212.62	205.03	195.05	9.98	20.548	
1,400.00	1,367.06	1,340.29	1,339.49	7.67	4.94	115.12	-27.32	216.17	232.95	222.02	10.94	21.298	
1,478.72	1,436.44	1,400.00	1,398.70	8.00	5.14	120.54	-34.30	219.40	262.79	251.13	11.66	22.538	
1,500.00	1,454.99	1,417.21	1,415.74	8.07	5.20	122.22	-36.52	220.43	271.89	260.04	11.86	22.935	
1,600.00	1,542.14	1,491.45	1,489.04	8.45	5.45	128.44	-47.16	225.35	318.60	305.91	12.69	25.101	
1,700.00	1,629.30	1,563.76	1,560.13	8.84	5.71	133.12	-59.18	230.91	370.38	356.96	13.42	27.599	
1,800.00	1,716.45	1,634.13	1,628.97	9.24	5.97	136.64	-72.44	237.04	425.93	411.86	14.08	30.260	
1,900.00	1,803.61	1,700.00	1,693.06	9.66	6.22	139.23	-86.23	243.43	484.45	469.80	14.65	33.073	
2,000.00	1,890.76	1,769.06	1,759.85	10.08	6.50	141.35	-102.13	250.78	545.37	530.11	15.26	35.746	
2,100.00	1,977.91	1,833.63	1,821.91	10.52	6.74	142.92	-118.31	258.26	608.36	592.57	15.79	38.527	
2,200.00	2,065.07	1,899.22	1,884.55	10.97	6.97	144.19	-136.00	266.44	673.13	656.81	16.32	41.253	
2,300.00	2,152.22	1,974.03	1,955.84	11.43	7.25	145.38	-156.58	275.96	738.54	721.54	17.00	43.456	
2,400.00	2,239.38	2,048.84	2,027.13	11.89	7.53	146.37	-177.16	285.48	804.10	786.43	17.67	45.502	
2,500.00	2,326.53	2,123.65	2,098.42	12.36	7.82	147.22	-197.74	295.00	869.79	851.44	18.35	47.398	
2,600.00	2,413.69	2,198.47	2,169.71	12.84	8.11	147.95	-218.32	304.52	935.57	916.53	19.04	49.143	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 901H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	75.71	98.74	387.56	399.94	399.46	0.48	834.174	
100.00	100.00	100.00	100.00	1.21	1.21	75.71	98.74	387.56	399.94	397.07	2.87	139.508	
200.00	200.00	200.00	200.00	1.72	1.72	75.71	98.74	387.56	399.94	396.08	3.86	103.519	
300.00	300.00	300.00	300.00	2.11	2.11	75.71	98.74	387.56	399.94	395.31	4.63	86.317	
400.00	400.00	400.00	400.00	2.44	2.44	75.71	98.74	387.56	399.94	394.65	5.29	75.648	
500.00	500.00	500.00	500.00	2.73	2.73	75.71	98.74	387.56	399.94	394.07	5.87	68.175	
600.00	599.95	599.95	599.95	3.42	3.00	44.52	98.74	387.56	398.07	391.45	6.62	60.169	
700.00	699.63	699.63	699.63	4.02	3.24	45.45	98.74	387.56	392.51	385.22	7.29	53.841	
800.00	798.77	798.77	798.77	4.58	3.47	47.03	98.74	387.56	383.44	375.54	7.90	48.515	
900.00	897.08	897.08	897.08	5.12	3.69	49.35	98.74	387.56	371.17	362.72	8.46	43.886	
1,000.00	994.31	994.31	994.31	5.64	3.89	52.51	98.74	387.56	356.21	347.26	8.95	39.815	
1,100.00	1,090.18	1,090.18	1,090.18	6.16	4.08	56.63	98.74	387.56	339.28	329.92	9.36	36.246	
1,200.00	1,184.43	1,184.43	1,184.43	6.67	4.27	61.87	98.74	387.56	321.45	311.76	9.69	33.174	
1,300.00	1,276.81	1,276.81	1,276.81	7.17	4.44	68.30	98.74	387.56	304.25	294.31	9.94	30.615	
1,400.00	1,367.06	1,367.06	1,367.06	7.67	4.60	75.93	98.74	387.56	289.76	279.62	10.14	28.562	
1,478.72	1,436.44	1,436.44	1,436.44	8.00	4.72	82.65	98.74	387.56	281.98	271.66	10.32	27.334	
1,500.00	1,454.99	1,454.99	1,454.99	8.07	4.76	84.50	98.74	387.56	280.64	270.27	10.37	27.071	
1,562.90	1,509.80	1,509.80	1,509.80	8.31	4.85	90.00	98.74	387.56	278.94	268.28	10.66	26.174	
1,600.00	1,542.14	1,542.14	1,542.14	8.45	4.91	93.25	98.74	387.56	279.53	268.66	10.87	25.714	
1,700.00	1,629.30	1,629.30	1,629.30	8.84	5.05	101.86	98.74	387.56	286.92	275.32	11.60	24.735	
1,800.00	1,716.45	1,716.45	1,716.45	9.24	5.19	109.96	98.74	387.56	302.20	289.69	12.50	24.171	
1,900.00	1,803.61	1,803.61	1,803.61	9.66	5.33	117.31	98.74	387.56	324.23	310.75	13.48	24.050	
2,000.00	1,890.76	1,890.76	1,890.76	10.08	5.47	123.81	98.74	387.56	351.77	337.30	14.47	24.316	
2,100.00	1,977.91	1,977.91	1,977.91	10.52	5.61	129.45	98.74	387.56	383.62	368.19	15.42	24.876	
2,200.00	2,065.07	2,074.99	2,074.99	10.97	5.82	134.76	99.69	387.81	418.02	401.56	16.46	25.397	
2,300.00	2,152.22	2,178.63	2,178.52	11.43	6.06	139.37	104.13	388.97	452.10	434.59	17.52	25.808	
2,400.00	2,239.38	2,285.84	2,285.36	11.89	6.30	143.28	112.52	391.16	484.87	466.30	18.56	26.120	
2,500.00	2,326.53	2,396.49	2,395.22	12.36	6.55	146.62	125.24	394.49	515.63	496.04	19.60	26.313	
2,600.00	2,413.69	2,510.41	2,507.71	12.84	6.80	149.51	142.61	399.03	543.89	523.27	20.62	26.378	
2,700.00	2,500.84	2,627.36	2,622.36	13.32	7.06	152.05	164.93	404.87	569.24	547.61	21.63	26.316	
2,800.00	2,587.99	2,747.07	2,738.63	13.80	7.32	154.32	192.45	412.07	591.35	568.72	22.63	26.130	
2,900.00	2,675.15	2,869.20	2,855.93	14.29	7.58	156.37	225.34	420.67	609.97	586.36	23.62	25.828	
3,000.00	2,762.30	2,993.38	2,973.59	14.79	7.84	158.25	263.70	430.70	624.90	600.31	24.58	25.420	
3,100.00	2,849.46	3,119.17	3,090.92	15.28	8.11	160.02	307.56	442.17	635.96	610.43	25.53	24.913	
3,200.00	2,936.61	3,239.50	3,201.22	15.78	8.34	161.61	354.06	454.33	643.16	616.73	26.43	24.336	
3,300.00	3,023.76	3,338.25	3,291.20	16.28	8.49	162.88	393.42	464.62	649.40	622.08	27.32	23.768	
3,400.00	3,110.92	3,436.99	3,381.18	16.79	8.65	164.13	432.78	474.92	655.96	627.74	28.22	23.244	
3,500.00	3,198.07	3,535.74	3,471.16	17.30	8.82	165.35	472.15	485.21	662.84	633.72	29.12	22.762	
3,600.00	3,285.23	3,634.49	3,561.13	17.80	8.99	166.55	511.51	495.50	670.01	639.99	30.02	22.317	
3,700.00	3,372.38	3,733.24	3,651.11	18.32	9.16	167.72	550.87	505.80	677.47	646.55	30.92	21.907	
3,800.00	3,459.54	3,831.99	3,741.09	18.83	9.34	168.87	590.24	516.09	685.22	653.39	31.83	21.529	
3,900.00	3,546.69	3,930.74	3,831.07	19.34	9.53	169.99	629.60	526.39	693.23	660.50	32.73	21.180	
4,000.00	3,633.84	4,029.49	3,921.05	19.86	9.71	171.09	668.96	536.68	701.51	667.88	33.63	20.858	
4,100.00	3,721.00	4,128.24	4,011.03	20.38	9.90	172.16	708.33	546.97	710.05	675.51	34.53	20.561	
4,200.00	3,808.15	4,226.99	4,101.00	20.90	10.10	173.20	747.69	557.27	718.83	683.39	35.43	20.286	
4,300.00	3,895.31	4,325.74	4,190.98	21.42	10.29	174.22	787.05	567.56	727.84	691.50	36.33	20.032	
4,400.00	3,982.46	4,424.49	4,280.96	21.94	10.49	175.22	826.42	577.86	737.08	699.85	37.23	19.797	
4,500.00	4,069.62	4,523.24	4,370.94	22.46	10.70	176.19	865.78	588.15	746.54	708.41	38.13	19.580	
4,600.00	4,156.77	4,621.99	4,460.92	22.99	10.90	177.13	905.14	598.44	756.21	717.18	39.02	19.379	
4,700.00	4,243.92	4,720.74	4,550.90	23.51	11.11	178.06	944.51	608.74	766.08	726.16	39.92	19.192	
4,800.00	4,331.08	4,819.49	4,640.87	24.04	11.32	178.96	983.87	619.03	776.14	735.34	40.81	19.020	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 901H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,850.00	4,374.66	4,868.87	4,685.86	24.29	11.43	179.40	1,003.55	624.18	781.25	740.01	41.24	18.943	
4,900.00	4,418.39	4,918.27	4,730.88	24.55	11.53	179.83	1,023.25	629.33	786.07	744.39	41.68	18.860	
5,000.00	4,506.80	5,017.26	4,821.07	25.08	11.75	-179.31	1,062.70	639.65	793.90	751.33	42.57	18.651	
5,100.00	4,596.40	5,116.41	4,911.42	25.62	11.97	-178.47	1,102.23	649.98	799.29	755.85	43.44	18.398	
5,200.00	4,687.13	5,215.66	5,001.85	26.15	12.19	-177.63	1,141.79	660.33	802.24	757.93	44.31	18.106	
5,300.00	4,778.93	5,314.94	5,092.31	26.68	12.42	-176.78	1,181.37	670.68	802.75	757.59	45.16	17.777	
5,400.00	4,871.73	5,414.19	5,182.75	27.20	12.64	-175.93	1,220.93	681.02	800.83	754.84	45.99	17.413	
5,500.00	4,965.48	5,513.33	5,273.08	27.73	12.88	-175.04	1,260.45	691.36	796.48	749.68	46.80	17.018	
5,600.00	5,060.11	5,612.30	5,363.26	28.24	13.11	-174.13	1,299.90	701.68	789.72	742.13	47.60	16.592	
5,700.00	5,155.55	5,711.04	5,453.22	28.75	13.35	-173.17	1,339.25	711.97	780.58	732.21	48.37	16.139	
5,800.00	5,251.74	5,809.46	5,542.91	29.26	13.59	-172.16	1,378.49	722.23	769.07	719.96	49.11	15.661	
5,900.00	5,348.61	5,907.51	5,632.25	29.75	13.84	-171.09	1,417.57	732.45	755.23	705.41	49.82	15.159	
6,000.00	5,446.10	6,005.12	5,721.18	30.24	14.10	-169.92	1,456.48	742.62	739.10	688.61	50.50	14.637	
6,100.00	5,544.14	6,102.21	5,809.66	30.71	14.35	-168.67	1,495.19	752.75	720.74	669.60	51.14	14.095	
6,200.00	5,642.66	6,198.74	5,897.61	31.16	14.61	-167.29	1,533.66	762.81	700.20	648.47	51.73	13.537	
6,300.00	5,741.59	6,294.62	5,984.97	31.60	14.87	-165.76	1,571.88	772.80	677.57	625.30	52.26	12.964	
6,400.00	5,840.87	6,389.79	6,071.69	32.02	15.13	-164.07	1,609.82	782.72	652.93	600.19	52.74	12.381	
6,500.00	5,940.43	6,484.19	6,157.71	32.42	15.39	-162.17	1,647.45	792.56	626.41	573.28	53.13	11.790	
6,600.00	6,040.20	6,577.76	6,242.96	32.78	15.65	-160.01	1,684.74	802.32	598.16	544.73	53.43	11.195	
6,700.00	6,140.11	6,670.42	6,327.39	33.11	15.91	-157.55	1,721.68	811.98	568.37	514.76	53.60	10.603	
6,807.44	6,247.54	6,768.90	6,417.12	33.29	16.18	-123.01	1,760.94	822.24	534.92	481.43	53.49	10.000	
6,825.00	6,265.10	6,784.86	6,431.67	33.28	16.23	-32.74	1,767.30	823.91	529.12	475.70	53.42	9.905	
6,850.00	6,290.04	6,807.43	6,452.23	33.24	16.29	-32.72	1,776.29	826.26	520.04	466.76	53.27	9.762	
6,875.00	6,314.87	6,829.75	6,472.57	33.20	16.35	-32.84	1,785.19	828.59	509.99	456.87	53.13	9.600	
6,900.00	6,339.52	6,851.77	6,492.63	33.15	16.41	-33.09	1,793.97	830.88	498.99	446.01	52.98	9.418	
6,925.00	6,363.92	6,873.42	6,512.36	33.10	16.47	-33.51	1,802.60	833.14	487.05	434.21	52.85	9.216	
6,950.00	6,387.99	6,894.65	6,531.70	33.04	16.53	-34.10	1,811.06	835.35	474.19	421.47	52.72	8.994	
6,975.00	6,411.68	6,915.39	6,550.60	32.99	16.59	-34.90	1,819.33	837.51	460.42	407.82	52.60	8.752	
7,000.00	6,434.92	6,935.17	6,568.63	32.93	16.64	-35.93	1,827.21	839.57	445.79	393.28	52.50	8.491	
7,025.00	6,457.65	6,953.78	6,585.61	32.88	16.69	-37.22	1,834.58	841.50	430.34	377.93	52.41	8.210	
7,050.00	6,479.80	6,971.84	6,602.11	32.83	16.74	-38.82	1,841.68	843.36	414.14	361.79	52.35	7.911	
7,075.00	6,501.31	6,989.31	6,618.09	32.78	16.78	-40.77	1,848.50	845.14	397.22	344.91	52.31	7.593	
7,100.00	6,522.13	7,006.13	6,633.50	32.74	16.83	-43.13	1,855.03	846.85	379.62	327.32	52.30	7.258	
7,125.00	6,542.20	7,022.25	6,648.28	32.70	16.87	-45.98	1,861.24	848.47	361.41	309.09	52.33	6.907	
7,150.00	6,561.46	7,037.62	6,662.40	32.66	16.91	-49.37	1,867.12	850.01	342.66	290.27	52.39	6.540	
7,175.00	6,579.86	7,052.19	6,675.80	32.63	16.95	-53.39	1,872.67	851.46	323.44	270.93	52.50	6.160	
7,200.00	6,597.34	7,065.93	6,688.44	32.61	16.99	-58.09	1,877.86	852.82	303.84	251.18	52.67	5.769	
7,225.00	6,613.87	7,078.78	6,700.28	32.60	17.02	-63.46	1,882.70	854.08	284.00	231.10	52.90	5.369	
7,250.00	6,629.40	7,090.70	6,711.27	32.59	17.06	-69.46	1,887.16	855.25	264.04	210.84	53.20	4.963	
7,275.00	6,643.87	7,100.00	6,719.86	32.59	17.08	-75.46	1,890.63	856.16	244.16	190.61	53.55	4.559	
7,300.00	6,657.27	7,111.61	6,730.58	32.61	17.11	-82.55	1,894.93	857.28	224.58	170.52	54.06	4.155	
7,325.00	6,669.53	7,120.53	6,738.82	32.63	17.14	-89.04	1,898.23	858.15	205.61	150.99	54.62	3.764	
7,350.00	6,680.65	7,128.38	6,746.09	32.66	17.16	-95.05	1,901.12	858.90	187.65	132.39	55.25	3.396	
7,375.00	6,690.57	7,135.14	6,752.34	32.71	17.18	-100.30	1,903.60	859.55	171.23	115.32	55.91	3.063	
7,400.00	6,699.28	7,140.78	6,757.56	32.77	17.19	-104.63	1,905.66	860.09	157.04	100.57	56.46	2.781	Normal Operations
7,425.00	6,706.75	7,145.28	6,761.72	32.84	17.20	-107.93	1,907.31	860.52	145.90	89.18	56.72	2.572	Normal Operations
7,450.00	6,712.97	7,148.61	6,764.81	32.92	17.21	-110.18	1,908.52	860.84	138.70	82.26	56.45	2.457	Caution - Monitor Closely
7,475.00	6,717.91	7,150.78	6,766.82	33.01	17.22	-111.37	1,909.31	861.04	136.19	80.72	55.47	2.455	Caution - Monitor Closely, CC, ES, SF
7,476.13	6,718.10	7,150.85	6,766.88	33.02	17.22	-111.40	1,909.34	861.05	136.19	80.78	55.41	2.458	Caution - Monitor Closely
7,500.00	6,721.55	7,151.76	6,767.72	33.12	17.22	-111.50	1,909.67	861.14	138.67	84.80	53.88	2.574	Normal Operations

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: BENNY AND THE JETS & SQUINTS - _SQUINTS FED COM 901H - OWB - PWP0

Offset Site Error: 0.00 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
7,525.00	6,723.90	7,151.54	6,767.52	33.23	17.22	-110.56	1,909.59	861.12	145.92	93.95	51.97	2.808	Normal Operations
7,550.00	6,724.95	7,150.13	6,766.22	33.35	17.21	-108.52	1,909.07	860.98	157.25	107.13	50.12	3.137	
7,557.44	6,725.00	7,149.48	6,765.62	33.39	17.21	-107.69	1,908.84	860.92	161.28	111.66	49.62	3.251	
7,600.00	6,725.00	7,145.45	6,761.88	33.63	17.20	-105.98	1,907.37	860.54	188.39	141.11	47.28	3.985	
7,700.00	6,725.00	7,135.92	6,753.06	34.27	17.18	-101.98	1,903.88	859.62	268.14	223.40	44.73	5.994	
7,800.00	6,725.00	7,126.31	6,744.17	35.03	17.15	-98.03	1,900.36	858.70	357.93	313.88	44.06	8.124	
7,900.00	6,725.00	7,116.62	6,735.21	35.91	17.13	-94.19	1,896.79	857.77	451.83	407.90	43.93	10.285	
8,000.00	6,725.00	7,106.86	6,726.19	36.88	17.10	-90.47	1,893.17	856.82	547.71	503.74	43.98	12.455	
8,100.00	6,725.00	7,097.01	6,717.10	37.95	17.07	-86.91	1,889.51	855.87	644.70	600.63	44.07	14.628	
8,200.00	6,725.00	7,087.08	6,707.93	39.11	17.05	-83.52	1,885.81	854.90	742.36	698.17	44.19	16.800	
8,300.00	6,725.00	7,077.07	6,698.70	40.34	17.02	-80.31	1,882.06	853.92	840.45	796.14	44.30	18.970	
8,400.00	6,725.00	7,066.97	6,689.40	41.64	16.99	-77.29	1,878.26	852.92	938.83	894.41	44.42	21.136	

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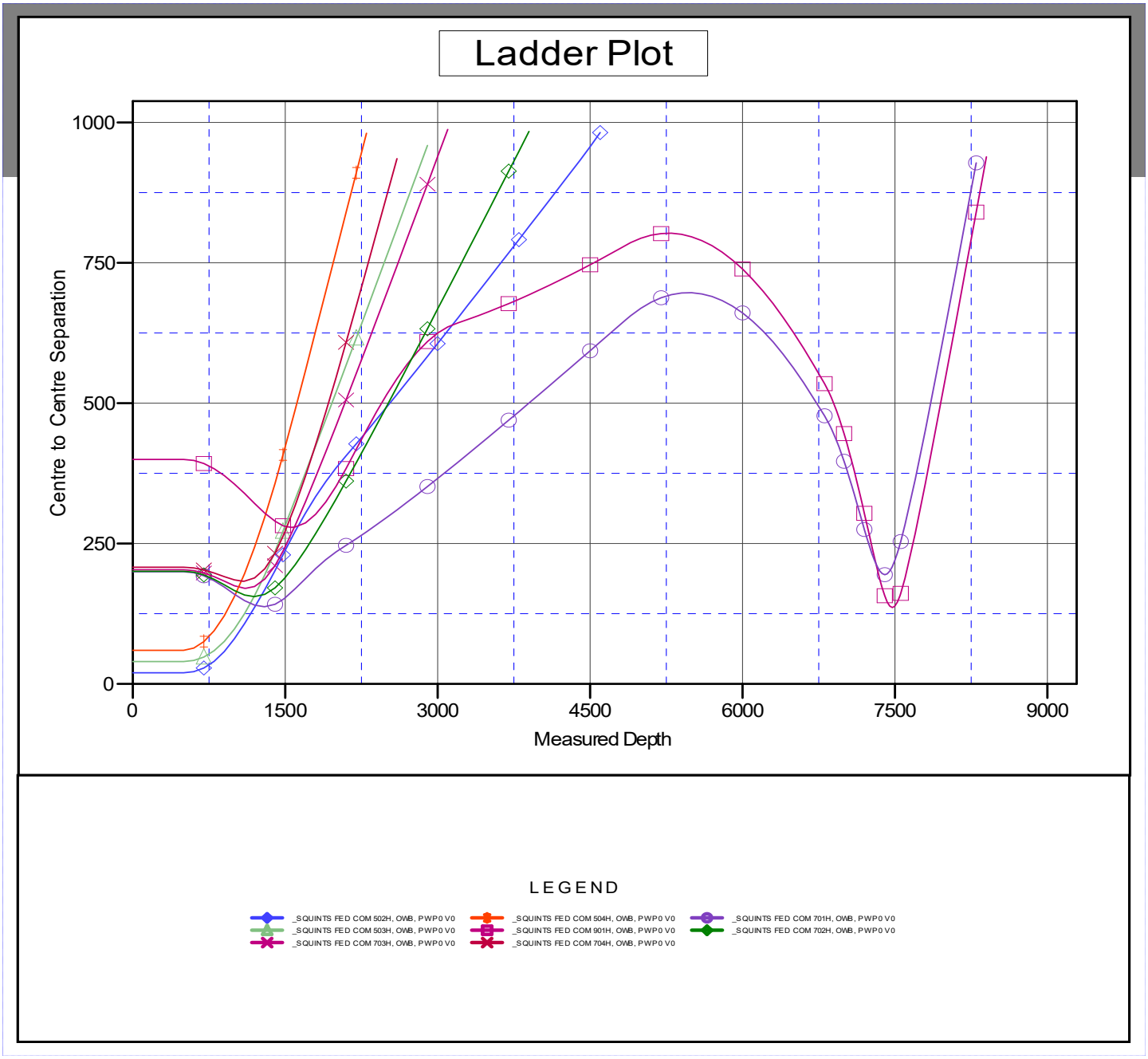
Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to GL @ 3390.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.02°



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

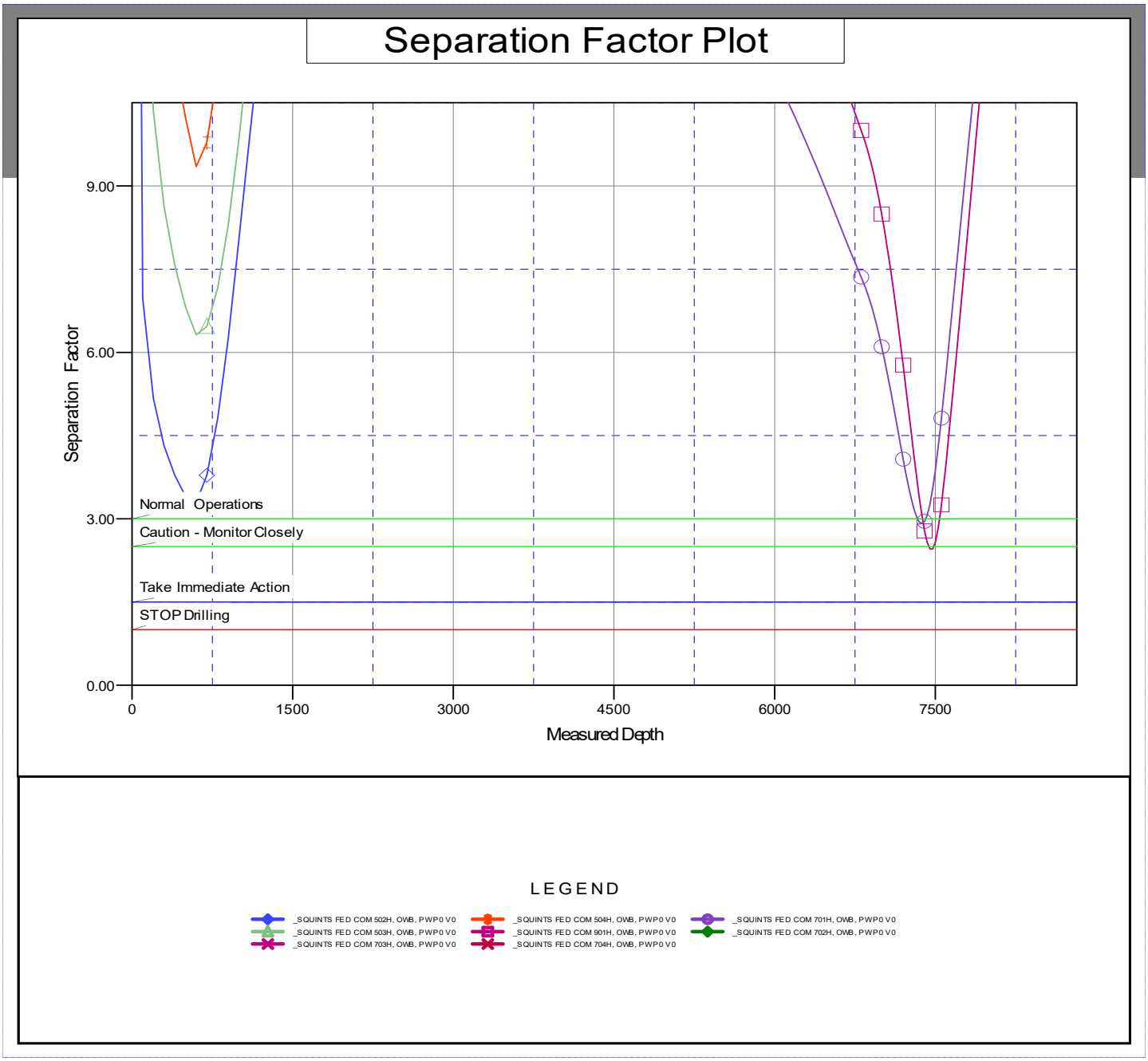
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Project:	EDDY COUNTY _DBW_NM_E	**TVD Reference:**	GL @ 3390.00usft
Reference Site:	BENNY AND THE JETS & SQUINTS	**MD Reference:**	GL @ 3390.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	_SQUINTS FED COM 501H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to GL @ 3390.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _SQUINTS FED COM 501H - Slot SQUINTS SLOT 1
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.02°



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

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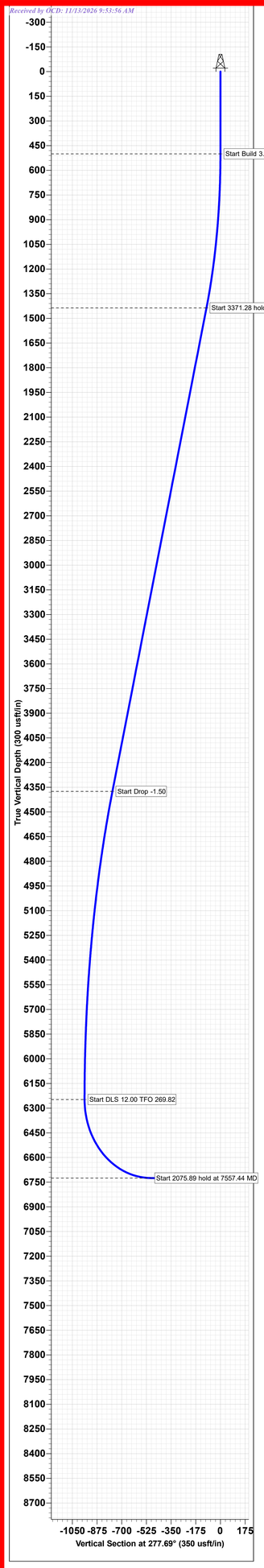
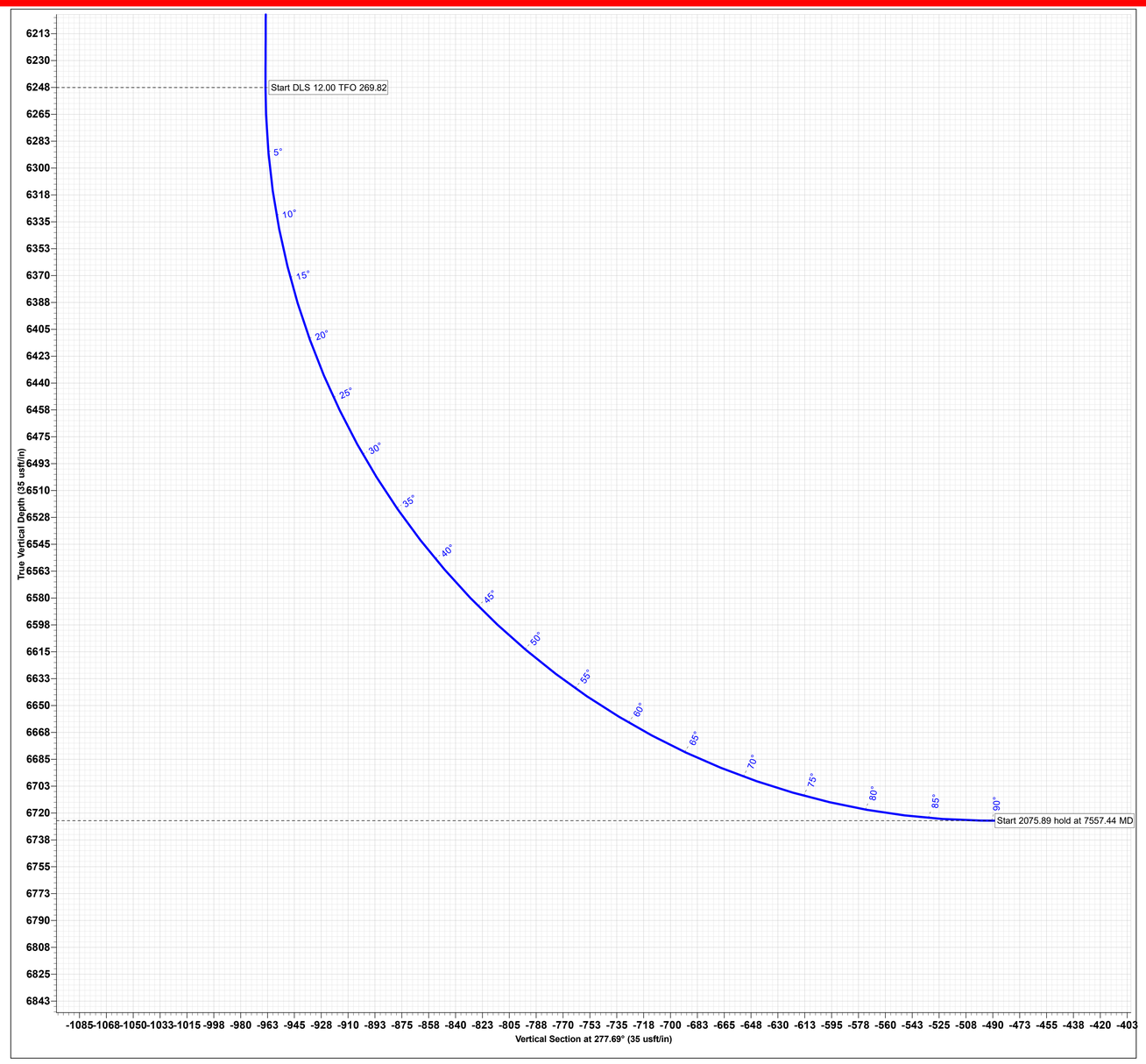
ConocoPhillips

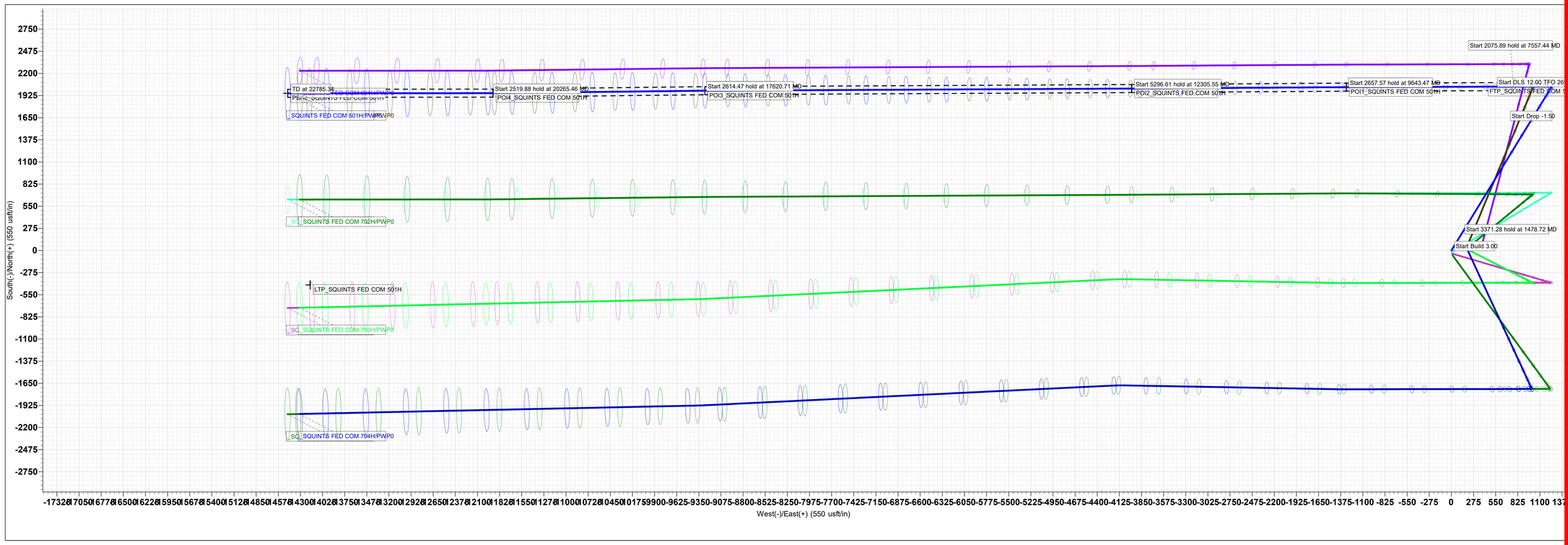
Project:	EDDY COUNTY _DBW_NM_E
Site:	BENNY AND THE JETS & SQUINTS
Well:	_SQUINTS FED COM 501H
Wellbore:	OWB
Design:	PWP0
GL:	3390.00
GL @ 3390.00usft	

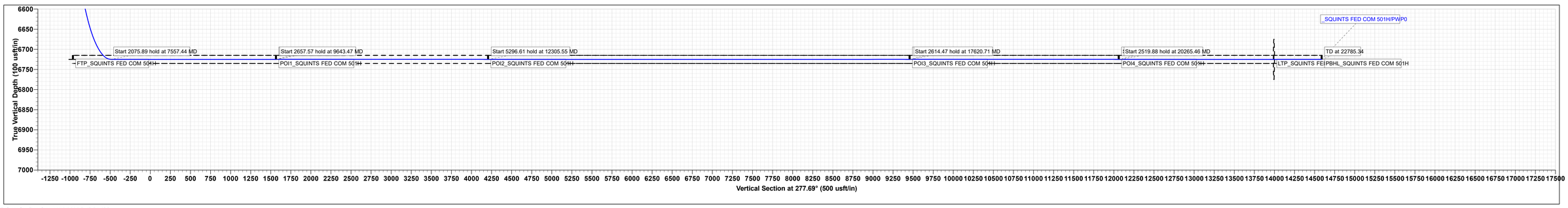
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00
1478.72	29.36	31.48	1436.44	209.22	128.13	3.00	31.48	-98.98
4850.00	29.36	31.48	4374.66	1618.88	991.42	0.00	0.00	-765.85
6807.44	0.00	0.00	6247.54	2037.32	1247.68	1.50	180.00	-963.80
7557.44	90.00	269.82	6725.00	2035.86	770.22	12.00	269.82	-490.82
9633.33	90.00	269.82	6725.00	2029.50	-1305.66	0.00	0.00	1565.53
9643.47	90.00	269.62	6725.00	2029.45	-1315.81	2.00	-90.04	1575.57
12301.05	90.00	269.62	6725.00	2011.90	-3973.32	0.00	0.00	4206.83
12305.55	90.00	269.71	6725.00	2011.87	-3977.82	2.00	90.00	4211.29
17602.16	90.00	269.71	6725.00	1985.22	-9274.37	0.00	0.00	9456.62
17620.71	90.00	269.34	6725.00	1985.07	-9292.92	2.00	-90.00	9474.99
20235.19	90.00	269.34	6725.00	1954.98	-11907.22	0.00	0.00	12061.74
20265.46	90.00	269.95	6725.00	1954.79	-11937.49	2.00	90.00	12091.72
22785.34	90.00	269.95	6725.00	1952.42	-14457.37	0.00	0.00	14588.61









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Received by OCD: 11/13/2026 9:53:56 AM

COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

Well pad will be 400' X 400' with cellar in center of pad

Flare Lines will be from both Choke Manifold & Separator to edge of location.

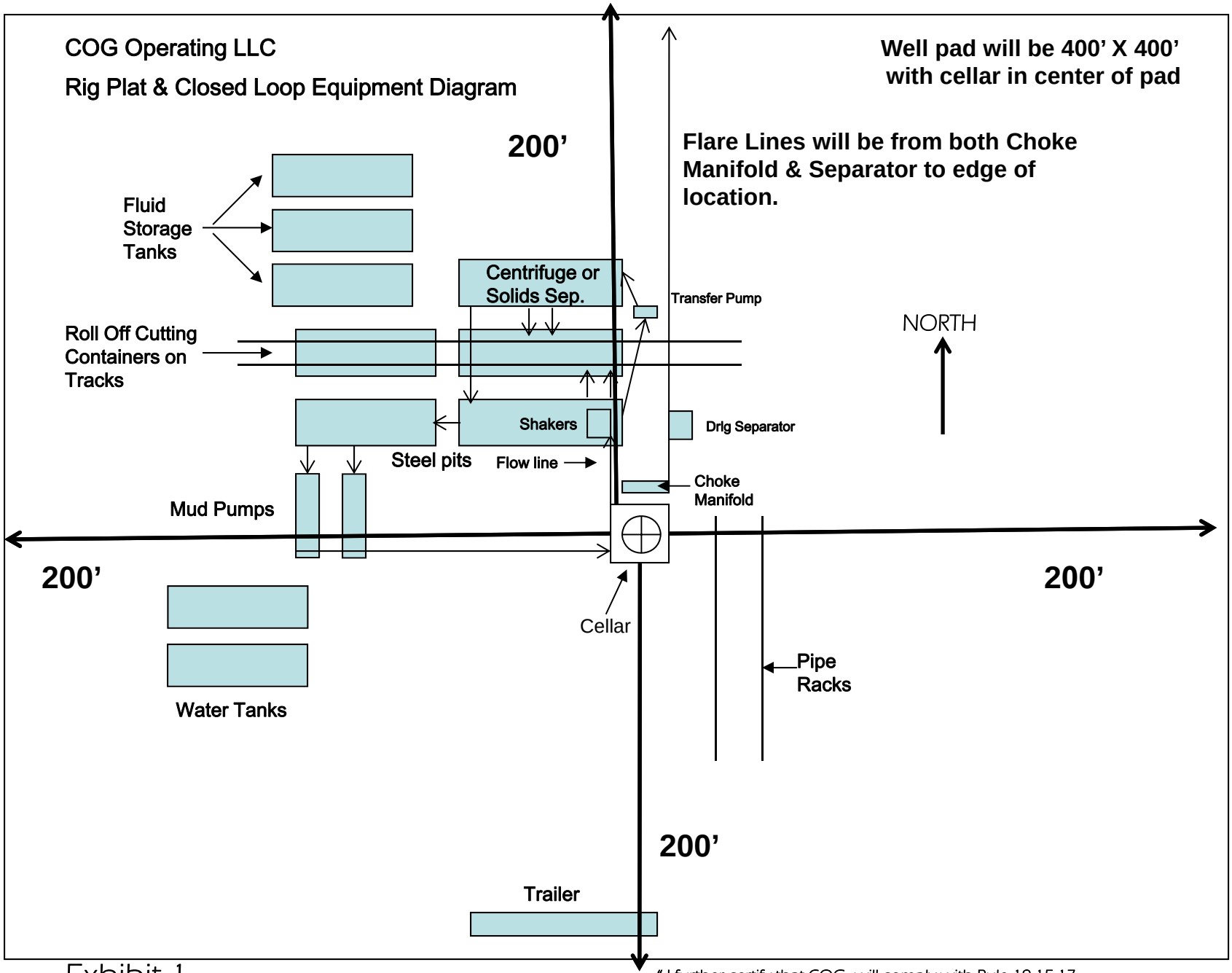


Exhibit 1

" I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Marathon Oil Permian LLC **OGRID:** 372098 **Date:** 03/31/2026

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
Squints Federal Com 501H	30-015-	J-04-24S-26E	2382 FSL & 1338 FEL	± 743	± 791	± 1371
Squints Federal Com 502H	30-015-	I-04-24S-26E	2363 FSL & 1333 FEL	± 743	± 791	± 1371
Squints Federal Com 503H	30-015-	I-04-24S-26E	2343 FSL & 1328 FEL	± 743	± 791	± 1371
Squints Federal Com 504H	30-015-	I-04-24S-26E	2324 FSL & 1324 FEL	± 743	± 791	± 1371
Squints Federal Com 701H	30-015-	I-04-24S-26E	2431 FSL & 1144 FEL	± 633	± 1072	± 669
Squints Federal Com 702H	30-015-	I-04-24S-26E	2412 FSL & 1139 FEL	± 633	± 1072	± 669
Squints Federal Com 703H	30-015-	I-04-24S-26E	2392 FSL & 1135 FEL	± 633	± 1072	± 669
Squints Federal Com 704H	30-015-	I-04-24S-26E	2373 FSL & 1130 FEL	± 633	± 1072	± 669
Squints Federal Com 901H	30-015-	I-04-24S-26E	2480 FSL & 951 FEL	± 633	± 1072	± 669
Squints Federal Com 902H	30-015-	I-04-24S-26E	2461 FSL & 946 FEL	± 633	± 1072	± 669
Squints Federal Com 903H	30-015-	I-04-24S-26E	2441 FSL & 941 FEL	± 633	± 1072	± 669
Squints Federal Com 904H	30-015-	I-04-24S-26E	2422 FSL & 936 FEL	± 633	± 1072	± 669

IV. Central Delivery Point Name: CTB SWNE 09-24S-26E [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
Squints Federal Com	Pending	± 03/01/2027	± 25 days from spud	TBD	TBD	TBD
501H – 504H; 701H – 704H; 901H - 904H						

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

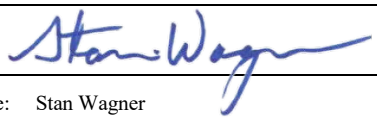
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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:	Stan Wagner
Title:	Regulatory Advisor
E-mail Address:	stan.s.wagner@conocophillips.com
Date:	02/05/2026
Phone:	432-253-9685

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

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.

F. 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.
G. 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

Waste Minimization Plan

Per § 3162.3-1 Drilling applications and plans. Part J:

B. The anticipated initial oil production rate from the oil well and the anticipated production decline over the first 3 years of production.

- See attached Anticipated Production & Decline Curve

C. The anticipated initial oil-well gas production rate from the oil well and the anticipated production decline over the first 3 years of production.

- See attached Anticipated Production & Decline Curve

D. Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.

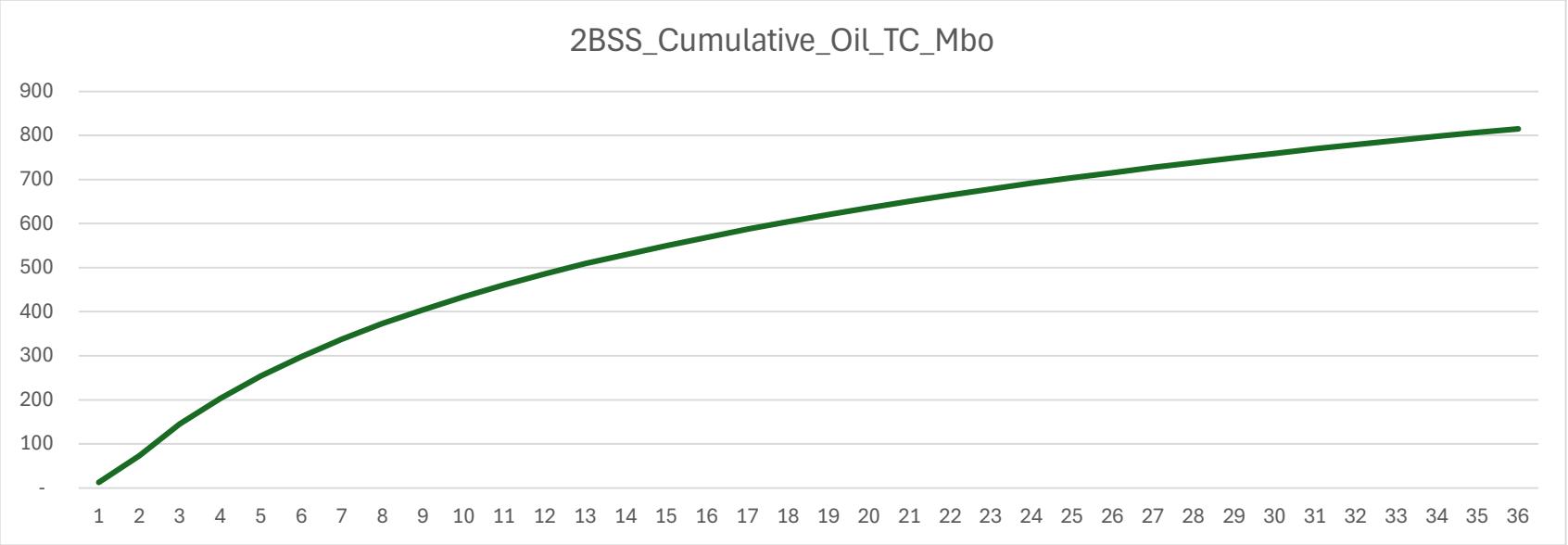
- See attached NMOCD – Natural Gas Management Plan

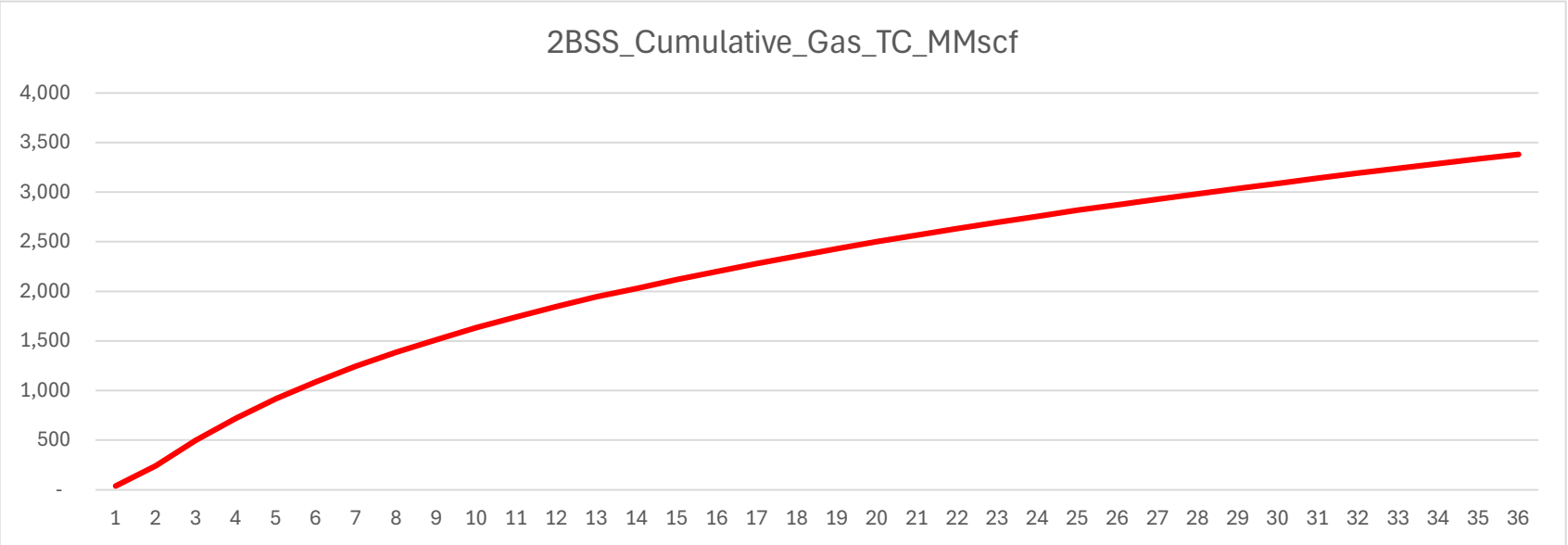
E. Any other information demonstrating the operator's plans to avoid the waste of gas production from any source, including, as appropriate, from pneumatic equipment, storage tanks, and leaks.

- This location will comply with NSPS OOOOb which will include reduced associated gas flaring, non-emitting pneumatic equipment, storage tanks that are controlled and a rigorous leak detection and repair program. In addition, this facility complies with 20.2.50 NMAC (Ozone Precursor Pollutants) which also imposes standards on pneumatic equipment, tank controls, and leak detection and repair. Finally, this facility must comply with 19.15.27 NMAC (Venting and Flaring of Natural Gas) which

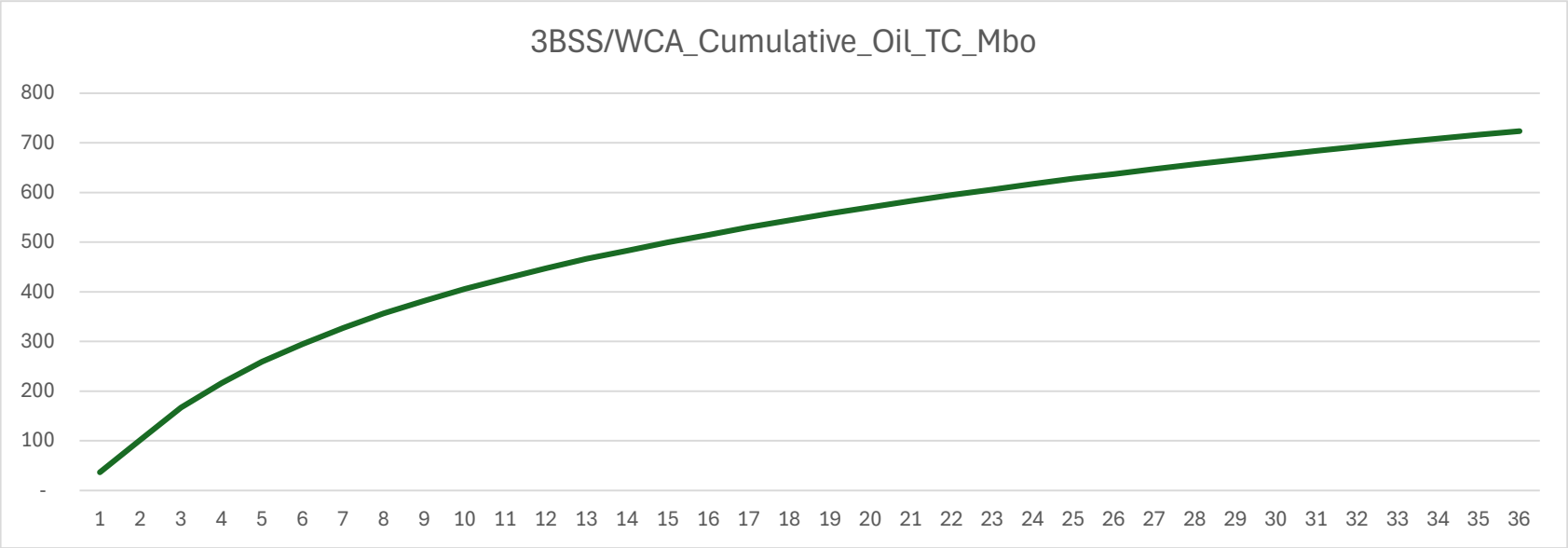
significantly reduces instances of flaring.

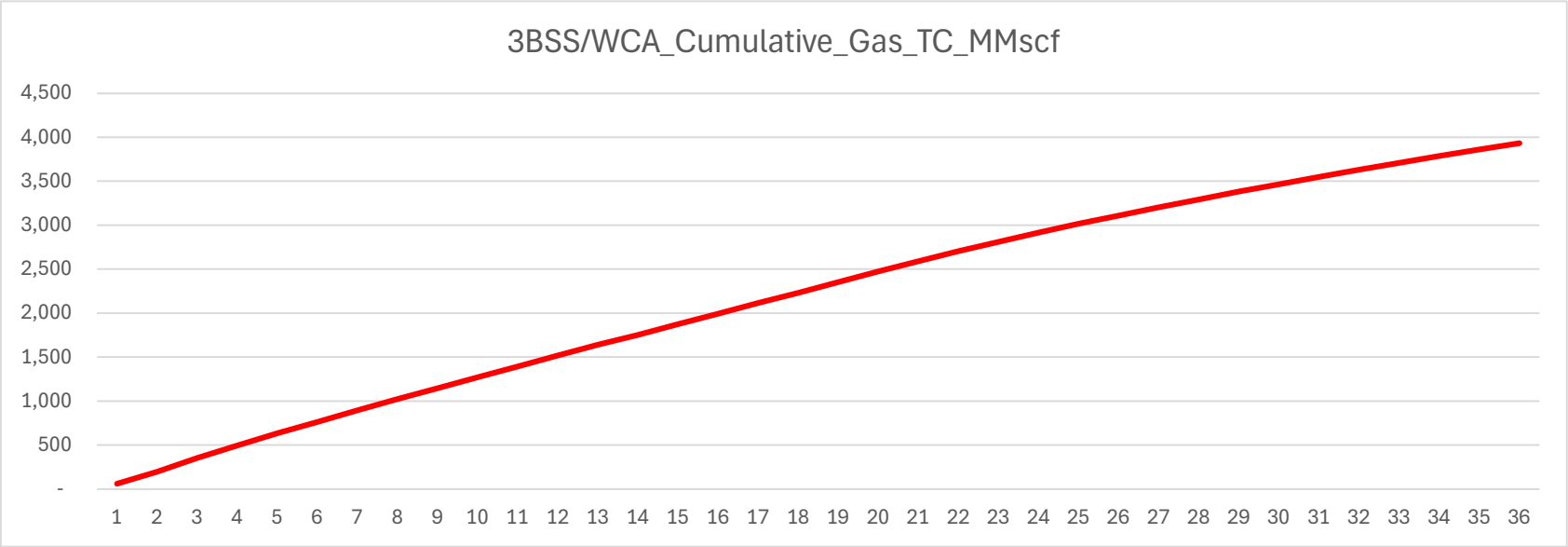
Anticipated Production Decline Curve





Anticipated Production Decline Curve





PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MARATHON OIL PERMIAN LLC
WELL NAME & NO.:	SQUINTS 24 26 FED COM 501H
LOCATION:	Section 4, T.24 S., R.26 E., NMP
COUNTY:	Eddy County, New Mexico

Create COAs

H_2S	Cave / Karst	Waste Prevention Rule
Present	High	Waste Minimization Plan

Potash	R-111-Q Design
None	

Wellhead	Casing	Cementing
Multibowl	3-String Well	☐ DV Tool ☑ Bradenhead ☑ Echometer
☑ Flex Hose	☐ Liner ☑ Fluid Filled ☐ Casing Clearance	☑ Offline Cement ☐ Open Annulus ☐ Pilot Hole
☑ Break Testing		

Special Requirements

☐ Capitan Reef ☐ Water Disposal ☑ COM ☐ Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **370** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **Set depth adjusted per BLM geologist.**
   a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the

cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
    - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

Contingency Bradenhead Squeeze: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon**.
b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down **Surface X Intermediate 1** annulus. Submit results to the BLM. If cement does not tie back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

- Operator shall run a CBL from TD of the **Intermediate 1** casing to tieback requirements after the second stage BH to verify TOC.
- **Operator shall run Echo-meter to verify Cement Slurry/Fluid top in the annulus.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.
    - Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.
    - No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface.
    - Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1**.
    - If cement does not circulate to surface on the previous casing, this string must come to surface.
    - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

4 String Contingency Plan

H_2S	Cave / Karst	Waste Prevention Rule
Present	High	Waste Minimization Plan
Potash	**R-111-Q Design**	
None		
Wellhead	**Casing**	
Multibowl	4-String Well	
	☑ Liner ☑ Fluid Filled ☑ Casing Clearance	
☑ Flex Hose	**Cementing**	
☑ Break Testing	☐ DV Tool ☐ Bradenhead ☐ Echometer	
	☑ Offline Cement ☐ Open Annulus ☐ Pilot Hole	
Special Requirements		
☐ Capitan Reef ☐ Water Disposal ☑ COM ☐ Unit		

C. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

D. CASING

4. The **13-3/8** inch surface casing shall be set at approximately **370** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **Set depth adjusted per BLM geologist.**
    e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the

cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
h. If cement falls back, remedial cementing will be done prior to drilling out that string.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

5. The minimum required fill of cement behind the **10-3/4** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
   - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

Intermediate liner casing must be kept fluid filled to meet BLM minimum collapse requirement.

6. The minimum required fill of cement behind the **8-5/8** inch production liner is **100 feet** into the previous casing. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1**..
   - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

7. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1**.
   - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

E. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) annular which shall be tested to 5000 (5M) psi.**
   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

2. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
3. Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
    a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drill the production hole section.**
    b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
    c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
    d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
    e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.

F. SPECIAL REQUIREMENT(S)

Communitization Agreement:

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Offline Cementing

Offline cementing has been approved for **all hole sections, excluding production.** Contact the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for 1st Intermediate casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

For multi-well pads, notifications for the following operations may be made together going from one well to the next. This does **NOT** apply to notifications for wells in the R111Q potash area:

- Casing run
- Offline cementing
- Break testing

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator proposed to drill multiple wells utilizing a skid / walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on swell.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will always be operational during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING & CEMENT

1. The current acceptable methods of cement verification are as follows:
    i. Observing cement circulated to surface,
    ii. Cement Bond Log (CBL),
    iii. Temperature log within 8-10 hours after completing the cement job,
    iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)
2. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
3. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Well specific cement details must be onsite prior to pumping the cement for each casing string.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
8. If hard band drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

9. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (This only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000-psi chart for a 5M BOP/BOPE and on a 15000-psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two -our clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created because of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 11/9/2026

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

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 642004
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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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

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 642004
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/13/2026
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/13/2026
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	11/19/2026
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/19/2026
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.	11/19/2026
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.	11/19/2026
ward.rikala	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	11/19/2026
ward.rikala	Post Bradenhead cement squeeze, a CBL will be required. If zonal isolation was not achieved per OCD requirements, then remedial work is required before operations can continue.	11/19/2026